



# Chillers

The ultimate in  
reliability and flexibility

2026  
NEW







Daikin chillers combine advanced technology with exceptional reliability and flexibility. They provide a safe and dependable way to achieve a comfortable indoor environment, along with clean, consistent process cooling you can trust.



# Chillers

|                                                                                     |     |
|-------------------------------------------------------------------------------------|-----|
| Tools and platforms                                                                 | 571 |
| Daikin, the best partner                                                            |     |
| for your green project                                                              | 572 |
| Reliability and efficiency                                                          | 574 |
| Why choose Daikin chillers                                                          | 578 |
| Industrial Heating & Cooling                                                        | 580 |
| Products Overview - Air cooled chillers,<br>condensing units and Multipurpose units | 590 |
| Products Overview - Water cooled and<br>condenserless chillers                      | 592 |

|                                         |            |
|-----------------------------------------|------------|
| <b>Air cooled chillers cooling only</b> | <b>595</b> |
| ▪ EWAA-DV3P                             | 595        |
| ▪ EWAA-DW1P                             | 596        |
| ▪ EWAA-DV3P-H                           | 597        |
| ▪ EWAA-DW1P-H                           | 598        |
| ▪ EWAT-CZ                               | 599        |
| ▪ EWAS-TZ D                             | 602        |
| ▪ EWAT-B-SSB/SLB                        | 614        |
| ▪ EWAT-B-SRB                            | 615        |
| ▪ EWAT-B-XSB/XLB                        | 616        |
| ▪ EWAT-B-XRB                            | 618        |
| ▪ EWAT-B-SSC                            | 620        |
| ▪ EWAT-B-SRC                            | 621        |
| ▪ EWAT-B-XSC                            | 622        |
| ▪ EWAT-B-XRC                            | 623        |
| ▪ EWAD-TZ D                             | 624        |
| ▪ EWAH-TZ D                             | 636        |
| ▪ EWFT-B-SSC                            | 648        |
| ▪ EWFT-B-SRC                            | 649        |
| ▪ EWFT-B-XSC                            | 650        |
| ▪ EWFT-B-XRC                            | 651        |
| ▪ EWFD-TZ D                             | 652        |
| ▪ EWFH-TZ D                             | 660        |
| ▪ EWFS-TZ D                             | 668        |

|                                      |            |
|--------------------------------------|------------|
| <b>Air cooled chillers Heat pump</b> | <b>676</b> |
| ▪ EWYA-DV3P                          | 676        |
| ▪ EWYA-DW1P                          | 678        |
| ▪ EWYA-DW1P-H-                       | 679        |
| ▪ EWYA-DV3P-H-                       | 680        |
| ▪ EWYT-CZ                            | 682        |
| ▪ EWYE-CZ                            | 685        |
| ▪ EWYT-B-SS/SL                       | 690        |
| ▪ EWYT-B-SR                          | 692        |
| ▪ EWYT-B-XS/XL                       | 694        |
| ▪ EWYT-B-XR                          | 696        |
| ▪ EWYT-CZ I / EWYT-CZ O              | 698        |
| ▪ EWYD-BZSS                          | 699        |
| ▪ EWYD-BZSL                          | 700        |

|                          |            |
|--------------------------|------------|
| <b>Multipurpose unit</b> | <b>702</b> |
| ▪ EWYS-4Z                | 702        |

|                                   |            |
|-----------------------------------|------------|
| <b>Air cooled condensing unit</b> | <b>704</b> |
| ▪ ERAD-E-SS                       | 704        |
| ▪ ERAD-E-SL                       | 705        |

|                              |            |
|------------------------------|------------|
| <b>Water cooled chillers</b> | <b>706</b> |
| ▪ EW(W-H-L)T-Q-A             | 706        |
| ▪ EWWQ-KC                    | 709        |
| ▪ EWWD-J-SS                  | 710        |
| ▪ EWWH-J-SS                  | 712        |
| ▪ EWWS-J-SS                  | 713        |
| ▪ EWWD-VZ                    | 716        |
| ▪ EWWH-VZ                    | 720        |
| ▪ EWWS-VZ                    | 724        |

|                               |            |
|-------------------------------|------------|
| <b>Condenserless chillers</b> | <b>728</b> |
| ▪ EWLQ-KC                     | 728        |
| ▪ EWLD-J-SS                   | 731        |
| ▪ EWLH-J-SS                   | 732        |
| ▪ EWLS-J-SS                   | 733        |
| ▪ EWLD-I-SS                   | 734        |

|                                          |            |
|------------------------------------------|------------|
| <b>Water cooled centrifugal chillers</b> | <b>736</b> |
| ▪ EWWD-DZ                                | 736        |
| ▪ EWWH-DZ                                | 738        |
| ▪ EWWS-DZ                                | 740        |
| ▪ DWSC C Series                          | 742        |
| ▪ DWDC C Series                          | 743        |

|                    |            |
|--------------------|------------|
| <b>Accessories</b> | <b>744</b> |
|--------------------|------------|



Proven in the toughest conditions worldwide, Daikin chillers, fan coil units, and air handling units deliver high quality, operational efficiency, and significant energy savings. They are ideal for a wide range of applications, from air conditioning to industrial process cooling and heating, as well as large-scale district cooling and heating systems.



## A partner of choice

Daikin is Europe's leading manufacturer, and the global number one, of energy-efficient heating, cooling, ventilation, and refrigeration solutions. Our products are used in homes, businesses, and industry. We lead the way with technologies that save energy, protect the environment, and deliver reliable performance. Daikin's flexible systems are designed to provide high efficiency in commercial, institutional, and industrial buildings.

## The comfort of reliability

Business runs better when it stays simple. Yet complexity often creeps in, bringing mistakes, delays, or losses. The reality is, the world we all work in can be challenging. As businesses grow and expand nationally and internationally, managing everything becomes even harder. Whether you're a small business or a global company, you deserve partners you can rely on. Partners who remove the stress and let you focus on what matters. With Daikin, you've found that partner. Because at Daikin, we believe in making things easy... for you.

## Daikin quality

Daikin's renowned quality comes from the close attention given to design, production, testing, and after-sales support. Every component is carefully chosen and rigorously tested to ensure it meets the highest standards of quality and reliability.

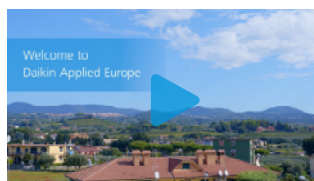
## Staff who understand you

Daikin's team of dedicated engineers, consultants, and analysts are here to support you every day. Helping set up national or international agreements, advising on equipment choices, and monitoring regulations. Our aim is to help you move forward with confidence, using custom-designed systems tailored to your needs for comfort, performance, support, and service.

## Daikin Applied Development Center

Opened in May 2009, the Daikin Applied Development Center is one of the world's most advanced facilities for heating, ventilation, and air conditioning (HVAC) research and development. Its goal is to create and test chillers, compressors, and other HVAC technologies that use less energy and help cut the carbon footprint of buildings.

Find out more about Daikin Applied Europe in the video below:



**You Tube**  
www.youtube.com/  
DaikinEurope



## Witness Testing Chiller testing facilities Daikin Applied Europe

We are industry leaders in air-cooled and water-cooled chiller technologies. Their performance under any condition can be demonstrated through witness tests. During witness testing, even the toughest design conditions can be simulated. Customers and consultants can see the product's performance before delivery, ensuring peace of mind when integrating the chiller into the overall project. We have the expertise and state-of-the-art testing facilities needed to achieve these goals.

Find out more about our testing facilities in the video below:



**You Tube**  
www.youtube.com/  
DaikinEurope



# Tools and platforms

Have a question, searching for specific software applications, need detailed product information, or looking for other marketing tools? This overview shows you what we have to offer.

## Selection software

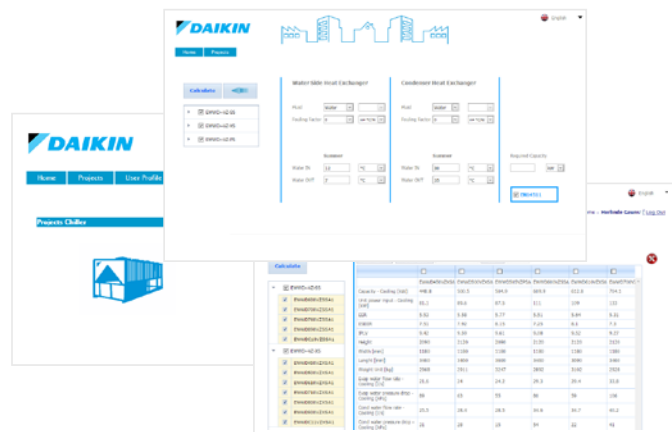
Daikin Europe offers you a variety of building modelling, selection, simulation and quotation software tools to support your sales.

## Web-based chiller selection software

A user-friendly interface lets users quickly create new projects, open and edit existing ones, or simply make a quick selection. Technical selection reports can be printed or downloaded in various formats.

To make life easier, the tool works anywhere, on any device. Wherever you are, projects can always be accessed.

Create a new account on:  
<http://tools.daikinapplied.eu/>



## ASTRA Web

- Quick AHU selection that saves you precious time, drastically cutting selection time with the new software interface.
- Very competitive solutions available within the Wizard thanks to preloaded parameters.
- High selection quality, thanks to the intelligence built into the software core.

## Online support

### Business portal

Experience our extranet, designed to support you proactively:

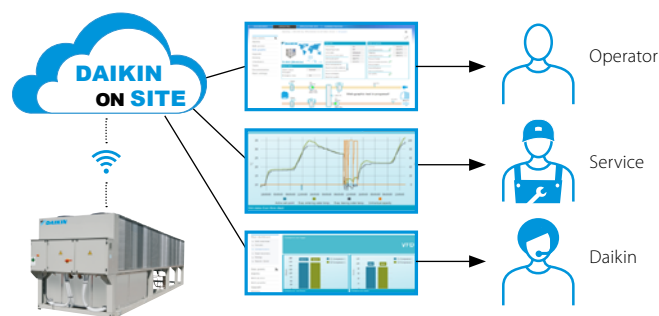
- find what you need in seconds with a powerful search
- customise options to see only the info relevant to you
- access on mobile or desktop at **my.daikin.eu**

### Daikin on Site

Daikin has developed a new remote monitoring and control tool for chillers and air handling units, giving peace of mind to the end customer.

Using this tool ensures optimum performance and cost savings throughout the system's lifetime:

- improved control and monitoring
- monitors the entire system
- reduces risks as early as possible
- keeps the system working as it was designed to







# Daikin, the best partner for your green project

Since 2015, the majority of new building projects have been expected to be green. 93% of developers and investors consider green certification important. BREEAM and LEED green building programmes remain the two most important sustainable building certificates, covering more than 75% of the total sustainable building certificate market.

## Property developers are setting high standards

- Aiming for a BREEAM Excellent or LEED Gold target is no longer rare

## The real challenge? Achieving these targets while staying within budget HVAC-R systems play an important role

- Within the total green assessment & investment cost
- They require the alignment of many different parties

It is essential to work with an HVAC-R partner who has the expertise and portfolio to support BREEAM, LEED, and other sustainability objectives. Daikin has contributed to numerous green and sustainable projects. Supporting builders in achieving BREEAM Excellent, LEED Gold, NZEB, and similar certifications has become one of our core competencies.

## ☒ We have a team of BREEAM accredited professionals (APs) at your service:

- Assisting you in achieving your BREEAM certificate

## ☒ You get maximum support in scoring BREEAM credits & LEED points:

- Daikin Total HVAC-R Solutions
- High seasonal efficiency technologies
- Smart energy management with an intelligent network
- Boost your end score with innovative products & technologies

## Maximise your BREEAM and LEED green building programme score with Daikin solutions

### ▪ Manage up to 70% of your energy consumption with the Daikin Total Solution

### ▪ Top seasonal efficiency

Both BREEAM and LEED green building programmes place the greatest emphasis on energy efficiency. This is exactly why selecting the right HVAC partner matters.

### ▪ Smart air conditioning management with Intelligent Network

To drastically reduce your energy consumption and CO<sub>2</sub> emissions, it's not enough to simply make your equipment more efficient. You also need to manage how and when it's used.

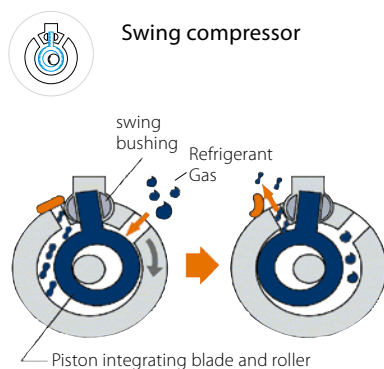




# Day-to-day reliability and efficiency

## In-house development and manufacturing of compressors

Unlike many other air conditioning manufacturers, Daikin produces its own compressors. This matters because the compressor is the core of the air conditioning system, increasing the pressure and temperature of the refrigerant vapour and concentrating heat as it moves through the system. Daikin has long led the way in compressor technology and now offers a complete range of swing, scroll, screw and centrifugal compressors. As a result, inverter compressor control is integrated across our product range, ensuring improved comfort and system efficiency.

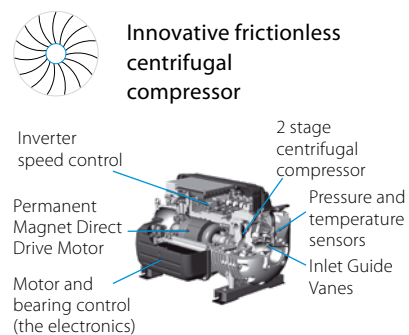


The mini chiller series is equipped with a swing inverter compressor. This innovative Daikin design has fewer moving parts, ensuring smoother, more reliable operation with low vibration and reduced noise levels. The high-efficiency motor lowers energy consumption, leading to energy cost savings.

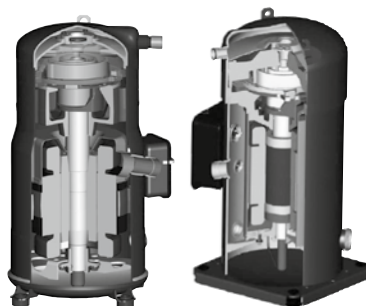


### Characteristics:

- Compact, simple yet robust design
- Absence of valves and oscillating connecting mechanisms providing maximum reliability
- Constant compression guaranteeing low energy consumption
- Increased compression efficiency thanks to the absence of volumetric re-expansion
- Low sound level
- Low starting current



The innovative frictionless centrifugal compressor has an integrated VFD, as well as magnetic bearings, and delivers high levels of unit efficiency and reliability. The compressor's only moving part - the rotor shaft and impellers - are powered by the permanent magnetic direct-drive motor and kept levitated by a digitally controlled magnetic bearing system. This reduction in moving parts significantly increases unit reliability and reduces maintenance costs. As the condensing temperature and/or cooling load reduces, the speed of rotation reduces and movable inlet guide vanes, activated by the step motor, redirect gas flow into the first stage impeller once the compressor has reached its minimum speed. This delivers increased efficiency and cost savings during part-load operations.





Whatever the requirements of the customer - large systems requiring constant capacity or small systems for flexibility - Daikin always provides a reliable and efficient solution.

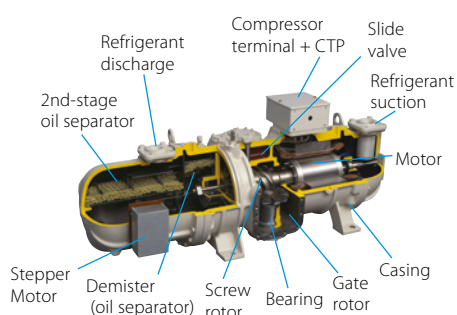


#### The single-screw stepless compressor for high capacity

At the core of the larger Daikin chillers is a semi hermetic single screw compressor, designed, tested and manufactured in Daikin's own factories, in order to meet the highest capacity, performance and maintenance specifications. This compressor has been especially developed for operation with R-410A or R-134A refrigerants, guaranteeing unequalled reliability and many years of efficient operation. The bearing life is 100,000hrs with inspection and maintenance intervals every 40,000hrs.

#### Characteristics:

- Optimal performance through stepless capacity control chilled water temperatures.
- Compact, simple yet robust construction.
- Using a main single screw and two gate rotors, axial and radial forces are balanced, thanks to the symmetrical compression guaranteeing low bearing loads.
- Gate rotors made of polymer material result in closer tolerances with the main screw and reduced friction greatly improves compressor efficiency and lifetime.
- No oil pump necessary - lubrication based on the differential pressure principle.
- Easy access to both compressor and safety devices.



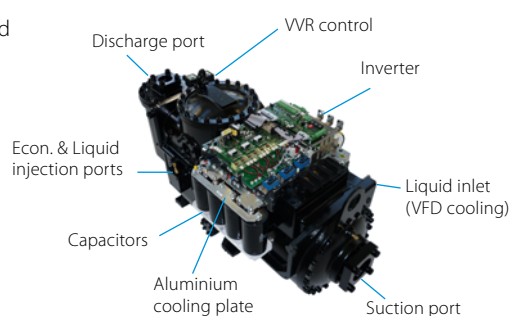
#### Screw compressor with integrated inverter

#### Characteristics:

- Compressor and inverter fully designed by Daikin
- Inverter refrigerant cooled
- VVR = Variable Volume Ratio for optimised efficiency
- Enlarged discharge port and suction side for reduced refrigerant pressure drop
- New optimised compressor motors

#### Main benefits:

- Better ESEER & EER values
- Rapid payback time
- Silent operations
- Optimal comfort levels





## Chillers



Air cooled chiller installation



Office application



Air cooled chiller installation



Industrial Application





Hotel application



Data center application



Process cooling application

|                                           |
|-------------------------------------------|
| Introduction                              |
| Residential indoor air quality            |
| Heating                                   |
| Split                                     |
| Sky Air                                   |
| Rooftop                                   |
| VRV                                       |
| Commercial Ventilation & Air purification |
| Marine Industry                           |
| <b>Chillers</b>                           |
| Fan coil units                            |
| Air handling units                        |
| Commercial & Transport Refrigeration      |
| Control systems                           |





# Daikin chillers

## Why choose Daikin chillers?

Daikin chillers are the perfect bridge between project requirements and customer satisfaction. From the smallest chillers to the very largest, our quality control and attention for detail is absolute. Our systems have the **most advanced technologies**, deliver **the highest energy efficiencies** and **lowest running costs**, and are the gold standard for reliability and performance.

### The widest and most flexible chiller portfolio

- From the smallest mini chiller for residential use to the largest chiller for district cooling
- Tailor made solutions based on the most advanced technologies
- Wide range of options and accessories

### Worldwide experience in chiller design and manufacturing

- World's most advanced facilities for air conditioning research and development: the Applied Development Center in Minneapolis, Minnesota
- Inhouse development and manufacturing of chiller main components (compressors, fans, condenser coils, software, etc...)
- Chillers produced in European factories, in Rome and Ostend

### The highest efficiency for every installation

- Inverter technology over the whole capacity range

### Quality and reliability

- Daikin's integrated zero defect policy ensures quality of components and finished products
- Each Daikin chiller is factory run-tested and subjected to quality audit before shipment

### Benefits for installers

- Plug & play solutions
- Maximum serviceability
- Ideal solutions for retrofit projects

### Benefits for consultants

- Energy efficient solutions without compromising on reliability and performance
- Latest technology embedded in all our products

### Benefits for end users

- Remarkable savings on running costs
- Easy to customise the chiller to your application, environment and need thanks to more than 150 different options.

# Supporting tools

## Business portal

- Experience our extranet that thinks with you at [my.daikin.eu](https://my.daikin.eu)
- Find information in seconds via a powerful search
- Customise the options so you see only info relevant for you
- Access via mobile device or desktop



[my.daikin.eu](https://my.daikin.eu)

## Website

- [www.daikin.eu/en\\_us/product-group/chillers.html](https://www.daikin.eu/en_us/product-group/chillers.html)
- <https://catalogues.daikin.eu/#>
- Explore our product range
- Find our solutions for applications
- Get more commercial details on our flagship products



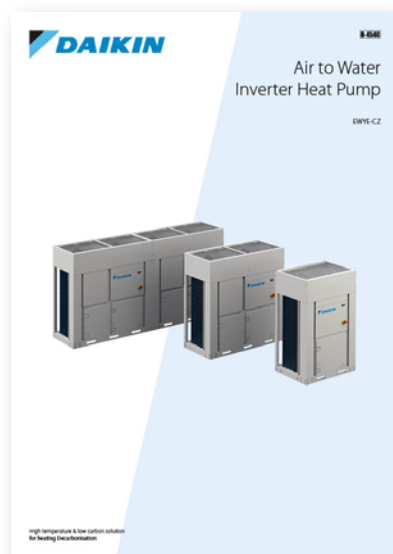
[www.daikin.eu/en\\_us/product-group/chillers](https://www.daikin.eu/en_us/product-group/chillers)



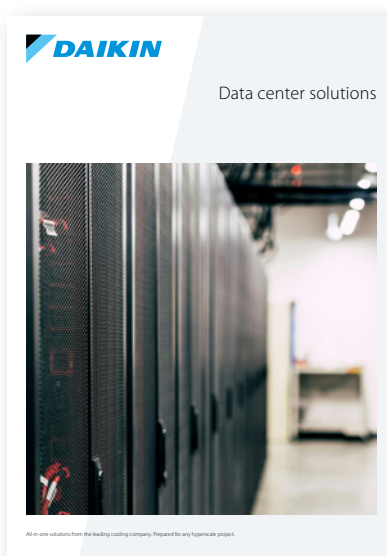
<https://catalogues.daikin.eu>

## Literature

- Download or consult our literature for our professional network and end-customers



EWYE-CZ - Air to Water  
Inverter Heat Pump



Data center solutions



Water to Water  
Modular Heat Pumps



# Industrial Heating & Cooling

Over 60% of the energy used in industrial plants comes from fossil fuels, and HVAC systems account for around 65% of total consumption. Decarbonising heating and cooling is therefore key to reducing both emissions and costs.

Daikin's industrial solutions deliver precise temperature control for process and comfort applications, providing fully electric heating up to +90 °C and cooling down to -15 °C. Ideal for food and beverage production, pharmaceuticals, chemical processes, metal treatment or data centres, they ensure stable, efficient and continuous operation. By integrating heat recovery and energy reuse, Daikin systems optimise the entire plant's energy balance while supporting the transition toward low-carbon manufacturing.



## Heating solutions

|                    | Compressor type            | Unit range  | Capacity range   | Max heating water |
|--------------------|----------------------------|-------------|------------------|-------------------|
| <br>Water-To-Water | <br>Screw compressor       | <br>EWWH-VZ | 400 - 2,100 kW   | +90°C             |
|                    |                            | <br>EWWH-J- | 106 - 243 kW     | +75°C             |
|                    | <br>Scroll compressor      | <br>EWWT-Q- | 100 - 1,280 kW   | +60°C             |
|                    |                            | <br>DWDC    | 1,580 - 9,000 kW | +46°C             |
|                    | <br>Centrifugal compressor | <br>DWSC    | 790 - 4,500 kW   | +46°C             |
|                    |                            | <br>EWWH-DZ | 300 - 1,900 kW   | +55°C             |
| <br>Air-To-Water   | <br>Scroll compressor      | <br>EWYK-QZ | 100 - 2,000 kW   | +75°C             |
|                    |                            | <br>EWYE-CZ | 16 - 70 kW       | +70°C             |
|                    | <br>Screw compressor       | <br>EWYT-B- | 82 - 1,275 kW    | +60°C             |
|                    |                            | <br>EWYS-4Z | 400 - 800 kW     | +60°C             |
|                    |                            | <br>EWYD-BZ | 271 - 618 kW     | +55°C             |

\*ENEA research report: «La farmaceutica», Italy, 2022

# Cascade systems

The cascade system allows to deliver fully electric heating by combining Air Source Heat Pump & Water Source Heat Pump enabling the production of domestic hot water and the possibility to operate the units in mixed mode (DHW + Comfort heating or cooling). This solution is available for the following Daikin products:

- **EWYT-B- + J Series** – ideal for small-scale applications
- **EWYT-B- + VZ Series** – designed for large-scale applications

This system can be integrated with the **Intelligent Chiller Manager (iCM)**, an advanced control solution designed to optimize and manage a chiller plant room, up to eight units of each type (air-to-water and water-to-water) can operate simultaneously, allowing flexibility in unit sizes while ensuring optimal system performance through iCM's staging and sequencing functions.

|                      |                                                                                   | Capacity range  | Max heating water |
|----------------------|-----------------------------------------------------------------------------------|-----------------|-------------------|
| <b>Large Systems</b> |  | 330 - 16,000 kW | +90°C             |
| <b>Small Systems</b> |  | 106 - 1,944 kW  | +75°C             |

## iCM benefits



High performance



Lower energy & maintenance costs



Increased reliability & lifetime

# Cooling solutions

| Compressor type                                                                                     |                                                                                                               | Unit range                                                                                  | Capacity range                                                                                | Min. chilled water |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------|
| <br>Water cooled | <br>Screw compressor       | EWWH-VZ  | 330 - 2,000 kW                                                                                | -8°C               |
|                                                                                                     |                                                                                                               | EWWH-J-  | 89 - 284 kW                                                                                   | -10°C              |
|                                                                                                     | <br>Scroll compressor      | EWWT-Q-  | 200 - 1,280 kW                                                                                | -15°C              |
|                                                                                                     | <br>Centrifugal compressor | DWDC     | 1,500 - 9,000 kW                                                                              | -9°C               |
|                                                                                                     |                                                                                                               | DWSC     | 790 - 4,500 kW                                                                                | -9°C               |
| <br>Air cooled   | <br>Screw compressor       | EWYS-4Z  | 400 - 800 kW                                                                                  | -8°C               |
|                                                                                                     |                                                                                                               |                                                                                             | EWA/FH-TZ  | 171 - 2,312 kW     |
|                                                                                                     | <br>Scroll compressor      | EWYT-B-  | 82- 1,275 kW                                                                                  | -13°C              |
|                                                                                                     |                                                                                                               |                                                                                             |                                                                                               |                    |
|                                                                                                     | <br>Centrifugal compressor | EWWH-DZ  | 227 - 2,100 kW                                                                                | +4°C               |



# Variable Frequency Drive (VFD)

Daikin's Variable Frequency Drive (VFD) optimizes compressor capacity to match load demands, delivering high part-load efficiency and energy savings. It ensures reliable performance under all conditions, while its refrigerant-cooled design maintains efficiency regardless of ambient factors.

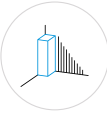
| Technology                                        | Air or Glycol Cooled                                                              | Daikin Refrigerant Cooled                                                         |
|---------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Not influenced by environmental conditions        |  |  |
| No external components needed for the VFD cooling |  |  |
| VFD cooling system needs dedicated maintenance    |  |  |



# Integrated Active Harmonic Filter

Active Harmonic Filters (AHFs) improve power quality by dynamically neutralizing harmonic components in real time, significantly reducing Total Harmonic Distortion (THD).



-  Fully assembled and factory tested
-  No additional space required
-  No additional installaton and maintenance
-  Refrigerant-cooled ensuring operation in every ambient condition



## An environmentally friendly HVAC solution for Engelbert Strauss' CI Factory

Engelbert Strauss sought an environmentally friendly HVAC solution for its CI Factory and turned to Daikin technologies to meet this need. The facility is now equipped with five EWAH-TZ units, delivering a total cooling capacity of 3,450 kW to ensure efficient and sustainable cooling and air conditioning.

### The challenge

This well-known manufacturer applies the same high standards of innovation to its CI Factory as it does to its products—particularly in terms of temperature control and environmental sustainability. On the roof of the logistics centre, a photovoltaic system with a nominal output of 800 kW supplies energy equivalent to the needs of 200 households. To remain consistent with these sustainability principles, the cooling and air conditioning systems also had to be designed with efficiency and environmental responsibility in mind. For this reason, Engelbert Strauss chose Daikin.

### The solution

The project called for an environmentally friendly HVAC solution, which led to the choice of chillers using the low GWP R-1234ze refrigerant. When combined with Daikin's Single Screw compressor technology, it also delivers outstanding energy efficiency. On the roof of the CI Factory, four Daikin air-cooled chillers are installed in a cascade configuration, each providing 820 kW of cooling capacity. This setup ensures efficient air conditioning for both the logistics and production areas. The cascade arrangement allows precise system control, activating all or only some of the chillers according to the building's actual cooling demand. The chiller plant also includes an additional air-cooled EWAH-TZ chiller with a 170 kW capacity, dedicated to cooling the factory's server rooms. These relatively compact chillers require minimal space while offering maximum reliability and flexibility for process cooling. The modern Single Screw compressor with inverter technology enables low-noise operation while maintaining exceptionally high efficiency levels.





## Residential applications

**Comfort** is a key aspect in residential applications as it ensures a good indoor environment. Equally important is **energy efficiency**, which not only reduces running costs but also contributes to environmental sustainability.



Single & Multi-family house



Collective housing

| Unit range                                                                                     | Capacity range | Max heating water | Unit range                                                                                      | Capacity range | Max heating water |
|------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------------------------------------------------------------------------------|----------------|-------------------|
| <br>EWYE-CZ | 16 - 70 kW     | +70°C             | <br>EWYK-QZ  | 100 - 2,000 kW | +75°C             |
| <br>EWYT-CZ | 16 - 90 kW     | +60°C             | <br>EWYT-B- | 82 - 1,275 kW  | +60°C             |
| <br>EWYA-DA | 4 - 16 kW      | +55°C             |                                                                                                 |                |                   |



## Cooling and heating for small residential buildings

Daikin has been providing heat pumps from its BLUEVOLUTION range as an ideal solution for various residential projects. One of the most recent installations took place in Porto, Portugal, where two EWYT-CZ units were installed, delivering a total cooling and heating capacity of 21 kW each. These systems demonstrate Daikin's commitment to combining energy efficiency with reliable performance in residential settings.

### The challenge

The goal of the project was to provide the end customer with a versatile solution capable of delivering both heating and cooling according to seasonal needs, as well as hot sanitary water. The system was designed to ensure maximum reliability, high energy efficiency, and low operating costs.

### The solution

The new R-32 Small Inverter Chiller has once again proven to be an excellent solution for residential projects, demonstrating the versatility of Daikin's product portfolio, which can meet the needs of installations ranging from large stadiums to individual homes. For this project, Daikin supplied two units in the heating version, each delivering 21 kW to comfortably meet the system's capacity requirements while achieving market-leading energy efficiency for this product segment. The R-32 Small Inverter Chillers were integrated into a system designed to provide both heating and cooling to indoor fan coils, as well as hot sanitary water, depending on seasonal needs. This solution was particularly valuable for the project due to its modern design, which maximizes efficiency through fully optimized inverter units and the use of the low-GWP R-32 refrigerant. Reliability was further guaranteed by Daikin's extensive experience in developing and deploying R-32 technology, ensuring consistent performance and long-term dependability.



# Green Building

## Daikin Solutions for Sustainable & Certified Buildings

Daikin supports project success with innovative and sustainable solutions, earning valuable credits for building certifications. Choosing Daikin ensures achieving ambitious project goals, delivering high performance & energy efficiency, while supporting the path toward the highest levels of building certification.



## Best practices in LEED projects in Spain

Daikin equipped Madrid's Caleido Tower, a dynamic office complex, with 4 VZ units and 32 D-AHUs Professional range with cooling capacity of 4,000 kw, to meet its demanding cooling and ventilation needs. Designing for Madrid's iconic skyline presented a unique challenge: creating an energy-efficient environment capable of supporting the building's diverse functions. With tailored HVAC solutions, Daikin played a key role in helping the project achieve LEED certification, combining performance, sustainability, and comfort at every level.

### The challenge

Caleido is a complex in Madrid's financial district. The tower itself is home to IE, a prestigious educational institution serving over 5,000 students. Rising more than 180 meters, Caleido presented a major challenge: creating a comfortable and energy-efficient environment that adapts seamlessly to its diverse uses. Adding to the complexity, the project was pursuing LEED certification, which required meeting a stringent set of sustainability and efficiency criteria throughout the building.

### The solution

Daikin delivered a fully customized HVAC solution, centered around advanced VZ water-cooled units with Variable Frequency Drive (VFD). At the heart of the system is an exceptionally reliable single-screw compressor, whose unique performance characteristics, combined with Daikin's Inverter technology and extensive expertise, ensure outstanding energy efficiency, durability, and overall reliability. To meet the project's comfort and sustainability goals, Daikin also supplied Professional AHUs. This unit range features a factory-fitted electrical control panel with Direct Digital Control (DDC), integrated temperature, humidity, and CO<sub>2</sub> sensors, and intelligent management of mixing dampers, heat recovery wheels, water valves, filter pressure switches, fan motors, and inverters. The control system is capable of managing chilled water coils, hot water coils, and DX cooling or heating coils supporting up to four circuits per DX coil. This combination of advanced hardware and intelligent controls provides precise climate management, energy efficiency, and comfort tailored to the complex's diverse needs.



# High-Quality Working Environment at Wellington Place in Leeds, UK.

Wellington Place is a prestigious new urban quarter in the heart of Leeds city centre, emerging as a prime business destination for leading corporate organisations. The latest additions, 7 and 8 Wellington Place, are Grade A office buildings set to become a regional Government Hub, housing several key departments. To support their advanced climate control needs, the buildings have been equipped with six D-AHU Professional units and four high-efficiency TZ chillers, delivering a total cooling capacity of 3,080 kW.

## The challenge

The goal of the project was to create a high-quality working environment for civil servants, going beyond basic functionality to foster well-being, comfort, and productivity.

## The solution

To meet the project's demanding energy efficiency and sustainability requirements, Daikin supplied four TZ air-cooled chillers from the Platinum efficiency range. The TZ series delivers top-tier performance, achieving an impressive ESEER rating of 5.78. Featuring optimized inverter screw compressors and inverter fans, the EWAD-TZ-B ensures maximum efficiency at both full and partial loads, making it an ideal choice to help 7-8 Wellington Place attain a BREEAM Excellent rating. In addition, Daikin Applied supplied and installed six D-AHU Professional units, including on-site assembly and leak testing, providing a complete, high-performance HVAC solution tailored to the project's needs.



# Chiller, heat pumps & compressor factories



This Daikin plant is dedicated to the production of **water-cooled** and **water-to-water chillers**, covering a capacity range from 98 kW up to 11 MW.

Production includes various technologies, featuring units equipped with **screw compressors** (inverter or on/off), **modular water-cooled units** with **scroll compressors**, as well as **centrifugal** and **oil-free centrifugal chillers**.



Plant dedicated to the production of **air-cooled** and **air-cooled chillers**, also available in the free cooling version.

The air-to-water units cover a capacity range from 82 kW up to 2,000 kW.



Factory dedicated to **R&D, testing, and manufacturing of screw compressors** and **Inverter screw compressors**, as well as the **assembly of centrifugal compressors**.



This plant, built in 2021, is dedicated to the **production of air-to-water heat pumps** and **air-cooled chillers** with capacities ranging from 16 kW to 90 kW, equipped with **Daikin inverter compressors**.





## Factory Acceptance Testing (FAT)

The Building I facility focuses on **R&D** for advanced HVAC technologies and includes an Engineering Area for **prototyping and testing water-to-water units** up to 4,500 kW, and a **Climatic Test Room** capable of testing various systems, air-cooled, water-to-water, four-pipe, and free cooling, under conditions from  $-20^{\circ}\text{C}$  to  $+52^{\circ}\text{C}$ .



Daikin offers **Factory Acceptance Testing (FAT)** to ensure units meet all requirements before delivery. Tests are performed at our **AHRI-certified** factory benches (up to 11 MW), and special conditions like **unique power supplies** can also be accommodated for optimal performance.



Daikin features **certified climatic chambers for witness tests**, capable of validating air-cooled chillers **up to 2,000 kW** under extreme conditions from  $-15^{\circ}\text{C}$  to  $+52^{\circ}\text{C}$  ambient temperature, at both 50 Hz and 60 Hz. All tests comply with **AHRI and Eurovent standards**, ensuring performance and reliability under full and part-load conditions.



# Products overview

|                        |                                                                                     | Refrigerant type * | Refrigerant circuits | <div>Inverter</div> | <div>Free cooling</div> | Compressor       |                   |                  | Water heat exchanger |                                       | Efficiency version |                   |                 |                     | Sound version       |                |                    |
|------------------------|-------------------------------------------------------------------------------------|--------------------|----------------------|---------------------|-------------------------|------------------|-------------------|------------------|----------------------|---------------------------------------|--------------------|-------------------|-----------------|---------------------|---------------------|----------------|--------------------|
|                        |                                                                                     |                    |                      |                     |                         | <div>Swing</div> | <div>Scroll</div> | <div>Screw</div> | <div>Plate **</div>  | <div>Single pass shell and tube</div> | <div>Blue</div>    | <div>Silver</div> | <div>Gold</div> | <div>Platinum</div> | <div>Standard</div> | <div>Low</div> | <div>Reduced</div> |
| Cooling only           |                                                                                     |                    |                      |                     |                         |                  |                   |                  |                      |                                       |                    |                   |                 |                     |                     |                |                    |
| EWAA-DV3P              |    | R-32               | 1                    | <div></div>         |                         | <div></div>      |                   |                  | <div></div>          |                                       |                    | <div></div>       |                 |                     | <div></div>         |                |                    |
| EWAA-DV3P-H/<br>DW1P-H |    | R-32               | 1                    | <div></div>         |                         | <div></div>      |                   |                  | <div></div>          |                                       |                    | <div></div>       |                 |                     | <div></div>         |                |                    |
| EWAT~CZN/P/H           |    | R-32               | 1-2                  | <div></div>         |                         |                  | <div></div>       |                  | <div></div>          |                                       |                    | <div></div>       |                 |                     | <div></div>         |                |                    |
| EWAT-B B               |    | R-32               | 1-2                  |                     |                         |                  | <div></div>       |                  | <div></div>          |                                       |                    | <div></div>       | <div></div>     |                     | <div></div>         | <div></div>    | <div></div>        |
| EWAT-B C               |    | R32                | 1-2                  |                     |                         |                  | <div></div>       |                  | <div></div>          |                                       |                    | <div></div>       | <div></div>     |                     | <div></div>         |                | <div></div>        |
| EWFT-B C               |    | R32                | 1-2                  |                     | <div></div>             |                  | <div></div>       |                  | <div></div>          |                                       |                    | <div></div>       | <div></div>     |                     | <div></div>         |                | <div></div>        |
| EWAH-TZ D              |   | R32                | 1-2                  | <div></div>         |                         |                  |                   | <div></div>      | <div></div>          | <div></div>                           | <div></div>        | <div></div>       | <div></div>     | <div></div>         | <div></div>         | <div></div>    | <div></div>        |
| EFWH-TZ D              |  | R1234ze(E)         | 1-2                  | <div></div>         | <div></div>             |                  |                   | <div></div>      | <div></div>          | <div></div>                           | <div></div>        | <div></div>       | <div></div>     | <div></div>         | <div></div>         | <div></div>    |                    |
| EWAS-TZ D              |  | R-513A             | 1-2                  | <div></div>         |                         |                  |                   | <div></div>      | <div></div>          | <div></div>                           | <div></div>        | <div></div>       | <div></div>     | <div></div>         | <div></div>         | <div></div>    | <div></div>        |
| EWFS-TZ D              |  | R-513A             | 1-2                  | <div></div>         | <div></div>             |                  |                   | <div></div>      | <div></div>          | <div></div>                           | <div></div>        | <div></div>       | <div></div>     | <div></div>         | <div></div>         | <div></div>    |                    |
| EWAD-TZ D              |  | R-143a             | 1-2                  | <div></div>         |                         |                  |                   | <div></div>      | <div></div>          | <div></div>                           | <div></div>        | <div></div>       | <div></div>     | <div></div>         | <div></div>         | <div></div>    | <div></div>        |
| EWFD-TZ D              |  | R-134a             | 1-2                  | <div></div>         | <div></div>             |                  |                   | <div></div>      | <div></div>          | <div></div>                           | <div></div>        | <div></div>       | <div></div>     | <div></div>         | <div></div>         | <div></div>    |                    |
| Heat pump              |                                                                                     |                    |                      |                     |                         |                  |                   |                  |                      |                                       |                    |                   |                 |                     |                     |                |                    |
| EWYA-DV3P              |  | R-32               | 1                    | <div></div>         |                         | <div></div>      |                   |                  | <div></div>          |                                       |                    | <div></div>       |                 |                     | <div></div>         |                |                    |
| EWYA-DV3P-H/<br>DW1P-H |  | R-32               | 1                    | <div></div>         |                         | <div></div>      |                   |                  | <div></div>          |                                       |                    | <div></div>       |                 |                     | <div></div>         |                |                    |
| EWYT~CZN/P/H           |  | R-32               | 1-2                  | <div></div>         |                         |                  | <div></div>       |                  | <div></div>          |                                       |                    | <div></div>       |                 |                     | <div></div>         |                |                    |
| EWYT-B                 |  | R-32               | 1-2                  |                     |                         |                  | <div></div>       |                  | <div></div>          |                                       |                    | <div></div>       | <div></div>     |                     | <div></div>         | <div></div>    | <div></div>        |
| EWYT-CZI<br>EWYT-CZO   |  | R-32               | 1-2                  | <div></div>         |                         |                  | <div></div>       |                  | <div></div>          |                                       |                    | <div></div>       |                 |                     | <div></div>         |                |                    |
| EWYE-CZ                |  | R-454C             | 2                    | <div></div>         |                         |                  | <div></div>       |                  | <div></div>          |                                       |                    | <div></div>       |                 |                     | <div></div>         |                |                    |
| EWYD~BZ                |  | R-134a             | 2-3                  | <div></div>         |                         |                  |                   | <div></div>      |                      | <div></div>                           |                    | <div></div>       |                 |                     | <div></div>         | <div></div>    |                    |
| Condensing unit        |                                                                                     |                    |                      |                     |                         |                  |                   |                  |                      |                                       |                    |                   |                 |                     |                     |                |                    |
| ERAD~E-                |  | R-134a             | 1                    |                     |                         |                  |                   | <div></div>      |                      |                                       |                    | <div></div>       |                 |                     | <div></div>         | <div></div>    |                    |
| Multipurpose unit      |                                                                                     |                    |                      |                     |                         |                  |                   |                  |                      |                                       |                    |                   |                 |                     |                     |                |                    |
| EWYS-4Z                |  | R-513A             | 2                    | <div></div>         |                         |                  |                   | <div></div>      |                      | <div></div>                           |                    |                   |                 |                     | <div></div>         |                | <div></div>        |

\* (GWP): R-410A (2,087.5), R-134a (1,430) - \*\* BPHE: Brazed plate heat exchanger

|           |      |           |     |       |       | Cooling capacity (kW) | Heating capacity (kW) |
|-----------|------|-----------|-----|-------|-------|-----------------------|-----------------------|
| 0         | 17.5 | 200       | 500 | 1,000 | 2,000 |                       |                       |
| 4.5~5.4   |      |           |     |       |       |                       |                       |
| 11.0~14.0 |      |           |     |       |       |                       |                       |
| 16.0~90.0 |      |           |     |       |       |                       |                       |
| 76.3~701  |      |           |     |       |       |                       |                       |
|           |      | 250~1,010 |     |       |       |                       |                       |
|           |      | 250~1,010 |     |       |       |                       |                       |
|           |      | 216~1,607 |     |       |       |                       |                       |
|           |      | 216~1,607 |     |       |       |                       |                       |
|           |      | 260~1,905 |     |       |       |                       |                       |
|           |      | 260~1,905 |     |       |       |                       |                       |
|           |      | 275~1,950 |     |       |       |                       |                       |
|           |      | 275~1,950 |     |       |       |                       |                       |
| 1-2       | 17.5 | 200       | 500 | 1,000 | 2,000 |                       |                       |
| 4.5~5.4   |      |           |     |       |       |                       |                       |
| 4.6~7.8   |      |           |     |       |       |                       |                       |
| 9.0~14.0  |      |           |     |       |       |                       |                       |
| 9.0~16.0  |      |           |     |       |       |                       |                       |
| 16.0~90.0 |      |           |     |       |       |                       |                       |
| 16.0~90.0 |      |           |     |       |       |                       |                       |
| 75.0~610  |      |           |     |       |       |                       |                       |
| 80.0~650  |      |           |     |       |       |                       |                       |
| 21~64     |      |           |     |       |       |                       |                       |
| 20~62     |      |           |     |       |       |                       |                       |
| 14~60     |      |           |     |       |       |                       |                       |
| 18~74     |      |           |     |       |       |                       |                       |
| 247~580   |      |           |     |       |       |                       |                       |
| 271~618   |      |           |     |       |       |                       |                       |
| 0         | 17.5 | 200       | 500 | 1,000 | 2,000 |                       |                       |
| 116~488   |      |           |     |       |       |                       |                       |
| 0         | 17.5 | 200       | 500 | 1,000 | 2,000 |                       |                       |
| 400~800   |      |           |     |       |       |                       |                       |
| 400~800   |      |           |     |       |       |                       |                       |



# Products overview

|                                                    |                                                                                     | Refrigerant Type *          | Refrigerant circuits | Inverter                                                                          | Compressor                                                                        |                                                                                   |                                                                                   | Water heat exchanger |                            |                | Efficiency version |      |         | Sound version |
|----------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------|----------------------------|----------------|--------------------|------|---------|---------------|
|                                                    |                                                                                     |                             |                      |                                                                                   | Scroll                                                                            | Screw                                                                             | Centrifugal                                                                       | Plate **             | Single pass shell and tube | Shell and tube | Standard           | High | Premium | Standard      |
|                                                    |                                                                                     |                             |                      |  |  |  |  |                      |                            |                |                    |      |         |               |
| Water cooled chillers (Cooling only and Heat Pump) |                                                                                     |                             |                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                      |                            |                |                    |      |         |               |
| EWVQ-KCW1N                                         |    | R-410a                      | 1-2                  |                                                                                   | •                                                                                 |                                                                                   |                                                                                   | •                    |                            |                | •                  |      |         | •             |
| EWWD~J-                                            |    | R-134a                      | 1                    |                                                                                   |                                                                                   | •                                                                                 |                                                                                   | •                    |                            |                | •                  |      |         | •             |
| EWVH-J-                                            |    | R1234ze                     | 1                    |                                                                                   |                                                                                   | •                                                                                 |                                                                                   | •                    |                            |                | •                  |      |         | •             |
| EWVS-J-                                            |    | R-513A                      | 1                    |                                                                                   |                                                                                   | •                                                                                 |                                                                                   | •                    |                            |                | •                  |      |         | •             |
| EWWD-VZ                                            |    | R-134a                      | 1-2                  | •                                                                                 |                                                                                   | •                                                                                 |                                                                                   |                      |                            | Flooded        | •                  | •    | •       | •             |
| EWVH-VZ                                            |    | R-1234ze(E)                 | 1-2                  | •                                                                                 |                                                                                   | •                                                                                 |                                                                                   |                      |                            | Flooded        | •                  | •    | •       | •             |
| EWVS-VZ                                            |  | R-513A                      | 1-2                  | •                                                                                 |                                                                                   | •                                                                                 |                                                                                   |                      |                            | Flooded        | •                  | •    | •       | •             |
| Condenserless chillers                             |                                                                                     |                             |                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                      |                            |                |                    |      |         |               |
| EWLQ-KCW1N                                         |  | R-410A                      | 1-2                  |                                                                                   | •                                                                                 |                                                                                   |                                                                                   | • BPHE               |                            |                | •                  |      |         | •             |
| EWLD~J-                                            |  | R-134a                      | 1                    |                                                                                   |                                                                                   | •                                                                                 |                                                                                   | •                    |                            |                | •                  |      |         | •             |
| EWLD~I-                                            |  | R-134a                      | 1-2-3                |                                                                                   |                                                                                   | •                                                                                 |                                                                                   |                      | •                          |                | •                  |      |         | •             |
| EWLH-J-                                            |  | R1234ze                     | 1                    |                                                                                   |                                                                                   | •                                                                                 |                                                                                   | •                    |                            |                | •                  |      |         | •             |
| EWLS-J-                                            |  | R-513A                      | 1                    |                                                                                   |                                                                                   | •                                                                                 |                                                                                   | •                    |                            |                | •                  |      |         | •             |
| Water cooled centrifugal chillers                  |                                                                                     |                             |                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                      |                            |                |                    |      |         |               |
| EWWD-DZ                                            |  | R-134a                      | 1                    |                                                                                   |                                                                                   |                                                                                   | •                                                                                 |                      |                            | •              |                    | •    |         | •             |
| EWVH-DZ                                            |  | R-1234ze(E)                 | 1                    |                                                                                   |                                                                                   |                                                                                   | •                                                                                 |                      |                            | •              |                    | •    |         | •             |
| DWDC B                                             |  | R-134a and R513A            | 1                    | optional                                                                          |                                                                                   |                                                                                   | •                                                                                 |                      |                            | Flooded        |                    | •    |         | •             |
| DWSC C / DWDC C                                    |  | R-134a, R-513A and R-1234ze | 1                    | optional                                                                          |                                                                                   |                                                                                   | •                                                                                 |                      |                            | Flooded        |                    | •    |         | •             |
| 6,000 RT CENTRIFUGAL                               |  | R-134a                      | 2 per chiller        |                                                                                   |                                                                                   |                                                                                   | •                                                                                 |                      | Flooded                    |                |                    | •    |         | •             |

\* (GWP): R-410A (2,087.5), R-134a (1,430), R-407C (1,773.9) - \*\* BPHE: Brazen plate heat exchanger

Cooling capacity (kW)  
Heating capacity (kW)





# Air cooled mini inverter chiller

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWAA-DV3P

| Cooling Only         |                         | EWAA-DV3P |           |        | 004                                  | 006               | 008               |
|----------------------|-------------------------|-----------|-----------|--------|--------------------------------------|-------------------|-------------------|
| Space cooling        | A Condition<br>35°C     | Pdc       | kW        |        | 4.52                                 | 5.09              | 5.44              |
|                      | ηs,c                    |           | %         |        | 213                                  |                   | 215               |
| SEER                 |                         |           |           |        |                                      | -                 |                   |
| Cooling capacity     | Nom.                    |           | kW        |        | 4.86 (1)/4.52 (2)                    | 5.83 (1)/5.09 (2) | 6.18 (1)/5.44 (2) |
| Power input          | Cooling                 | Nom.      | kW        |        | 0.820 (1)/1.36 (2)                   | 1.08 (1)/1.55 (2) | 1.19 (1)/1.73 (2) |
|                      | Heating                 | Nom.      | kW        |        | 0.840 (1)/1.26 (2)                   | 1.24 (1)/1.69 (2) | 1.63 (1)/2.23 (2) |
| Capacity control     | Method                  |           |           |        | Variable (inverter)                  |                   |                   |
| EER                  |                         |           |           |        | 5.91 (1)/3.32 (2)                    | 5.40 (1)/3.28 (2) | 5.19 (1)/3.14 (2) |
| Dimensions           | Unit                    | Height    | mm        |        | 770                                  |                   |                   |
|                      |                         | Width     | mm        |        | 1,250                                |                   |                   |
|                      |                         | Depth     | mm        |        | 362                                  |                   |                   |
| Weight               | Unit                    |           | kg        |        | 88                                   |                   |                   |
| Water heat exchanger | Type                    |           |           |        | Plate heat exchanger                 |                   |                   |
|                      | Water volume            |           | l         |        | 1                                    |                   |                   |
| Air heat exchanger   | Type                    |           |           |        | -                                    |                   |                   |
| Compressor           | Type                    |           |           |        | Hermetically sealed swing compressor |                   |                   |
|                      | Quantity                |           |           |        | 1                                    |                   |                   |
| Fan                  | Type                    |           |           |        | Propeller fan                        |                   |                   |
|                      | Quantity                |           |           |        | 1                                    |                   |                   |
|                      | Air flow rate           | Cooling   | Nom.      | m³/min |                                      |                   |                   |
| Sound power level    | Cooling                 | Nom.      |           | dBA    | 61                                   | 62                |                   |
| Sound pressure level | Cooling                 | Nom.      |           | dBA    | 48                                   | 49                | 50                |
| Operation range      | Air side                | Cooling   | Min.~Max. | °CDB   | 10 (3)~43                            |                   |                   |
| Refrigerant          | Type/GWP                |           |           |        | R-32/675                             |                   |                   |
|                      | Charge                  |           |           | kg     | 1.35                                 |                   |                   |
|                      | Control                 |           |           |        | -                                    |                   |                   |
|                      | Circuits                | Quantity  |           |        | -                                    |                   |                   |
| Refrigerant charge   | Per circuit             |           |           | kg     | -                                    |                   |                   |
| Unit                 | Running current         | Max       |           | A      | -                                    |                   |                   |
|                      |                         |           |           |        | -                                    |                   |                   |
| Power supply         | Phase/Frequency/Voltage |           |           | Hz/V   | 1~/50 /230 +/-10%                    |                   |                   |

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3)For more details, see operation range drawing | (4)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (5)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | According to EN14825 | Depends on operation mode, refer to installation manual.



# Air cooled mini inverter chiller

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWAA-DW1P

| Cooling Only         |                         |          | EWAA                     | 011                                                       | 014             | 016             |
|----------------------|-------------------------|----------|--------------------------|-----------------------------------------------------------|-----------------|-----------------|
| Space cooling        | A Condition<br>35°C     | Pdc      | kW                       | 11.6                                                      | 12.8            | 14.0            |
|                      | ηs,c                    |          | %                        | 229                                                       | 226             | 221             |
| SEER                 |                         |          |                          | 5.79(3)                                                   | 5.71(3)         | 5.59(3)         |
| Cooling capacity     | Nom.                    |          | kW                       | 11.6(1)/11.5(2)                                           | 12.8(1)/12.7(2) | 14.0(1)/15.3(2) |
| Power input          | Cooling                 | Nom.     | kW                       | 3.56(1)/2.17(2)                                           | 4.06(1)/2.51(2) | 4.58(1)/3.24(2) |
| Capacity control     | Method                  |          |                          | Variable (inverter)                                       |                 |                 |
| EER                  |                         |          |                          | 3.26(1)/5.31(2)                                           | 3.16(1)/5.04(2) | 3.06(1)/4.74(2) |
| Dimensions           | Unit                    | Height   | mm                       | 870                                                       |                 |                 |
|                      |                         | Width    | mm                       | 1,380                                                     |                 |                 |
|                      |                         | Depth    | mm                       | 460                                                       |                 |                 |
| Weight               | Unit                    |          | kg                       | 147                                                       |                 |                 |
| Water heat exchanger | Type                    |          |                          | Plate heat exchanger                                      |                 |                 |
|                      | Water volume            |          | l                        | 2                                                         |                 |                 |
| Air heat exchanger   | Type                    |          |                          | High efficiency fin and tube type with integral subcooler |                 |                 |
| Compressor           | Type                    |          |                          | Hermetically sealed swing inverter compressor             |                 |                 |
|                      | Quantity                |          |                          | 1                                                         |                 |                 |
| Fan                  | Type                    |          |                          | Propeller fan                                             |                 |                 |
|                      | Quantity                |          |                          | 1                                                         |                 |                 |
|                      | Air flow rate           | Cooling  | Nom. m <sup>3</sup> /min | 70                                                        | 85              |                 |
| Sound power level    | Cooling                 | Nom.     | dBA                      | 67.0                                                      | 69.0            |                 |
| Sound pressure level | Cooling                 | Nom.     | dBA                      | 47.7                                                      | 50.8            | 51.0            |
| Operation range      | Air side                | Cooling  | Min.~Max. °CDB           | 10~43                                                     |                 |                 |
|                      | Water side              | Cooling  | Min.~Max. °CDB           | 5~22                                                      |                 |                 |
| Refrigerant          | Type/GWP                |          |                          | R-32/675.0                                                |                 |                 |
|                      | Control                 |          |                          | Electronic expansion valve                                |                 |                 |
|                      | Circuits                | Quantity |                          | 1                                                         |                 |                 |
| Refrigerant charge   | Per circuit             |          | kg                       | 3.80                                                      |                 |                 |
|                      |                         |          | TCO2Eq                   | 2.6                                                       |                 |                 |
| Unit                 | Running current         | Max      | A                        | 14.0                                                      |                 |                 |
| Power supply         | Phase/Frequency/Voltage |          | Hz/V                     | 3~/50/400                                                 |                 |                 |

(1) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3) According to EN14825 | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing



# Air cooled mini inverter chiller

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWAA-DV3P-H

| Cooling Only         |                         | EWAA-DV3P-H |           |        | 004                                  | 006               | 008               |
|----------------------|-------------------------|-------------|-----------|--------|--------------------------------------|-------------------|-------------------|
| Space cooling        | A Condition<br>35°C     | Pdc         | kW        |        | 4.52                                 | 5.09              | 5.44              |
|                      | ηs,c                    |             | %         |        | 213                                  |                   | 215               |
| SEER                 |                         |             |           |        |                                      | -                 |                   |
| Cooling capacity     | Nom.                    |             | kW        |        | 4.86 (1)/4.52 (2)                    | 5.83 (1)/5.09 (2) | 6.18 (1)/5.44 (2) |
| Power input          | Cooling                 | Nom.        | kW        |        | 0.820 (1)/1.36 (2)                   | 1.08 (1)/1.55 (2) | 1.19 (1)/1.73 (2) |
|                      | Heating                 | Nom.        | kW        |        | 0.840 (1)/1.26 (2)                   | 1.24 (1)/1.69 (2) | 1.63 (1)/2.23 (2) |
| Capacity control     | Method                  |             |           |        | Variable (inverter)                  |                   |                   |
| EER                  |                         |             |           |        | 5.91 (1)/3.32 (2)                    | 5.40 (1)/3.28 (2) | 5.19 (1)/3.14 (2) |
| Dimensions           | Unit                    | Height      | mm        |        | 770                                  |                   |                   |
|                      |                         | Width       | mm        |        | 1,250                                |                   |                   |
|                      |                         | Depth       | mm        |        | 362                                  |                   |                   |
| Weight               | Unit                    |             | kg        |        | 88                                   |                   |                   |
| Water heat exchanger | Type                    |             |           |        | Plate heat exchanger                 |                   |                   |
|                      | Water volume            |             | l         |        | 1                                    |                   |                   |
| Air heat exchanger   | Type                    |             |           |        | -                                    |                   |                   |
| Compressor           | Type                    |             |           |        | Hermetically sealed swing compressor |                   |                   |
|                      | Quantity                |             |           |        | 1                                    |                   |                   |
| Fan                  | Type                    |             |           |        | Propeller fan                        |                   |                   |
|                      | Quantity                |             |           |        | 1                                    |                   |                   |
|                      | Air flow rate           | Cooling     | Nom.      | m³/min | -                                    |                   |                   |
| Sound power level    | Cooling                 | Nom.        |           | dBA    | 61                                   | 62                |                   |
| Sound pressure level | Cooling                 | Nom.        |           | dBA    | 48                                   | 49                | 50                |
| Operation range      | Air side                | Cooling     | Min.~Max. | °CDB   | 10 (3)~43                            |                   |                   |
| Refrigerant          | Type/GWP                |             |           |        | R-32/675                             |                   |                   |
|                      | Charge                  |             | kg        |        | 1.35                                 |                   |                   |
|                      | Control                 |             |           |        | -                                    |                   |                   |
|                      | Circuits                | Quantity    |           |        | -                                    |                   |                   |
| Refrigerant charge   | Per circuit             |             | kg        |        | -                                    |                   |                   |
| Unit                 | Running current         | Max         | A         |        | -                                    |                   |                   |
|                      |                         |             |           |        | -                                    |                   |                   |
| Power supply         | Phase/Frequency/Voltage |             | Hz/V      |        | 1~/50 /230 +/-10%                    |                   |                   |

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3)For more details, see operation range drawing | (4)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (5)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | According to EN14825 | Depends on operation mode, refer to installation manual.

# Air cooled mini inverter chiller

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



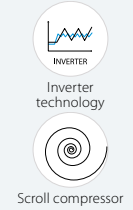
EWAA-DWIP-H

| Cooling Only         |                         |          | EWAA      |                     | 011                                                       | 014               | 016               |
|----------------------|-------------------------|----------|-----------|---------------------|-----------------------------------------------------------|-------------------|-------------------|
| Space cooling        | A Condition<br>35°C     | Pdc      | kW        |                     | 11.6                                                      | 12.8              | 14.0              |
|                      | ηs,c                    |          | %         |                     | 229                                                       | 226               | 221               |
| SEER                 |                         |          |           |                     | 5.79(3)                                                   | 5.71(3)           | 5.59(3)           |
| Cooling capacity     | Nom.                    |          | kW        |                     | 11.6(1)/11.5(2)                                           | 12.8(1)/12.7(2)   | 14.0(1)/15.3(2)   |
| Power input          | Cooling                 | Nom.     | kW        |                     | 3.56(1)/2.17(2)                                           | 4.06(1)/2.51(2)   | 4.58(1)/3.24(2)   |
| Capacity control     | Method                  |          |           |                     | Variable (inverter)                                       |                   |                   |
| EER                  |                         |          |           |                     | 3.26 (1)/5.31 (2)                                         | 3.16 (1)/5.04 (2) | 3.06 (1)/4.74 (2) |
| Dimensions           | Unit                    | Height   | mm        |                     | 870                                                       |                   |                   |
|                      |                         | Width    | mm        |                     | 1,380                                                     |                   |                   |
|                      |                         | Depth    | mm        |                     | 460                                                       |                   |                   |
| Weight               | Unit                    |          | kg        |                     | 147                                                       |                   |                   |
| Water heat exchanger | Type                    |          |           |                     | Plate heat exchanger                                      |                   |                   |
|                      | Water volume            |          | l         |                     | 2                                                         |                   |                   |
| Air heat exchanger   | Type                    |          |           |                     | High efficiency fin and tube type with integral subcooler |                   |                   |
| Compressor           | Type                    |          |           |                     | Hermetically sealed swing inverter compressor             |                   |                   |
|                      | Quantity                |          |           |                     | 1                                                         |                   |                   |
| Fan                  | Type                    |          |           |                     | Propeller fan                                             |                   |                   |
|                      | Quantity                |          |           |                     | 1                                                         |                   |                   |
|                      | Air flow rate           | Cooling  | Nom.      | m <sup>3</sup> /min | 70                                                        | 85                |                   |
| Sound power level    | Cooling                 | Nom.     |           | dBA                 | 67.0                                                      | 69.0              |                   |
| Sound pressure level | Cooling                 | Nom.     |           | dBA                 | 47.7                                                      | 50.8              | 51.0              |
| Operation range      | Air side                | Cooling  | Min.~Max. | °CDB                | 10~43                                                     |                   |                   |
|                      | Water side              | Cooling  | Min.~Max. | °CDB                | 5~22                                                      |                   |                   |
| Refrigerant          | Type/GWP                |          |           |                     | R-32/675.0                                                |                   |                   |
|                      | Control                 |          |           |                     | Electronic expansion valve                                |                   |                   |
|                      | Circuits                | Quantity |           |                     | 1                                                         |                   |                   |
| Refrigerant charge   | Per circuit             |          | kg        |                     | 3.80                                                      |                   |                   |
|                      |                         |          | TCO2Eq    |                     | 2.6                                                       |                   |                   |
| Unit                 | Running current         | Max      | A         |                     | 14.0                                                      |                   |                   |
| Power supply         | Phase/Frequency/Voltage |          | Hz/V      |                     | 3~/50/400                                                 |                   |                   |

(1) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3) According to EN14825 | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

# Air cooled scroll inverter chiller

- High part load efficiency for low running cost
- Minimal starting currents
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request



EWAT-CZN

| Cooling Only         |                     |          |      | EWAT-CZN                                            | 016  | 021  | 025   | 032   | 040   | 040  | 050   | 064   | 090 |
|----------------------|---------------------|----------|------|-----------------------------------------------------|------|------|-------|-------|-------|------|-------|-------|-----|
| Space cooling        | A Condition         | Pdc      | kW   | 15.9                                                | 20.9 | 25.6 | 32.4  | 39.6  | 41.4  | 50.8 | 64.0  | 88.3  |     |
|                      | 35°C                |          |      |                                                     |      |      |       |       |       |      |       |       |     |
|                      | ηs,c                |          | %    | 197                                                 |      | 200  | 205   | 201   | 213   | 210  | 205   | 198   |     |
| SEER                 |                     |          |      | 5.00                                                |      | 5.06 | 5.21  | 5.09  | 5.41  | 5.33 | 5.21  | 5.03  |     |
| Cooling capacity     | Nom.                |          | kW   | 15.9                                                | 20.9 | 25.6 | 32.4  | 39.6  | 41.4  | 50.8 | 64.0  | 88.3  |     |
| Power input          | Cooling             | Nom.     | kW   | 5.50                                                | 6.60 | 8.50 | 10.3  | 13.4  | 13.2  | 17.0 | 21.8  | 31.0  |     |
| Capacity control     | Method              |          |      | Inverter controlled                                 |      |      |       |       |       |      |       |       |     |
|                      | Minimum capacity    |          | %    | 18                                                  | 14   | 12   | 19    | 15    | 14    | 12   | 15    | 14    |     |
| EER                  |                     |          |      | 2.90                                                | 3.16 | 3.00 | 3.13  | 2.95  | 3.12  | 2.98 | 2.93  | 2.84  |     |
| IPLV                 |                     |          |      | 5.83                                                | 6.29 | 6.05 | 6.25  | 5.87  | 6.37  | 5.92 | 5.88  | 5.61  |     |
| Dimensions           | Unit                | Height   | mm   | 1,878                                               |      |      |       |       |       |      |       |       |     |
|                      |                     | Width    | mm   | 1,152                                               |      |      | 1,752 |       | 2,306 |      | 2,906 | 3,506 |     |
|                      |                     | Depth    | mm   | 802                                                 |      |      |       |       | 814   |      |       |       |     |
| Weight               | Unit                |          | kg   | 222                                                 | 245  |      | 340   | 339   | 480   |      | 574   | 672   |     |
|                      | Operation weight    |          | kg   | 223                                                 | 247  |      | 343   | 342   | 486   |      | 580   | 680   |     |
| Water heat exchanger | Type                |          |      | Braze plate heat exchanger                          |      |      |       |       |       |      |       |       |     |
|                      | Water volume        |          | l    | 1                                                   | 2    |      |       |       | 5     |      |       |       | 8   |
|                      | Water flow rate     | Cooling  | Nom. | l/s                                                 | 0.8  | 1.0  | 1.2   | 1.6   | 1.9   | 2.0  | 2.4   | 3.1   | 4.2 |
|                      | Water pressure drop | Cooling  | Nom. | kPa                                                 | 20   | 11   | 16    | 19    | 28    | 10   | 14    | 22    | 20  |
| Air heat exchanger   | Type                |          |      | High efficiency fin and tube type – Copper Aluminum |      |      |       |       |       |      |       |       |     |
| Compressor           | Type                |          |      | Scroll compressor                                   |      |      |       |       |       |      |       |       |     |
|                      | Quantity            |          |      | 1                                                   |      |      |       | 2     |       |      |       |       |     |
| Fan                  | Type                |          |      | Axial                                               |      |      |       |       |       |      |       |       |     |
|                      | Quantity            |          |      | 1                                                   |      |      | 2     |       |       |      | 3     | 4     |     |
|                      | Speed               |          | rpm  | 800                                                 |      | 900  | 700   | 900   | 700   | 900  | 800   | 900   |     |
| Sound power level    | Cooling             | Nom.     | dBA  | 76.0                                                |      | 78.0 | 79.0  | 80.0  |       | 81.0 | 83.0  | 85.0  |     |
| Sound pressure level | Cooling             | Nom.     | dBA  | 59.7                                                |      | 61.7 | 62.2  | 63.2  | 62.8  | 63.8 | 65.4  | 67.0  |     |
| Refrigerant          | Type/GWP            |          |      | R-32/675                                            |      |      |       |       |       |      |       |       |     |
|                      | Charge              |          | kg   | 3.00                                                | 5.50 |      | 7.00  | 8.00  | 12.0  |      | 13.0  | 16.0  |     |
|                      | Circuits            | Quantity |      | 1                                                   |      |      |       | 2     |       |      |       |       |     |
| Piping connections   |                     |          |      | Evaporator water inlet/outlet (OD)                  |      |      |       | 1"1/4 |       |      | 2"    |       |     |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing



# Air cooled scroll inverter chiller

- High part load efficiency for low running cost
- Minimal starting currents
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module with low lift pump included



EWAT-CZP

| Cooling Only         |                     |         |      | EWAT-CZP                                            | 016  | 021  | 025   | 032   | 040   | 040  | 050   | 064   | 090 |
|----------------------|---------------------|---------|------|-----------------------------------------------------|------|------|-------|-------|-------|------|-------|-------|-----|
| Space cooling        | A Condition         | Pdc     | kW   | 16.0                                                | 21.0 | 25.7 | 32.6  | 39.8  | 41.6  | 51.0 | 64.3  | 88.6  |     |
|                      | 35°C                |         |      |                                                     |      |      |       |       |       |      |       |       |     |
|                      | ηs,c                |         | %    | 209                                                 | 213  |      | 225   | 211   | 228   | 216  | 211   | 204   |     |
| SEER                 |                     |         |      | 5.30                                                | 5.41 |      | 5.70  | 5.36  | 5.76  | 5.48 | 5.34  | 5.18  |     |
| Cooling capacity     | Nom.                |         | kW   | 16.1                                                | 21.1 | 25.9 | 32.7  | 39.9  | 41.7  | 51.1 | 64.4  | 88.8  |     |
| Power input          | Cooling             | Nom.    | kW   | 5.45                                                | 6.56 | 8.48 | 10.3  | 13.3  | 13.2  | 16.9 | 21.9  | 31.1  |     |
| Capacity control     | Method              |         |      | Inverter controlled                                 |      |      |       |       |       |      |       |       |     |
|                      | Minimum capacity    |         |      | %                                                   | 18   | 14   | 12    | 19    | 15    | 14   | 12    | 15    | 14  |
| EER                  |                     |         |      | 2.96                                                | 3.22 | 3.05 | 3.18  | 3.00  | 3.17  | 3.03 | 2.95  | 2.85  |     |
| IPLV                 |                     |         |      | 5.83                                                | 6.29 | 6.05 | 6.25  | 5.87  | 6.37  | 5.92 | 5.88  | 5.61  |     |
| Dimensions           | Unit                | Height  | mm   | 1,878                                               |      |      |       |       |       |      |       |       |     |
|                      |                     | Width   | mm   | 1,152                                               |      |      | 1,752 |       | 2,306 |      | 2,906 | 3,506 |     |
|                      |                     | Depth   | mm   | 802                                                 |      |      |       |       | 814   |      |       |       |     |
| Weight               | Unit                |         | kg   | 256                                                 | 278  |      | 383   | 382   | 531   |      | 630   | 727   |     |
|                      | Operation weight    |         | kg   | 257                                                 | 280  |      | 386   | 385   | 537   |      | 636   | 735   |     |
| Water heat exchanger | Type                |         |      | Braze plate heat exchanger                          |      |      |       |       |       |      |       |       |     |
|                      | Water volume        |         |      | l                                                   | 1    | 2    |       |       |       | 5    |       |       | 8   |
|                      | Water flow rate     | Cooling | Nom. | l/s                                                 | 0.8  | 1.0  | 1.2   | 1.6   | 1.9   | 2.0  | 2.4   | 3.1   | 4.2 |
|                      | Water pressure drop | Cooling | Nom. | kPa                                                 | 20   | 11   | 16    | 19    | 28    | 10   | 14    | 22    | 20  |
| Air heat exchanger   | Type                |         |      | High efficiency fin and tube type – Copper Aluminum |      |      |       |       |       |      |       |       |     |
| Compressor           | Type                |         |      | Scroll compressor                                   |      |      |       |       |       |      |       |       |     |
|                      | Quantity            |         |      | 1                                                   |      |      |       |       | 2     |      |       |       |     |
| Fan                  | Type                |         |      | Axial                                               |      |      |       |       |       |      |       |       |     |
|                      | Quantity            |         |      | 1                                                   |      |      | 2     |       |       |      | 3     | 4     |     |
|                      | Speed               |         |      | rpm                                                 | 800  | 900  | 700   | 900   | 700   | 900  | 800   | 900   |     |
| Sound power level    | Cooling             | Nom.    | dBA  | 76.0                                                | 78.0 |      | 79.0  | 80.0  |       | 81.0 | -     |       |     |
| Sound pressure level | Cooling             | Nom.    | dBA  | 59.7                                                | 61.7 | 62.2 | 63.2  | 62.8  | 63.8  | -    |       |       |     |
| Refrigerant          | Type/GWP            |         |      | R-32/675                                            |      |      |       |       |       |      |       |       |     |
|                      | Charge              |         |      | kg                                                  | 3.00 | 5.50 | 7.00  | 8.00  | 12.0  |      | 13.0  | 16.0  |     |
|                      | Circuits            |         |      |                                                     | 1    |      |       |       | 2     |      |       |       |     |
| Piping connections   |                     |         |      | Evaporator water inlet/outlet (OD)                  |      |      |       | 1"1/4 |       | 2"   |       |       |     |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

# Air cooled scroll inverter chiller

- High part load efficiency for low running cost
- Minimal starting currents
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request



EWAT-CZH

| Cooling Only         |                                    |                                                     |      | EWAT-CZH | 016  | 021  | 025   | 032  | 040   | 040  | 050   | 064   | 090  |
|----------------------|------------------------------------|-----------------------------------------------------|------|----------|------|------|-------|------|-------|------|-------|-------|------|
| Space cooling        | A Condition                        | Pdc                                                 | kW   | 16.1     | 21.1 | 25.8 | 32.7  | 39.9 | 41.7  | 51.1 | 64.3  | 88.7  |      |
|                      | ηs,c                               |                                                     | %    | 205      | 210  | 211  | 224   | 210  | 227   | 213  | 208   | 202   |      |
| Cooling capacity     | Nom.                               |                                                     | kW   | 16.2     | 21.2 | 25.9 | 32.8  | 40.1 | 41.8  | 51.3 | 64.5  | 88.9  |      |
| Power input          | Cooling                            | Nom.                                                | kW   | 5.60     | 6.70 | 8.70 | 10.4  | 13.5 | 13.3  | 17.0 | 22.0  | 31.2  |      |
| Capacity control     | Method                             | Inverter controlled                                 |      |          |      |      |       |      |       |      |       |       |      |
|                      | Minimum capacity                   |                                                     | %    | 18       | 14   | 12   | 19    | 15   | 14    | 12   | 15    | 14    |      |
| EER                  |                                    |                                                     |      | 2.89     | 3.15 | 2.98 | 3.14  | 2.97 | 3.15  | 3.02 | 2.93  | 2.85  |      |
| IPLV                 |                                    |                                                     |      | 5.83     | 6.29 | 6.05 | 6.25  | 5.87 | 6.37  | 5.92 | 5.88  | 5.61  |      |
| Dimensions           | Unit                               | Height                                              | mm   | 1,878    |      |      |       |      |       |      |       |       |      |
|                      |                                    | Width                                               | mm   | 1,152    |      |      | 1,752 |      | 2,306 |      | 2,906 | 3,506 |      |
|                      |                                    | Depth                                               | mm   | 802      |      |      | 814   |      |       |      |       |       |      |
| Weight               | Unit                               |                                                     | kg   | 256      | 278  |      | 383   | 382  | 531   |      | 630   | 727   |      |
|                      | Operation weight                   |                                                     | kg   | 257      | 280  |      | 386   | 385  | 537   |      | 636   | 735   |      |
| Water heat exchanger | Type                               | Braze plate heat exchanger                          |      |          |      |      |       |      |       |      |       |       |      |
|                      | Water volume                       |                                                     | l    | 1        | 2    |      |       |      |       | 5    |       |       | 8    |
|                      | Water flow rate                    | Cooling                                             | Nom. | l/s      | 0.8  | 1.0  | 1.2   | 1.6  | 1.9   | 2.0  | 2.4   | 3.1   | 4.20 |
|                      | Water pressure drop                | Cooling                                             | Nom. | kPa      | 20   | 11   | 16    | 19   | 28    | 10   | 14    | 22    | 20   |
| Air heat exchanger   | Type                               | High efficiency fin and tube type – Copper Aluminum |      |          |      |      |       |      |       |      |       |       |      |
| Compressor           | Type                               | Scroll compressor                                   |      |          |      |      |       |      |       |      |       |       |      |
|                      | Quantity                           | 1                                                   |      |          |      |      |       | 2    |       |      |       |       |      |
| Fan                  | Type                               | Axial                                               |      |          |      |      |       |      |       |      |       |       |      |
|                      | Quantity                           | 1                                                   |      |          | 2    |      |       | 3    |       |      | 4     |       |      |
|                      | Speed                              |                                                     | rpm  | 800      | 900  | 700  | 900   | 700  | 900   | 800  | 900   |       |      |
| Sound power level    | Cooling                            | Nom.                                                | dBA  | 76.0     | 78.0 | 79.0 | 80.0  | 81.0 | 83.0  | 85.0 |       |       |      |
| Sound pressure level | Cooling                            | Nom.                                                | dBA  | 59.7     | 61.7 | 62.2 | 63.2  | 62.8 | 63.8  | 65.4 | 67.0  |       |      |
| Refrigerant          | Type/GWP                           | R-32/675                                            |      |          |      |      |       |      |       |      |       |       |      |
|                      | Charge                             |                                                     | kg   | 3.00     | 5.50 | 7.00 | 8.00  | 12.0 | 13.0  | 16.0 |       |       |      |
|                      | Circuits                           | Quantity                                            |      | 1        |      |      |       |      | 2     |      |       |       |      |
| Piping connections   | Evaporator water inlet/outlet (OD) |                                                     |      | 1"1/4    |      |      |       |      | 2"    |      |       |       |      |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

# Inverter screw cooling only with BLU efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAS-TZBSD           |                                    |                  |           |      | 275    | 320       | 345   | 400     | 470     | 525     |
|----------------------|------------------------------------|------------------|-----------|------|--------|-----------|-------|---------|---------|---------|
| SEER                 |                                    |                  |           |      | 4.3    | 4.4       |       | 4.6     |         |         |
| Cooling capacity     | Nom.                               | kW               |           |      | 258.8  | 310.6     | 338.2 | 405.8   | 451.2   | 505.5   |
| Power input          | Cooling                            | kW               |           |      | 97.8   | 106.4     | 122.7 | 145.2   | 170.8   | 178.3   |
| Capacity control     | Method                             | Stepless         |           |      |        |           |       |         |         |         |
|                      | Minimum capacity                   | %                |           |      | 22     | 19        | 17    | 22      | 23      | 22      |
| EER                  |                                    |                  |           |      | 2.646  | 2.919     | 2.756 | 2.795   | 2.642   | 2.835   |
| IPLV                 |                                    |                  |           |      | 4.3    | 4.5       | 4.4   | 4.7     | 4.6     |         |
| Dimensions           | Unit                               | Height           | mm        |      |        | 2,553     |       |         |         |         |
|                      |                                    | Width            | mm        |      |        | 2,238     |       |         |         |         |
|                      |                                    | Depth            | mm        |      |        | 2,560     | 3,640 |         |         | 4,720   |
| Weight               | Unit                               | kg               |           |      | 2,602  | 3,084     |       | 3,486   |         | 4,032   |
|                      | Operation weight                   | kg               |           |      | 2,677  | 3,169     |       | 3,583.7 | 3,593.7 | 4,160.1 |
| Air heat exchanger   | Type                               | Microchannel     |           |      |        |           |       |         |         |         |
| Compressor           | Type                               | Screw compressor |           |      |        |           |       |         |         |         |
| Fan                  | Quantity                           | 1                |           |      |        |           |       |         |         |         |
|                      | Type                               | Direct propeller |           |      |        |           |       |         |         |         |
|                      | Quantity                           |                  |           |      | 4      | 6         |       |         |         | 8       |
| Air flow rate        | Cooling                            | Nom.             | l/s       |      | 25,490 | 38,235    |       |         |         | 50,990  |
|                      | Sound power level                  | Cooling          | Nom.      | dBA  | 97.4   | 97.9      | 100   | 97.3    | 96.7    | 97.7    |
| Sound pressure level | Cooling                            | Nom.             | dBA       |      | 78.3   | 78.2      | 80.3  | 77.6    | 77      | 77.4    |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB | 5 ~42  |           |       |         |         |         |
| Refrigerant          | Type/GWP                           | R-513A/630       |           |      |        |           |       |         |         |         |
|                      | Charge                             | kg               |           |      | 35     | 45        |       | 55      | 65      | 70      |
|                      | Circuits                           | Quantity         |           | 1    |        |           |       |         |         |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |           |      | 88.9mm |           |       | 139.7mm |         |         |
| Unit                 | Starting current                   | Max              |           |      | A      | 0         |       |         |         |         |
|                      | Running                            | Cooling          | Nom.      | A    | 190.1  | 207.1     | 228.7 | 262     | 300.2   | 315.2   |
|                      | current                            | Max              | A         |      |        | 220       | 262   | 284     | 346     | 362     |
| Power supply         | Phase/Frequency/Voltage            |                  |           |      | Hz/V   | 3~/50/400 |       |         |         |         |

| EWAS-TZBSD           |                                    |                  |           |      | 580     | 625       | 755   | 830     | 915   |         |
|----------------------|------------------------------------|------------------|-----------|------|---------|-----------|-------|---------|-------|---------|
| SEER                 |                                    |                  |           |      | 4.7     | 4.6       |       | 4.7     |       |         |
| Cooling capacity     | Nom.                               | kW               |           |      | 554.9   | 597.4     | 734   | 800.1   | 884.2 |         |
| Power input          | Cooling                            | kW               |           |      | 210.4   | 244.8     | 246.3 | 284.8   | 319.3 |         |
| Capacity control     | Method                             | Stepless         |           |      |         |           |       |         |       |         |
|                      | Minimum capacity                   | %                |           |      | 19      | 17        | 13    | 11      | 13    |         |
| EER                  |                                    |                  |           |      | 2.637   | 2.44      | 2.98  | 2.809   | 2.769 |         |
| IPLV                 |                                    |                  |           |      | 4.5     |           | 4.8   | 4.7     |       |         |
| Dimensions           | Unit                               | Height           | mm        |      |         | 2,553     |       |         |       |         |
|                      |                                    | Width            | mm        |      |         | 2,238     |       |         |       |         |
|                      |                                    | Depth            | mm        |      |         | 4,720     | 6,880 |         |       |         |
| Weight               | Unit                               | kg               |           |      | 4,032   | 5,670     |       | 6,142   |       |         |
|                      | Operation weight                   | kg               |           |      | 4,170.1 | 4,175.1   | 6,055 | 6,065   | 6,748 |         |
| Air heat exchanger   | Type                               | Microchannel     |           |      |         |           |       |         |       |         |
| Compressor           | Type                               | Screw compressor |           |      |         |           |       |         |       |         |
| Fan                  | Quantity                           | 1                |           |      |         |           |       |         |       |         |
|                      | Type                               | Direct propeller |           |      |         |           |       |         |       |         |
|                      | Quantity                           |                  |           |      | 8       | 12        |       |         |       |         |
| Air flow rate        | Cooling                            | Nom.             | l/s       |      | 50,990  | 76,470    |       |         |       |         |
|                      | Sound power level                  | Cooling          | Nom.      | dBA  | 98.1    | 100.5     | 99    | 100     | 99    |         |
| Sound pressure level | Cooling                            | Nom.             | dBA       |      | 77.8    | 80.3      | 77.8  | 78.8    | 77.8  |         |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB | 5 ~42   |           |       |         |       |         |
| Refrigerant          | Type/GWP                           | R-513A/630       |           |      |         |           |       |         |       |         |
|                      | Charge                             | kg               |           |      | 80      | 85        | 105   | 115     | 125   |         |
|                      | Circuits                           | Quantity         |           | 1    |         |           |       |         |       |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |           |      | 139.7mm |           |       | 168.3mm |       | 219.1mm |
| Unit                 | Starting current                   | Max              |           |      | A       | 0         |       |         |       |         |
|                      | Running                            | Cooling          | Nom.      | A    | 362.8   | 413.9     | 457.4 | 515.3   | 568.4 |         |
|                      | current                            | Max              | A         |      |         | 457       | 464   | 600     | 668   |         |
| Power supply         | Phase/Frequency/Voltage            |                  |           |      | Hz/V    | 3~/50/400 |       |         |       |         |





EWAS-TZBSD



MicroTech 4

| EWAS-TZBSD           |                                    |                  |           |      | C10       | H10    | H11     | C12     | C13     | C14     |
|----------------------|------------------------------------|------------------|-----------|------|-----------|--------|---------|---------|---------|---------|
| SEER                 |                                    |                  |           |      |           |        | 4.7     |         |         | 4.6     |
| Cooling capacity     | Nom.                               | kW               |           |      | 953.9     | 1,050  | 1,127   | 1,197   | 1,293   | 1,359.6 |
| Power input          | Cooling                            | kW               |           |      | 371.96    | 393.3  | 411.8   | 434.6   | 472.69  | 519.9   |
| Capacity control     | Method                             | Stepless         |           |      |           |        |         |         |         |         |
|                      | Minimum capacity                   | %                |           |      | 11        |        |         | 10      |         |         |
| EER                  |                                    |                  |           |      | 2.565     | 2.67   | 2.737   | 2.754   | 2.735   | 2.615   |
| IPLV                 |                                    |                  |           |      | 4.7       | 4.8    |         | 4.7     | 4.6     |         |
| Dimensions           | Unit                               | Height           | mm        |      |           | 2,553  |         |         |         |         |
|                      |                                    | Width            | mm        |      |           | 2,238  |         |         |         |         |
|                      |                                    | Depth            | mm        |      |           | 6,880  | 7,960   | 9,040   | 10,120  | 11,200  |
| Weight               | Unit                               | kg               |           |      | 6,142     | 6,816  | 7,297   | 7,779   | 8,260   | 8,581   |
|                      | Operation weight                   | kg               |           |      | 6,763     | 7,523  | 8,014   | 8,506   | 9,002   | 9,333   |
| Air heat exchanger   | Type                               | Microchannel     |           |      |           |        |         |         |         |         |
| Compressor           | Type                               | Screw compressor |           |      |           |        |         |         |         |         |
|                      | Quantity                           | 2                |           |      |           |        |         |         |         |         |
| Fan                  | Type                               | Direct propeller |           |      |           |        |         |         |         |         |
|                      | Quantity                           |                  |           |      | 12        | 14     | 16      | 18      | 20      |         |
| Air flow rate        | Cooling                            | Nom.             | l/s       |      | 76,470    | 89,233 | 101,980 | 114,705 | 127,450 |         |
| Sound power level    | Cooling                            | Nom.             | dBA       |      | 100       | 100.7  | 101     | 101.8   | 103.7   | 104.8   |
| Sound pressure level | Cooling                            | Nom.             | dBA       |      | 78.8      | 79.1   |         | 79.6    | 81.2    | 82.3    |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB | 5 ~42     |        |         |         |         |         |
| Refrigerant          | Type/GWP                           | R-513A/630       |           |      |           |        |         |         |         |         |
|                      | Charge                             | kg               |           |      | 140       | 150    | 160     | 170     | 185     | 195     |
|                      | Circuits                           | Quantity         |           |      | 2         |        |         |         |         |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |           |      | 219.1mm   |        |         |         |         |         |
| Unit                 | Starting current                   | Max              |           |      | 0         |        |         |         |         |         |
|                      | Running                            | Cooling          | Nom.      | A    | 647.2     | 681.9  | 711.6   | 748.1   | 807.1   | 876.6   |
|                      | current                            | Max              | A         |      |           | 751    | 817     | 884     | 930     | 948     |
| Power supply         | Phase/Frequency/Voltage            |                  |           | Hz/V | 3~/50/400 |        |         |         |         |         |

| EWAS-TZBSD           |                                    |                  |           |      | C15       | H16     | H17    | H18     | H19     |       |
|----------------------|------------------------------------|------------------|-----------|------|-----------|---------|--------|---------|---------|-------|
| SEER                 |                                    |                  |           |      | 4.6       | 4.9     | 4.8    | 4.7     | 4.8     |       |
| Cooling capacity     | Nom.                               | kW               |           |      | 1,483.5   | 1,606   | 1,688  | 1,799.6 | 1,868   |       |
| Power input          | Cooling                            | kW               |           |      | 558.77    | 581.2   | 647.2  | 699.02  | 775.2   |       |
| Capacity control     | Method                             | Stepless         |           |      |           |         |        |         |         |       |
|                      | Minimum capacity                   | %                |           |      | 10        | 13      | 12     | 11      | 10      |       |
| EER                  |                                    |                  |           |      | 2.655     | 2.763   | 2.608  | 2.574   | 2.41    |       |
| IPLV                 |                                    |                  |           |      | 4.6       | 5.2     |        | 5.1     |         |       |
| Dimensions           | Unit                               | Height           | mm        |      |           | 2,553   |        |         |         |       |
|                      |                                    | Width            | mm        |      |           | 2,238   |        |         |         |       |
|                      |                                    | Depth            | mm        |      |           | 12,280  |        |         | 13,360  |       |
| Weight               | Unit                               | kg               |           |      | 9,920     |         | 10,323 |         | 10,805  |       |
|                      | Operation weight                   | kg               |           |      | 11,146    | 11,564  | 11,579 | 12,076  | 12,086  |       |
| Air heat exchanger   | Type                               | Microchannel     |           |      |           |         |        |         |         |       |
| Compressor           | Type                               | Screw compressor |           |      |           |         |        |         |         |       |
|                      | Quantity                           | 2                |           |      |           |         |        |         |         |       |
| Fan                  | Type                               | Direct propeller |           |      |           |         |        |         |         |       |
|                      | Quantity                           |                  |           |      | 22        |         |        | 24      |         |       |
| Air flow rate        | Cooling                            | Nom.             | l/s       |      |           | 140,195 |        |         | 152,940 |       |
| Sound power level    | Cooling                            | Nom.             | dBA       |      | 106.2     | 104.1   | 104.9  | 105.8   | 106.6   |       |
| Sound pressure level | Cooling                            | Nom.             | dBA       |      | 83.4      | 81.2    | 82     | 82.7    | 83.5    |       |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB | 5 ~42     |         |        |         |         |       |
| Refrigerant          | Type/GWP                           | R-513A/630       |           |      |           |         |        |         |         |       |
|                      | Charge                             | kg               |           |      | 215       | 230     | 245    | 260     | 270     |       |
|                      | Circuits                           | Quantity         |           |      | 2         |         |        |         |         |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |           |      | 273mm     |         |        |         |         |       |
| Unit                 | Starting current                   | Max              |           |      | 0         |         |        |         |         |       |
|                      | Running                            | Cooling          | Nom.      | A    | 940.2     | 972.2   | 1,069  | 1,148   | 1,261   |       |
|                      | current                            | Max              | A         |      |           | 1,200   | 1,227  | 1,340   | 1,475   | 1,608 |
| Power supply         | Phase/Frequency/Voltage            |                  |           | Hz/V | 3~/50/400 |         |        |         |         |       |

# Inverter screw with SILVER efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range

- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAS-TZSSD           |                                    |         |           | 285              | 325       | 380    | 430     | 495     | 520     | 535     |         |       |
|----------------------|------------------------------------|---------|-----------|------------------|-----------|--------|---------|---------|---------|---------|---------|-------|
| SEER                 |                                    |         |           | 5.2              | 5.4       | 5.5    | 5.2     | 5.1     | 4.9     | 5.3     |         |       |
| Cooling capacity     | Nom.                               |         |           | kW               | 284.9     | 329.3  | 374.3   | 426.2   | 487.5   | 522     | 529.7   |       |
| Power input          | Cooling                            | Nom.    |           |                  | kW        | 89.25  | 103.6   | 120.5   | 138.8   | 161.5   | 172.1   | 170.5 |
| Capacity control     | Method                             |         |           | Stepless         |           |        |         |         |         |         |         |       |
| Minimum capacity     |                                    |         |           | %                | 22        | 19     | 17      | 22      | 23      | 11      | 22      |       |
| EER                  |                                    |         |           |                  | 3.192     | 3.179  | 3.106   | 3.071   | 3.019   | 3.033   | 3.107   |       |
| IPLV                 |                                    |         |           |                  | 5.5       | 5.6    | 5.7     | 5.8     | 5.6     | 5.2     | 5.7     |       |
| Dimensions           | Unit                               | Height  | mm        | 2,553            |           |        |         |         |         |         |         |       |
|                      |                                    | Width   | mm        | 2,238            |           |        |         |         |         |         |         |       |
|                      |                                    | Depth   | mm        | 3,640            | 4,720     |        |         |         | 5,800   |         |         |       |
| Weight               | Unit                               |         |           | kg               | 3,084     | 3,604  |         | 3,968   | 4,032   | 4,693   | 4,513   |       |
|                      | Operation weight                   |         |           | kg               | 3,164     | 3,697  | 3,702   | 4,070.7 | 4,155.1 | 5,033   | 4,646.1 |       |
| Air heat exchanger   | Type                               |         |           | Microchannel     |           |        |         |         |         |         |         |       |
| Compressor           | Type                               |         |           | Screw compressor |           |        |         |         |         |         |         |       |
| Quantity             |                                    |         |           | 1                |           |        |         |         |         | 2       | 1       |       |
| Fan                  | Type                               |         |           | Direct propeller |           |        |         |         |         |         |         |       |
|                      | Quantity                           |         |           | 6                | 8         |        |         |         | 10      |         |         |       |
|                      | Air flow rate                      | Cooling | Nom.      | l/s              | 38,240    | 50,990 |         |         |         | 63,733  |         |       |
| Sound power level    | Cooling                            | Nom.    |           |                  | dBA       | 97.8   | 98.3    | 100.2   | 97.7    | 97.1    | 99.3    | 98    |
| Sound pressure level | Cooling                            | Nom.    |           |                  | dBA       | 78     |         | 80      | 77.4    | 76.9    | 78.6    | 77.3  |
| Operation range      | Air side                           | Cooling | Min.~Max. |                  |           | °CDB   | -20 ~42 |         |         |         |         |       |
| Refrigerant          | Type/GWP                           |         |           | R-513A/630       |           |        |         |         |         |         |         |       |
| Charge               |                                    |         |           | kg               | 40        | 45     | 50      | 60      | 65      | 70      | 75      |       |
| Circuits             |                                    |         |           |                  | 1         |        |         |         |         | 2       | 1       |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |         |           | 88.9mm           |           |        |         | 139.7mm |         | 168.3mm | 139.7mm |       |
| Unit                 | Starting current                   |         |           | Max              | A         | 0      |         |         |         |         |         |       |
|                      | Running                            | Cooling | Nom.      | A                | 182.7     | 211.5  | 234.4   | 261.8   | 296.6   | 349.9   | 314.5   |       |
|                      | current                            | Max     |           | A                | 231       | 272    | 294     | 357     | 372     | 421     | 411     |       |
| Power supply         | Phase/Frequency/Voltage            |         |           | Hz/V             | 3~/50/400 |        |         |         |         |         |         |       |

| EWAS-TZSSD           |                                    |         |           | 555              | 585       | 595     | 645     | 650     | 705     | 760     |        |       |
|----------------------|------------------------------------|---------|-----------|------------------|-----------|---------|---------|---------|---------|---------|--------|-------|
| SEER                 |                                    |         |           | 5                | 4.9       | 5.2     | 5       | 5.2     | 4.9     | 5       |        |       |
| Cooling capacity     | Nom.                               |         |           | kW               | 553.9     | 583.2   | 585.6   | 645.1   | 635.1   | 702.3   | 758.2  |       |
| Power input          | Cooling                            | Nom.    |           |                  | kW        | 188.8   | 206.6   | 200.1   | 214.8   | 231     | 249.4  | 239.4 |
| Capacity control     | Method                             |         |           | Stepless         |           |         |         |         |         |         |        |       |
| Minimum capacity     |                                    |         |           | %                | 10        |         | 19      | 10      | 17      | 10      | 13     |       |
| EER                  |                                    |         |           |                  | 2.934     | 2.823   | 2.927   | 3.003   | 2.749   | 2.816   | 3.167  |       |
| IPLV                 |                                    |         |           |                  | 5.1       |         | 5.6     | 5.2     | 5.5     | 5.1     | 5.7    |       |
| Dimensions           | Unit                               | Height  | mm        | 2,553            |           |         |         |         |         |         |        |       |
|                      |                                    | Width   | mm        | 2,238            |           |         |         |         |         |         |        |       |
|                      |                                    | Depth   | mm        | 5,800            |           |         | 6,880   | 5,800   | 6,880   | 7,960   |        |       |
| Weight               | Unit                               |         |           | kg               | 4,693     |         | 4,513   | 5,177   | 4,513   | 5,177   | 6,151  |       |
|                      | Operation weight                   |         |           | kg               | 5,038     | 5,043   | 4,651.1 | 5,522   | 4,661.1 | 5,527   | 6,536  |       |
| Air heat exchanger   | Type                               |         |           | Microchannel     |           |         |         |         |         |         |        |       |
| Compressor           | Type                               |         |           | Screw compressor |           |         |         |         |         |         |        |       |
| Quantity             |                                    |         |           | 2                |           | 1       | 2       | 1       | 2       |         |        |       |
| Fan                  | Type                               |         |           | Direct propeller |           |         |         |         |         |         |        |       |
|                      | Quantity                           |         |           | 10               |           |         | 12      | 10      | 12      | 14      |        |       |
|                      | Air flow rate                      | Cooling | Nom.      | l/s              | 63,733    |         |         | 76,480  | 63,733  | 76,480  | 89,233 |       |
| Sound power level    | Cooling                            | Nom.    |           |                  | dBA       | 99.5    | 100.7   | 98.4    | 100.9   | 100.7   | 103    | 99.2  |
| Sound pressure level | Cooling                            | Nom.    |           |                  | dBA       | 78.7    | 79.9    | 77.7    | 79.8    | 80      | 81.9   | 77.7  |
| Operation range      | Air side                           | Cooling | Min.~Max. |                  |           | °CDB    | -20 ~42 |         |         |         |        |       |
| Refrigerant          | Type/GWP                           |         |           | R-513A/630       |           |         |         |         |         |         |        |       |
| Charge               |                                    |         |           | kg               | 75        | 80      |         | 90      |         | 95      | 105    |       |
| Circuits             |                                    |         |           |                  | 2         |         | 1       | 2       | 1       | 2       |        |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |         |           | 168.3mm          |           | 139.7mm |         | 168.3mm | 139.7mm | 168.3mm |        |       |
| Unit                 | Starting current                   |         |           | Max              | A         | 0       |         |         |         |         |        |       |
|                      | Running                            | Cooling | Nom.      | A                | 378.9     | 409.6   | 358.4   | 427.8   | 404.3   | 472.9   | 461.3  |       |
|                      | current                            | Max     |           | A                | 450       | 481     | 467     | 523     | 474     | 566     | 610    |       |
| Power supply         | Phase/Frequency/Voltage            |         |           | Hz/V             | 3~/50/400 |         |         |         |         |         |        |       |



EWAS-TZSSD



MicroTech 4

| EWAS-TZSSD           |                                    |          |           |      | 835              | 960       | C10   | H10   | H11     | H12     | H13     |
|----------------------|------------------------------------|----------|-----------|------|------------------|-----------|-------|-------|---------|---------|---------|
| SEER                 |                                    |          |           |      | 5.2              | 5.3       | 5.2   |       | 5.3     | 5.4     |         |
| Cooling capacity     | Nom.                               |          |           |      | kW               | 832.7     | 948.8 | 1,001 | 1,043   | 1,149   | 1,268   |
| Power input          | Cooling                            | Nom.     |           |      |                  | kW        | 274.7 | 321.4 | 354.4   | 375     | 408.9   |
| Capacity control     | Method                             |          |           |      | Stepless         |           |       |       |         |         |         |
| Minimum capacity     |                                    |          |           |      | %                | 11        | 12    | 11    |         | 10      |         |
| EER                  |                                    |          |           |      | 3.031            | 2.952     | 2.824 | 2.781 | 2.81    | 2.903   | 2.847   |
| IPLV                 |                                    |          |           |      | 5.6              | 5.5       | 5.4   | 5.5   | 5.4     | 5.5     |         |
| Dimensions           | Unit                               | Height   |           |      |                  | mm        | 2,553 |       |         |         |         |
|                      |                                    | Width    |           |      |                  | mm        | 2,238 |       |         |         |         |
|                      |                                    | Depth    |           |      |                  | mm        | 7,960 |       |         |         |         |
| Weight               | Unit                               |          |           |      | kg               | 6,151     | 6,623 | 6,816 | 7,297   | 8,260   | 8,742   |
|                      | Operation weight                   |          |           |      | kg               | 6,546     | 7,239 | 7,244 | 7,518   | 8,014   | 8,992   |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |           |       |       |         |         |         |
| Compressor           | Type                               |          |           |      | Screw compressor |           |       |       |         |         |         |
| Fan                  | Quantity                           |          |           |      | 2                |           |       |       |         |         |         |
|                      | Type                               |          |           |      | Direct propeller |           |       |       |         |         |         |
|                      | Quantity                           |          |           |      | 14               |           |       |       |         | 16      | 20      |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 89,233           |           |       |       | 101,908 | 127,467 | 140,213 |
| Sound power level    | Cooling                            | Nom.     |           |      | dB(A)            | 100.2     | 99.6  | 100.2 | 100.5   | 101     | 102.5   |
| Sound pressure level | Cooling                            | Nom.     |           |      | dB(A)            | 78.7      | 78    | 78.7  | 78.9    | 79.1    | 79.9    |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~42          |           |       |       |         |         |         |
| Refrigerant          | Type/GWP                           |          |           |      | R-513A/630       |           |       |       |         |         |         |
|                      | Charge                             |          |           |      | kg               | 115       | 135   | 140   | 145     | 160     | 175     |
|                      | Circuits                           | Quantity |           |      |                  | 2         |       |       |         |         |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 168.3mm          | 219.1mm   |       |       |         |         |         |
| Unit                 | Starting current                   | Max      |           |      |                  | A         | 0     |       |         |         |         |
|                      | Running                            | Cooling  | Nom.      | A    | 514.3            | 585.7     | 635   | 666.1 | 720.5   | 770.5   | 834.6   |
|                      | current                            | Max      |           |      |                  | A         | 679   | 706   | 761     | 789     | 884     |
| Power supply         | Phase/Frequency/Voltage            |          |           |      | Hz/V             | 3~/50/400 |       |       |         |         |         |

| EWAS-TZSSD           |                                    |          |           |      | H14              | H15       | H16    | H17    | H18     | H19    |        |
|----------------------|------------------------------------|----------|-----------|------|------------------|-----------|--------|--------|---------|--------|--------|
| SEER                 |                                    |          |           |      | 5.2              | 5.5       | 5.4    |        | 5.3     | 5.1    |        |
| Cooling capacity     | Nom.                               |          |           |      | kW               | 1,465     | 1,542  | 1,638  | 1,756   | 1,837  |        |
| Power input          | Cooling                            | Nom.     |           |      |                  | kW        | 526.1  | 516.5  | 577.2   | 627.5  |        |
| Capacity control     | Method                             |          |           |      | Stepless         |           |        |        |         |        |        |
| Minimum capacity     |                                    |          |           |      | %                | 10        | 14     | 13     | 12      | 11     | 10     |
| EER                  |                                    |          |           |      | 2.785            | 2.985     | 2.838  | 2.798  |         | 2.641  |        |
| IPLV                 |                                    |          |           |      | 5.4              | 6.1       | 5.9    | 5.8    | 5.7     | 5.5    |        |
| Dimensions           | Unit                               | Height   |           |      |                  | mm        | 2,553  |        |         |        |        |
|                      |                                    | Width    |           |      |                  | mm        | 2,238  |        |         |        |        |
|                      |                                    | Depth    |           |      |                  | mm        | 12,280 |        |         |        |        |
| Weight               | Unit                               |          |           |      | kg               | 9,920     | 10,323 |        | 13,360  | 10,805 |        |
|                      | Operation weight                   |          |           |      | kg               | 11,136    | 11,549 | 11,564 | 12,066  | 12,076 | 12,086 |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |           |        |        |         |        |        |
| Compressor           | Type                               |          |           |      | Screw compressor |           |        |        |         |        |        |
| Fan                  | Quantity                           |          |           |      | 2                |           |        |        |         |        |        |
|                      | Type                               |          |           |      | Direct propeller |           |        |        |         |        |        |
|                      | Quantity                           |          |           |      | 22               |           |        |        |         | 24     |        |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 140,213          |           |        |        | 152,960 |        |        |
| Sound power level    | Cooling                            | Nom.     |           |      | dB(A)            | 105.3     | 103.3  | 104.1  | 104.9   | 105.8  | 106.6  |
| Sound pressure level | Cooling                            | Nom.     |           |      | dB(A)            | 82.5      | 80.5   | 81.2   | 81.8    | 82.7   | 83.5   |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~42          |           |        |        |         |        |        |
| Refrigerant          | Type/GWP                           |          |           |      | R-513A/630       |           |        |        |         |        |        |
|                      | Charge                             |          |           |      | kg               | 205       | 215    | 230    | 250     | 260    | 270    |
|                      | Circuits                           | Quantity |           |      |                  | 2         |        |        |         |        |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 273mm            |           |        |        |         |        |        |
| Unit                 | Starting current                   | Max      |           |      |                  | A         | 0      |        |         |        |        |
|                      | Running                            | Cooling  | Nom.      | A    | 910.1            | 894.9     | 984.4  | 1,062  | 1,163   |        |        |
|                      | current                            | Max      |           |      |                  | A         | 1,156  | 1,124  | 1,227   | 1,351  | 1,608  |
| Power supply         | Phase/Frequency/Voltage            |          |           |      | Hz/V             | 3~/50/400 |        |        |         |        |        |



# Inverter screw with GOLD efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range

- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAS-TZXSD                         |                         |          |           | 295              | 345       | 380   | 440     | 515     | 525     | 565   |         |
|------------------------------------|-------------------------|----------|-----------|------------------|-----------|-------|---------|---------|---------|-------|---------|
| SEER                               |                         |          |           | 5.2              | 5.4       | 5.5   | 5.2     | 5.1     | 5       | 5.3   |         |
| Cooling capacity                   | Nom.                    |          |           | kW               | 293.5     | 344.9 | 377.1   | 435.9   | 506.6   | 524.4 | 560.5   |
| Power input                        | Cooling                 |          |           | kW               | 94.89     | 108.5 | 124.1   | 127.6   | 159.3   | 155   | 171.5   |
| Capacity control                   | Method                  |          |           | Stepless         |           |       |         |         |         |       |         |
| Minimum capacity                   |                         |          |           | %                | 22        | 19    | 17      | 28      | 23      | 13    | 22      |
| EER                                |                         |          |           |                  | 3.093     | 3.179 | 3.039   | 3.416   | 3.18    | 3.383 | 3.268   |
| IPLV                               |                         |          |           |                  | 5.8       | 6.1   | 5.9     | 6.3     | 6.1     | 6     | 6.5     |
| Dimensions                         | Unit                    | Height   | mm        | 2,553            |           |       |         |         |         |       |         |
|                                    |                         | Width    | mm        | 2,238            |           |       |         |         |         |       |         |
|                                    |                         | Depth    | mm        | 3,640            | 4,720     |       | 5,800   |         | 6,880   |       |         |
| Weight                             | Unit                    |          |           | kg               | 3,255     | 3,775 |         | 4,569   |         | 5,348 | 5,136   |
|                                    | Operation weight        |          |           | kg               | 3,335     | 3,868 | 3,873   | 4,687.1 | 4,697.1 | 5,673 | 5,287.3 |
| Air heat exchanger                 | Type                    |          |           | Microchannel     |           |       |         |         |         |       |         |
| Compressor                         | Type                    |          |           | Screw compressor |           |       |         |         |         |       |         |
| Fan                                | Quantity                |          |           | 1                |           |       |         |         | 2       |       | 1       |
|                                    | Type                    |          |           | Direct propeller |           |       |         |         |         |       |         |
|                                    | Quantity                |          |           | 6                | 8         |       | 10      |         | 12      |       |         |
| Air flow rate                      | Cooling                 | Nom.     | l/s       | 33,930           | 45,240    |       | 56,540  |         | 67,860  |       | 68,280  |
| Sound power level                  | Cooling                 | Nom.     | dBA       | 97.5             | 98.1      | 102.6 | 95.7    | 97.5    | 100.1   |       |         |
| Sound pressure level               | Cooling                 | Nom.     | dBA       | 79.9             | 81.8      | 82.8  | 74.6    | 75.8    | 78.9    | 76.2  |         |
| Operation range                    | Air side                | Cooling  | Min.~Max. | °CDB             | -20 ~42   |       |         |         |         |       |         |
| Refrigerant                        | Type/GWP                |          |           | R-513A/630       |           |       |         |         |         |       |         |
| Piping connections                 | Charge                  |          |           | kg               | 40        | 45    | 50      | 60      | 70      |       | 75      |
|                                    | Circuits                | Quantity |           |                  | 1         |       |         |         | 2       |       | 1       |
| Evaporator water inlet/outlet (OD) |                         |          |           | 88.9mm           |           |       | 139.7mm |         | 168.3mm |       | 139.7mm |
| Unit                               | Starting current        | Max      | A         | 0                |           |       |         |         |         |       |         |
| Running                            | Cooling                 | Nom.     | A         | 198.1            | 227.3     | 247   | 258.3   | 305.8   | 334.1   | 331   |         |
|                                    | current                 | Max      | A         | 224              | 261       | 289   | 314     | 342     | 389     | 404   |         |
| Power supply                       | Phase/Frequency/Voltage |          |           | Hz/V             | 3~/50/400 |       |         |         |         |       |         |

| EWAS-TZXSD                         |                         |          |           | 565              | 610       | 635    | 670     | 705     | 725     | 760     |         |
|------------------------------------|-------------------------|----------|-----------|------------------|-----------|--------|---------|---------|---------|---------|---------|
| SEER                               |                         |          |           | 4.9              | 5         | 5.2    | 4.9     | 5.2     | 5       | 4.9     |         |
| Cooling capacity                   | Nom.                    |          |           | kW               | 560.5     | 610.4  | 626.7   | 665.8   | 696.1   | 719.7   | 749.1   |
| Power input                        | Cooling                 |          |           | kW               | 171.5     | 187.8  | 202.4   | 214.2   | 220.6   | 233.6   | 248.3   |
| Capacity control                   | Method                  |          |           | Stepless         |           |        |         |         |         |         |         |
| Minimum capacity                   |                         |          |           | %                | 12        | 11     | 19      | 10      | 30      | 10      | 28      |
| EER                                |                         |          |           |                  | 3.268     | 3.25   | 3.096   | 3.108   | 3.155   | 3.081   | 3.017   |
| IPLV                               |                         |          |           |                  | 5.9       | 6      | 6.2     | 5.8     | 5.6     | 5.9     | 5.5     |
| Dimensions                         | Unit                    | Height   | mm        | 2,553            |           |        |         |         |         |         |         |
|                                    |                         | Width    | mm        | 2,238            |           |        |         |         |         |         |         |
|                                    |                         | Depth    | mm        | 6,880            | 7,960     | 6,880  | 7,960   | 6,880   | 7,960   | 6,880   |         |
| Weight                             | Unit                    |          |           | kg               | 5,348     | 5,829  | 5,136   | 5,829   | 5,805   | 5,946   | 5,805   |
|                                    | Operation weight        |          |           | kg               | 5,683     | 6,169  | 5,297.3 | 6,174   | 5,976.3 | 6,344   | 5,986.3 |
| Air heat exchanger                 | Type                    |          |           | Microchannel     |           |        |         |         |         |         |         |
| Compressor                         | Type                    |          |           | Screw compressor |           |        |         |         |         |         |         |
| Fan                                | Quantity                |          |           | 2                |           | 1      | 2       | 1       | 2       | 1       |         |
|                                    | Type                    |          |           | Direct propeller |           |        |         |         |         |         |         |
|                                    | Quantity                |          |           | 12               | 14        | 12     | 14      | 12      | 14      | 12      |         |
| Air flow rate                      | Cooling                 | Nom.     | l/s       | 67,860           | 79,170    | 68,280 | 79,170  | 68,280  | 79,170  | 68,280  |         |
| Sound power level                  | Cooling                 | Nom.     | dBA       | 100.3            | 100.6     | 104.6  | 100.9   | 99      | 102.3   | 99.8    |         |
| Sound pressure level               | Cooling                 | Nom.     | dBA       | 80.2             | 81.2      | 76.6   | 83.3    | 77.8    | 83.8    | 78.6    |         |
| Operation range                    | Air side                | Cooling  | Min.~Max. | °CDB             | -20 ~42   |        |         |         |         |         |         |
| Refrigerant                        | Type/GWP                |          |           | R-513A/630       |           |        |         |         |         |         |         |
| Piping connections                 | Charge                  |          |           | kg               | 80        | 85     | 90      | 95      | 100     | 105     |         |
|                                    | Circuits                | Quantity |           |                  | 2         |        | 1       | 2       | 1       | 2       | 1       |
| Evaporator water inlet/outlet (OD) |                         |          |           | 168.3mm          |           |        | 139.7mm | 168.3mm | 139.7mm | 168.3mm | 139.7mm |
| Unit                               | Starting current        | Max      | A         | 0                |           |        |         |         |         |         |         |
| Running                            | Cooling                 | Nom.     | A         | 331              | 397.7     | 377.1  | 443.2   | 403.7   | 464.7   | 444.5   |         |
|                                    | current                 | Max      | A         | 429              | 457       | 452    | 498     | 520     | 535     | 568     |         |
| Power supply                       | Phase/Frequency/Voltage |          |           | Hz/V             | 3~/50/400 |        |         |         |         |         |         |



EWAS-TZXSD



MicroTech 4

| EWAS-TZXSD           |                                    |          |           | 805  | 880              | 950   | C10   | H10    | H11    | C12   |
|----------------------|------------------------------------|----------|-----------|------|------------------|-------|-------|--------|--------|-------|
| SEER                 |                                    |          |           | 5.2  | 5.3              | 5.2   |       | 5.3    | 5.4    |       |
| Cooling capacity     | Nom.                               |          |           | kW   | 794.9            | 873.2 | 941.6 | 988.1  | 1,052  | 1,183 |
| Power input          | Cooling                            |          |           | kW   | 246.2            | 266.2 | 300.2 | 310.7  | 346.2  | 393.7 |
| Capacity control     | Method                             |          |           |      | Stepless         |       |       |        |        |       |
|                      | Minimum capacity                   |          |           | %    | 10               | 14    | 13    |        | 11     | 10    |
| EER                  |                                    |          |           |      | 3.229            | 3.28  | 3.137 | 3.18   | 3.039  | 3.005 |
| IPLV                 |                                    |          |           |      | 6                | 6.4   | 6.2   | 6.3    | 6.1    | 6.1   |
| Dimensions           | Unit                               | Height   |           | mm   | 2,553            |       |       |        |        |       |
|                      |                                    | Width    |           | mm   | 2,238            |       |       |        |        |       |
|                      |                                    | Depth    |           | mm   | 9,040            |       |       |        |        |       |
| Weight               | Unit                               |          |           | kg   | 6,904            | 7,160 |       | 10,120 | 11,200 |       |
|                      | Operation weight                   |          |           | kg   | 7,495            | 7,761 | 7,771 | 8,258  | 8,268  | 9,028 |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |       |       |        |        |       |
| Compressor           | Type                               |          |           |      | Screw compressor |       |       |        |        |       |
|                      | Quantity                           |          |           |      | 2                |       |       |        |        |       |
| Fan                  | Type                               |          |           |      | Direct propeller |       |       |        |        |       |
|                      | Quantity                           |          |           |      | 16               |       |       |        |        |       |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 90,480           |       |       |        |        |       |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 104.6            | 98.4  | 100.3 | 101    | 102.3  | 102.9 |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 83.9             | 76.1  | 76.5  | 76.8   | 77.5   | 77.6  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~42          |       |       |        |        |       |
| Refrigerant          | Type/GWP                           |          |           |      | R-513A/630       |       |       |        |        |       |
|                      | Charge                             |          |           | kg   | 110              | 120   | 130   | 135    | 145    | 155   |
|                      | Circuits                           | Quantity |           |      | 2                |       |       |        |        |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 219.1mm          |       |       |        |        |       |
| Unit                 | Starting current                   | Max      |           | A    | 0                |       |       |        |        |       |
|                      | Running                            | Cooling  | Nom.      | A    | 466.5            | 520.3 | 571.1 | 592.9  | 645.8  | 669.5 |
|                      | current                            | Max      |           | A    | 573              | 626   | 683   | 720    | 782    | 744   |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400        |       |       |        |        |       |

| EWAS-TZXSD           |                                    |          |           | H12  | H13              | H14     | H15    | H16     | H17    |
|----------------------|------------------------------------|----------|-----------|------|------------------|---------|--------|---------|--------|
| SEER                 |                                    |          |           | 5.2  | 5.5              | 5.4     |        | 5.3     | 5.1    |
| Cooling capacity     | Nom.                               |          |           | kW   | 1,267.2          | 1,344   | 1,442  | 1,551   | 1,734  |
| Power input          | Cooling                            |          |           | kW   | 426.7            | 452.1   | 446.3  | 503.1   | 562.8  |
| Capacity control     | Method                             |          |           |      | Stepless         |         |        |         |        |
|                      | Minimum capacity                   |          |           | %    | 10               |         | 15     | 14      | 13     |
| EER                  |                                    |          |           |      | 2.97             | 2.973   | 3.231  | 3.083   | 2.923  |
| IPLV                 |                                    |          |           |      | 6                |         | 6.1    | 6.2     | 6.1    |
| Dimensions           | Unit                               | Height   |           | mm   | 2,553            |         |        |         |        |
|                      |                                    | Width    |           | mm   | 2,238            |         |        |         |        |
|                      |                                    | Depth    |           | mm   | 11,200           | 12,280  |        | 13,360  |        |
| Weight               | Unit                               |          |           | kg   | 8,316            | 9,655   |        | 10,805  |        |
|                      | Operation weight                   |          |           | kg   | 9,053            | 10,856  | 12,016 | 12,031  | 12,046 |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |         |        |         |        |
| Compressor           | Type                               |          |           |      | Screw compressor |         |        |         |        |
|                      | Quantity                           |          |           |      | 2                |         |        |         |        |
| Fan                  | Type                               |          |           |      | Direct propeller |         |        |         |        |
|                      | Quantity                           |          |           |      | 20               | 22      |        | 24      |        |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 113,080          | 124,388 |        | 135,696 |        |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 107.5            | 106.1   | 102    | 102.8   | 103.7  |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 78               | 79.1    | 78.9   | 79.7    | 80.5   |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~42          |         |        |         |        |
| Refrigerant          | Type/GWP                           |          |           |      | R-513A/630       |         |        |         |        |
|                      | Charge                             |          |           | kg   | 180              | 190     | 200    | 215     | 230    |
|                      | Circuits                           | Quantity |           |      | 2                |         |        |         |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 219.1mm          |         |        | 273mm   |        |
| Unit                 | Starting current                   | Max      |           | A    | 0                |         |        |         |        |
|                      | Running                            | Cooling  | Nom.      | A    | 744.2            | 817.8   | 814.6  | 898.5   | 986.3  |
|                      | current                            | Max      |           | A    | 851              | 899     | 997    | 1,103   | 1,217  |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400        |         |        |         |        |

# Inverter screw with GOLD efficiency. Reduced sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAS-TZXRD           |                                    |          |           | 295              | 345       | 380     | 440   | 515     | 525     | 565    |         |
|----------------------|------------------------------------|----------|-----------|------------------|-----------|---------|-------|---------|---------|--------|---------|
| Capacity control     | Method                             |          |           | Stepless         |           |         |       |         |         |        |         |
|                      | Minimum capacity                   |          |           | %                | 22        | 19      | 17    | 28      | 23      | 13     | 22      |
| Dimensions           | Unit                               | Height   | mm        | 2,553            |           |         |       |         |         |        |         |
|                      |                                    | Width    | mm        | 2,238            |           |         |       |         |         |        |         |
|                      |                                    | Depth    | mm        | 3,640            | 4,720     |         | 5,800 |         | 6,880   |        |         |
| Weight               | Unit                               |          |           | kg               | 3,375     | 3,895   |       | 4,689   |         | 5,468  | 5,256   |
|                      | Operation weight                   |          |           | kg               | 3,455     | 3,988   | 3,993 | 4,807.1 | 4,817.1 | 5,793  | 5,407.3 |
| Air heat exchanger   | Type                               |          |           | Microchannel     |           |         |       |         |         |        |         |
| Compressor           | Type                               |          |           | Screw compressor |           |         |       |         |         |        |         |
|                      | Quantity                           |          |           | 1                |           |         |       |         | 2       | 1      |         |
| Fan                  | Type                               |          |           | Direct propeller |           |         |       |         |         |        |         |
|                      | Quantity                           |          |           | 6                | 8         |         | 10    |         | 12      |        |         |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s              | 28,330    | 37,770  |       | 47,213  |         | 56,660 |         |
| Sound power level    | Cooling                            | Nom.     | dBA       | 87.5             | 88.3      | 91.5    | 87.6  | 88.4    | 90.2    |        |         |
| Sound pressure level | Cooling                            | Nom.     | dBA       | 67.7             | 68.1      | 71.2    | 66.9  | 67.7    | 69      |        |         |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB             | -20 ~42   |         |       |         |         |        |         |
| Refrigerant          | Type/GWP                           |          |           | R-134a/630       |           |         |       |         |         |        |         |
|                      | Charge                             |          |           | kg               | 40        | 45      | 50    | 60      | 70      | 75     |         |
|                      | Circuits                           | Quantity |           | 1                |           |         |       |         | 2       | 1      |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           | 88.9mm           |           | 139.7mm |       | 168.3mm | 139.7mm |        |         |
| Unit                 | Starting current                   | Max      | A         | 0                |           |         |       |         |         |        |         |
|                      | Running current                    | Max      | A         | 224              | 261       | 289     | 314   | 342     | 389     | 404    |         |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V             | 3~/50/400 |         |       |         |         |        |         |

| EWAS-TZXRD           |                                    |          |           | 565              | 610       | 635     | 670     | 705     | 725     | 760     |         |
|----------------------|------------------------------------|----------|-----------|------------------|-----------|---------|---------|---------|---------|---------|---------|
| Capacity control     | Method                             |          |           | Stepless         |           |         |         |         |         |         |         |
|                      | Minimum capacity                   |          |           | %                | 12        | 11      | 19      | 10      | 30      | 10      | 28      |
| Dimensions           | Unit                               | Height   | mm        | 2,553            |           |         |         |         |         |         |         |
|                      |                                    | Width    | mm        | 2,238            |           |         |         |         |         |         |         |
|                      |                                    | Depth    | mm        | 6,880            | 7,960     | 6,880   | 7,960   | 6,880   | 7,960   | 6,880   |         |
| Weight               | Unit                               |          |           | kg               | 5,468     | 5,949   | 5,256   | 5,949   | 5,925   | 6,066   | 5,925   |
|                      | Operation weight                   |          |           | kg               | 5,803     | 6,289   | 5,417.3 | 6,294   | 6,096.3 | 6,464   | 6,106.3 |
| Air heat exchanger   | Type                               |          |           | Microchannel     |           |         |         |         |         |         |         |
| Compressor           | Type                               |          |           | Screw compressor |           |         |         |         |         |         |         |
|                      | Quantity                           |          |           | 2                |           | 1       | 2       | 1       | 2       | 1       |         |
| Fan                  | Type                               |          |           | Direct propeller |           |         |         |         |         |         |         |
|                      | Quantity                           |          |           | 12               | 14        | 12      | 14      | 12      | 14      | 12      |         |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s              | 56,660    | 66,098  | 56,660  | 66,098  | 56,660  | 66,098  | 56,660  |
| Sound power level    | Cooling                            | Nom.     | dBA       | 90.3             | 90.8      | 93.4    | 91      | 89.6    | 91.9    | 90.1    |         |
| Sound pressure level | Cooling                            | Nom.     | dBA       | 69.2             |           | 72.3    | 69.4    | 68.4    | 70.3    | 68.9    |         |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB             | -20 ~42   |         |         |         |         |         |         |
| Refrigerant          | Type/GWP                           |          |           | R-134a/630       |           |         |         |         |         |         |         |
|                      | Charge                             |          |           | kg               |           | 85      | 90      | 95      | 100     | 105     |         |
|                      | Circuits                           | Quantity |           | 2                |           | 1       | 2       | 1       | 2       | 1       |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           | 168.3mm          |           | 139.7mm | 168.3mm | 139.7mm | 168.3mm | 139.7mm |         |
| Unit                 | Starting current                   | Max      | A         | 0                |           |         |         |         |         |         |         |
|                      | Running current                    | Max      | A         | 429              | 457       | 452     | 498     | 520     | 535     | 568     |         |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V             | 3~/50/400 |         |         |         |         |         |         |





MicroTech 4



EWAS-TZXRD

| EWAS-TZXRD           |                                    |             |           | 805              | 880       | 950     | C10     | H10    | H11    | C12   |     |
|----------------------|------------------------------------|-------------|-----------|------------------|-----------|---------|---------|--------|--------|-------|-----|
| Capacity control     | Method                             |             |           | Stepless         |           |         |         |        |        |       |     |
|                      | Minimum capacity                   |             |           | 10               | 14        | 13      | 12      | 11     |        | 10    |     |
| Dimensions           | Unit                               | Height      | mm        | 2,553            |           |         |         |        |        |       |     |
|                      |                                    | Width       | mm        | 2,238            |           |         |         |        |        |       |     |
|                      |                                    | Depth       | mm        | 9,040            |           | 10,120  |         | 11,200 |        |       |     |
| Weight               | Unit                               | kg          |           | 7,024            | 7,280     |         | 7,762   |        | 8,436  |       |     |
|                      | Operation weight                   |             | kg        | 7,615            | 7,881     | 7,891   | 8,378   | 8,388  | 9,148  | 9,158 |     |
| Air heat exchanger   | Type                               |             |           | Microchannel     |           |         |         |        |        |       |     |
| Compressor           | Type                               |             |           | Screw compressor |           |         |         |        |        |       |     |
|                      | Quantity                           |             |           | 2                |           |         |         |        |        |       |     |
| Fan                  | Type                               |             |           | Direct propeller |           |         |         |        |        |       |     |
|                      | Quantity                           |             |           | 16               |           | 18      |         | 20     |        |       |     |
|                      | Air flow rate                      | Cooling     | Nom.      | 75,540           |           | 84,983  |         | 94,425 |        |       |     |
| Sound power level    | Cooling                            | Nom.        | dBA       | 93.7             | 89.9      | 90.9    | 91.5    | 92.3   | 92.8   | 94.4  |     |
| Sound pressure level | Cooling                            | Nom.        | dBA       | 71.8             | 68        | 69      | 69.3    | 70     | 70.3   | 71.9  |     |
| Operation range      | Air side                           | Cooling     | Min.~Max. | °CDB             | -20 ~42   |         |         |        |        |       |     |
| Refrigerant          | Type/GWP                           |             |           | R-134a/630       |           |         |         |        |        |       |     |
|                      | Charge                             |             |           | kg               | 110       | 120     | 130     | 135    | 145    | 155   | 165 |
|                      | Circuits                           | Quantity    |           | 2                |           |         |         |        |        |       |     |
| Piping connections   | Evaporator water inlet/outlet (OD) |             |           | 219.1mm          |           |         |         |        |        |       |     |
| Unit                 | Starting current Max               |             |           | A                | 0         |         |         |        |        |       |     |
|                      | Running                            | Max current |           | A                | 573       | 626     | 683     | 720    | 782    | 744   | 803 |
| Power supply         | Phase/Frequency/Voltage            |             |           | Hz/V             | 3~/50/400 |         |         |        |        |       |     |
| EWAS-TZXRD           |                                    |             |           | H12              | H13       | H14     | H15     | H16    | H17    |       |     |
| Capacity control     | Method                             |             |           | Stepless         |           |         |         |        |        |       |     |
|                      | Minimum capacity                   |             |           | 10               |           | 15      | 14      | 13     | 12     |       |     |
| Dimensions           | Unit                               | Height      | mm        | 2,553            |           |         |         |        |        |       |     |
|                      |                                    | Width       | mm        | 2,238            |           |         |         |        |        |       |     |
|                      |                                    | Depth       | mm        | 11,200           | 12,280    | 13,360  |         |        |        |       |     |
| Weight               | Unit                               | kg          |           | 8,436            | 9,775     | 10,925  |         |        |        |       |     |
|                      | Operation weight                   |             | kg        | 9,173            | 10,976    | 12,136  | 12,151  | 12,166 | 12,181 |       |     |
| Air heat exchanger   | Type                               |             |           | Microchannel     |           |         |         |        |        |       |     |
| Compressor           | Type                               |             |           | Screw compressor |           |         |         |        |        |       |     |
|                      | Quantity                           |             |           | 2                |           |         |         |        |        |       |     |
| Fan                  | Type                               |             |           | Direct propeller |           |         |         |        |        |       |     |
|                      | Quantity                           |             |           | 20               | 22        | 24      |         |        |        |       |     |
|                      | Air flow rate                      | Cooling     | Nom.      | l/s              | 94,425    | 103,868 | 113,320 |        |        |       |     |
| Sound power level    | Cooling                            | Nom.        | dBA       | 96.3             | 95.2      | 92.6    | 93.1    | 93.6   | 94.2   |       |     |
| Sound pressure level | Cooling                            | Nom.        | dBA       | 73.7             | 72.4      | 69.5    | 70      | 70.5   | 71.1   |       |     |
| Operation range      | Air side                           | Cooling     | Min.~Max. | °CDB             | -20 ~42   |         |         |        |        |       |     |
| Refrigerant          | Type/GWP                           |             |           | R-134a/630       |           |         |         |        |        |       |     |
|                      | Charge                             |             |           | kg               |           | 190     | 200     | 215    | 230    | 245   |     |
|                      | Circuits                           | Quantity    |           | 2                |           |         |         |        |        |       |     |
| Piping connections   | Evaporator water inlet/outlet (OD) |             |           | 219.1mm          | 273mm     |         |         |        |        |       |     |
| Unit                 | Starting current Max               |             |           | A                | 0         |         |         |        |        |       |     |
|                      | Running                            | Max current |           | A                |           | 899     | 997     | 1,103  | 1,217  | 1,330 |     |
| Power supply         | Phase/Frequency/Voltage            |             |           | Hz/V             | 3~/50/400 |         |         |        |        |       |     |

# Inverter screw with PLATINUM efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range

- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAS-TZPSD           |                                    |          |           |  | 285  | 330                   | 370    | 405     | 450     | 490     |  |
|----------------------|------------------------------------|----------|-----------|--|------|-----------------------|--------|---------|---------|---------|--|
| SEER                 |                                    |          |           |  |      | 5.9                   | 6      | 5.9     | 6.3     | 6.2     |  |
| Cooling capacity     | Nom.                               |          |           |  | kW   | 287.6                 | 333.2  | 370.2   | 405.1   | 488.4   |  |
| Power input          | Cooling                            | Nom.     |           |  | kW   | 81.89                 | 96.83  | 111.6   | 110.6   | 123.5   |  |
| Capacity control     | Method                             |          |           |  |      | Stepless              |        |         |         |         |  |
|                      | Minimum capacity                   |          |           |  | %    | 23                    | 20     | 18      | 30      | 25      |  |
| EER                  |                                    |          |           |  |      | 3.512                 | 3.441  | 3.317   | 3.663   | 3.645   |  |
| IPLV                 |                                    |          |           |  |      | 6.5                   |        | 6.4     | 7       | 7.3     |  |
| Dimensions           | Unit                               | Height   | mm        |  |      | 2,553                 |        |         |         |         |  |
|                      |                                    | Width    | mm        |  |      | 2,238                 |        |         |         |         |  |
|                      |                                    | Depth    | mm        |  |      | 4,720                 | 5,800  |         | 6,880   |         |  |
| Weight               | Unit                               |          |           |  | kg   | 3,775                 | 4,256  |         | 5,050   | 5,136   |  |
|                      | Operation weight                   |          |           |  | kg   | 3,863                 | 4,349  | 4,354   | 5,163.1 | 5,272.3 |  |
| Air heat exchanger   | Type                               |          |           |  |      | Microchannel          |        |         |         |         |  |
| Compressor           | Type                               |          |           |  |      | Screw compressor      |        |         |         |         |  |
|                      | Quantity                           |          |           |  |      | 1                     |        |         |         |         |  |
| Fan                  | Type                               |          |           |  |      | Direct propeller      |        |         |         |         |  |
|                      | Quantity                           |          |           |  |      | 8                     | 10     |         | 12      |         |  |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s  | 45,240                | 56,540 |         | 67,848  |         |  |
| Sound power level    | Cooling                            | Nom.     |           |  | dBA  | 97.5                  | 98.1   | 100.4   | 94.7    | 96      |  |
| Sound pressure level | Cooling                            | Nom.     |           |  | dBA  | 78.2                  | 81     | 81.9    | 74.2    | 74.5    |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB |                       |        |         |         |         |  |
| Refrigerant          | Type/GWP                           |          |           |  |      | -20 ~42<br>R-513A/630 |        |         |         |         |  |
|                      | Charge                             |          |           |  | kg   | 40                    | 45     | 50      | 55      | 60      |  |
|                      | Circuits                           | Quantity |           |  |      | 1                     |        |         |         |         |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  |      | 88.9mm                |        | 139.7mm |         |         |  |
| Unit                 | Starting current                   |          |           |  | Max  | A                     | 0      |         |         |         |  |
|                      | Running                            | Cooling  | Nom.      |  | A    | 181.1                 | 212.7  | 238.2   | 242     | 258.8   |  |
|                      | current                            | Max      |           |  | A    | 220                   | 258    | 285     | 293     | 352     |  |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V | 3~/50/400             |        |         |         |         |  |

| EWAS-TZPSD           |                                    |          |           |  | 530  | 575                   | 615   | 675   | 735    |       |  |
|----------------------|------------------------------------|----------|-----------|--|------|-----------------------|-------|-------|--------|-------|--|
| SEER                 |                                    |          |           |  |      | 6                     | 5.9   |       | 5.8    |       |  |
| Cooling capacity     | Nom.                               |          |           |  | kW   | 531.7                 | 573.6 | 620.2 | 677.1  |       |  |
| Power input          | Cooling                            | Nom.     |           |  | kW   | 150.8                 | 167.7 | 180.9 | 205.7  |       |  |
| Capacity control     | Method                             |          |           |  |      | Stepless              |       |       |        |       |  |
|                      | Minimum capacity                   |          |           |  | %    | 13                    | 12    | 11    | 10     |       |  |
| EER                  |                                    |          |           |  |      | 3.526                 | 3.42  | 3.428 | 3.292  |       |  |
| IPLV                 |                                    |          |           |  |      | 6.4                   | 6.3   |       | 6.2    |       |  |
| Dimensions           | Unit                               | Height   | mm        |  |      | 2,553                 |       |       |        |       |  |
|                      |                                    | Width    | mm        |  |      | 2,238                 |       |       |        |       |  |
|                      |                                    | Depth    | mm        |  |      | 7,960                 |       |       | 9,040  |       |  |
| Weight               | Unit                               |          |           |  | kg   | 5,829                 |       |       | 6,311  | 6,427 |  |
|                      | Operation weight                   |          |           |  | kg   | 6,159                 | 6,164 | 6,651 | 6,661  | 6,825 |  |
| Air heat exchanger   | Type                               |          |           |  |      | Microchannel          |       |       |        |       |  |
| Compressor           | Type                               |          |           |  |      | Screw compressor      |       |       |        |       |  |
|                      | Quantity                           |          |           |  |      | 2                     |       |       |        |       |  |
| Fan                  | Type                               |          |           |  |      | Direct propeller      |       |       |        |       |  |
|                      | Quantity                           |          |           |  |      | 14                    |       |       | 16     |       |  |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s  | 79,170                |       |       | 90,480 |       |  |
| Sound power level    | Cooling                            | Nom.     |           |  | dBA  | 100.2                 | 100.4 | 100.7 | 101    | 102.3 |  |
| Sound pressure level | Cooling                            | Nom.     |           |  | dBA  | 78.6                  | 79.9  | 80.9  | 83     | 83.4  |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB |                       |       |       |        |       |  |
| Refrigerant          | Type/GWP                           |          |           |  |      | -20 ~42<br>R-513A/630 |       |       |        |       |  |
|                      | Charge                             |          |           |  | kg   | 75                    | 80    | 85    | 95     | 100   |  |
|                      | Circuits                           | Quantity |           |  |      | 2                     |       |       |        |       |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  |      | 168.3mm               |       |       |        |       |  |
| Unit                 | Starting current                   |          |           |  | Max  | A                     | 0     |       |        |       |  |
|                      | Running                            | Cooling  | Nom.      |  | A    | 332                   | 361.5 | 391.2 | 434    | 459.1 |  |
|                      | current                            | Max      |           |  | A    | 399                   | 429   | 468   | 508    | 535   |  |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V | 3~/50/400             |       |       |        |       |  |



EWAS-TZPSD



MicroTech 4

| EWAS-TZPSD           |                                    |          |           |  | 810              | 890     | 960   | C10     | H10   | H11     |
|----------------------|------------------------------------|----------|-----------|--|------------------|---------|-------|---------|-------|---------|
| SEER                 |                                    |          |           |  | 6.1              | 6.3     | 6.1   | 6.2     | 6.1   |         |
| Cooling capacity     | Nom. kW                            |          |           |  | 810              | 884.2   | 954   | 1,001   | 1,067 | 1,110   |
| Power input          | Cooling                            | Nom. kW  |           |  |                  | 238.8   | 256.7 | 288.7   | 331.9 | 343.6   |
| Capacity control     | Method                             |          |           |  | Stepless         |         |       |         |       |         |
|                      | Minimum capacity %                 |          |           |  | 10               | 14      | 13    | 12      | 11    |         |
| EER                  |                                    |          |           |  | 3.392            | 3.444   | 3.304 | 3.349   | 3.215 | 3.231   |
| IPLV                 |                                    |          |           |  | 6.5              | 6.8     | 6.6   |         | 6.3   | 6.5     |
| Dimensions           | Unit                               | Height   |           |  |                  | 2,553   |       |         |       |         |
|                      |                                    | Width    |           |  |                  | 2,238   |       |         |       |         |
|                      |                                    | Depth    |           |  |                  | 10,120  |       |         |       |         |
| Weight               | Unit                               |          |           |  | kg               | 7,385   | 7,642 | 11,200  |       | 12,280  |
|                      | Operation weight kg                |          |           |  | 7,976            | 8,243   | 8,253 | 8,744   | 8,754 | 9,515   |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |         |       |         |       |         |
| Compressor           | Type                               |          |           |  | Screw compressor |         |       |         |       |         |
|                      | Quantity                           |          |           |  | 2                |         |       |         |       |         |
| Fan                  | Type                               |          |           |  | Direct propeller |         |       |         |       |         |
|                      | Quantity                           |          |           |  | 18               |         |       |         |       | 20      |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s              | 101,772 |       | 113,080 |       | 140,200 |
| Sound power level    | Cooling                            | Nom. dBA |           |  | 104.6            | 98.6    | 100.4 | 101.1   | 102.4 | 103     |
| Sound pressure level | Cooling                            | Nom. dBA |           |  | 83.6             | 75.9    | 76.3  | 76.6    | 77.3  | 77.4    |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB             | -20 ~42 |       |         |       |         |
| Refrigerant          | Type/GWP                           |          |           |  | R-513A/630       |         |       |         |       |         |
|                      | Charge kg                          |          |           |  | 110              | 120     | 130   | 140     | 150   | 160     |
|                      | Circuits                           |          |           |  | 2                |         |       |         |       |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 219.1mm          |         |       |         |       |         |
| Unit                 | Starting current                   |          |           |  | 0                |         |       |         |       |         |
|                      | Running                            | Cooling  | Nom.      |  | A                | 485.2   | 511.9 | 559.9   | 581.2 | 630.4   |
|                      | current                            | Max      |           |  |                  | A       | 573   | 616     | 672   | 709     |
| Power supply         | Phase/Frequency/Voltage Hz/V       |          |           |  | 3~/50/400        |         |       |         |       |         |

| EWAS-TZPSD           |                                    |          |           |  | C12              | H12     | H13    | H14     | H15    |
|----------------------|------------------------------------|----------|-----------|--|------------------|---------|--------|---------|--------|
| SEER                 |                                    |          |           |  | 6                | 6.1     | 6      | 5.9     | 5.7    |
| Cooling capacity     | Nom. kW                            |          |           |  | 1,197            | 1,288   | 1,363  | 1,443   | 1,552  |
| Power input          | Cooling                            | Nom. kW  |           |  |                  | 434.6   | 410.7  | 433.6   | 492.1  |
| Capacity control     | Method                             |          |           |  | Stepless         |         |        |         |        |
|                      | Minimum capacity %                 |          |           |  | 10               |         |        | 15      | 14     |
| EER                  |                                    |          |           |  | 2.754            | 3.136   | 3.143  | 3.313   | 3.154  |
| IPLV                 |                                    |          |           |  | 6.4              | 6.3     | 6.4    | 6.3     | 6.4    |
| Dimensions           | Unit                               | Height   |           |  |                  | 2,553   |        |         |        |
|                      |                                    | Width    |           |  |                  | 2,238   |        |         |        |
|                      |                                    | Depth    |           |  |                  | 12,280  |        |         |        |
| Weight               | Unit                               |          |           |  | kg               | 8,798   | 9,655  | 10,136  |        |
|                      | Operation weight kg                |          |           |  | 9,520            | 10,846  | 11,337 | 12,021  | 12,036 |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |         |        |         |        |
| Compressor           | Type                               |          |           |  | Screw compressor |         |        |         |        |
|                      | Quantity                           |          |           |  | 2                |         |        |         |        |
| Fan                  | Type                               |          |           |  | Direct propeller |         |        |         |        |
|                      | Quantity                           |          |           |  | 22               |         |        | 24      |        |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s              | 140,200 |        | 152,945 |        |
| Sound power level    | Cooling                            | Nom. dBA |           |  | 105.2            | 107.5   | 106.2  | 102     | 102.8  |
| Sound pressure level | Cooling                            | Nom. dBA |           |  | 77.7             | 77.9    | 78.9   |         | 79.7   |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB             | -20 ~42 |        |         |        |
| Refrigerant          | Type/GWP                           |          |           |  | R-513A/630       |         |        |         |        |
|                      | Charge kg                          |          |           |  | 165              | 180     | 190    | 205     | 220    |
|                      | Circuits                           |          |           |  | 2                |         |        |         |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 219.1mm          |         | 273mm  |         |        |
| Unit                 | Starting current                   |          |           |  | 0                |         |        |         |        |
|                      | Running                            | Cooling  | Nom.      |  | A                | 748.1   | 756.2  | 796.3   | 798.5  |
|                      | current                            | Max      |           |  |                  | A       | 845    | 893     | 951    |
| Power supply         | Phase/Frequency/Voltage Hz/V       |          |           |  | 3~/50/400        |         |        |         |        |



# Inverter screw with PLATINUM efficiency. Reduced sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAS-TZPRD           |                                    |         |           | 285              | 330       | 370    | 405     | 450     | 490     |         |
|----------------------|------------------------------------|---------|-----------|------------------|-----------|--------|---------|---------|---------|---------|
| Capacity control     | Method                             |         |           | Stepless         |           |        |         |         |         |         |
|                      | Minimum capacity                   |         |           | %                | 23        | 20     | 18      | 30      | 28      | 25      |
| Dimensions           | Unit                               | Height  | mm        | 2,553            |           |        |         |         |         |         |
|                      |                                    | Width   | mm        | 2,238            |           |        |         |         |         |         |
|                      |                                    | Depth   | mm        | 4,720            | 5,800     |        |         | 6,880   |         |         |
| Weight               | Unit                               |         |           | kg               | 3,895     | 4,376  |         | 5,170   |         | 5,256   |
|                      | Operation weight                   |         |           | kg               | 3,983     | 4,469  | 4,474   | 5,283.1 | 5,392.3 | 5,397.3 |
| Air heat exchanger   | Type                               |         |           | Microchannel     |           |        |         |         |         |         |
| Compressor           | Type                               |         |           | Screw compressor |           |        |         |         |         |         |
|                      | Quantity                           |         |           | 1                |           |        |         |         |         |         |
| Fan                  | Type                               |         |           | Direct propeller |           |        |         |         |         |         |
|                      | Quantity                           |         |           | 8                | 10        |        |         | 12      |         |         |
|                      | Air flow rate                      | Cooling | Nom.      | l/s              | 37,770    | 47,213 |         |         | 56,660  |         |
| Sound power level    | Cooling                            | Nom.    | dBA       | 88               | 88.7      | 90.1   |         | 87.8    | 88.2    | 88.9    |
| Sound pressure level | Cooling                            | Nom.    | dBA       | 67.7             | 68        | 69.4   |         | 66.6    | 67      | 67.8    |
| Operation range      | Air side                           | Cooling | Min.~Max. | °CDB             | -20 ~42   |        |         |         |         |         |
|                      | Type/GWP                           |         |           | R-134a/630       |           |        |         |         |         |         |
|                      | Charge                             |         |           | kg               | 40        | 45     | 50      | 55      | 60      | 65      |
| Piping connections   | Circuits                           |         |           | 1                |           |        |         |         |         |         |
|                      | Evaporator water inlet/outlet (OD) |         |           | 88.9mm           |           |        | 139.7mm |         |         |         |
| Unit                 | Starting current                   | Max     | A         | 0                |           |        |         |         |         |         |
|                      | Running current                    | Max     | A         | 220              | 258       | 285    | 293     | 352     | 404     |         |
| Power supply         | Phase/Frequency/Voltage            |         |           | Hz/V             | 3~/50/400 |        |         |         |         |         |

| EWAS-TZPRD           |                                    |         |           | 530              | 575       | 615   | 675   | 735    |       |  |
|----------------------|------------------------------------|---------|-----------|------------------|-----------|-------|-------|--------|-------|--|
| Capacity control     | Method                             |         |           | Stepless         |           |       |       |        |       |  |
|                      | Minimum capacity                   |         |           | %                | 13        | 12    | 11    | 10     |       |  |
| Dimensions           | Unit                               | Height  | mm        | 2,553            |           |       |       |        |       |  |
|                      |                                    | Width   | mm        | 2,238            |           |       |       |        |       |  |
|                      |                                    | Depth   | mm        | 7,960            |           |       | 9,040 |        |       |  |
| Weight               | Unit                               |         |           | kg               | 5,949     |       | 6,431 |        | 6,547 |  |
|                      | Operation weight                   |         |           | kg               | 6,279     | 6,284 | 6,771 | 6,781  | 6,945 |  |
| Air heat exchanger   | Type                               |         |           | Microchannel     |           |       |       |        |       |  |
| Compressor           | Type                               |         |           | Screw compressor |           |       |       |        |       |  |
|                      | Quantity                           |         |           | 2                |           |       |       |        |       |  |
| Fan                  | Type                               |         |           | Direct propeller |           |       |       |        |       |  |
|                      | Quantity                           |         |           | 14               |           |       | 16    |        |       |  |
|                      | Air flow rate                      | Cooling | Nom.      | l/s              | 66,098    |       |       | 75,540 |       |  |
| Sound power level    | Cooling                            | Nom.    | dBA       | 90.6             | 90.7      | 91.1  |       | 91.3   | 92.1  |  |
| Sound pressure level | Cooling                            | Nom.    | dBA       | 69               | 69.1      | 69.2  |       | 69.4   | 70.2  |  |
| Operation range      | Air side                           | Cooling | Min.~Max. | °CDB             | -20 ~42   |       |       |        |       |  |
|                      | Type/GWP                           |         |           | R-134a/630       |           |       |       |        |       |  |
|                      | Charge                             |         |           | kg               | 75        | 80    | 85    | 95     | 100   |  |
| Piping connections   | Circuits                           |         |           | 2                |           |       |       |        |       |  |
|                      | Evaporator water inlet/outlet (OD) |         |           | 168.3mm          |           |       |       |        |       |  |
| Unit                 | Starting current                   | Max     | A         | 0                |           |       |       |        |       |  |
|                      | Running current                    | Max     | A         | 399              | 429       | 468   | 508   | 535    |       |  |
| Power supply         | Phase/Frequency/Voltage            |         |           | Hz/V             | 3~/50/400 |       |       |        |       |  |



MicroTech 4



EWAS-TZPRD

| EWAS-TZPRD           |                                    |          |           | 810              | 890       | 960    | C10   | H10    | H11   |        |         |
|----------------------|------------------------------------|----------|-----------|------------------|-----------|--------|-------|--------|-------|--------|---------|
| Capacity control     | Method                             |          |           | Stepless         |           |        |       |        |       |        |         |
|                      | Minimum capacity                   |          |           | %                | 10        | 14     | 13    | 12     | 11    |        |         |
| Dimensions           | Unit                               | Height   | mm        | 2,553            |           |        |       |        |       |        |         |
|                      |                                    | Width    | mm        | 2,238            |           |        |       |        |       |        |         |
|                      |                                    | Depth    | mm        | 10,120           |           |        |       | 11,200 |       | 12,280 |         |
|                      |                                    |          |           |                  |           |        |       |        |       |        |         |
| Weight               | Unit                               | kg       |           | 7,505            | 7,762     |        | 8,243 |        | 8,918 |        |         |
|                      | Operation weight                   |          | kg        | 8,096            | 8,363     | 8,373  | 8,864 | 8,874  | 9,635 |        |         |
| Air heat exchanger   | Type                               |          |           | Microchannel     |           |        |       |        |       |        |         |
| Compressor           | Type                               |          |           | Screw compressor |           |        |       |        |       |        |         |
|                      | Quantity                           |          |           | 2                |           |        |       |        |       |        |         |
| Fan                  | Type                               |          |           | Direct propeller |           |        |       |        |       |        |         |
|                      | Quantity                           |          |           | 18               |           |        |       | 20     |       | 22     |         |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s              |           | 84,983 |       |        |       | 94,425 | 103,868 |
|                      |                                    |          |           |                  |           |        |       |        |       |        |         |
| Sound power level    | Cooling                            | Nom.     | dBA       | 93.9             | 90.3      | 91.2   | 91.8  | 92.5   | 93    |        |         |
| Sound pressure level | Cooling                            | Nom.     | dBA       | 71.6             | 68.1      | 68.9   | 69.2  | 69.9   | 70.2  |        |         |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB             | -20 ~42   |        |       |        |       |        |         |
| Refrigerant          | Type/GWP                           |          |           | R-134a/630       |           |        |       |        |       |        |         |
|                      | Charge                             |          |           | kg               | 110       | 120    | 130   | 140    | 150   | 160    |         |
|                      | Circuits                           | Quantity |           | 2                |           |        |       |        |       |        |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           | 219.1mm          |           |        |       |        |       |        |         |
| Unit                 | Starting current                   | Max      |           | A                | 0         |        |       |        |       |        |         |
|                      | Running current                    | Max      |           | A                | 573       | 616    | 672   | 709    | 761   | 796    |         |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V             | 3~/50/400 |        |       |        |       |        |         |

| EWAS-TZPRD           |                                    |          |           | C12              | H12       | H13     | H14    | H15    |         |
|----------------------|------------------------------------|----------|-----------|------------------|-----------|---------|--------|--------|---------|
| Capacity control     | Method                             |          |           | Stepless         |           |         |        |        |         |
|                      | Minimum capacity                   |          |           | %                | 10        |         | 15     | 14     |         |
| Dimensions           | Unit                               | Height   | mm        | 2,553            |           |         |        |        |         |
|                      |                                    | Width    | mm        | 2,238            |           |         |        |        |         |
|                      |                                    | Depth    | mm        | 12,280           |           | 13,360  |        |        |         |
|                      |                                    |          |           |                  |           |         |        |        |         |
| Weight               | Unit                               | kg       |           | 8,918            | 9,775     | 10,256  | 10,925 |        |         |
|                      | Operation weight                   |          | kg        | 9,640            | 10,966    | 11,457  | 12,141 | 12,156 |         |
| Air heat exchanger   | Type                               |          |           | Microchannel     |           |         |        |        |         |
| Compressor           | Type                               |          |           | Screw compressor |           |         |        |        |         |
|                      | Quantity                           |          |           | 2                |           |         |        |        |         |
| Fan                  | Type                               |          |           | Direct propeller |           |         |        |        |         |
|                      | Quantity                           |          |           | 22               |           | 24      |        |        |         |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s              |           | 103,868 |        |        | 113,320 |
|                      |                                    |          |           |                  |           |         |        |        |         |
| Sound power level    | Cooling                            | Nom.     | dBA       | 94.5             | 96.4      | 95.4    | 92.6   | 93.1   |         |
| Sound pressure level | Cooling                            | Nom.     | dBA       | 71.7             | 73.5      | 72.2    | 69.5   | 70     |         |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB             | -20 ~42   |         |        |        |         |
| Refrigerant          | Type/GWP                           |          |           | R-134a/630       |           |         |        |        |         |
|                      | Charge                             |          |           | kg               | 165       | 180     | 190    | 205    | 220     |
|                      | Circuits                           | Quantity |           | 2                |           |         |        |        |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           | 219.1mm          | 273mm     |         |        |        |         |
| Unit                 | Starting current                   | Max      |           | A                | 0         |         |        |        |         |
|                      | Running current                    | Max      |           | A                | 845       | 893     | 951    | 1,039  | 1,135   |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V             | 3~/50/400 |         |        |        |         |

# Air cooled scroll chiller, standard efficiency, standard/low sound

- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimize the overall chiller power input



EWAT-B-SSB



EWAT-B-SLB

| Cooling Only               |                                    |          |      | EWAT-B-SSB/SLB |                      | 085    | 115    | 135    | 155    | 175    | 195    | 205    | 215 |
|----------------------------|------------------------------------|----------|------|----------------|----------------------|--------|--------|--------|--------|--------|--------|--------|-----|
| Space cooling              | A Condition Pdc 35°C               |          |      | kW             | 80.92                | 108.97 | 131.42 | 158.15 | 174.93 | 191.39 | 210.53 | 217.08 |     |
|                            | ηs,c                               |          |      | %              | 161                  | 173    | 161    |        | 176.2  | 170.6  | 173    | 161    |     |
|                            | ηs,c + VFDFAN                      |          |      | %              | -                    |        |        |        |        |        |        |        |     |
| SEER + VFDFAN              |                                    |          |      |                | 4.1                  | 4.4    | 4.1    |        | 4.48   | 4.34   | 4.4    | 4.1    |     |
| SEER                       |                                    |          |      |                | -                    |        |        |        |        |        |        |        |     |
| Cooling capacity           | Nom.                               |          |      | kW             | 81                   | 109    | 131    | 158    | 175    | 191    | 211    | 217    |     |
| Power input                | Cooling                            | Nom.     |      | kW             | 31.8                 | 38.5   | 49.8   | 61.9   | 67.8   | 69.5   | 80     | 85.8   |     |
| Capacity control           | Method                             |          |      |                | Step                 |        |        |        |        |        |        |        |     |
|                            | Minimum capacity                   |          |      | %              | 50                   | 38     | 50     | 25     | 38     | 21     | 19     | 50     |     |
| EER                        |                                    |          |      |                | 2.55                 | 2.83   | 2.64   | 2.55   | 2.58   | 2.75   | 2.63   | 2.53   |     |
| IPLV + VFDFAN              |                                    |          |      |                | 4.75                 | 4.83   | 4.67   | 4.76   | 4.81   | 4.84   | 4.86   | 4.7    |     |
| EER + VFDFAN               |                                    |          |      |                | -                    |        |        |        |        |        |        |        |     |
| IPLV                       |                                    |          |      |                | -                    |        |        |        |        |        |        |        |     |
| Dimensions                 | Unit                               | Height   | mm   | 1,801          |                      |        | 1,822  |        | 1,801  | 1,822  |        |        |     |
|                            |                                    | Width    | mm   | 1,204          |                      |        |        |        |        |        |        |        |     |
|                            |                                    | Length   | mm   | 2,110          | 2,650                |        | 3,570  | 3,170  | 4,170  |        | 3,770  |        |     |
| Weight (SSB)               | Unit                               |          |      | kg             | 681                  | 767    | 811    | 1,007  | 984    | 1,166  | 1,158  | 1,184  |     |
|                            | Operation weight                   |          |      | kg             | 686                  | 773    | 821    | 1,014  | 996    | 1,177  | 1,169  | 1,200  |     |
| Weight (SLB)               | Unit                               |          |      | kg             | 691                  | 777    | 820    | 1,028  | 994    | 1,187  | 1,179  | 1,194  |     |
|                            | Operation weight                   |          |      | kg             | 696                  | 783    | 830    | 1,035  | 1,006  | 1,198  | 1,190  | 1,210  |     |
| Water heat exchanger       | Type                               |          |      |                | Plate Heat Exchanger |        |        |        |        |        |        |        |     |
|                            | Water volume                       |          |      | l              | 5                    | 6      | 9      | 7      | 12     | 11     |        | 16     |     |
|                            | Water flow rate                    | Cooling  | Nom. | l/s            | 3.9                  | 5.2    | 6.3    | 7.6    | 8.4    | 9.1    | 10.1   | 10.4   |     |
|                            | Water pressure drop                | Cooling  | Nom. | kPa            | 27.3                 | 34.4   | 26.5   | 64.2   | 41.7   | 45.9   | 54.4   | 41.4   |     |
| Air heat exchanger         | Type                               |          |      |                | Microchannel         |        |        |        |        |        |        |        |     |
| Compressor                 | Type                               |          |      |                | Scroll compressor    |        |        |        |        |        |        |        |     |
|                            | Quantity                           |          |      |                | 2                    |        |        | 4      | 2      | 4      |        | 2      |     |
| Fan                        | Type                               |          |      |                | Direct propeller     |        |        |        |        |        |        |        |     |
|                            | Quantity                           |          |      |                | 4                    | 6      |        | 8      |        | 10     |        |        |     |
|                            | Air flow rate                      | Nom.     |      | l/s            | 6,022                | 9,036  |        | 13,354 | 12,023 | 16,710 |        | 15,057 |     |
|                            | Speed                              |          |      | rpm            | 1,360                |        |        |        |        |        |        |        |     |
| Sound power level (SSB)    | Cooling                            | Nom.     |      | dBA            | 84.8                 | 88.2   | 89.7   | 87.8   | 91.8   | 89.9   | 90.9   | 93.2   |     |
| Sound power level (SLB)    | Cooling                            | Nom.     |      | dBA            | 83.7                 | 86.2   | 87     | 86.7   | 88.8   | 88.1   | 88.7   | 90     |     |
| Sound pressure level (SSB) | Cooling                            | Nom.     |      | dBA            | 67.4                 | 70.5   | 72     | 69.5   | 73.8   | 71.3   | 72.3   | 74.8   |     |
| Sound pressure level (SLB) | Cooling                            | Nom.     |      | dBA            | 66.3                 | 68.5   | 69.3   | 68.4   | 70.7   | 69.5   | 70.1   | 71.6   |     |
| Refrigerant                | Type/GWP                           |          |      |                | R-32/675             |        |        |        |        |        |        |        |     |
|                            | Charge                             |          |      | kg             | 7.5                  | 8.5    |        | 13     | 11     | 14.5   |        | 13     |     |
|                            | Circuits                           | Quantity |      |                | 1                    |        |        | 2      | 1      | 2      |        | 1      |     |
| Piping connections         | Evaporator water inlet/outlet (OD) |          |      | mm             | 76.1                 |        |        | 88.9   | 76.1   | 88.9   |        | 76.1   |     |
| Unit                       | Starting current                   | Max      |      | A              | 213                  | 313    | 324    | 284    | 462    | 384    | 395    | 498    |     |
|                            | Running current                    | Cooling  | Nom. | A              | 59                   | 69     | 83     | 108    | 113    | 117    | 131    | 142    |     |
|                            |                                    | Max      |      | A              | 73                   | 86     | 96     | 143    | 132    | 156    | 167    | 168    |     |
| Power supply               | Phase/Frequency                    |          |      | Hz             | 3~/50                |        |        |        |        |        |        |        |     |



# Air cooled scroll chiller, standard efficiency, reduced sound

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimize the overall chiller power input



EWAT-B-SRB

| Cooling Only         |                                    |          |      | EWAT-B-SRB | 085   | 115   | 135    | 155                  | 175    | 195    | 205    | 215    |
|----------------------|------------------------------------|----------|------|------------|-------|-------|--------|----------------------|--------|--------|--------|--------|
| Space cooling        | A Condition                        | Pdc      |      | kW         | 76.49 | 105   | 123.88 | 150.13               | 164.87 | 181.31 | 200.51 | 203.5  |
|                      | ηs,c                               |          |      | %          | 161   | 173   | 161    | 166.2                | 162.2  | 167.8  | 161    |        |
| SEER                 |                                    |          |      |            | 4.1   | 4.4   | 4.1    | 4.23                 | 4.13   | 4.27   | 4.1    |        |
| Cooling capacity     | Nom.                               |          |      | kW         | 76    | 105   | 124    | 150                  | 165    | 181    | 201    | 204    |
| Power input          | Cooling                            | Nom.     |      | kW         | 33.7  | 40.3  | 53     | 65.9                 | 73     | 73.2   | 84.6   | 91.9   |
| Capacity control     | Method                             |          |      |            |       |       |        |                      |        |        |        |        |
|                      | Minimum capacity                   |          |      | %          | 50    | 38    | 50     | 25                   | 38     | 21     | 19     | 50     |
| EER                  |                                    |          |      |            | 2.27  | 2.61  | 2.34   | 2.28                 | 2.26   | 2.48   | 2.37   | 2.21   |
| IPLV                 |                                    |          |      |            | 4.71  | 4.84  | 4.63   | 4.62                 | 4.84   | 4.64   | 4.91   | 4.66   |
| Dimensions           | Unit                               | Height   |      | mm         |       | 1,801 |        | 1,822                | 1,801  |        | 1,822  |        |
|                      |                                    | Width    |      | mm         |       |       |        | 1,204                |        |        |        |        |
|                      |                                    | Length   |      | mm         | 2,110 | 2,650 |        | 3,570                | 3,170  | 4,170  |        | 3,770  |
| Weight               | Unit                               |          |      | kg         | 691   | 777   | 821    | 1,028                | 994    | 1,187  | 1,179  | 1,194  |
|                      | Operation weight                   |          |      | kg         | 696   | 783   | 830    | 1,035                | 1,006  | 1,198  | 1,190  | 1,210  |
| Water heat exchanger | Type                               |          |      |            |       |       |        | Plate Heat Exchanger |        |        |        |        |
|                      | Water volume                       |          |      | l          | 5     | 6     | 9      | 7                    | 12     | 11     |        | 16     |
|                      | Water flow rate                    | Cooling  | Nom. | l/s        | 3.7   | 5     | 5.9    | 7.2                  | 7.9    | 8.7    | 9.6    | 9.7    |
|                      | Water pressure drop                | Cooling  | Nom. | kPa        | 24.6  | 32.2  | 23.8   | 58.5                 | 37.5   | 41.6   | 49.9   | 36.8   |
| Air heat exchanger   | Type                               |          |      |            |       |       |        | Microchannel         |        |        |        |        |
| Compressor           | Type                               |          |      |            |       |       |        | Scroll compressor    |        |        |        |        |
|                      | Quantity                           |          |      |            |       | 2     |        | 4                    | 2      | 4      |        | 2      |
| Fan                  | Type                               |          |      |            |       |       |        | Direct propeller     |        |        |        |        |
|                      | Quantity                           |          |      |            |       | 4     | 6      | 8                    |        | 10     |        |        |
|                      | Air flow rate                      | Nom.     |      | l/s        | 4,929 | 7,396 |        | 11,352               | 9,838  | 14,202 |        | 12,325 |
|                      | Speed                              |          |      | rpm        |       |       |        | 1,200                |        |        |        |        |
| Sound power level    | Cooling                            | Nom.     |      | dBA        | 77    | 82.5  | 84.1   | 81.6                 | 86.3   | 83.9   | 85.2   | 87.8   |
| Sound pressure level | Cooling                            | Nom.     |      | dBA        | 61.2  | 64.7  | 66.4   | 63.3                 | 68.3   | 65.3   | 66.6   | 69.4   |
| Refrigerant          | Type/GWP                           |          |      |            |       |       |        | R-32/675             |        |        |        |        |
|                      | Charge                             |          |      | kg         | 7.5   | 8.5   |        | 13                   | 11     | 14.5   |        | 13     |
|                      | Circuits                           | Quantity |      |            |       | 1     |        | 2                    | 1      | 2      |        | 1      |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |      | mm         |       | 76.1  |        | 88.9                 | 76.1   | 88.9   |        | 76.1   |
| Unit                 | Starting current                   | Max      |      | A          | 213   | 313   | 324    | 284                  | 462    | 384    | 395    | 498    |
|                      | Running current                    | Cooling  | Nom. | A          | 62    | 71    | 87     | 115                  | 119    | 123    | 139    | 151    |
|                      |                                    | Max      |      | A          | 73    | 86    | 96     | 143                  | 132    | 156    | 167    | 168    |
| Power supply         | Phase/Frequency                    |          |      | Hz         |       |       |        | 3~/50                |        |        |        |        |

# Air cooled scroll chiller, high efficiency, standard/low sound

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimize the overall chiller power input

| Cooling Only               |                                    |         |      | EWAT-B-XSB/XLB |                   | 085    | 115    | 145    | 180    | 185    | 200    | 220    | 230    | 250    | 280 |
|----------------------------|------------------------------------|---------|------|----------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| Space cooling              | A Condition Pdc                    |         |      | kW             | 87.9              | 113.89 | 143.48 | 179.01 | 182.67 | 200.92 | 226.26 | 238.95 | 254.88 | 281.64 |     |
|                            | ηs,c                               |         |      | %              | 167               | 183    | 175    | -      | 175.8  | 173    | 177    | 169.4  | 175.8  | 180.6  |     |
|                            | ηs,c + VFDFAN                      |         |      | %              | -                 |        |        | 181.8  | -      | 176.2  | 184.2  | 174.6  | 184.2  | 188.6  |     |
| SEER                       |                                    |         |      |                | 4.25              | 4.65   | 4.45   | 4.62   | 4.47   | 4.48   | 4.5    | 4.31   | 4.47   | 4.59   |     |
| SEER + VFDFAN              |                                    |         |      |                | -                 |        |        | 4.38   | -      | 4.40   | 4.68   | 4.44   | 4.68   | 4.79   |     |
| Cooling capacity           | Nom.                               |         |      | kW             | 88                | 114    | 143    | 179    | 183    | 201    | 226    | 239    | 255    | 282    |     |
| Power input                | Cooling                            | Nom.    |      | kW             | 28.8              | 36.6   | 44.4   | 57     | 63.6   | 65.7   | 74.7   | 74.6   | 81.7   | 87.9   |     |
| Capacity control           | Method                             |         |      |                | Step              |        |        |        |        |        |        |        |        |        |     |
|                            | Minimum capacity                   |         |      | %              | 50                | 38     | 50     | 25     | 38     | 21     | 19     | 19     | 17     | 16     |     |
| EER                        |                                    |         |      |                | 3.05              | 3.12   | 3.23   | 3.14   | 2.87   | 3.06   | 3.03   | 3.21   | 3.12   | 3.2    |     |
| IPLV + VFDFAN              |                                    |         |      |                | 4.83              | 4.90   | 4.88   | 5.11   | 4.74   | 4.87   | 4.72   | 4.6    | 4.69   | 4.78   |     |
| EER + VFDFAN               |                                    |         |      |                | -                 |        |        | 3.13   | -      | 3.05   | 3.02   | 3.19   | 3.11   | 3.19   |     |
| IPLV                       |                                    |         |      |                | -                 |        |        | 4.65   | -      | 4.67   | 4.97   | 5      | 5.02   | 5.14   |     |
| Dimensions                 | Unit                               | Height  | mm   | 1,801          |                   | 1,822  | 2,540  | 1,822  | 2,540  |        |        |        |        |        |     |
|                            |                                    | Width   | mm   | 1,204          |                   |        | 2,224  | 1,204  | 2,224  |        |        |        |        |        |     |
|                            |                                    | Length  | mm   | 2,650          | 3,170             | 3,770  | 2,338  | 3,770  | 2,338  |        | 3,230  | 3,247  |        |        |     |
| Weight (XSB)               | Unit                               |         |      | kg             | 737               | 830    | 949    | 1,633  | 1,066  | 1,663  | 1,699  | 2,014  | 1,987  | 2,128  |     |
|                            | Operation weight                   |         |      | kg             | 742               | 836    | 958    | 1,644  | 1,078  | 1,674  | 1,710  | 2,030  | 2,001  | 2,147  |     |
| Weight (XLB)               | Unit                               |         |      | kg             | 747               | 840    | 959    | 1,736  | 1,076  | 1,766  | 1,802  | 2,082  | 2,090  | 2,231  |     |
|                            | Operation weight                   |         |      | kg             | 752               | 846    | 968    | 1,747  | 1,088  | 1,777  | 1,813  | 2,098  | 2,104  | 2,250  |     |
| Water heat exchanger       | Type                               |         |      |                | Braze plate       |        |        |        |        |        |        |        |        |        |     |
|                            | Water volume                       |         |      | l              | 5                 | 6      | 9      | 11     | 12     | 11     |        | 16     | 14     | 19     |     |
|                            | Water flow rate                    | Cooling | Nom. | l/s            | 4.2               | 5.4    | 6.9    | 8.6    | 8.7    | 9.6    | 10.8   | 11.4   | 12.2   | 13.4   |     |
|                            | Water pressure drop                | Cooling | Nom. | kPa            | 31.6              | 37.3   | 31     | 40.7   | 45.1   | 50.1   | 43.7   | 49.2   | 54.2   | 39.8   |     |
| Air heat exchanger         | Type                               |         |      |                | Microchannel      |        |        |        |        |        |        |        |        |        |     |
| Compressor                 | Type                               |         |      |                | Scroll compressor |        |        |        |        |        |        |        |        |        |     |
|                            | Quantity                           |         |      |                | 2                 |        |        | 4      | 2      | 4      |        | 2      | 4      |        |     |
| Fan                        | Type                               |         |      |                | Direct propeller  |        |        |        |        |        |        |        |        |        |     |
|                            | Quantity                           |         |      |                | 6                 | 8      | 10     | 4      | 10     | 4      |        | 5      |        | 6      |     |
|                            | Air flow rate                      | Nom.    |      | l/s            | 9,036             | 12,023 | 15,057 | 20,306 | 15,057 | 20,306 |        | 25,382 |        | 30,459 |     |
|                            | Speed                              |         |      | rpm            | 1,360             |        |        | 900    | 1,360  | 900    |        |        |        |        |     |
| Sound power level (XSB)    | Cooling                            | Nom.    |      | dBA            | 86                | 88.8   | 90.5   | 91.2   | 92.1   | 92     | 92.7   | 94.8   | 93.8   | 94.6   |     |
| Sound power level (XLB)    | Cooling                            | Nom.    |      | dBA            | 85.2              | 87.1   | 88.5   | 90.6   | 89.3   | 90.6   | 90.7   | 91.8   | 91.7   | 92.5   |     |
| Sound pressure level (XSB) | Cooling                            | Nom.    |      | dBA            | 68.3              | 70.8   | 72.2   | 72.3   | 73.7   | 73.1   | 73.7   | 75.3   | 74.3   | 75.1   |     |
| Sound pressure level (XLB) | Cooling                            | Nom.    |      | dBA            | 67.5              | 69.1   | 70.1   | 71.6   | 70.9   | 71.7   |        | 72.3   | 72.2   | 73     |     |
| Refrigerant                | Type/GWP                           |         |      |                | R-32/675          |        |        |        |        |        |        |        |        |        |     |
|                            | Charge                             |         |      | kg             | 9                 | 10     | 11     | 20     | 12     | 20     |        | 23.5   | 24     | 27.5   |     |
|                            | Circuits                           |         |      | Quantity       | 1                 |        |        | 2      | 1      | 2      |        | 1      | 2      |        |     |
| Piping connections         | Evaporator water inlet/outlet (OD) |         |      | mm             | 76.1              |        |        | 88.9   | 76.1   | 88.9   |        | 76.1   | 88.9   |        |     |
| Unit                       | Starting current                   | Max     |      | A              | 215               | 315    | 328    | 290    | 464    | 388    | 399    | 506    | 414    | 543    |     |
|                            | Running current                    | Cooling | Nom. | A              | 56                | 67     | 78     | 110    | 108    | 122    | 135    | 128    | 145    | 158    |     |
|                            | current                            | Max     |      | A              | 75                | 87     | 100    | 149    | 134    | 160    | 171    | 176    | 186    | 213    |     |
| Power supply               | Phase/Frequency                    |         |      | Hz             | 3~/50             |        |        |        |        |        |        |        |        |        |     |



EWAT-B-XSB



EWAT-B-XLB

| Cooling Only               |                                    |              |      | EWAT-B-XSB/XLB |                   | 300    | 310    | 320    | 360    | 370    | 430    | 470    | 540    | 600    | 660    | 700    |
|----------------------------|------------------------------------|--------------|------|----------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Space cooling              | A Condition Pdc                    |              |      | kW             | 304.64            | 305.17 | 326.28 | 351.74 | 371.72 | 424.99 | 472.32 | 538.3  | 609.11 | 662.39 | 704.37 |        |
|                            | 35°C                               |              |      |                |                   |        |        |        |        |        |        |        |        |        |        |        |
|                            | ηs,C                               |              |      | %              | 181               | 181    | 177    | 170.6  | 176.2  | 179.4  | 179    | 179.4  | 181.4  | 182.6  | 180.2  |        |
| ηs,C + VFDFAN              |                                    |              |      | %              | 190.2             | 184.6  | 178.2  | 181    | 179.8  | 182.6  | 179.8  | 187    |        | 190.6  |        |        |
| SEER                       |                                    |              |      |                | 4.6               |        | 4.5    | 4.34   | 4.48   | 4.56   | 4.55   | 4.56   | 4.61   | 4.64   | 4.58   |        |
| SEER + VFDFAN              |                                    |              |      |                | 4.83              | 4.69   | 4.53   | 4.6    | 4.57   | 6.64   | 4.57   | 4.75   |        | 4.84   |        |        |
| Cooling capacity           | Nom.                               |              |      | kW             | 305               |        | 326    | 352    | 372    | 425    | 472    | 538    | 609    | 662    | 704    |        |
| Power input                | Cooling                            | Nom.         |      | kW             | 97.3              | 97.4   | 106.8  | 113    | 121    | 137    | 153    | 175    | 195    | 211    | 227    |        |
| Capacity control           | Method                             |              |      |                | Step              |        |        |        |        |        |        |        |        |        |        |        |
|                            | Minimum capacity                   |              |      | %              | 24                | 14     | 22     | 33     | 19     | 17     | 25     | 14     | 12     | 11     | 17     |        |
| EER                        |                                    |              |      |                | 3.13              | 3.313  | 3.06   | 3.11   | 3.06   | 3.11   | 3.09   | 3.07   | 3.12   | 3.14   | 3.1    |        |
| IPLV + VFDFAN              |                                    |              |      |                | 4.86              | 4.77   | 4.79   | 4.38   | 4.7    | 4.8    | 4.9    | 4.8    | 4.79   | 4.82   | 4.77   |        |
| EER + VFDFAN               |                                    |              |      |                | 3.12              |        | 3.05   | 3.11   | 3.05   | 3.1    | 3.08   | 3.07   | 3.11   | 3.13   | 3.09   |        |
| IPLV                       |                                    |              |      |                | 4.95              | 4.93   | 4.97   | 4.96   | 4.95   | 4.92   | 4.71   | 5.05   | 5.08   | 5.12   | 5.1    |        |
| Dimensions                 | Unit                               | Height       |      | mm             | 2,540             |        |        |        |        |        |        |        |        |        |        |        |
|                            |                                    | Width        |      | mm             | 2,224             |        |        |        |        |        |        |        |        |        |        |        |
|                            |                                    | Length       |      | mm             | 3,247             |        |        | 4,147  | 4,135  |        | 5,034  |        | 5,888  | 6,795  |        |        |
| Weight (XSB)               | Unit                               |              | kg   | 2,226          | 2,159             | 2,196  | 2,639  | 2,698  | 2,785  | 3,228  | 3,448  | 3,900  | 4,294  | 4,436  |        |        |
|                            | Operation weight                   |              |      | kg             | 2,246             | 2,178  | 2,215  | 2,659  | 2,718  | 2,813  | 3,256  | 3,490  | 3,942  | 4,344  | 4,486  |        |
| Weight (XLB)               | Unit                               |              | kg   | 2,318          | 2,262             | 2,299  | 2,731  | 2,801  | 2,888  | 3,393  |        | 4,106  | 4,500  | 4,642  |        |        |
|                            | Operation weight                   |              |      | kg             | 2,338             | 2,281  | 2,318  | 2,751  | 2,821  | 2,916  | 3,421  |        | 4,148  | 4,550  | 4,692  |        |
| Water heat exchanger       | Type                               |              |      |                | Braze plate       |        |        |        |        |        |        |        |        |        |        |        |
|                            | Water volume                       |              |      | l              | 20                | 19     |        | 20     |        | 28     |        | 42     |        | 50     |        |        |
|                            | Water flow rate                    | Cooling      | Nom. | l/s            | 14.5              | 14.6   | 15.6   | 16.8   | 17.7   | 20.3   | 22.5   | 25.7   | 29.1   | 31.6   | 33.6   |        |
|                            | Water pressure                     | Cooling drop | Nom. | kPa            | 62.2              | 46.1   | 51.9   | 80.6   | 65.7   | 56.6   | 68.5   | 59.7   | 74.6   | 70.2   | 78.5   |        |
| Air heat exchanger         | Type                               |              |      |                | Microchannel      |        |        |        |        |        |        |        |        |        |        |        |
| Compressor                 | Type                               |              |      |                | Scroll compressor |        |        |        |        |        |        |        |        |        |        |        |
|                            | Quantity                           |              |      |                | 3                 | 4      |        | 3      | 4      |        |        | 5      | 6      |        |        |        |
| Fan                        | Type                               |              |      |                | Direct propeller  |        |        |        |        |        |        |        |        |        |        |        |
|                            | Quantity                           |              |      |                | 6                 |        |        | 7      |        | 8      | 9      | 10     | 12     | 13     | 14     |        |
|                            | Air flow rate                      |              |      | Nom.           | l/s               |        |        |        | 35,535 |        | 40,612 | 45,688 | 50,765 | 60,918 | 65,994 | 71,071 |
|                            | Speed                              |              |      | rpm            | 900               |        |        |        |        |        |        |        |        |        |        |        |
| Sound power level (XSB)    | Cooling                            | Nom.         |      | dB(A)          | 95.6              | 95     | 95.4   | 96.4   | 96.2   | 96.9   | 97.6   | 98     | 98.6   | 99     | 99.4   |        |
| Sound power level (XLB)    | Cooling                            | Nom.         |      | dB(A)          | 92.6              | 92.5   | 92.6   | 93.3   | 93.2   | 93.8   | 94.4   |        | 95.6   | 95.9   | 96.3   |        |
| Sound pressure level (XSB) | Cooling                            | Nom.         |      | dB(A)          | 76.1              | 75.5   | 75.9   | 76.4   | 76.3   | 77     | 77.2   | 77.6   | 77.8   | 77.9   | 78.3   |        |
| Sound pressure level (XLB) | Cooling                            | Nom.         |      | dB(A)          | 73.1              | 73     | 73.1   | 73.3   |        | 73.9   | 74     |        | 74.8   |        | 75.2   |        |
| Refrigerant                | Type/GWP                           |              |      |                | R-32/675          |        |        |        |        |        |        |        |        |        |        |        |
|                            | Charge                             |              |      | kg             | 28                |        | 27.5   |        | 32     | 31     | 36     | 43.5   | 49     | 55     | 60     | 66     |
|                            | Circuits                           | Quantity     |      |                | 1                 | 2      |        | 1      |        | 2      |        |        |        |        |        |        |
| Piping connections         | Evaporator water inlet/outlet (OD) |              |      | mm             | 76.1              | 88.9   |        | 76.1   | 88.9   |        |        | 114.3  |        |        |        |        |
| Unit                       | Starting current                   | Max          |      | A              | 554               |        | 564    | 592    | 602    | 640    | 678    | 727    | 779    | 817    | 855    |        |
|                            | Running current                    | Cooling      | Nom. | A              | 168               | 170    | 183    | 192    | 208    | 234    | 259    | 298    | 334    | 360    | 387    |        |
|                            | Max                                |              |      | A              | 224               |        | 235    | 262    | 273    | 311    | 348    | 397    | 449    | 487    | 525    |        |
| Power supply               | Phase/Frequency                    |              |      | Hz             | 3~/50             |        |        |        |        |        |        |        |        |        |        |        |



# Air cooled scroll chiller, high efficiency, reduced sound

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimise condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimise the overall chiller power input

| Cooling Only         |                                    |          |      | EWAT-B-XRB | 085                  | 115    | 145    | 180    | 185    | 200    | 220    | 230    | 250    | 280    |
|----------------------|------------------------------------|----------|------|------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Space cooling        | A Condition Pdc                    |          |      | kW         | 81.86                | 108.59 | 135.62 | 168.03 | 166.16 | 187.56 | 208.44 | 224.52 | 238.22 | 264.73 |
|                      | 35°C ηs,c                          |          |      | %          | 150.6                | 179.4  | 166.6  | 177    | 164.6  | 186.6  | 179    | 169    | 177    | 186.6  |
| SEER                 |                                    |          |      |            | 4.13                 | 4.56   | 4.24   | 4.5    | 4.19   | 4.74   | 4.55   | 4.3    | 4.5    | 4.74   |
| Cooling capacity     | Nom.                               |          |      | kW         | 82                   | 109    | 136    | 168    | 166    | 188    | 208    | 225    | 238    | 265    |
| Power input          | Cooling Nom.                       |          |      | kW         | 30.8                 | 38.9   | 46.9   | 59.1   | 70.5   | 69.8   | 80.7   | 79.2   | 87.3   | 92.2   |
| Capacity control     | Method                             |          |      |            | Step                 |        |        |        |        |        |        |        |        |        |
|                      | Minimum capacity                   |          |      | %          | 50                   | 38     | 50     | 25     | 38     | 21     | 19     | 50     | 17     | 16     |
| EER                  |                                    |          |      |            | 2.66                 | 2.79   | 2.89   | 2.84   | 2.36   | 2.69   | 2.58   | 2.84   | 2.73   | 2.87   |
| IPLV                 |                                    |          |      |            | 4.74                 | 4.91   | 4.70   | 5.04   | 4.72   | 5.05   | 4.97   | 4.86   | 4.91   | 5.08   |
| Dimensions           | Unit                               | Height   | mm   | 1,801      |                      | 1,822  |        | 2,540  |        | 1,822  |        | 2,540  |        |        |
|                      |                                    | Width    | mm   | 1,204      |                      |        |        | 2,224  |        | 1,204  |        | 2,224  |        |        |
|                      |                                    | Length   | mm   | 2,650      | 3,170                | 3,770  |        | 2,338  |        | 3,770  |        | 2,338  |        | 3,230  |
| Weight               | Unit                               |          |      | kg         | 747                  | 840    | 959    | 1,736  | 1,076  | 1,776  | 1,802  | 2,082  | 2,090  | 2,231  |
|                      | Operation weight                   |          |      | kg         | 752                  | 846    | 968    | 1,747  | 1,088  | 1,777  | 1,813  | 2,098  | 2,104  | 2,250  |
| Water heat exchanger | Type                               |          |      |            | Plate Heat Exchanger |        |        |        |        |        |        |        |        |        |
|                      | Water volume                       |          |      | l          | 5                    | 6      | 9      | 11     | 12     | 11     |        | 16     | 14     | 19     |
|                      | Water flow rate                    | Cooling  | Nom. | l/s        | 3.9                  | 5.2    | 6.5    | 8      | 7.9    | 9      | 10     | 10.7   | 11.4   | 12.6   |
|                      | Water pressure drop                | Cooling  | Nom. | kPa        | 27.8                 | 34.2   | 28     | 36.3   | 38     | 44.2   | 37.7   | 44     | 48.2   | 35.6   |
| Air heat exchanger   | Type                               |          |      |            | Microchannel         |        |        |        |        |        |        |        |        |        |
| Compressor           | Type                               |          |      |            | Scroll compressor    |        |        |        |        |        |        |        |        |        |
|                      | Quantity                           |          |      |            | 2                    |        |        | 4      | 2      | 4      |        | 2      | 4      |        |
| Fan                  | Type                               |          |      |            | Direct propeller     |        |        |        |        |        |        |        |        |        |
|                      | Quantity                           |          |      |            | 6                    | 8      | 10     | 4      | 10     | 4      |        | 5      |        | 6      |
|                      | Air flow rate                      | Nom.     |      | l/s        | 6,673                | 8,896  | 11,122 | 15,054 | 11,122 | 15,054 |        | 18,819 | 18,818 | 22,582 |
|                      | Speed                              |          |      | rpm        | 1,108                |        |        | 700    | 1,108  | 700    |        |        |        |        |
| Sound power level    | Cooling                            | Nom.     |      | dBA        | 77.9                 | 81.9   | 84     | 84.2   | 86     | 84.5   | 84.8   | 86.2   | 85.8   | 86.6   |
| Sound pressure level | Cooling                            | Nom.     |      | dBA        | 60.2                 | 63.9   | 65.6   | 65.3   | 67.7   | 65.5   | 65.8   | 66.7   | 66.3   | 67.1   |
| Refrigerant          | Type/GWP                           |          |      |            | R-32/675             |        |        |        |        |        |        |        |        |        |
|                      | Charge                             |          |      | kg         | 9                    | 10     | 11     | 12     | 20     |        |        | 23.5   | 24     | 27.5   |
|                      | Circuits                           | Quantity |      |            | 1                    |        |        | 2      | 1      | 2      |        | 1      | 2      |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |      | mm         | 76.1                 |        |        | 88.9   | 76.1   | 88.9   |        | 76.1   | 88.9   |        |
| Unit                 | Starting current                   | Max      |      | A          | 215                  | 315    | 328    | 290    | 464    | 388    | 399    | 506    | 414    | 543    |
|                      | Running current                    | Cooling  | Nom. | A          | 59                   | 71     | 83     | 113    | 118    | 128    | 143    | 134    | 151    | 164    |
|                      | current                            | Max      |      | A          | 75                   | 87     | 100    | 149    | 134    | 160    | 171    | 176    | 186    | 213    |
| Power supply         | Phase/Frequency                    |          |      | Hz         | 3~/50                |        |        |        |        |        |        |        |        |        |



EWAT-B-XRB

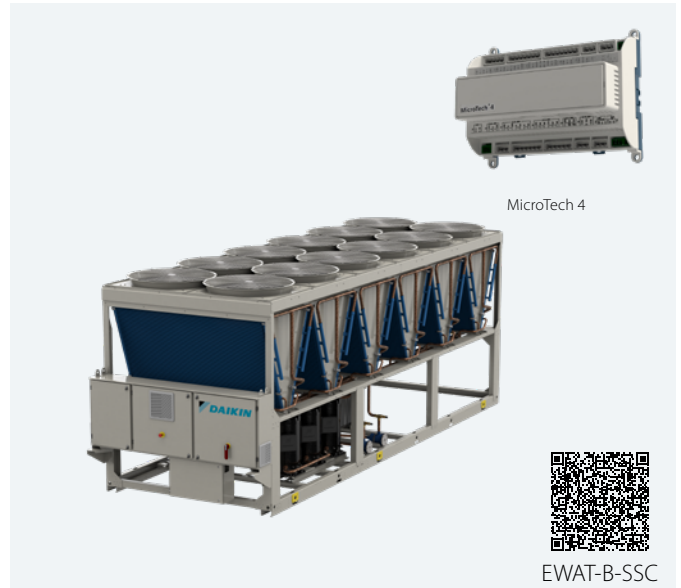
| Cooling Only         |                                    |          |      | EWAT-B-XRB | 300                  | 310    | 320    | 360    | 370    | 430    | 470    | 540    | 600    | 660    | 700    |  |
|----------------------|------------------------------------|----------|------|------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Space cooling        | A Condition                        | Pdc      |      | kW         | 284.94               | 284.65 | 301.84 | 328.88 | 346.48 | 394.41 | 439.5  | 501.51 | 571.63 | 621.1  | 659.28 |  |
|                      | 35°C                               |          |      | %          | 185.8                | 183    | 173.8  | 180.6  | 176.2  | 181.8  | 179    | 183    | 187.4  |        | 185.4  |  |
| SEER                 |                                    |          |      |            | 4.72                 | 4.65   | 4.42   | 4.59   | 4.48   | 4.62   | 4.55   | 4.65   | 4.76   |        | 4.71   |  |
| Cooling capacity     | Nom.                               |          |      | kW         | 285                  |        | 302    | 329    | 346    | 394    | 440    | 502    | 572    | 621    | 659    |  |
| Power input          | Cooling                            | Nom.     |      | kW         | 105                  | 103    | 115    | 121    | 130    | 147    | 163    | 190    | 207    | 224    | 242    |  |
| Capacity control     | Method                             |          |      |            | Step                 |        |        |        |        |        |        |        |        |        |        |  |
|                      | Minimum capacity                   |          |      | %          | 24                   | 14     | 22     | 33     | 19     | 17     | 25     | 14     | 12     | 11     | 17     |  |
| EER                  |                                    |          |      |            | 2.72                 | 2.76   | 2.63   | 2.71   | 2.67   | 2.69   |        | 2.64   | 2.76   | 2.77   | 2.72   |  |
| IPLV                 |                                    |          |      |            | 4.78                 | 4.94   | 4.62   | 5.04   | 4.95   | 4.88   | 4.72   | 4.96   | 5.04   | 5.07   | 5.08   |  |
| Dimensions           | Unit                               | Height   |      | mm         | 2,540                |        |        |        |        |        |        |        |        |        |        |  |
|                      |                                    | Width    |      | mm         | 2,224                |        |        |        |        |        |        |        |        |        |        |  |
|                      |                                    | Length   |      | mm         | 3,230                | 3,247  |        | 4,147  | 4,135  |        | 5,034  |        | 5,888  | 6,795  |        |  |
| Weight               | Unit                               |          |      | kg         | 2,318                | 2,262  | 2,299  | 2,731  | 2,801  | 2,888  | 3,393  | 3,633  | 4,106  | 4,500  | 4,642  |  |
|                      | Operation weight                   |          |      | kg         | 2,338                | 2,281  | 2,318  | 2,751  | 2,821  | 2,916  | 3,421  | 3,675  | 4,148  | 4,550  | 4,692  |  |
| Water heat exchanger | Type                               |          |      |            | Plate Heat Exchanger |        |        |        |        |        |        |        |        |        |        |  |
|                      | Water volume                       |          |      | l          | 20                   | 19     |        | 20     |        | 28     |        | 42     |        | 50     |        |  |
|                      | Water flow rate                    | Cooling  | Nom. | l/s        | 13.6                 |        | 14.4   | 15.7   | 16.5   | 18.8   | 21     | 23.9   | 27.3   | 29.6   | 31.5   |  |
|                      | Water pressure drop                | Cooling  | Nom. | kPa        | 55.1                 | 40.6   | 45.1   | 71.4   | 57.9   | 49.5   | 60.2   | 52.5   | 66.5   | 62.6   | 69.7   |  |
| Air heat exchanger   | Type                               |          |      |            | Microchannel         |        |        |        |        |        |        |        |        |        |        |  |
| Compressor           | Type                               |          |      |            | Scroll compressor    |        |        |        |        |        |        |        |        |        |        |  |
|                      | Quantity                           |          |      |            | 3                    | 4      |        | 3      | 4      |        |        | 5      | 6      |        |        |  |
| Fan                  | Type                               |          |      |            | Direct propeller     |        |        |        |        |        |        |        |        |        |        |  |
|                      | Quantity                           |          |      |            |                      |        |        | 7      |        | 8      | 9      | 10     | 12     | 13     | 14     |  |
|                      | Air flow rate                      | Nom.     |      | l/s        |                      |        |        | 26,346 |        | 30,110 | 33,874 | 37,637 | 45,164 | 48,928 | 52,692 |  |
|                      | Speed                              |          |      | rpm        | 700                  |        |        |        |        |        |        |        |        |        |        |  |
| Sound power level    | Cooling                            | Nom.     |      | dBA        | 87                   | 86.7   | 86.9   | 87.7   | 87.6   | 88.3   | 88.9   | 89.3   | 90     | 90.4   | 90.7   |  |
| Sound pressure level | Cooling                            | Nom.     |      | dBA        | 67.5                 | 67.2   | 67.4   | 67.8   | 67.7   | 68.3   | 68.5   | 68.9   | 69.2   | 69.3   | 69.6   |  |
| Refrigerant          | Type/GWP                           |          |      |            | R-32/675             |        |        |        |        |        |        |        |        |        |        |  |
|                      | Charge                             |          |      | kg         | 28                   |        | 27.5   | 32     | 31     | 36     | 43.5   | 49     | 55     | 60     | 66     |  |
|                      | Circuits                           | Quantity |      |            | 1                    | 2      |        | 1      | 2      |        |        |        |        |        |        |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |      | mm         | 76.1                 | 88.9   |        | 76.1   | 88.9   |        |        | 114.3  |        |        |        |  |
| Unit                 | Starting current                   | Max      |      | A          | 554                  |        | 564    | 592    | 602    | 640    | 678    | 727    | 779    | 817    | 855    |  |
|                      | Running current                    | Cooling  | Nom. | A          | 177                  | 179    | 194    | 204    | 221    | 250    | 276    | 319    | 352    | 381    | 410    |  |
|                      |                                    | Max      |      | A          | 224                  |        | 235    | 262    | 273    | 311    | 348    | 397    | 449    | 487    | 525    |  |
| Power supply         | Phase/Frequency                    |          |      | Hz         | 3~/50                |        |        |        |        |        |        |        |        |        |        |  |

# Air cooled scroll compressor chiller

## Gold efficiency

## Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Performance monitoring;
- New Daikin MicroTech 4 controller.



| Cooling Only         |                                    |                  |           | EWAT-B-SS | 310               | 320    | 350    | 380    | 430    | 480    | 570    |         |
|----------------------|------------------------------------|------------------|-----------|-----------|-------------------|--------|--------|--------|--------|--------|--------|---------|
| Space cooling        | A Condition 35°C Pdc               |                  |           | kW        | 305.92            | 317.98 | 345.59 | 381.40 | 426.61 | 477.56 | 567.34 |         |
|                      | ηs,c                               |                  |           | %         | 184.6             | 177.7  | 181.2  | 183.0  | 184.9  | 183.0  | 190.4  |         |
| SEER                 |                                    |                  |           |           | 4.689             | 4.517  | 4.604  | 4.649  | 4.698  | 4.649  | 4.834  |         |
| Cooling capacity     | Nom.                               |                  |           | kW        | 305.92            | 317.98 | 345.59 | 381.40 | 426.61 | 477.56 | 567.34 |         |
| Power input          | Cooling                            |                  |           | kW        | 106.6             | 115.0  | 130.0  | 125.2  | 148.6  | 176.0  | 185.5  |         |
| Capacity control     | Method                             |                  |           |           | Step              |        |        |        |        |        |        |         |
|                      | Minimum capacity                   |                  |           | %         | 22                | 21     | 19     | 18     | 16     | 14     | 22     |         |
| EER                  |                                    |                  |           |           | 2.869             | 2.764  | 2.658  | 3.046  | 2.871  | 2.714  | 3.058  |         |
| IPLV                 |                                    |                  |           |           | 4.948             | 4.794  | 4.948  | 4.849  | 4.907  | 4.940  | 5.062  |         |
| Dimensions           | Unit                               | Height           |           | mm        | 2,535             |        |        |        |        |        |        |         |
|                      |                                    | Width            |           | mm        | 2,238             |        |        |        |        |        |        |         |
|                      |                                    | Depth            |           | mm        | 2,510             |        |        |        | 3,590  |        |        | 4,670   |
| Weight               | Unit                               |                  |           | kg        | 2,080             | 2,120  | 2,200  | 2,620  | 2,800  | 2,920  | 3,500  |         |
|                      | Operation weight                   |                  |           | kg        | 2,099             | 2,146  | 2,228  | 2,646  | 2,837  | 2,960  | 3,555  |         |
| Air heat exchanger   | Type                               |                  |           |           | Microchannel      |        |        |        |        |        |        |         |
| Compressor           | Type                               |                  |           |           | Scroll compressor |        |        |        |        |        |        |         |
| Fan                  | Quantity                           |                  |           |           | 3                 | 4      | 3      | 4      |        | 5      |        |         |
|                      | Type                               |                  |           |           | Direct propeller  |        |        |        |        |        |        |         |
|                      | Quantity                           |                  |           |           | 4                 |        |        |        | 6      |        |        | 8       |
| Air flow rate        | Cooling                            | Nom.             |           | l/s       | 25,490            | 25,500 | 25,490 | 38,240 |        |        | 50,980 |         |
|                      |                                    |                  |           | dBA       | 94.0              | 93.8   | 94.5   | 95.1   | 95.6   | 95.9   | 96.7   |         |
| Sound power level    | Cooling                            | Nom.             |           | dBA       | 74.9              | 74.7   | 75.5   | 75.4   | 75.9   | 76.2   | 76.5   |         |
| Sound pressure level | Cooling                            | Nom.             |           | dBA       | 74.9              | 74.7   | 75.5   | 75.4   | 75.9   | 76.2   | 76.5   |         |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB      | -20 ~52           |        |        |        |        |        |        |         |
| Refrigerant          | Type/GWP                           |                  |           |           | R-32/675          |        |        |        |        |        |        |         |
|                      | Charge                             |                  |           | kg        | 22.0              | 25.0   | 30.0   | 31.0   | 35.0   | 39.0   | 45.0   |         |
| Circuits             | Quantity                           |                  |           |           | 1                 | 2      | 1      | 2      |        |        |        |         |
|                      | Evaporator water inlet/outlet (OD) |                  |           |           | 88.9mm            |        |        |        |        |        |        | 139.7mm |
| Piping connections   | Unit                               | Starting current |           | Max       | A                 | 693    | 697    | 735    | 750    | 792    | 838    | 891     |
|                      | Running                            | Cooling          | Nom.      | A         | 186               | 200    | 224    | 222    | 260    | 304    | 329    |         |
|                      | current                            | Max              |           | A         | 245               | 249    | 287    | 302    | 344    | 390    | 443    |         |
| Power supply         | Phase/Frequency/Voltage            |                  |           | Hz/V      | 3~/50 /400        |        |        |        |        |        |        |         |

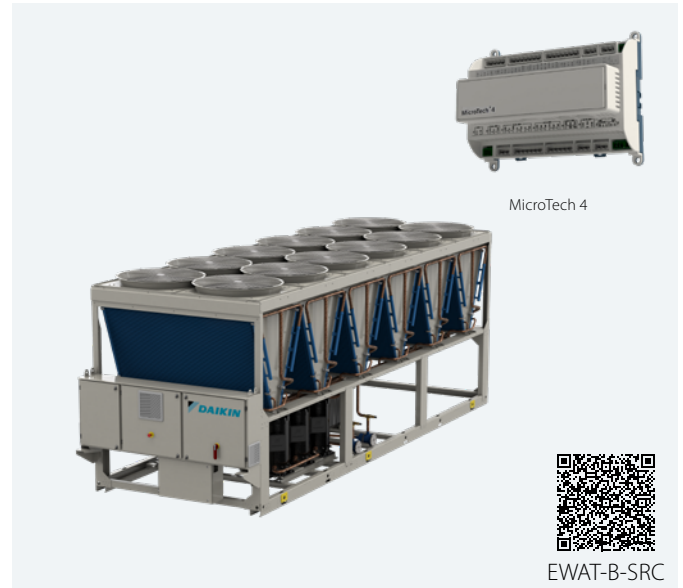
| Cooling Only         |                                    |                  |           | EWAT-B-SS | 620               | 670    | 730    | 790    | 860    | 960    |       |
|----------------------|------------------------------------|------------------|-----------|-----------|-------------------|--------|--------|--------|--------|--------|-------|
| Space cooling        | A Condition 35°C Pdc               |                  |           | kW        | 622.34            | 668.92 | 734.97 | 791.18 | 857.22 | 961.63 |       |
|                      | ηs,c                               |                  |           | %         | 188.9             | 188.1  | 190.4  | 190.8  | 192.6  | 189.0  |       |
| SEER                 |                                    |                  |           |           | 4.797             | 4.778  | 4.834  | 4.844  | 4.889  | 4.801  |       |
| Cooling capacity     | Nom.                               |                  |           | kW        | 622.34            | 668.92 | 734.97 | 791.18 | 857.22 | 961.63 |       |
| Power input          | Cooling                            |                  |           | kW        | 213.1             | 237.0  | 248.6  | 273.9  | 285.5  | 335.1  |       |
| Capacity control     | Method                             |                  |           |           | Step              |        |        |        |        |        |       |
|                      | Minimum capacity                   |                  |           | %         | 20                | 18     | 17     | 15     | 14     | 25     |       |
| EER                  |                                    |                  |           |           | 2.921             | 2.823  | 2.957  | 2.889  | 3.002  | 2.870  |       |
| IPLV                 |                                    |                  |           |           | 5.073             | 5.088  | 5.120  | 5.092  | 5.122  | 5.079  |       |
| Dimensions           | Unit                               | Height           |           | mm        | 2,535             |        |        |        |        |        |       |
|                      |                                    | Width            |           | mm        | 2,238             |        |        |        |        |        |       |
|                      |                                    | Depth            |           | mm        | 4,670             |        | 5,750  |        | 5,850  | 6,930  |       |
| Weight               | Unit                               |                  |           | kg        | 3,670             | 3,780  | 4,310  | 4,670  | 5,120  | 5,310  |       |
|                      | Operation weight                   |                  |           | kg        | 3,747             | 3,856  | 4,385  | 4,743  | 5,196  | 5,412  |       |
| Air heat exchanger   | Type                               |                  |           |           | Microchannel      |        |        |        |        |        |       |
| Compressor           | Type                               |                  |           |           | Scroll compressor |        |        |        |        |        |       |
| Fan                  | Quantity                           |                  |           |           | 6                 |        |        | 7      |        |        | 8     |
|                      | Type                               |                  |           |           | Direct propeller  |        |        |        |        |        |       |
|                      | Quantity                           |                  |           |           | 8                 |        | 10     |        | 12     |        |       |
| Air flow rate        | Cooling                            | Nom.             |           | l/s       | 50,980            |        | 63,730 |        | 76,480 |        |       |
|                      |                                    |                  |           | dBA       | 97.0              | 97.3   | 97.9   | 98.1   | 98.6   | 99.0   |       |
| Sound power level    | Cooling                            | Nom.             |           | dBA       | 76.7              | 77.0   | 77.2   | 77.4   | 77.5   | 77.8   |       |
| Sound pressure level | Cooling                            | Nom.             |           | dBA       | 76.7              | 77.0   | 77.2   | 77.4   | 77.5   | 77.8   |       |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB      | -20 ~52           |        |        |        |        |        |       |
| Refrigerant          | Type/GWP                           |                  |           |           | R-32/675          |        |        |        |        |        |       |
|                      | Charge                             |                  |           | kg        | 50.0              | 53.0   | 59.0   | 63.0   | 68.0   | 77.0   |       |
| Circuits             | Quantity                           |                  |           |           | 2                 |        |        |        |        |        |       |
|                      | Evaporator water inlet/outlet (OD) |                  |           |           | 139.7mm           |        |        |        |        |        |       |
| Piping connections   | Unit                               | Starting current |           | Max       | A                 | 936    | 979    | 1,032  | 1,079  | 1,132  | 1,220 |
|                      | Running                            | Cooling          | Nom.      | A         | 374               | 413    | 438    | 479    | 505    | 585    |       |
|                      | current                            | Max              |           | A         | 488               | 531    | 584    | 631    | 684    | 772    |       |
| Power supply         | Phase/Frequency/Voltage            |                  |           | Hz/V      | 3~/50 /400        |        |        |        |        |        |       |

# Air cooled scroll compressor chiller

## Gold efficiency

## Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Performance monitoring;
- New Daikin MicroTech 4 controller.



| Cooling Only         |                                    |         |           | EWAT     | 250B-SRC2         | 270B-SRC2 | 310B-SRC1 | 320B-SRC2 | 350B-SRC1 | 380B-SRC2 | 430B-SRC2 | 480B-SRC2 |
|----------------------|------------------------------------|---------|-----------|----------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Space cooling        | A Condition 35°C Pdc               |         |           | kW       | 240.1             | 259.9     | 297.62    | 308.38    | 334.14    | 373.60    | 415.25    | 463.29    |
|                      | ηs,c                               |         |           | %        | 201.4             | 187.4     | 197.5     | 185.0     | 189.2     | 192.8     | 193.5     | 193.1     |
| SEER                 |                                    |         |           |          | 5.11              | 4.76      | 5.013     | 4.700     | 4.806     | 4.895     | 4.913     | 4.902     |
| Cooling capacity     | Nom.                               |         |           | kW       | 240.1             | 259.9     | 297.62    | 308.38    | 334.14    | 373.60    | 415.25    | 463.29    |
| Power input          | Cooling                            | Nom.    |           | kW       | 83.45             | 93.89     | 108.0     | 117.1     | 133.5     | 124.4     | 149.9     | 179.2     |
| Capacity control     | Method                             |         |           |          | Step              |           |           |           |           |           |           |           |
|                      | Minimum capacity                   |         |           | %        | 17                | 25        | 22        | 21        | 19        | 18        | 16        | 14        |
| EER                  |                                    |         |           |          | 2.877             | 2.768     | 2.757     | 2.634     | 2.502     | 3.003     | 2.771     | 2.586     |
| IPLV                 |                                    |         |           |          | 5.54              | 5.34      | 5.485     | 4.999     | 5.319     | 5.324     | 5.339     | 5.382     |
| Dimensions           | Unit                               | Height  | Width     | mm       | 2,535             |           |           |           |           |           |           |           |
|                      |                                    |         |           |          | 2,238             |           |           |           |           |           |           |           |
|                      |                                    |         |           |          | 2,514             |           |           |           |           |           |           |           |
| Weight               | Unit                               | Height  | Width     | mm       | 2,514             |           |           |           | 3,594     |           |           |           |
|                      |                                    |         |           |          | Depth             | kg        | 2,107     | 2,151     | 2,076     | 2,206     | 2,200     | 2,618     |
| Operation weight     | kg                                 | 2,127   | 2,171     | 2,099    |                   |           |           |           |           |           |           |           |
| Air heat exchanger   | Type                               |         |           |          | Microchannel      |           |           |           |           |           |           |           |
| Compressor           | Type                               |         |           |          | Scroll compressor |           |           |           |           |           |           |           |
| Fan                  | Quantity                           |         |           |          | 4                 |           | 3         |           | 4         |           | 5         |           |
|                      | Type                               |         |           |          | Direct propeller  |           |           |           |           |           |           |           |
|                      | Quantity                           |         |           |          | 5                 |           | 6         |           | 4         |           | 6         |           |
| Sound power level    | Cooling                            | Nom.    | Nom.      | l/s      | 21,460            |           | 21,470    |           | 21,460    |           | 21,470    |           |
|                      |                                    |         |           |          | 88                |           | 87.9      |           | 87.8      |           | 88.1      |           |
| Sound pressure level | Cooling                            | Nom.    |           | dBA      | 68                | 69        | 68.8      |           | 69.0      |           | 69.8      | 70.0      |
| Operation range      | Air side                           | Cooling | Min.~Max. |          | °CDB              | -20 ~52   |           |           |           |           |           |           |
| Refrigerant          | Type/GWP                           |         |           |          | R-32/675          |           |           |           |           |           |           |           |
|                      | Charge                             |         |           | kg       | 18                |           | 22        |           | 25        |           | 30        |           |
|                      | Circuits                           |         |           | Quantity | 2                 |           | 1         |           | 2         |           | 1         |           |
| Piping connections   | Evaporator water inlet/outlet (OD) |         |           |          | 88.9mm            |           |           |           |           |           |           |           |
| Unit                 | Starting current                   |         |           | Max      | A                 | 464       | 482       | 693       | 697       | 735       | 750       | 838       |
|                      | Running                            |         |           | Cooling  | Nom.              | A         | 151       | 165       | 195       | 210       | 236       | 319       |
|                      | current                            |         |           | Max      | A                 | 199       | 216       | 245       | 249       | 287       | 302       | 390       |
| Power supply         | Phase/Frequency/Voltage            |         |           | Hz/V     | 3~/50/400         |           |           |           |           |           |           |           |

| Cooling Only         |                                    |          |           | EWAT | 570B-SRC2         | 620B-SRC2 | 670B-SRC2 | 730B-SRC2 | 790B-SRC2 | 860B-SRC2 | 960B-SRC2 |
|----------------------|------------------------------------|----------|-----------|------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Space cooling        | A Condition 35°C Pdc               |          |           | kW   | 553.35            | 605.02    | 647.77    | 714.95    | 768.57    | 835.75    | 933.57    |
|                      | ηs,c                               |          |           | %    | 202.0             | 200.3     | 197.9     | 205.2     | 206.3     | 208.4     | 201.8     |
| SEER                 |                                    |          |           |      | 5.124             | 5.083     | 5.022     | 5.206     | 5.232     | 5.284     | 5.121     |
| Cooling capacity     | Nom.                               |          |           | kW   | 553.35            | 605.02    | 647.77    | 714.95    | 768.57    | 835.75    | 933.57    |
| Power input          | Cooling                            | Nom.     |           | kW   | 186.4             | 216.0     | 242.2     | 251.4     | 278.3     | 287.5     | 341.0     |
| Capacity control     | Method                             |          |           |      | Step              |           |           |           |           |           |           |
|                      | Minimum capacity                   |          |           | %    | 22                | 20        | 18        | 17        | 15        | 14        | 25        |
| EER                  |                                    |          |           |      | 2.969             | 2.801     | 2.674     | 2.844     | 2.762     | 2.907     | 2.738     |
| IPLV                 |                                    |          |           |      | 5.557             | 5.557     | 5.525     | 5.650     | 5.484     | 5.630     | 5.550     |
| Dimensions           | Unit                               | Height   |           | mm   | 2,535             |           |           |           |           |           |           |
|                      |                                    | Width    |           | mm   | 2,238             |           |           |           |           |           |           |
|                      |                                    | Depth    |           | mm   | 4,674             |           |           | 5,754     | 5,848     | 6,928     |           |
| Weight               | Unit                               |          |           | kg   | 3,495             | 3,670     | 3,779     | 4,308     | 4,666     | 5,119     | 5,313     |
|                      | Operation weight                   |          |           | kg   | 3,555             | 3,747     | 3,856     | 4,385     | 4,743     | 5,196     | 5,412     |
| Air heat exchanger   | Type                               |          |           |      | Microchannel      |           |           |           |           |           |           |
| Compressor           | Type                               |          |           |      | Scroll compressor |           |           |           |           |           |           |
|                      | Quantity                           |          |           |      | 5                 | 6         |           |           | 7         |           | 8         |
| Fan                  | Type                               |          |           |      | Direct propeller  |           |           |           |           |           |           |
|                      | Quantity                           |          |           |      | 8                 | 8         |           | 10        |           | 12        |           |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 42,940            | 42,940    |           | 53,670    | 53,670    | 64,400    |           |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 90.8              | 90.9      | 91.0      | 91.9      | 91.9      | 92.6      | 92.7      |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 70.6              | 70.7      | 70.8      | 71.2      | 71.2      | 71.5      | 71.6      |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~52           |           |           |           |           |           |           |
| Refrigerant          | Type/GWP                           |          |           |      | R-32/675          |           |           |           |           |           |           |
|                      | Charge                             |          |           |      | kg                | 45        | 50        | 53        | 59        | 63        | 68        |
|                      | Circuits                           | Quantity |           |      | 2                 |           |           |           |           |           |           |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 139.7mm           |           |           |           |           |           |           |
| Unit                 | Starting current                   | Max      |           | A    | 891               | 936       | 979       | 1,032     | 1,078     | 1,131     | 1,219     |
|                      | Running current                    | Cooling  | Nom.      | A    | 344               | 392       | 434       | 459       | 503       | 529       | 615       |
|                      | current                            | Max      |           | A    | 443               | 488       | 531       | 584       | 630       | 683       | 771       |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400         |           |           |           |           |           |           |

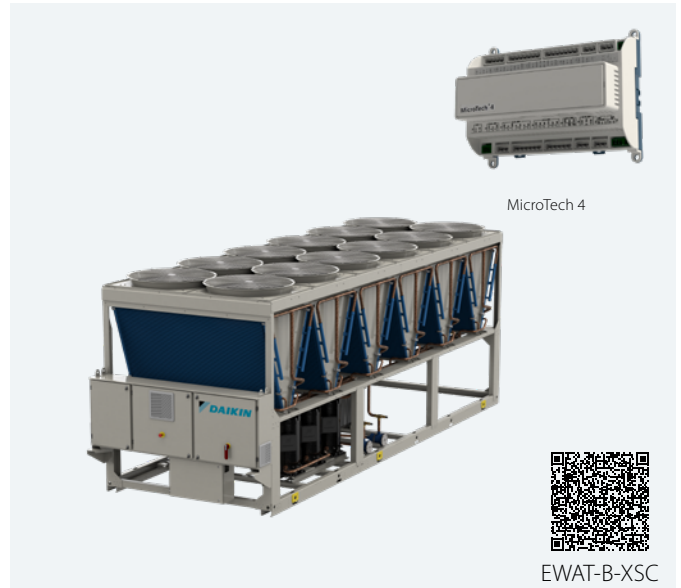


# Air cooled scroll compressor chiller

## Gold efficiency

## Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Performance monitoring;
- New Daikin MicroTech 4 controller.



| Cooling Only         |                                    |          |           | EWAT | 180B-XSC2         | 210B-XSC2 | 230B-XSC2 | 250B-XSC2 | 250B-XSC1 | 290B-XRC2 | 320B-XRC2 | 320B-XSC1 | 350B-XRC2 | 370B-XSC1 | 10B-XSC2 |      |
|----------------------|------------------------------------|----------|-----------|------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|------|
| Space cooling        | A Condition 35°C Pdc               |          |           | kW   | 182.9             | 205       | 221.3     | 246.7     | 252.39    | 287.1     | 321.5     | 324.44    | 334.1     | 371.33    | 1,009.36 |      |
|                      | ηs,c                               |          |           | %    | 181.4             | 185.4     | 186.6     | 187.4     | 181.8     | 187.8     | 188.6     | 188.6     | 118.6     | 187.4     | 193.4    |      |
| SEER                 |                                    |          |           |      | 4.61              | 4.71      | 4.74      | 4.76      | 4.620     | 4.77      | 4.79      | 4.789     | 4.79      | 4.759     | 4.910    |      |
| Cooling capacity     | Nom.                               |          |           | kW   | 182.9             | 205       | 221.3     | 246.7     | 252.39    | 287.1     | 321.5     | 324.44    | 334.1     | 371.33    | 1,009.00 |      |
| Power input          | Cooling                            | Nom.     |           | kW   | 56.73             | 63.41     | 67.74     | 81.48     | 79.1      | 93.7      | 101.6     | 100.0     | 110       | 118.8     | 315.7    |      |
| Capacity control     | Method                             |          |           |      | Step              |           |           |           |           |           |           |           |           |           |          |      |
|                      | Minimum capacity                   |          |           | %    | 25                | 21        | 19        | 17        | 50        | 25        | 13        | 22        | 20        | 19        | 25       |      |
| EER                  |                                    |          |           |      | 3.225             | 3.233     | 3.267     | 3.028     | 3.189     | 3.064     | 3.165     | 3.245     | 3.036     | 3.126     | 3.197    |      |
| IPLV                 |                                    |          |           |      | 4.91              | 5.09      |           | 5.2       | 4.907     | 5.22      | 5.01      | 5.002     | 5.21      | 5.051     | 5.126    |      |
| Dimensions           | Unit                               | Height   | mm        |      | 2,535             |           |           |           |           |           |           |           |           |           |          |      |
|                      |                                    | Width    |           |      | 2,238             |           |           |           |           |           |           |           |           |           |          |      |
|                      |                                    | Depth    | mm        |      |                   |           |           |           |           |           |           |           |           |           |          |      |
| Weight               | Unit                               |          |           | kg   | 2,514             |           |           |           |           |           |           |           |           |           |          |      |
|                      | Operation weight                   |          |           | kg   | 1,877             | 1,939     | 2,002     | 2,046     | 1,963     | 2,488     | 2,664     | 2,466     | 2,666     | 2,585     | 9,088    |      |
| Air heat exchanger   | Type                               |          |           |      | Microchannel      |           |           |           |           |           |           |           |           |           |          |      |
| Compressor           | Type                               |          |           |      | Scroll compressor |           |           |           |           |           |           |           |           |           |          |      |
| Fan                  | Quantity                           |          |           |      | 4                 |           |           |           | 2         |           | 5         |           | 3         | 5         | 3        | 8    |
|                      | Type                               |          |           |      | Direct propeller  |           |           |           |           |           |           |           |           |           |          |      |
|                      | Quantity                           |          |           |      | 4                 |           |           |           |           |           |           |           |           |           |          |      |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 25,500            |           |           |           | 25,490    |           | 38,240    |           |           |           | 101,980  |      |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 91                |           | 92        |           | 93.5      | 94        |           | 94.8      |           | 95.3      |          |      |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 72                |           | 73        |           | 74.4      | 74        |           | 75.1      |           | 75.6      |          |      |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~52           |           |           |           |           |           |           |           |           |           |          |      |
| Refrigerant          | Type/GWP                           |          |           |      | R-32/675          |           |           |           |           |           |           |           |           |           |          |      |
|                      | Charge                             |          |           |      | kg                | 19.2      |           |           |           | 33.1      |           | 50.0      |           | 44.0      | 55.0     | 75.0 |
|                      | Circuits                           | Quantity |           |      | 2                 |           |           |           | 1         | 2         | 2         | 2         | 2         |           | 2        |      |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 88.9mm            |           |           |           |           |           |           |           |           |           |          |      |
| Unit                 | Starting current                   | Max      |           | A    | 304               | 429       | 468       | 464       | 647       | 492       | 532       | 703       | 540       | 746       | 139.7mm  |      |
|                      | Running current                    | Cooling  | Nom.      | A    | 112               | 125       | 134       | 154       | 142       | 175       | 190       | 181       | 209       | 212       | 567      |      |
|                      | current                            | Max      |           | A    | 146               | 162       | 181       | 199       | 199       | 227       | 257       | 255       | 275       | 298       | 792      |      |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400         |           |           |           |           |           |           |           |           |           |          |      |

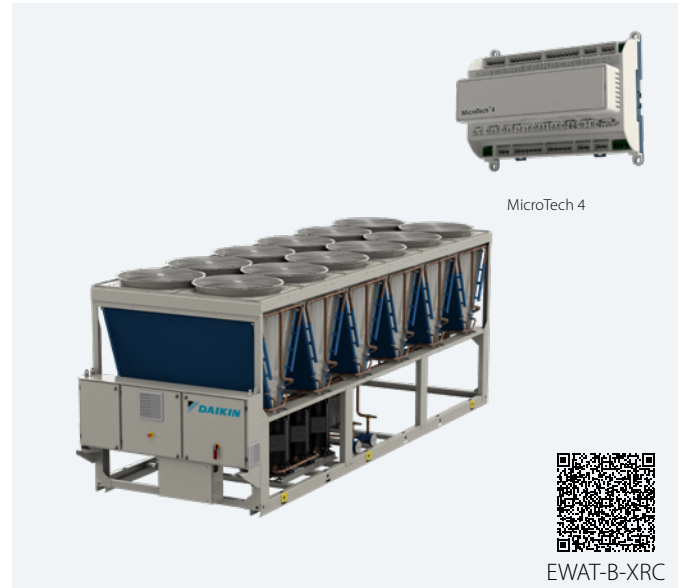
| Cooling Only         |                                    |          |           | EWAT | 390B-XSC2         | 450B-XSC2 | 510B-XSC2 | 540B-XSC2 | 590B-XSC2 | 630B-XSC2 | 720B-XSC2 | 760B-XSC2 | 830B-XSC2 | 880B-XSC2 |      |
|----------------------|------------------------------------|----------|-----------|------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| Space cooling        | A Condition 35°C Pdc               |          |           | kW   | 387.85            | 448.05    | 512.31    | 539.39    | 586.74    | 631.42    | 716.56    | 762.50    | 834.45    | 880.39    |      |
|                      | ηs,c                               |          |           | %    | 184.9             | 187.4     | 189.4     | 192.5     | 192.4     | 192.6     | 193.9     | 194.2     | 193.8     | 193.5     |      |
| SEER                 |                                    |          |           |      | 4.697             | 4.760     | 4.810     | 4.887     | 4.884     | 4.890     | 4.923     | 4.930     | 4.920     | 4.913     |      |
| Cooling capacity     | Nom.                               |          |           | kW   | 387.85            | 448.05    | 512.31    | 539.39    | 586.74    | 631.42    | 716.56    | 762.50    | 834.45    | 880.39    |      |
| Power input          | Cooling                            | Nom.     |           | kW   | 125.6             | 140.5     | 158.0     | 160.2     | 178.6     | 197.1     | 218.1     | 236.9     | 257.3     | 276.1     |      |
| Capacity control     | Method                             |          |           |      | Step              |           |           |           |           |           |           |           |           |           |      |
|                      | Minimum capacity                   |          |           | %    | 18                | 16        | 25        | 14        | 22        | 20        | 18        | 17        | 15        | 14        |      |
| EER                  |                                    |          |           |      | 3.088             | 3.189     | 3.242     | 3.368     | 3.285     | 3.203     | 3.285     | 3.219     | 3.243     | 3.189     |      |
| IPLV                 |                                    |          |           |      | 4.895             | 4.977     | 5.068     | 5.091     | 5.117     | 5.109     | 5.141     | 5.165     | 5.130     | 5.146     |      |
| Dimensions           | Unit                               | Height   | mm        |      | 2,535             |           |           |           |           |           |           |           |           |           |      |
|                      |                                    | Width    |           |      | 2,238             |           |           |           |           |           |           |           |           |           |      |
|                      |                                    | Depth    | mm        |      | 3,594             | 4,674     |           |           | 5,754     |           | 6,834     |           | 8,008     |           |      |
| Weight               | Unit                               |          |           | kg   | 2,657             | 3,169     | 3,359     | 3,804     | 3,916     | 4,024     | 4,565     | 4,673     | 5,442     | 5,551     |      |
|                      | Operation weight                   |          |           | kg   | 2,693             | 3,205     | 3,419     | 3,864     | 3,979     | 4,084     | 4,642     | 4,750     | 5,519     | 5,628     |      |
| Air heat exchanger   | Type                               |          |           |      | Microchannel      |           |           |           |           |           |           |           |           |           |      |
| Compressor           | Type                               |          |           |      | Scroll compressor |           |           |           |           |           |           |           |           |           |      |
| Fan                  | Quantity                           |          |           |      | 4                 |           |           |           | 5         |           | 6         |           | 7         |           |      |
|                      | Type                               |          |           |      | Direct propeller  |           |           |           |           |           |           |           |           |           |      |
|                      | Quantity                           |          |           |      | 6                 |           | 8         |           | 10        |           | 12        |           | 14        |           |      |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 38,240            |           | 50,980    |           | 63,730    |           | 76,480    |           | 89,230    |           |      |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 95.1              | 96.1      | 96.5      | 96.9      | 97.2      | 97.5      | 98.0      | 98.3      | 98.7      | 98.9      |      |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 75.4              | 75.9      | 76.3      | 76.2      | 76.5      | 76.8      | 76.9      | 77.1      | 77.2      | 77.4      |      |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~52           |           |           |           |           |           |           |           |           |           |      |
| Refrigerant          | Type/GWP                           |          |           |      | R-32/675          |           |           |           |           |           |           |           |           |           |      |
|                      | Charge                             |          |           |      | kg                | 30.5      | 35.0      | 39.5      | 42.0      | 45.0      | 49.0      | 55.0      | 57.5      | 62.5      | 67.0 |
|                      | Circuits                           | Quantity |           |      | 2                 |           |           |           |           |           |           |           |           |           |      |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 88.9mm            |           |           |           | 139.7mm   |           |           |           |           |           |      |
| Unit                 | Starting current                   | Max      |           | A    | 750               | 803       | 845       | 858       | 901       | 944       | 999       | 1,042     | 1,142     |           |      |
|                      | Running current                    | Cooling  | Nom.      | A    | 223               | 252       | 284       | 292       | 323       | 354       | 394       | 425       | 464       | 495       |      |
|                      | current                            | Max      |           | A    | 302               | 355       | 397       | 410       | 453       | 496       | 551       | 594       | 694       |           |      |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400         |           |           |           |           |           |           |           |           |           |      |

# Air cooled scroll compressor chiller

## Gold efficiency

## Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Performance monitoring;
- New Daikin MicroTech 4 controller.



| Cooling Only         |                                    |          |           | EWAT | 180B-XRC2         | 210B-XRC2 | 230B-XRC2 | 250B-XRC2 | 250B-XRC1 | 290B-XRC2 | 320B-XRC1 | 320B-XRC2 | 350B-XRC2 | 370B-XRC1 | 10B-XRC2 |         |
|----------------------|------------------------------------|----------|-----------|------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|
| Space cooling        | A Condition 35°C Pdc<br>ηs,c       |          |           | kW   | 169.8             | 192.1     | 220.5     | 239.4     | 241.40    | 274.5     | 313.20    | 286.2     | 326.9     | 355.68    | 965.50   |         |
|                      |                                    |          |           | %    | 200.6             | 201.4     | 204.6     | 197.4     | 195.6     | 203.4     | 204.4     | 207       | 202.2     | 202.6     | 206.2    |         |
| SEER                 |                                    |          |           |      | 5.09              | 5.11      | 5.19      | 5.01      | 4.965     | 5.16      | 5.186     | 5.25      | 5.13      | 5.140     | 5.229    |         |
| Cooling capacity     | Nom.                               |          |           | kW   | 169.8             | 192.1     | 220.5     | 239.4     | 241.40    | 274.5     | 313.20    | 286.2     | 326.9     | 355.68    | 965.50   |         |
| Power input          | Cooling Nom.                       |          |           | kW   | 51.15             | 61.78     | 70.9      | 85.68     | 81.1      | 91.3      | 99.9      | 93.11     | 115       | 121.4     | 323.5    |         |
| Capacity control     | Method                             |          |           |      | Step              |           |           |           |           |           |           |           |           |           |          |         |
|                      | Minimum capacity                   |          |           | %    | 25                | 21        | 19        | 17        | 50        | 25        | 22        | 13        | 20        | 19        | 25       |         |
| EER                  |                                    |          |           |      | 3.319             | 3.11      | 2.794     | 2.977     | 3.006     | 3.135     | 3.074     | 2.842     | 2.929     | 2.985     |          |         |
| IPLV                 |                                    |          |           |      | 5.51              | 5.59      | 5.5       | 5.51      | 5.340     | 5.77      | 5.525     | 5.67      | 5.72      | 5.487     | 5.576    |         |
| Dimensions           | Unit                               | Height   |           | mm   | 2,535             |           |           |           |           |           |           |           |           |           |          |         |
|                      |                                    | Width    |           | mm   | 2,238             |           |           |           |           |           |           |           |           |           |          |         |
|                      |                                    | Depth    |           | mm   | 2,514             |           |           |           |           |           |           |           |           |           | 9,090    |         |
| Weight               | Unit                               |          |           | kg   | 1,965             | 2,026     | 2,090     | 2,134     | 1,963     | 2,604     | 2,576     | 2,831     | 2,833     | 2,585     | 6,251    |         |
|                      | Operation weight                   |          |           | kg   | 1,979             | 2,046     | 2,118     | 2,162     | 1,968     | 2,604     | 2,604     | 2,831     | 2,833     | 2,610     | 6,350    |         |
| Air heat exchanger   | Type                               |          |           |      | Microchannel      |           |           |           |           |           |           |           |           |           |          |         |
| Compressor           | Type                               |          |           |      | Scroll compressor |           |           |           |           |           |           |           |           |           |          |         |
|                      | Quantity                           |          |           |      | 4                 |           |           |           | 2         | 4         | 3         | 5         | 5         | 3         | 8        |         |
| Fan                  | Type                               |          |           |      | Direct propeller  |           |           |           |           |           |           |           |           |           |          |         |
|                      | Quantity                           |          |           |      | 4                 |           |           |           | 6         |           |           |           |           |           |          | 16      |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 18,900            |           |           |           | 28,350    |           |           |           |           |           |          | 75,600  |
| Sound power level    | Cooling                            | Nom.     |           | dBa  | 83                |           |           |           | 84.0      |           | 85        | 85.4      | 85        | 85        | 85.7     | 90.0    |
| Sound pressure level | Cooling                            | Nom.     |           | dBa  | 64                |           |           |           | 64.9      |           | 64        | 65.7      | 65        | 65        | 66.0     | 68.1    |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~52           |           |           |           |           |           |           |           |           |           |          |         |
| Refrigerant          | Type/GWP                           |          |           |      | R-32/675          |           |           |           |           |           |           |           |           |           |          |         |
|                      | Charge                             |          |           | kg   | 19.2              |           |           |           | 44.0      | 33.1      | 50.0      | 33.1      | 33.1      | 55.0      | 75.0     |         |
|                      | Circuits                           | Quantity |           |      | 2                 |           |           |           | 1         | 2         |           | 2         | 2         | 1         | 2        |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 88.9mm            |           |           |           |           |           |           |           |           |           |          | 139.7mm |
| Unit                 | Starting current                   | Max      |           | A    | 304               | 429       | 446       | 464       | 647       | 492       | 703       | 523       | 540       | 746       | 1,240    |         |
|                      | Running current                    | Cooling  | Nom.      | A    | 103               | 119       | 131       | 152       | 143       | 164       | 178       | 205       | 205       | 213       | 570      |         |
|                      | current                            | Max      |           | A    | 146               | 163       | 181       | 199       | 199       | 227       | 255       | 275       | 275       | 298       | 792      |         |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400         |           |           |           |           |           |           |           |           |           |          |         |
| Cooling Only         |                                    |          |           | EWAT | 390B-XRC2         | 450B-XRC2 | 510B-XRC2 | 540B-XRC2 | 590B-XRC2 | 630B-XRC2 | 720B-XRC2 | 760B-XRC2 | 830B-XRC2 | 880B-XRC2 |          |         |
| Space cooling        | A Condition 35°C Pdc<br>ηs,c       |          |           | kW   | 370.32            | 431.43    | 489.48    | 520.68    | 563.54    | 603.94    | 687.57    | 728.98    | 800.94    | 842.34    |          |         |
|                      |                                    |          |           | %    | 196.2             | 203.3     | 201.3     | 208.2     | 207.8     | 206.5     | 208.6     | 207.0     | 210.0     | 208.8     |          |         |
| SEER                 |                                    |          |           |      | 4.979             | 5.158     | 5.108     | 5.279     | 5.270     | 5.237     | 5.291     | 5.249     | 5.324     | 5.294     |          |         |
| Cooling capacity     | Nom.                               |          |           | kW   | 370.32            | 431.43    | 489.48    | 520.68    | 563.54    | 603.94    | 687.57    | 729.00    | 800.94    | 842.34    |          |         |
| Power input          | Cooling Nom.                       |          |           | kW   | 129.1             | 141.4     | 162.1     | 159.6     | 180.7     | 202.0     | 221.3     | 242.8     | 261.1     | 282.2     |          |         |
| Capacity control     | Method                             |          |           |      | Step              |           |           |           |           |           |           |           |           |           |          |         |
|                      | Minimum capacity                   |          |           | %    | 18                | 16        | 25        | 14        | 22        | 20        | 18        | 17        | 15        | 14        |          |         |
| EER                  |                                    |          |           |      | 2.869             | 3.052     | 3.019     | 3.262     | 3.119     | 2.990     | 3.107     | 3.003     | 3.067     | 2.979     |          |         |
| IPLV                 |                                    |          |           |      | 5.317             | 5.446     | 5.528     | 5.630     | 5.620     | 5.601     | 5.649     | 5.605     | 5.613     | 5.605     |          |         |
| Dimensions           | Unit                               | Height   |           | mm   | 2,535             |           |           |           |           |           |           |           |           |           |          |         |
|                      |                                    | Width    |           | mm   | 2,238             |           |           |           |           |           |           |           |           |           |          |         |
|                      |                                    | Depth    |           | mm   | 3,590             | 4,670     |           | 5,750     |           |           | 6,830     |           | 8,010     |           |          |         |
| Weight               | Unit                               |          |           | kg   | 2,657             | 3,169     | 3,359     | 3,804     | 3,916     | 4,024     | 4,565     | 4,673     | 5,442     | 5,551     |          |         |
|                      | Operation weight                   |          |           | kg   | 2,693             | 3,205     | 3,419     | 3,864     | 3,976     | 4,084     | 4,642     | 4,750     | 5,519     | 5,628     |          |         |
| Air heat exchanger   | Type                               |          |           |      | Microchannel      |           |           |           |           |           |           |           |           |           |          |         |
| Compressor           | Type                               |          |           |      | Scroll compressor |           |           |           |           |           |           |           |           |           |          |         |
|                      | Quantity                           |          |           |      | 4                 |           |           |           | 5         |           | 6         |           | 7         |           |          |         |
| Fan                  | Type                               |          |           |      | Direct propeller  |           |           |           |           |           |           |           |           |           |          |         |
|                      | Quantity                           |          |           |      | 6                 | 8         |           | 10        |           |           | 12        |           | 14        |           |          |         |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 28,350            | 37,800    |           | 47,250    |           |           | 56,700    |           | 66,150    |           |          |         |
| Sound power level    | Cooling                            | Nom.     |           | dBa  | 85.6              | 86.8      | 87.0      | 87.6      | 87.8      | 87.9      | 88.6      | 88.7      | 89.3      | 89.4      |          |         |
| Sound pressure level | Cooling                            | Nom.     |           | dBa  | 65.9              | 66.5      | 66.7      | 66.9      | 67.1      | 67.2      | 67.5      | 67.6      | 67.7      | 67.8      |          |         |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~52           |           |           |           |           |           |           |           |           |           |          |         |
| Refrigerant          | Type/GWP                           |          |           |      | R-32/675          |           |           |           |           |           |           |           |           |           |          |         |
|                      | Charge                             |          |           | kg   | 30.5              |           | 39.5      | 42.0      | 45.0      | 49.0      | 55.0      | 57.5      | 62.5      | 67.0      |          |         |
|                      | Circuits                           | Quantity |           |      | 2                 |           |           |           |           |           |           |           |           |           |          |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 88.9mm            |           |           | 139.7mm   |           |           |           |           |           |           |          |         |
| Unit                 | Starting current                   | Max      |           | A    | 750               | 803       | 845       | 858       | 901       | 944       | 999       | 1,042     | 1,142     |           |          |         |
|                      | Running current                    | Cooling  | Nom.      | A    | 225               | 249       | 286       | 287       | 322       | 356       | 393       | 428       | 463       | 498       |          |         |
|                      | current                            | Max      |           | A    | 302               | 355       | 397       | 410       | 453       | 496       | 551       | 594       | 694       |           |          |         |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400         |           |           |           |           |           |           |           |           |           |          |         |

# Inverter screw cooling only with BLU efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAD-TZBSD           |                                    |         |           |  | 275              | 320       | 345    | 400   | 470     | 510     | 525     |         |
|----------------------|------------------------------------|---------|-----------|--|------------------|-----------|--------|-------|---------|---------|---------|---------|
| SEER                 |                                    |         |           |  | 4.517            | 4.637     | 4.636  | 4.829 | 4.809   | 4.561   | 4.73    |         |
| Cooling capacity     | Nom.                               |         |           |  | kW               | 274.8     | 316.9  | 346   | 418.5   | 467     | 512.6   |         |
| Power input          | Cooling                            | Nom.    |           |  |                  | kW        | 91.31  | 100.1 | 115.5   | 136.4   | 159.9   |         |
| Capacity control     | Method                             |         |           |  | Stepless         |           |        |       |         |         |         |         |
| Minimum capacity     |                                    |         |           |  | %                | 22        | 19     | 17    | 22      | 23      | 11      |         |
| EER                  |                                    |         |           |  |                  | 3         | 3.2    | 3     | 3.1     | 2.9     | 3       |         |
| IPLV                 |                                    |         |           |  |                  | 4.4       | 4.6    | 4.6   | 4.8     | 4.4     | 4.7     |         |
| Dimensions           | Unit                               | Height  |           |  |                  | mm        | 2,553  |       |         |         |         |         |
|                      |                                    | Width   |           |  |                  | mm        | 2,238  |       |         |         |         |         |
|                      |                                    | Depth   |           |  |                  | mm        | 2,560  | 3,640 |         |         | 4,720   |         |
| Weight               | Unit                               |         |           |  | kg               | 2,602     | 3,084  |       | 3,486   |         | 4,212   |         |
|                      | Operation weight                   |         |           |  | kg               | 2,677     | 3,169  |       | 3,583.7 |         | 3,593.7 |         |
| Air heat exchanger   | Type                               |         |           |  | Microchannel     |           |        |       |         |         |         |         |
| Compressor           | Type                               |         |           |  | Screw compressor |           |        |       |         |         |         |         |
| Fan                  | Quantity                           |         |           |  | 1                |           |        |       |         | 2       | 1       |         |
|                      | Type                               |         |           |  | Direct propeller |           |        |       |         |         |         |         |
|                      | Quantity                           |         |           |  | 4                | 6         |        |       |         | 8       |         |         |
| Sound power level    | Air flow rate                      | Cooling | Nom.      |  | l/s              | 25,490    | 38,240 |       |         | 50,980  | 50,990  |         |
|                      | Cooling                            | Nom.    |           |  |                  | dBA       | 97     | 98    | 100     | 97      | 99      |         |
| Sound pressure level | Cooling                            | Nom.    |           |  |                  | dBA       | 78     |       | 80      | 78      | 77      |         |
| Operation range      | Air side                           | Cooling | Min.~Max. |  | °CDB             | 5~46      |        |       |         |         |         |         |
| Refrigerant          | Type/GWP                           |         |           |  | R-134a/1,430     |           |        |       |         |         |         |         |
| Piping connections   | Charge                             |         |           |  | kg               | 35        | 45     |       | 55      | 65      | 70      |         |
|                      | Circuits                           |         |           |  | 1                |           |        |       |         | 2       | 1       |         |
|                      | Quantity                           |         |           |  | 1                |           |        |       |         | 2       | 1       |         |
| Unit                 | Evaporator water inlet/outlet (OD) |         |           |  | 88.9mm           |           |        |       |         | 139.7mm |         |         |
| Unit                 | Starting current                   |         |           |  | A                | 0         |        |       |         |         | 168.3mm | 139.7mm |
|                      | Running                            | Cooling | Nom.      |  | A                | 179.1     | 196.2  | 217.6 | 248.4   | 283.5   | 336.9   |         |
|                      | current                            | Max     |           |  |                  | A         | 220    | 262   | 284     | 346     | 362     |         |
| Power supply         | Phase/Frequency/Voltage            |         |           |  | Hz/V             | 3~/50/400 |        |       |         |         |         |         |

| EWAD-TZBSD           |                                    |         |           |  | 545              | 570       | 580    | 625     | 630     | 670     | 755     |  |
|----------------------|------------------------------------|---------|-----------|--|------------------|-----------|--------|---------|---------|---------|---------|--|
| SEER                 |                                    |         |           |  | 4.55             | 4.552     | 4.711  | 4.65    | 4.556   | 4.564   | 4.917   |  |
| Cooling capacity     | Nom.                               |         |           |  | kW               | 543.7     | 573.2  | 574.7   | 622.2   | 630.9   | 753.1   |  |
| Power input          | Cooling                            | Nom.    |           |  |                  | kW        | 188.4  | 206     | 198.2   | 230.6   | 216.2   |  |
| Capacity control     | Method                             |         |           |  | Stepless         |           |        |         |         |         |         |  |
| Minimum capacity     |                                    |         |           |  | %                | 10        | 19     | 17      | 10      | 13      |         |  |
| EER                  |                                    |         |           |  |                  | 2.9       | 2.8    | 2.9     | 2.7     | 2.9     | 3.3     |  |
| IPLV                 |                                    |         |           |  |                  | 4.4       | 4.7    | 4.7     | 4.5     | 4.9     |         |  |
| Dimensions           | Unit                               | Height  |           |  |                  | mm        | 2,553  |         |         |         |         |  |
|                      |                                    | Width   |           |  |                  | mm        | 2,238  |         |         |         |         |  |
|                      |                                    | Depth   |           |  |                  | mm        | 4,720  |         |         | 5,800   | 6,880   |  |
| Weight               | Unit                               |         |           |  | kg               | 4,212     | 4,032  |         | 4,695   |         | 5,670   |  |
|                      | Operation weight                   |         |           |  | kg               | 4,557     | 4,562  | 4,170.1 | 4,175.1 | 5,035   | 5,045   |  |
| Air heat exchanger   | Type                               |         |           |  | Microchannel     |           |        |         |         |         |         |  |
| Compressor           | Type                               |         |           |  | Screw compressor |           |        |         |         |         |         |  |
| Fan                  | Quantity                           |         |           |  | 2                |           |        |         |         | 1       |         |  |
|                      | Type                               |         |           |  | Direct propeller |           |        |         |         |         |         |  |
|                      | Quantity                           |         |           |  | 8                |           |        |         | 10      |         | 12      |  |
| Sound power level    | Air flow rate                      | Cooling | Nom.      |  | l/s              | 50,980    | 50,990 |         |         | 63,730  | 76,480  |  |
|                      | Cooling                            | Nom.    |           |  |                  | dBA       | 99     | 100     | 98      | 101     | 102     |  |
| Sound pressure level | Cooling                            | Nom.    |           |  |                  | dBA       | 79     | 80      | 78      | 80      | 82      |  |
| Operation range      | Air side                           | Cooling | Min.~Max. |  | °CDB             | 5~46      |        |         |         |         |         |  |
| Refrigerant          | Type/GWP                           |         |           |  | R-134a/1,430     |           |        |         |         |         |         |  |
| Piping connections   | Charge                             |         |           |  | kg               | 75        | 80     |         | 85      |         | 95      |  |
|                      | Circuits                           |         |           |  | 2                |           |        |         |         | 1       |         |  |
|                      | Quantity                           |         |           |  | 2                |           |        |         |         | 1       |         |  |
| Unit                 | Evaporator water inlet/outlet (OD) |         |           |  | 168.3mm          |           |        |         |         | 139.7mm |         |  |
| Unit                 | Starting current                   |         |           |  | A                | 0         |        |         |         |         | 168.3mm |  |
|                      | Running                            | Cooling | Nom.      |  | A                | 367.3     | 392.4  | 344.2   | 392.3   | 412.1   | 450     |  |
|                      | current                            | Max     |           |  |                  | A         | 440    | 471     | 457     | 464     | 512     |  |
| Power supply         | Phase/Frequency/Voltage            |         |           |  | Hz/V             | 3~/50/400 |        |         |         |         |         |  |



EWAD-TZBSD



MicroTech 4

| EWAD-TZBSD           |                                    |                  |           |  | 830   | 915       | C10     | H10    | H11     | C12     | C13     |
|----------------------|------------------------------------|------------------|-----------|--|-------|-----------|---------|--------|---------|---------|---------|
| SEER                 |                                    |                  |           |  | 4.879 | 4.901     | 4.855   | 4.797  | 4.936   | 4.942   | 4.906   |
| Cooling capacity     | Nom.                               |                  |           |  | kW    | 825.6     | 916.8   | 997.9  | 1,092   | 1,168   | 1,238   |
| Power input          | Cooling                            | Nom.             |           |  |       | kW        | 267.5   | 298.4  | 347.8   | 369.7   | 387.5   |
| Capacity control     | Method                             | Stepless         |           |  |       |           |         |        |         |         |         |
| Minimum capacity     |                                    |                  |           |  | %     | 11        | 13      | 11     | 10      |         |         |
| EER                  |                                    |                  |           |  |       | 3.1       |         | 2.9    | 3       |         |         |
| IPLV                 |                                    |                  |           |  |       | 4.8       | 4.9     | 4.8    | 4.9     |         | 4.8     |
| Dimensions           | Unit                               | Height           |           |  |       | mm        | 2,553   |        |         |         |         |
|                      |                                    | Width            |           |  |       | mm        | 2,238   |        |         |         |         |
|                      |                                    | Depth            |           |  |       | mm        | 6,880   |        | 7,960   | 9,040   | 10,120  |
| Weight               | Unit                               |                  |           |  | kg    | 5,670     | 6,142   |        | 6,816   | 7,297   | 7,779   |
|                      | Operation weight                   |                  |           |  | kg    | 6,065     | 6,748   | 6,763  | 7,523   | 8,014   | 8,506   |
| Air heat exchanger   | Type                               | Microchannel     |           |  |       |           |         |        |         |         |         |
| Compressor           | Type                               | Screw compressor |           |  |       |           |         |        |         |         |         |
| Fan                  | Quantity                           | 2                |           |  |       |           |         |        |         |         |         |
|                      | Type                               | Direct propeller |           |  |       |           |         |        |         |         |         |
|                      | Quantity                           |                  |           |  |       | 12        | 14      |        | 16      | 18      | 20      |
|                      | Air flow rate                      | Cooling          | Nom.      |  | l/s   | 76,480    |         | 89,230 | 101,980 | 114,720 | 127,460 |
| Sound power level    | Cooling                            | Nom.             |           |  |       | dBA       | 100     | 99     | 100     | 101     | 102     |
| Sound pressure level | Cooling                            | Nom.             |           |  |       | dBA       | 79      | 78     | 79      |         | 80      |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  |       |           | °CDB    | 5~46   |         |         |         |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |  |       |           |         |        |         |         |         |
| Piping connections   | Charge                             |                  |           |  | kg    | 115       | 125     | 140    | 150     | 160     | 170     |
|                      | Circuits                           | Quantity         |           |  |       |           | 2       |        |         |         |         |
|                      | Evaporator water inlet/outlet (OD) |                  |           |  |       | 168.3mm   | 219.1mm |        |         |         |         |
| Unit                 | Starting current                   | Max              |           |  |       | A         | 0       |        |         |         |         |
| Unit                 | Running                            | Cooling          | Nom.      |  |       |           | A       | 488.5  | 536.5   | 610.2   | 645.8   |
|                      | current                            | Max              |           |  |       | A         | 668     |        | 751     | 817     | 884     |
| Power supply         | Phase/Frequency/Voltage            |                  |           |  | Hz/V  | 3~/50/400 |         |        |         |         |         |

| EWAD-TZBSD           |                                    |                  |           |  | C14   | C15       | H16     | H17    | H18     | H19    |  |
|----------------------|------------------------------------|------------------|-----------|--|-------|-----------|---------|--------|---------|--------|--|
| SEER                 |                                    |                  |           |  | 4.849 | 4.858     | 5.044   | 4.995  | 4.997   | 4.979  |  |
| Cooling capacity     | Nom.                               |                  |           |  | kW    | 1,405     | 1,534   | 1,665  | 1,760   | 1,876  |  |
| Power input          | Cooling                            | Nom.             |           |  |       | kW        | 494.1   | 531.7  | 546.3   | 608.6  |  |
| Capacity control     | Method                             | Stepless         |           |  |       |           |         |        |         |        |  |
| Minimum capacity     |                                    |                  |           |  | %     | 10        | 13      | 12     | 11      | 10     |  |
| EER                  |                                    |                  |           |  |       | 2.8       | 2.9     | 3      | 2.9     | 2.8    |  |
| IPLV                 |                                    |                  |           |  |       | 4.7       | 5.3     |        | 5.2     |        |  |
| Dimensions           | Unit                               | Height           |           |  |       | mm        | 2,553   |        |         |        |  |
|                      |                                    | Width            |           |  |       | mm        | 2,238   |        |         |        |  |
|                      |                                    | Depth            |           |  |       | mm        | 11,200  | 12,280 |         | 13,360 |  |
| Weight               | Unit                               |                  |           |  | kg    | 8,581     | 9,920   | 10,323 |         | 10,805 |  |
|                      | Operation weight                   |                  |           |  | kg    | 9,333     | 11,146  | 11,564 | 11,579  | 12,076 |  |
| Air heat exchanger   | Type                               | Microchannel     |           |  |       |           |         |        |         |        |  |
| Compressor           | Type                               | Screw compressor |           |  |       |           |         |        |         |        |  |
| Fan                  | Quantity                           | 2                |           |  |       |           |         |        |         |        |  |
|                      | Type                               | Direct propeller |           |  |       |           |         |        |         |        |  |
|                      | Quantity                           |                  |           |  |       | 20        | 22      |        | 24      |        |  |
|                      | Air flow rate                      | Cooling          | Nom.      |  | l/s   | 127,460   | 140,210 |        | 152,960 |        |  |
| Sound power level    | Cooling                            | Nom.             |           |  |       | dBA       | 105     | 106    | 104     | 105    |  |
| Sound pressure level | Cooling                            | Nom.             |           |  |       | dBA       | 82      | 83     | 81      | 82     |  |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  |       |           | °CDB    | 5~46   |         |        |  |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |  |       |           |         |        |         |        |  |
| Piping connections   | Charge                             |                  |           |  | kg    | 195       | 215     | 230    | 245     | 260    |  |
|                      | Circuits                           | Quantity         |           |  |       |           | 2       |        |         |        |  |
|                      | Evaporator water inlet/outlet (OD) |                  |           |  |       | 219.1mm   | 273mm   |        |         |        |  |
| Unit                 | Starting current                   | Max              |           |  |       | A         | 0       |        |         |        |  |
| Unit                 | Running                            | Cooling          | Nom.      |  |       |           | A       | 837.3  | 899.1   | 919.5  |  |
|                      | current                            | Max              |           |  |       | A         | 1,120   | 1,200  | 1,227   | 1,340  |  |
| Power supply         | Phase/Frequency/Voltage            |                  |           |  | Hz/V  | 3~/50/400 |         |        |         |        |  |



# Inverter screw with SILVER efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAD-TZSSD           |                                    |          |           |  | 285              | 325       | 380    | 430   | 495     | 520     | 535     |         |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|--------|-------|---------|---------|---------|---------|
| SEER                 |                                    |          |           |  | 5.551            | 5.737     | 5.636  | 5.741 | 5.434   | 5.281   | 5.659   |         |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 283.6     | 327.3  | 360.3 | 426.8   | 522.4   | 530.6   |         |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 84.44  | 98.36 | 112.8   | 131     | 151.7   |         |
| Capacity control     | Method                             |          |           |  | Stepless         |           |        |       |         |         |         |         |
| Minimum capacity     |                                    |          |           |  | %                | 22        | 19     | 17    | 22      | 23      | 11      | 22      |
|                      |                                    |          |           |  |                  | 3.4       | 3.3    | 3.2   | 3.3     | 3.2     |         | 3.3     |
| IPLV                 |                                    |          |           |  |                  | 5.7       | 5.8    | 5.7   | 6       | 5.8     | 5.4     | 6       |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553  |       |         |         |         |         |
|                      |                                    | Width    |           |  |                  | mm        | 2,238  |       |         |         |         |         |
|                      |                                    | Depth    |           |  |                  | mm        | 3,640  | 4,720 |         |         |         | 5,800   |
| Weight               | Unit                               |          |           |  | kg               | 3,084     | 3,604  |       | 3,968   | 4,032   | 4,693   | 4,513   |
|                      | Operation weight                   |          |           |  | kg               | 3,164     | 3,697  | 3,702 | 4,070.7 | 4,155.1 | 5,033   | 4,646.1 |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |        |       |         |         |         |         |
| Compressor           | Type                               |          |           |  | Screw compressor |           |        |       |         |         |         |         |
| Fan                  | Quantity                           |          |           |  | 1                |           |        |       |         | 2       |         | 1       |
|                      | Type                               |          |           |  | Direct propeller |           |        |       |         |         |         |         |
|                      | Quantity                           |          |           |  | 6                | 8         |        |       |         |         | 10      |         |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s              | 38,240    | 50,990 |       |         |         |         | 63,730  |
| Sound power level    | Cooling                            | Nom.     |           |  | dBA              | 98        | 100    | 98    | 97      | 99      | 98      |         |
| Sound pressure level | Cooling                            | Nom.     |           |  | dBA              | 78        | 80     | 77    |         | 79      | 77      |         |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB             | 5 ~46     |        |       |         |         | -20 ~46 | 5 ~46   |
| Refrigerant          | Type/GWP                           |          |           |  | R-134a/1,430     |           |        |       |         |         |         |         |
| Piping connections   | Charge                             |          |           |  | kg               | 40        | 45     | 50    | 60      | 65      | 70      | 75      |
|                      | Circuits                           | Quantity |           |  |                  | 1         |        |       |         |         | 2       | 1       |
|                      | Evaporator water inlet/outlet (OD) |          |           |  |                  | 88.9mm    |        |       | 139.7mm |         | 168.3mm | 139.7mm |
| Unit                 | Starting current                   | Max      |           |  | A                | 0         |        |       |         |         |         |         |
|                      | Running                            | Cooling  | Nom.      |  | A                | 174.3     | 202.4  | 227.4 | 249.9   | 281.8   | 332.1   | 300.1   |
|                      | current                            | Max      |           |  | A                | 231       | 272    | 294   | 357     | 372     | 421     | 411     |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |        |       |         |         |         |         |

| EWAD-TZSSD           |                                    |          |           |  | 555              | 585       | 595    | 645     | 650     | 705     | 760     |       |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|--------|---------|---------|---------|---------|-------|
| SEER                 |                                    |          |           |  | 5.237            | 5.099     | 5.556  | 5.291   | 5.535   | 5.2     | 5.547   |       |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 555.8     | 586.7  | 590     | 646.3   | 642.1   | 760.3   |       |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 177.6  | 194.1   | 188.4   | 202.9   | 218.2   |       |
| Capacity control     | Method                             |          |           |  | Stepless         |           |        |         |         |         |         |       |
| Minimum capacity     |                                    |          |           |  | %                | 10        | 19     | 10      | 17      | 10      | 13      |       |
|                      |                                    |          |           |  |                  | 3.1       | 3      | 3.1     | 3.2     | 2.9     | 3       | 3.4   |
| IPLV                 |                                    |          |           |  |                  | 5.3       | 5.2    | 5.8     | 5.4     | 5.6     | 6       |       |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553  |         |         |         |         |       |
|                      |                                    | Width    |           |  |                  | mm        | 2,238  |         |         |         |         |       |
|                      |                                    | Depth    |           |  |                  | mm        | 5,800  |         |         |         | 6,880   | 5,800 |
| Weight               | Unit                               |          |           |  | kg               | 4,693     | 4,513  | 5,177   | 4,513   | 5,177   | 6,151   |       |
|                      | Operation weight                   |          |           |  | kg               | 5,038     | 5,043  | 4,651.1 | 5,522   | 4,661.1 | 5,527   | 6,536 |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |        |         |         |         |         |       |
| Compressor           | Type                               |          |           |  | Screw compressor |           |        |         |         |         |         |       |
| Fan                  | Quantity                           |          |           |  | 2                |           | 1      | 2       | 1       | 2       |         |       |
|                      | Type                               |          |           |  | Direct propeller |           |        |         |         |         |         |       |
|                      | Quantity                           |          |           |  | 10               | 12        |        | 10      | 12      | 14      |         |       |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s              | 63,730    | 76,480 |         | 63,730  | 76,480  | 89,230  |       |
| Sound power level    | Cooling                            | Nom.     |           |  | dBA              | 99        | 101    | 98      | 101     | 103     | 99      |       |
| Sound pressure level | Cooling                            | Nom.     |           |  | dBA              | 79        | 80     | 78      | 80      | 82      | 78      |       |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB             | -20 ~46   |        | 5 ~46   | -20 ~46 | 5 ~46   | -20 ~46 |       |
| Refrigerant          | Type/GWP                           |          |           |  | R-134a/1,430     |           |        |         |         |         |         |       |
| Piping connections   | Charge                             |          |           |  | kg               | 75        | 80     | 90      |         | 95      | 105     |       |
|                      | Circuits                           | Quantity |           |  |                  | 2         |        | 1       | 2       | 1       | 2       |       |
|                      | Evaporator water inlet/outlet (OD) |          |           |  |                  | 168.3mm   |        | 139.7mm | 168.3mm | 139.7mm | 168.3mm |       |
| Unit                 | Starting current                   | Max      |           |  | A                | 0         |        |         |         |         |         |       |
|                      | Running                            | Cooling  | Nom.      |  | A                | 359.1     | 387.7  | 340.8   | 407     | 384.9   | 451.6   | 442.9 |
|                      | current                            | Max      |           |  | A                | 450       | 481    | 467     | 523     | 474     | 566     | 610   |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |        |         |         |         |         |       |



EWAD-TZSSD



MicroTech 4

| EWAD-TZSSD           |                                    |                  |           | 835   | 960       | C10     | H10   | H11   | H12     | H13     |         |
|----------------------|------------------------------------|------------------|-----------|-------|-----------|---------|-------|-------|---------|---------|---------|
| SEER                 |                                    |                  |           |       | 5.714     | 5.615   | 5.536 | 5.55  | 5.562   | 5.714   | 5.673   |
| Cooling capacity     | Nom.                               |                  |           | kW    | 837.7     | 960.2   | 1,017 | 1,064 | 1,168   | 1,281   | 1,372   |
| Power input          | Cooling                            | Nom.             |           | kW    | 258.7     | 301.2   | 332.2 | 351.6 | 384.5   | 412.6   | 451.9   |
| Capacity control     | Method                             | Stepless         |           |       |           |         |       |       |         |         |         |
| Minimum capacity     |                                    |                  |           | %     | 11        | 12      | 11    |       | 10      |         |         |
| EER                  |                                    |                  |           |       | 3.2       |         | 3.1   | 3     |         | 3.1     | 3       |
| IPLV                 |                                    |                  |           |       | 5.8       | 5.7     | 5.6   |       |         | 5.7     |         |
| Dimensions           | Unit                               | Height           | mm        | 2,553 |           |         |       |       |         |         |         |
|                      |                                    | Width            | mm        | 2,238 |           |         |       |       |         |         |         |
|                      |                                    | Depth            | mm        |       |           |         |       |       |         |         |         |
| Weight               | Unit                               |                  |           | kg    | 6,151     | 6,623   | 6,816 |       | 7,297   | 8,260   | 8,742   |
|                      | Operation weight                   |                  | kg        | 6,546 | 7,239     | 7,244   | 7,518 | 8,014 | 8,992   | 9,489   |         |
| Air heat exchanger   | Type                               | Microchannel     |           |       |           |         |       |       |         |         |         |
| Compressor           | Type                               | Screw compressor |           |       |           |         |       |       |         |         |         |
| Fan                  | Quantity                           | 2                |           |       |           |         |       |       |         |         |         |
|                      | Type                               | Direct propeller |           |       |           |         |       |       |         |         |         |
|                      | Quantity                           | 14               |           |       |           |         |       |       | 16      | 20      | 22      |
|                      | Air flow rate                      | Cooling          | Nom.      | l/s   | 89,230    |         |       |       | 101,908 | 127,460 | 140,210 |
| Sound power level    | Cooling                            | Nom.             |           | dBA   | 100       |         |       |       | 101     | 102     | 104     |
| Sound pressure level | Cooling                            | Nom.             |           | dBA   | 79        | 78      | 79    |       |         | 80      | 81      |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB  | -20 ~46   |         |       |       |         |         |         |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |       |           |         |       |       |         |         |         |
|                      | Charge                             |                  |           | kg    | 115       | 135     | 140   | 145   | 160     | 175     | 190     |
|                      | Circuits                           | Quantity         |           |       |           |         |       |       |         |         |         |
|                      | Evaporator water inlet/outlet (OD) |                  |           |       | 168.3mm   | 219.1mm |       |       |         |         |         |
| Piping connections   | Starting current                   | Max              |           | A     | 0         |         |       |       |         |         |         |
| Unit                 | Running current                    | Cooling          | Nom.      | A     | 489.7     | 555     | 601.4 | 630.5 | 683.6   | 733.8   | 796.2   |
|                      | Max                                |                  |           | A     | 679       | 706     | 761   | 789   | 884     | 948     |         |
| Power supply         | Phase/Frequency/Voltage            |                  |           | Hz/V  | 3~/50/400 |         |       |       |         |         |         |

| EWAD-TZSSD           |                                    |                  |           | H14    | H15       | H16    | H17    | H18    | H19     |       |
|----------------------|------------------------------------|------------------|-----------|--------|-----------|--------|--------|--------|---------|-------|
| SEER                 |                                    |                  |           |        | 5.529     | 5.707  | 5.633  | 5.608  | 5.527   | 5.445 |
| Cooling capacity     | Nom.                               |                  |           | kW     | 1,482     | 1,562  | 1,665  | 1,787  | 1,876   | 1,954 |
| Power input          | Cooling                            | Nom.             |           | kW     | 500.2     | 485.4  | 542.2  | 589.4  | 654.5   | 725.7 |
| Capacity control     | Method                             | Stepless         |           |        |           |        |        |        |         |       |
| Minimum capacity     |                                    |                  |           | %      | 10        | 14     | 13     | 12     | 11      | 10    |
| EER                  |                                    |                  |           |        | 3         | 3.2    | 3.1    | 3      | 2.9     | 2.7   |
| IPLV                 |                                    |                  |           |        | 5.6       | 6.1    | 6      | 5.9    | 5.8     | 5.7   |
| Dimensions           | Unit                               | Height           | mm        | 2,553  |           |        |        |        |         |       |
|                      |                                    | Width            | mm        | 2,238  |           |        |        |        |         |       |
|                      |                                    | Depth            | mm        | 12,280 |           |        |        |        |         |       |
| Weight               | Unit                               |                  |           | kg     | 9,920     | 10,323 |        |        | 13,360  |       |
|                      | Operation weight                   |                  | kg        | 11,136 | 11,549    | 11,564 | 12,066 | 12,076 | 12,086  |       |
| Air heat exchanger   | Type                               | Microchannel     |           |        |           |        |        |        |         |       |
| Compressor           | Type                               | Screw compressor |           |        |           |        |        |        |         |       |
| Fan                  | Quantity                           | 2                |           |        |           |        |        |        |         |       |
|                      | Type                               | Direct propeller |           |        |           |        |        |        |         |       |
|                      | Quantity                           | 22               |           |        |           |        |        |        | 24      |       |
|                      | Air flow rate                      | Cooling          | Nom.      | l/s    | 140,210   |        |        |        | 152,960 |       |
| Sound power level    | Cooling                            | Nom.             |           | dBA    | 105       | 103    | 104    | 105    | 106     | 107   |
| Sound pressure level | Cooling                            | Nom.             |           | dBA    | 82        | 80     | 81     | 82     | 83      | 84    |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB   | -20 ~46   |        |        |        |         |       |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |        |           |        |        |        |         |       |
|                      | Charge                             |                  |           | kg     | 205       | 215    | 230    | 250    | 260     | 270   |
|                      | Circuits                           | Quantity         |           |        |           |        |        |        |         |       |
|                      | Evaporator water inlet/outlet (OD) |                  |           |        | 273mm     |        |        |        |         |       |
| Piping connections   | Starting current                   | Max              |           | A      | 0         |        |        |        |         |       |
| Unit                 | Running current                    | Cooling          | Nom.      | A      | 871.1     | 848    | 931.7  | 1,005  | 1,101   | 1,206 |
|                      | Max                                |                  |           | A      | 1,156     | 1,124  | 1,227  | 1,351  | 1,475   | 1,608 |
| Power supply         | Phase/Frequency/Voltage            |                  |           | Hz/V   | 3~/50/400 |        |        |        |         |       |

# Inverter screw with GOLD efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,770 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range

- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAD-TZXSD           |                                    |          |           |  | 295              | 345       | 380    | 440   | 515     | 525   | 565     |         |     |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|--------|-------|---------|-------|---------|---------|-----|
| SEER                 |                                    |          |           |  | 5.605            | 6.007     | 5.961  | 6.165 | 6.019   | 6.002 | 6.251   |         |     |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 294.4     | 344.4  | 378   | 434.8   | 507.9 | 560.5   |         |     |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 89.4   | 102.5 | 116.8   | 120.6 | 150     | 146.6   | 162 |
| Capacity control     | Method                             |          |           |  | Stepless         |           |        |       |         |       |         |         |     |
| Minimum capacity     |                                    |          |           |  | %                | 22        | 19     | 17    | 28      | 23    | 13      | 22      |     |
| EER                  |                                    |          |           |  |                  | 3.3       | 3.4    | 3.2   | 3.6     | 3.4   | 3.6     | 3.5     |     |
| IPLV                 |                                    |          |           |  |                  | 6         | 6.3    | 6.1   | 6.6     | 6.5   | 6.3     | 6.7     |     |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553  |       |         |       |         |         |     |
|                      |                                    | Width    |           |  |                  | mm        | 2,238  |       |         |       |         |         |     |
|                      |                                    | Depth    |           |  |                  | mm        | 3,640  | 4,720 |         | 5,800 |         | 6,880   |     |
| Weight               | Unit                               |          |           |  | kg               | 3,255     | 3,775  |       | 4,569   |       | 5,348   | 5,136   |     |
|                      | Operation weight                   |          |           |  | kg               | 3,335     | 3,868  | 3,873 | 4,687   | 4,697 | 5,673   | 5,287   |     |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |        |       |         |       |         |         |     |
| Compressor           | Type                               |          |           |  | Screw compressor |           |        |       |         |       |         |         |     |
| Fan                  | Quantity                           |          |           |  | 1                |           |        |       |         |       | 2       | 1       |     |
|                      | Type                               |          |           |  | Direct propeller |           |        |       |         |       |         |         |     |
|                      | Quantity                           |          |           |  | 6                | 8         |        | 10    |         | 12    |         |         |     |
| Sound power level    | Air flow rate                      | Cooling  | Nom.      |  | l/s              | 33,930    | 45,240 |       | 56,540  |       | 67,860  | 68,280  |     |
|                      | Cooling                            | Nom.     |           |  |                  | dBA       | 97     | 98    | 103     | 96    | 97      | 100     |     |
| Sound pressure level | Cooling                            | Nom.     |           |  |                  | dBA       | 80     | 82    | 83      | 75    | 76      | 79      | 76  |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB             | -20 ~46   |        |       |         |       |         |         |     |
| Refrigerant          | Type/GWP                           |          |           |  | R-134a/1,430     |           |        |       |         |       |         |         |     |
|                      | Charge                             |          |           |  | kg               | 40        | 45     | 50    | 60      | 70    |         | 75      |     |
|                      | Circuits                           | Quantity |           |  |                  | 1         |        |       |         |       |         | 2       | 1   |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 88.9mm           |           |        |       | 139.7mm |       | 168.3mm | 139.7mm |     |
| Unit                 | Starting current                   | Max      |           |  |                  | A         | 0      |       |         |       |         |         |     |
|                      | Running current                    | Cooling  | Nom.      |  | A                | 188.5     | 216.8  | 235.8 | 247.6   | 291.7 | 319.1   | 316.3   |     |
|                      | Max                                |          |           |  | A                | 224       | 261    | 289   | 314     | 342   | 389     | 404     |     |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |        |       |         |       |         |         |     |

| EWAD-TZXSD           |                                    |          |           |  | 565              | 610       | 635     | 670     | 705     | 725     | 760     |         |       |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|---------|---------|---------|---------|---------|---------|-------|
| SEER                 |                                    |          |           |  | 5.937            | 5.999     | 6.146   | 5.891   | 5.552   | 5.94    | 5.308   |         |       |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 565.9     | 610.7   | 629     | 668.1   | 701     | 757.3   |         |       |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 163.3   | 177     | 190.8   | 201.3   | 207.2   | 219.5   | 233.1 |
| Capacity control     | Method                             |          |           |  | Stepless         |           |         |         |         |         |         |         |       |
| Minimum capacity     |                                    |          |           |  | %                | 12        | 11      | 19      | 10      | 30      | 10      | 28      |       |
| EER                  |                                    |          |           |  |                  | 3.5       |         | 3.3     |         | 3.4     | 3.3     | 3.2     |       |
| IPLV                 |                                    |          |           |  |                  | 6.1       | 6.2     | 6.5     | 6.1     | 5.7     | 6.2     | 5.6     |       |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553   |         |         |         |         |         |       |
|                      |                                    | Width    |           |  |                  | mm        | 2,238   |         |         |         |         |         |       |
|                      |                                    | Depth    |           |  |                  | mm        | 6,880   | 7,960   | 6,880   | 7,960   | 6,880   | 7,960   | 6,880 |
| Weight               | Unit                               |          |           |  | kg               | 5,348     | 5,829   | 5,136   | 5,829   | 5,805   | 5,946   | 5,805   |       |
|                      | Operation weight                   |          |           |  | kg               | 5,683     | 6,169   | 5,297.3 | 6,174   | 5,976.3 | 6,344   | 5,986.3 |       |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |         |         |         |         |         |         |       |
| Compressor           | Type                               |          |           |  | Screw compressor |           |         |         |         |         |         |         |       |
| Fan                  | Quantity                           |          |           |  | 2                |           |         |         | 2       | 1       | 2       | 1       |       |
|                      | Type                               |          |           |  | Direct propeller |           |         |         |         |         |         |         |       |
|                      | Quantity                           |          |           |  | 12               | 14        | 12      | 14      | 12      | 14      | 12      |         |       |
| Sound power level    | Air flow rate                      | Cooling  | Nom.      |  | l/s              | 67,860    | 79,170  | 68,280  | 79,170  | 68,280  | 79,170  | 68,280  |       |
|                      | Cooling                            | Nom.     |           |  |                  | dBA       | 100     | 101     | 105     | 101     | 99      | 102     | 100   |
| Sound pressure level | Cooling                            | Nom.     |           |  |                  | dBA       | 80      | 81      | 77      | 83      | 78      | 84      | 79    |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB             | -20 ~46   |         |         |         |         |         |         |       |
| Refrigerant          | Type/GWP                           |          |           |  | R-134a/1,430     |           |         |         |         |         |         |         |       |
|                      | Charge                             |          |           |  | kg               | 80        | 85      |         | 90      | 95      | 100     | 105     |       |
|                      | Circuits                           | Quantity |           |  |                  | 2         |         | 1       | 2       | 1       | 2       | 1       |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 168.3mm          |           | 139.7mm |         | 168.3mm | 139.7mm | 168.3mm | 139.7mm |       |
| Unit                 | Starting current                   | Max      |           |  |                  | A         | 0       |         |         |         |         |         |       |
|                      | Running current                    | Cooling  | Nom.      |  | A                | 348.1     | 378.7   | 359.4   | 420.8   | 383.5   | 443     | 421.6   |       |
|                      | Max                                |          |           |  | A                | 429       | 457     | 452     | 498     | 520     | 535     | 568     |       |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |         |         |         |         |         |         |       |



EWAD-TZXSD



MicroTech 4

| EWAD-TZXSD           |                                    |                  |           |  | 805   | 880       | 950     | C10     | H10     | H11   | C12     |       |
|----------------------|------------------------------------|------------------|-----------|--|-------|-----------|---------|---------|---------|-------|---------|-------|
| SEER                 |                                    |                  |           |  | 6.088 | 6.355     | 6.192   | 6.365   | 6.186   | 6.313 | 6.217   |       |
| Cooling capacity     | Nom.                               |                  |           |  | kW    | 802.3     | 877.7   | 949.4   | 993.6   | 1,062 | 1,194   |       |
| Power input          | Cooling                            | Nom.             |           |  |       | kW        | 233.2   | 250.8   | 282.1   | 292.3 | 325.1   |       |
| Capacity control     | Method                             | Stepless         |           |  |       |           |         |         |         |       |         |       |
| Minimum capacity     |                                    |                  |           |  | %     | 10        | 14      | 13      | 12      | 11    | 10      |       |
| EER                  |                                    |                  |           |  | 3.4   | 3.5       | 3.4     | 3.3     | 3.4     | 3.2   |         |       |
| IPLV                 |                                    |                  |           |  | 6.4   | 6.6       | 6.4     | 6.5     | 6.4     | 6.5   | 6.4     |       |
| Dimensions           | Unit                               | Height           |           |  |       | mm        | 2,553   |         |         |       |         |       |
|                      |                                    | Width            |           |  |       | mm        | 2,238   |         |         |       |         |       |
|                      |                                    | Depth            |           |  |       | mm        | 9,040   |         | 10,120  |       | 11,200  |       |
| Weight               | Unit                               |                  |           |  | kg    | 6,904     | 7,160   |         | 7,642   |       | 8,316   |       |
|                      | Operation weight                   |                  |           |  | kg    | 7,495     | 7,761   | 7,771   | 8,258   | 8,268 | 9,028   | 9,038 |
| Air heat exchanger   | Type                               | Microchannel     |           |  |       |           |         |         |         |       |         |       |
| Compressor           | Type                               | Screw compressor |           |  |       |           |         |         |         |       |         |       |
| Fan                  | Quantity                           | 2                |           |  |       |           |         |         |         |       |         |       |
|                      | Type                               | Direct propeller |           |  |       |           |         |         |         |       |         |       |
|                      | Quantity                           | 16               |           |  |       |           | 18      |         |         | 20    |         |       |
|                      | Air flow rate                      | Cooling          | Nom.      |  | l/s   | 90,480    |         |         | 101,780 |       | 113,080 |       |
| Sound power level    | Cooling                            | Nom.             |           |  |       | dBA       | 105     | 98      | 100     | 101   | 102     | 103   |
| Sound pressure level | Cooling                            | Nom.             |           |  |       | dBA       | 84      | 76      | 77      |       | 78      |       |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  |       |           | °CDB    | -20 ~46 |         |       |         |       |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |  |       |           |         |         |         |       |         |       |
| Piping connections   | Charge                             |                  |           |  | kg    | 110       | 120     | 130     | 135     | 145   | 155     | 165   |
|                      | Circuits                           | Quantity         |           |  |       |           |         |         |         |       |         |       |
|                      | Evaporator water inlet/outlet (OD) | 2                |           |  |       |           |         |         |         |       |         |       |
| Unit                 | Starting current                   | Max              |           |  |       | A         | 219.1mm |         |         |       |         |       |
| Unit                 | Running                            | Cooling          | Nom.      |  |       |           | A       | 470.4   | 496.7   | 543.6 | 565     | 613.9 |
|                      | current                            | Max              |           |  |       | A         | 573     | 626     | 683     | 720   | 782     | 803   |
|                      | Phase/Frequency/Voltage            |                  |           |  | Hz/V  | 3~/50/400 |         |         |         |       |         |       |

| EWAD-TZXSD           |                                    |                  |           |  | H12   | H13       | H14     | H15     | H16    | H17    |        |  |
|----------------------|------------------------------------|------------------|-----------|--|-------|-----------|---------|---------|--------|--------|--------|--|
| SEER                 |                                    |                  |           |  | 6.126 | 6.14      | 5.896   | 5.807   | 5.723  | 5.629  |        |  |
| Cooling capacity     | Nom.                               |                  |           |  | kW    | 1,286     | 1,359   | 1,454   | 1,567  | 1,770  |        |  |
| Power input          | Cooling                            | Nom.             |           |  |       | kW        | 402.4   | 425.5   | 419.5  | 472.2  |        |  |
| Capacity control     | Method                             | Stepless         |           |  |       |           |         |         |        |        |        |  |
| Minimum capacity     |                                    |                  |           |  | %     | 10        |         | 15      | 14     | 13     |        |  |
| EER                  |                                    |                  |           |  | 3.2   | 3.5       | 3.5     | 3.3     | 3.2    | 3      |        |  |
| IPLV                 |                                    |                  |           |  | 6.3   |           | 6.1     | 6.3     | 6.2    | 6      |        |  |
| Dimensions           | Unit                               | Height           |           |  |       | mm        | 2,553   |         |        |        |        |  |
|                      |                                    | Width            |           |  |       | mm        | 2,238   |         |        |        |        |  |
|                      |                                    | Depth            |           |  |       | mm        | 11,200  | 12,280  | 13,360 |        |        |  |
| Weight               | Unit                               |                  |           |  | kg    | 8,316     | 9,655   | 10,805  |        |        |        |  |
|                      | Operation weight                   |                  |           |  | kg    | 9,053     | 10,856  | 12,016  | 12,031 | 12,046 | 12,061 |  |
| Air heat exchanger   | Type                               | Microchannel     |           |  |       |           |         |         |        |        |        |  |
| Compressor           | Type                               | Screw compressor |           |  |       |           |         |         |        |        |        |  |
| Fan                  | Quantity                           | 2                |           |  |       |           |         |         |        |        |        |  |
|                      | Type                               | Direct propeller |           |  |       |           |         |         |        |        |        |  |
|                      | Quantity                           | 20               |           |  |       |           | 22      |         | 24     |        |        |  |
|                      | Air flow rate                      | Cooling          | Nom.      |  | l/s   | 113,080   | 124,390 | 135,700 |        |        |        |  |
| Sound power level    | Cooling                            | Nom.             |           |  |       | dBA       | 108     | 106     | 102    | 103    | 104    |  |
| Sound pressure level | Cooling                            | Nom.             |           |  |       | dBA       | 78      | 79      |        | 80     | 81     |  |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  |       |           | °CDB    | -20 ~46 |        |        |        |  |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |  |       |           |         |         |        |        |        |  |
| Piping connections   | Charge                             |                  |           |  | kg    | 180       | 190     | 200     | 215    | 230    | 245    |  |
|                      | Circuits                           | Quantity         |           |  |       |           |         |         |        |        |        |  |
|                      | Evaporator water inlet/outlet (OD) | 219.1mm          |           |  |       |           | 273mm   |         |        |        |        |  |
| Unit                 | Starting current                   | Max              |           |  |       | A         | 0       |         |        |        |        |  |
| Unit                 | Running                            | Cooling          | Nom.      |  |       |           | A       | 737.2   | 777.9  | 774.1  | 852    |  |
|                      | current                            | Max              |           |  |       | A         | 851     | 899     | 997    | 1,103  | 1,217  |  |
|                      | Phase/Frequency/Voltage            |                  |           |  | Hz/V  | 3~/50/400 |         |         |        |        |        |  |



- | EWAD-TZXRD           |                                    |          |           |     | 295              | 345       | 380     | 440     | 515     | 525   | 565     |   |
|----------------------|------------------------------------|----------|-----------|-----|------------------|-----------|---------|---------|---------|-------|---------|---|
| SEER                 |                                    |          |           |     | 5.507            | 5.938     | 5.866   | 6.042   | 5.901   | 6.037 | 6.159   |   |
| Cooling capacity     | Nom.                               |          | kW        |     | 290.7            | 340.9     | 373.4   | 431     | 502.3   | 518.8 | 555.4   |   |
| Power input          | Cooling                            | Nom.     |           | kW  | 89.12            | 101.1     | 116.3   | 118.5   | 149.8   | 144.1 | 160.2   |   |
| Capacity control     | Method                             |          |           |     | Stepless         |           |         |         |         |       |         |   |
| Minimum capacity     |                                    |          |           |     | 22               | 19        | 17      | 28      | 23      | 13    | 22      |   |
|                      |                                    |          |           |     | 3.3              | 3.4       | 3.2     | 3.6     | 3.4     | 3.6   | 3.5     |   |
| EER                  |                                    |          |           |     | 6.1              | 6.3       | 6.2     | 6.5     |         | 6.3   | 6.7     |   |
| Dimensions           | Unit                               | Height   | mm        |     | 2,553            |           |         |         |         |       |         |   |
|                      |                                    | Width    | mm        |     | 2,238            |           |         |         |         |       |         |   |
|                      |                                    | Depth    | mm        |     | 3,640            | 4,720     |         | 5,800   |         | 6,880 |         |   |
| Weight               | Unit                               |          |           | kg  | 3,375            | 3,895     |         | 4,689   |         | 5,468 | 5,256   |   |
|                      | Operation weight                   |          |           | kg  | 3,455            | 3,988     | 3,993   | 4,807.1 | 4,817.1 | 5,793 | 5,407.3 |   |
| Air heat exchanger   | Type                               |          |           |     | Microchannel     |           |         |         |         |       |         |   |
| Compressor           | Type                               |          |           |     | Screw compressor |           |         |         |         |       |         |   |
| Quantity             |                                    |          |           |     | 1                |           |         |         |         | 2     | 1       |   |
|                      |                                    |          |           |     |                  |           |         |         |         |       |         |   |
| Fan                  | Type                               |          |           |     | Direct propeller |           |         |         |         |       |         |   |
|                      | Quantity                           |          |           |     | 6                | 8         |         | 10      |         | 12    |         |   |
|                      | Air flow rate                      | Cooling  | Nom.      |     | l/s              | 28,330    | 37,770  |         | 47,210  |       | 56,660  |   |
| Sound power level    | Cooling                            | Nom.     |           | dBA | 87               | 88        |         | 92      |         | 88    |         |   |
| Sound pressure level | Cooling                            | Nom.     |           | dBA | 68               |           | 71      |         | 67      |       | 68      |   |
| Operation range      | Air side                           | Cooling  | Min.~Max. |     | °CDB             | -20 ~46   |         |         |         |       |         |   |
| Refrigerant          | Type/GWP                           |          |           |     | R-134a/1,430     |           |         |         |         |       |         |   |
|                      | Charge                             |          |           | kg  | 40               | 45        |         | 50      |         | 60    |         |   |
|                      | Circuits                           | Quantity |           |     | 1                |           |         |         |         | 2     |         | 1 |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |     | 88.9mm           |           | 139.7mm |         | 168.3mm |       | 139.7mm |   |
| Unit                 | Starting current                   |          |           |     | Max              |           | A       |         |         |       |         |   |
|                      | Running                            | Cooling  | Nom.      |     | A                | 193.6     | 221.9   |         | 241.5   |       | 252.5   |   |
|                      | current                            | Max      |           | A   | 224              | 261       |         | 289     |         | 314   |         |   |
| Power supply         | Phase/Frequency/Voltage            |          |           |     | Hz/V             | 3~/50/400 |         |         |         |       |         |   |
- | EWAD-TZXRD           |                                    |          |           |     | 565              | 610       | 635     | 670              | 705     | 725    | 760     |     |
|----------------------|------------------------------------|----------|-----------|-----|------------------|-----------|---------|------------------|---------|--------|---------|-----|
| SEER                 |                                    |          |           |     | 5.944            | 6.029     | 6.039   | 5.922            | 5.418   | 5.964  | 5.358   |     |
| Cooling capacity     | Nom.                               |          | kW        |     | 559.5            | 604.2     | 622.3   | 660.4            | 691.7   | 714.9  | 745.6   |     |
| Power input          | Cooling                            | Nom.     |           | kW  | 161.7            | 174.5     | 190.5   | 200.1            | 209.3   | 219.2  | 236.6   |     |
| Capacity control     | Method                             |          |           |     | Stepless         |           |         |                  |         |        |         |     |
| Minimum capacity     |                                    |          |           |     | 12               | 11        | 19      | 10               | 30      | 10     | 28      |     |
|                      |                                    |          |           |     | 3.5              |           |         | 3.3              |         |        |         | 3.2 |
| EER                  |                                    |          |           |     | 6.2              |           | 6.6     | 6.1              | 5.8     | 6.2    | 5.8     |     |
| IPLV                 |                                    |          |           |     |                  |           |         |                  |         |        |         |     |
| Dimensions           | Unit                               | Height   | mm        |     | 2,553            |           |         |                  |         |        |         |     |
|                      |                                    | Width    | mm        |     | 2,238            |           |         |                  |         |        |         |     |
|                      |                                    | Depth    | mm        |     | 6,880            | 7,960     | 6,880   | 7,960            | 6,880   | 7,960  | 6,880   |     |
| Weight               | Unit                               |          |           | kg  | 5,468            | 5,949     | 5,256   | 5,949            | 5,925   | 6,066  | 5,925   |     |
|                      | Operation weight                   |          |           | kg  | 5,803            | 6,289     | 5,417.3 | 6,294            | 6,096.3 | 6,464  | 6,106.3 |     |
| Air heat exchanger   | Type                               |          |           |     | Microchannel     |           |         |                  |         |        |         |     |
| Compressor           | Type                               |          |           |     | Screw compressor |           |         |                  |         |        |         |     |
| Quantity             |                                    |          |           |     | 2                |           | 1       | 2                | 1       | 2      | 1       |     |
|                      |                                    |          |           |     |                  |           |         | Direct propeller |         |        |         |     |
| Fan                  | Type                               |          |           |     |                  |           |         |                  |         |        |         |     |
|                      | Quantity                           |          |           |     | 12               | 14        | 12      | 14               | 12      | 14     | 12      |     |
|                      | Air flow rate                      | Cooling  | Nom.      |     | l/s              | 56,660    | 66,100  | 56,660           | 66,100  | 56,660 | 66,100  |     |
| Sound power level    | Cooling                            | Nom.     |           | dBA | 90               | 91        | 93      | 91               | 90      | 92     | 90      |     |
| Sound pressure level | Cooling                            | Nom.     |           | dBA | 69               |           | 72      |                  | 69      |        | 68      |     |
| Operation range      | Air side                           | Cooling  | Min.~Max. |     | °CDB             | -20 ~46   |         |                  |         |        |         |     |
| Refrigerant          | Type/GWP                           |          |           |     | R-134a/1,430     |           |         |                  |         |        |         |     |
|                      | Charge                             |          |           | kg  | 80               | 85        |         | 90               |         | 95     |         |     |
|                      | Circuits                           | Quantity |           |     | 2                |           | 1       |                  | 2       |        | 1       |     |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |     | 168.3mm          |           | 139.7mm |                  | 168.3mm |        | 139.7mm |     |
| Unit                 | Starting current                   |          |           |     | Max              |           | A       |                  |         |        |         |     |
|                      | Running                            | Cooling  | Nom.      |     | A                | 356.7     | 387.5   |                  | 368.6   |        | 431.6   |     |
|                      | current                            | Max      |           | A   | 429              | 457       |         | 452              |         | 498    |         |     |
| Power supply         | Phase/Frequency/Voltage            |          |           |     | Hz/V             | 3~/50/400 |         |                  |         |        |         |     |



EWAD-TZXRD



MicroTech 4

| EWAD-TZXRD           |                                    |          |           |       | 805      | 880              | 950   | C10    | H10   | H11    | C12   |       |       |
|----------------------|------------------------------------|----------|-----------|-------|----------|------------------|-------|--------|-------|--------|-------|-------|-------|
| SEER                 |                                    |          |           |       | 6.169    | 6.363            | 6.179 | 6.354  | 6.217 | 6.34   | 6.191 |       |       |
| Cooling capacity     | Nom.                               |          |           |       | kW       | 792.9            | 867.7 | 937.7  | 982.6 | 1,049  | 1,179 |       |       |
| Power input          | Cooling                            | Nom.     |           |       |          | kW               | 231.9 | 250.8  | 283.9 | 292.8  | 327.6 | 338   | 373.2 |
| Capacity control     | Method                             |          |           |       | Stepless |                  |       |        |       |        |       |       |       |
|                      | Minimum capacity                   |          |           |       | %        | 10               | 14    | 13     | 12    | 11     |       | 10    |       |
| EER                  |                                    |          |           |       | 3.4      | 3.5              | 3.3   | 3.4    | 3.2   | 3.3    | 3.2   |       |       |
| IPLV                 |                                    |          |           |       | 6.4      | 6.6              | 6.4   | 6.6    | 6.4   | 6.6    | 6.4   |       |       |
| Dimensions           | Unit                               | Height   | Width     | Depth | mm       | 2,553            |       |        |       |        |       |       |       |
|                      |                                    |          |           |       |          | 2,238            |       |        |       |        |       |       |       |
|                      |                                    |          |           |       |          | 9,040            |       | 10,120 |       | 11,200 |       |       |       |
| Weight               | Unit                               |          |           |       | kg       | 7,024            | 7,280 |        | 7,762 |        | 8,436 |       |       |
|                      | Operation weight                   |          |           |       | kg       | 7,615            | 7,881 | 7,891  | 8,378 | 8,388  | 9,148 | 9,158 |       |
| Air heat exchanger   | Type                               |          |           |       |          | Microchannel     |       |        |       |        |       |       |       |
| Compressor           | Type                               |          |           |       |          | Screw compressor |       |        |       |        |       |       |       |
|                      | Quantity                           |          |           |       |          | 2                |       |        |       |        |       |       |       |
| Fan                  | Type                               |          |           |       |          | Direct propeller |       |        |       |        |       |       |       |
|                      | Quantity                           |          |           |       |          | 16               |       | 18     |       | 20     |       |       |       |
|                      | Air flow rate                      | Cooling  | Nom.      |       | l/s      | 75,540           |       | 84,980 |       | 94,420 |       |       |       |
| Sound power level    | Cooling                            | Nom.     |           |       | dBA      | 94               | 90    | 91     | 92    | 93     | 94    |       |       |
| Sound pressure level | Cooling                            | Nom.     |           |       | dBA      | 72               | 68    | 69     |       | 70     | 72    |       |       |
| Operation range      | Air side                           | Cooling  | Min.~Max. |       | °CDB     | -20 ~46          |       |        |       |        |       |       |       |
| Refrigerant          | Type/GWP                           |          |           |       |          | R-134a/1,430     |       |        |       |        |       |       |       |
|                      | Charge                             |          |           |       | kg       | 110              | 120   | 130    | 135   | 145    | 155   | 165   |       |
|                      | Circuits                           | Quantity |           |       |          | 2                |       |        |       |        |       |       |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |       |          | 219.1mm          |       |        |       |        |       |       |       |
| Unit                 | Starting current                   | Max      |           |       |          | A                | 0     |        |       |        |       |       |       |
|                      | Running                            | Cooling  | Nom.      |       | A        | 481.4            | 509.6 | 559.3  | 580.3 | 632.1  | 655.3 | 707.6 |       |
|                      | current                            | Max      |           |       |          | A                | 573   | 626    | 683   | 720    | 782   | 744   | 803   |
| Power supply         | Phase/Frequency/Voltage            |          |           |       | Hz/V     | 3~/50/400        |       |        |       |        |       |       |       |

| EWAD-TZXRD           |                                    |          |           |       | H12      | H13              | H14     | H15     | H16    | H17    |       |       |
|----------------------|------------------------------------|----------|-----------|-------|----------|------------------|---------|---------|--------|--------|-------|-------|
| SEER                 |                                    |          |           |       | 6.12     | 6.181            | 5.883   | 5.764   | 5.704  | 5.537  |       |       |
| Cooling capacity     | Nom.                               |          |           |       | kW       | 1,268            | 1,341   | 1,434   | 1,543  | 1,641  | 1,729 |       |
| Power input          | Cooling                            | Nom.     |           |       |          | kW               | 408     | 430.2   | 424.5  | 480.3  | 539.4 | 603.9 |
| Capacity control     | Method                             |          |           |       | Stepless |                  |         |         |        |        |       |       |
|                      | Minimum capacity                   |          |           |       | %        | 10               | 3.1     | 15      | 14     | 13     | 12    |       |
| EER                  |                                    |          |           |       | 3.2      |                  | 3.4     | 3.2     | 3      | 2.9    |       |       |
| IPLV                 |                                    |          |           |       | 6.4      |                  | 6.1     | 5.9     | 6.2    | 5.8    |       |       |
| Dimensions           | Unit                               | Height   | Width     | Depth | mm       | 2,553            |         |         |        |        |       |       |
|                      |                                    |          |           |       |          | 2,238            |         |         |        |        |       |       |
|                      |                                    |          |           |       |          | 11,200           | 12,280  | 13,360  |        |        |       |       |
| Weight               | Unit                               |          |           |       | kg       | 8,436            | 9,775   | 10,925  |        | 12,166 |       |       |
|                      | Operation weight                   |          |           |       | kg       | 9,173            | 10,976  | 12,136  | 12,151 | 12,181 |       |       |
| Air heat exchanger   | Type                               |          |           |       |          | Microchannel     |         |         |        |        |       |       |
| Compressor           | Type                               |          |           |       |          | Screw compressor |         |         |        |        |       |       |
|                      | Quantity                           |          |           |       |          | 2                |         |         |        |        |       |       |
| Fan                  | Type                               |          |           |       |          | Direct propeller |         |         |        |        |       |       |
|                      | Quantity                           |          |           |       |          | 20               | 22      | 24      |        |        |       |       |
|                      | Air flow rate                      | Cooling  | Nom.      |       | l/s      | 94,420           | 103,870 | 113,320 |        |        |       |       |
| Sound power level    | Cooling                            | Nom.     |           |       | dBA      | 96               | 95      | 93      |        | 94     |       |       |
| Sound pressure level | Cooling                            | Nom.     |           |       | dBA      | 74               | 72      | 69      | 70     | 71     |       |       |
| Operation range      | Air side                           | Cooling  | Min.~Max. |       | °CDB     | -20 ~46          |         |         |        |        |       |       |
| Refrigerant          | Type/GWP                           |          |           |       |          | R-134a/1,430     |         |         |        |        |       |       |
|                      | Charge                             |          |           |       | kg       | 180              | 190     | 200     | 215    | 230    | 245   |       |
|                      | Circuits                           | Quantity |           |       |          | 2                |         |         |        |        |       |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |       |          | 219.1mm          | 273mm   |         |        |        |       |       |
| Unit                 | Starting current                   | Max      |           |       |          | A                | 0       |         |        |        |       |       |
|                      | Running                            | Cooling  | Nom.      |       | A        | 761.7            | 802.5   | 800.7   | 883.2  | 970.5  | 1,066 |       |
|                      | current                            | Max      |           |       |          | A                | 851     | 899     | 997    | 1,103  | 1,217 | 1,330 |
| Power supply         | Phase/Frequency/Voltage            |          |           |       | Hz/V     | 3~/50/400        |         |         |        |        |       |       |

# Inverter screw with PLATINUM efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range

- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAD-TZPSD           |                                    |                  |           |      | 285            | 330    | 370   | 405     | 450     | 490     |     |
|----------------------|------------------------------------|------------------|-----------|------|----------------|--------|-------|---------|---------|---------|-----|
| SEER                 |                                    |                  |           |      | 6.29           | 6.465  | 6.389 | 6.687   | 6.64    | 6.567   |     |
| Cooling capacity     | Nom.                               | kW               |           |      | 285.8          | 330.4  | 367.9 | 401.5   | 447     | 486.1   |     |
| Power input          | Cooling                            | Nom.             | kW        |      |                | 77.75  | 92.02 | 106     | 105.2   | 117.3   |     |
| Capacity control     | Method                             |                  |           |      | Stepless       |        |       |         |         |         |     |
|                      | Minimum capacity                   | %                |           |      | 23             | 20     | 18    | 30      | 28      | 25      |     |
| EER                  |                                    |                  |           |      | 3.7            | 3.6    | 3.5   | 3.8     |         | 3.7     |     |
| IPLV                 |                                    |                  |           |      | 6.7            |        | 6.6   | 7.3     | 7.6     | 7.5     |     |
| Dimensions           | Unit                               | Height           | mm        |      |                | 2,553  |       |         |         |         |     |
|                      |                                    | Width            | mm        |      |                | 2,238  |       |         |         |         |     |
|                      |                                    | Depth            | mm        |      |                | 4,720  | 5,800 |         | 6,880   |         |     |
| Weight               | Unit                               | kg               |           |      | 3,775          | 4,256  |       | 5,050   | 5,136   |         |     |
|                      | Operation weight                   | kg               |           |      | 3,863          | 4,349  | 4,354 | 5,163.1 | 5,272.3 | 5,277.3 |     |
| Air heat exchanger   | Type                               | Microchannel     |           |      |                |        |       |         |         |         |     |
| Compressor           | Type                               | Screw compressor |           |      |                |        |       |         |         |         |     |
|                      | Quantity                           | 1                |           |      |                |        |       |         |         |         |     |
| Fan                  | Type                               | Direct propeller |           |      |                |        |       |         |         |         |     |
|                      | Quantity                           |                  |           |      | 8              | 10     |       | 12      |         |         |     |
|                      | Air flow rate                      | Cooling          | Nom.      | I/s  | 45,240         | 56,540 |       | 67,850  |         |         |     |
| Sound power level    | Cooling                            | Nom.             | dBA       |      |                | 97     | 98    | 100     | 95      | 96      | 98  |
| Sound pressure level | Cooling                            | Nom.             | dBA       |      |                | 78     | 81    | 82      | 74      | 75      |     |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB | -20 ~46        |        |       |         |         |         |     |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |      |                |        |       |         |         |         |     |
|                      | Charge                             | kg               |           |      | 40             | 45     | 50    | 55      | 60      | 65      |     |
|                      | Circuits                           | Quantity         |           |      | 1              |        |       |         |         |         |     |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |           |      | 88.9mm         |        |       | 139.7mm |         |         |     |
| Unit                 | Starting current                   | Max              |           |      | A              |        |       | 0       |         |         |     |
|                      | Running                            | Cooling          | Nom.      | A    | 174            | 204    | 229   | 233     | 249     | 269     |     |
|                      | current                            | Max              |           |      | A              | 220    | 258   | 285     | 293     | 352     | 404 |
| Power supply         | Phase/Frequency/Voltage            |                  |           |      | Hz/V 3~/50/400 |        |       |         |         |         |     |

| EWAD-TZPSD           |                                    |                  |           |      | 530            | 575   | 615    | 675   | 735   |     |
|----------------------|------------------------------------|------------------|-----------|------|----------------|-------|--------|-------|-------|-----|
| SEER                 |                                    |                  |           |      | 6.391          | 6.301 | 6.28   | 6.161 | 6.216 |     |
| Cooling capacity     | Nom.                               | kW               |           |      | 529.6          | 571.8 | 617.7  | 676.1 | 733.5 |     |
| Power input          | Cooling                            | Nom.             | kW        |      |                | 143.1 | 158.6  | 171.1 | 194   |     |
| Capacity control     | Method                             | Stepless         |           |      |                |       |        |       |       |     |
|                      | Minimum capacity                   | %                |           |      | 13             | 12    | 11     | 10    |       |     |
| EER                  |                                    |                  |           |      | 3.7            |       | 3.6    | 3.5   |       |     |
| IPLV                 |                                    |                  |           |      | 6.7            | 6.6   | 6.5    | 6.4   | 6.5   |     |
| Dimensions           | Unit                               | Height           | mm        |      |                | 2,553 |        |       |       |     |
|                      |                                    | Width            | mm        |      |                | 2,238 |        |       |       |     |
|                      |                                    | Depth            | mm        |      |                | 7,960 | 9,040  |       |       |     |
| Weight               | Unit                               | kg               |           |      | 5,829          |       | 6,311  |       | 6,427 |     |
|                      | Operation weight                   | kg               |           |      | 6,159          | 6,164 | 6,651  | 6,661 | 6,825 |     |
| Air heat exchanger   | Type                               | Microchannel     |           |      |                |       |        |       |       |     |
| Compressor           | Type                               | Screw compressor |           |      |                |       |        |       |       |     |
|                      | Quantity                           | 2                |           |      |                |       |        |       |       |     |
| Fan                  | Type                               | Direct propeller |           |      |                |       |        |       |       |     |
|                      | Quantity                           |                  |           |      | 14             |       | 16     |       |       |     |
|                      | Air flow rate                      | Cooling          | Nom.      | I/s  | 79,170         |       | 90,480 |       |       |     |
| Sound power level    | Cooling                            | Nom.             | dBA       |      |                | 100   | 101    |       | 102   |     |
| Sound pressure level | Cooling                            | Nom.             | dBA       |      |                | 79    | 80     | 81    | 83    |     |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB | -20 ~46        |       |        |       |       |     |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |      |                |       |        |       |       |     |
|                      | Charge                             | kg               |           |      | 75             | 80    | 85     | 95    | 100   |     |
|                      | Circuits                           | Quantity         |           |      | 2              |       |        |       |       |     |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |           |      | 168.3mm        |       |        |       |       |     |
| Unit                 | Starting current                   | Max              |           |      | A 0            |       |        |       |       |     |
|                      | Running                            | Cooling          | Nom.      | A    | 318            | 345   | 374    | 414   | 442   |     |
|                      | current                            | Max              |           |      | A              | 399   | 429    | 468   | 508   | 535 |
| Power supply         | Phase/Frequency/Voltage            |                  |           |      | Hz/V 3~/50/400 |       |        |       |       |     |



EWAD-TZPSD



MicroTech 4

| EWAD-TZPSD           |                                    |                  |           |  | 810  | 890       | 960    | C10   | H10    | H11    |       |     |
|----------------------|------------------------------------|------------------|-----------|--|------|-----------|--------|-------|--------|--------|-------|-----|
| SEER                 |                                    |                  |           |  | 6.48 | 6.725     | 6.602  | 6.648 | 6.483  | 6.529  |       |     |
| Cooling capacity     | Nom.                               |                  |           |  | kW   | 809.8     | 885.5  | 958.4 | 1,003  | 1,137  |       |     |
| Power input          | Cooling                            | Nom.             |           |  |      | kW        | 226.1  | 242.4 | 271.7  | 312.5  | 325.9 |     |
| Capacity control     | Method                             | Stepless         |           |  |      |           |        |       |        |        |       |     |
| Minimum capacity     |                                    |                  |           |  | %    | 10        | 14     | 13    | 12     | 11     |       |     |
| EER                  |                                    |                  |           |  | 3.6  | 3.7       | 3.5    | 3.6   | 3.4    | 3.5    |       |     |
| IPLV                 |                                    |                  |           |  | 6.8  | 7         | 6.8    | 6.5   | 6.7    | 6.9    |       |     |
| Dimensions           | Unit                               | Height           |           |  |      | mm        | 2,553  |       |        |        |       |     |
|                      |                                    | Width            |           |  |      | mm        | 2,238  |       |        |        |       |     |
|                      |                                    | Depth            |           |  |      | mm        | 10,120 |       |        |        |       |     |
| Weight               | Unit                               |                  |           |  | kg   | 7,385     | 7,642  |       | 11,200 | 12,280 |       |     |
|                      | Operation weight                   |                  |           |  | kg   | 7,976     | 8,243  | 8,253 | 8,744  | 8,754  | 8,798 |     |
| Air heat exchanger   | Type                               | Microchannel     |           |  |      |           |        |       |        |        |       |     |
| Compressor           | Type                               | Screw compressor |           |  |      |           |        |       |        |        |       |     |
|                      | Quantity                           | 2                |           |  |      |           |        |       |        |        |       |     |
| Fan                  | Type                               | Direct propeller |           |  |      |           |        |       |        |        |       |     |
|                      | Quantity                           | 18               |           |  |      |           |        |       |        |        |       |     |
|                      | Air flow rate                      | Cooling          | Nom.      |  | l/s  | 101,780   |        |       | 20     | 22     |       |     |
| Sound power level    | Cooling                            | Nom.             |           |  |      | dBA       | 105    | 99    | 100    | 101    | 102   | 103 |
| Sound pressure level | Cooling                            | Nom.             |           |  |      | dBA       | 84     | 76    |        |        | 77    |     |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  | °CDB | -20 ~46   |        |       |        |        |       |     |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |  |      |           |        |       |        |        |       |     |
|                      | Charge                             |                  |           |  | kg   | 110       | 120    | 130   | 140    | 150    | 160   |     |
|                      | Circuits                           | Quantity         | 2         |  |      |           |        |       |        |        |       |     |
| Piping connections   | Evaporator water inlet/outlet (OD) | 219.1mm          |           |  |      |           |        |       |        |        |       |     |
| Unit                 | Starting current                   | Max              |           |  |      | A         | 0      |       |        |        |       |     |
|                      | Running                            | Cooling          | Nom.      |  | A    | 466       | 490    | 534   | 555    | 601    | 627   |     |
|                      | current                            | Max              |           |  |      | A         | 573    | 616   | 672    | 709    | 761   | 796 |
| Power supply         | Phase/Frequency/Voltage            |                  |           |  | Hz/V | 3~/50/400 |        |       |        |        |       |     |

| EWAD-TZPSD           |                                    |                  |           |  | C12   | H12       | H13    | H14    | H15    |        |       |
|----------------------|------------------------------------|------------------|-----------|--|-------|-----------|--------|--------|--------|--------|-------|
| SEER                 |                                    |                  |           |  | 6.398 | 6.263     | 6.31   | 5.978  | 5.928  |        |       |
| Cooling capacity     | Nom.                               |                  |           |  | kW    | 1,203     | 1,298  | 1,372  | 1,455  | 1,568  |       |
| Power input          | Cooling                            | Nom.             |           |  |       | kW        | 357.4  | 387.4  | 409.1  | 409.5  | 462.1 |
| Capacity control     | Method                             | Stepless         |           |  |       |           |        |        |        |        |       |
| Minimum capacity     |                                    |                  |           |  | %     | 10        |        |        | 15     | 14     |       |
| EER                  |                                    |                  |           |  |       | 3.4       |        |        | 3.6    | 3.4    |       |
| IPLV                 |                                    |                  |           |  | 6.7   |           | 6.6    |        | 6.2    | 6.5    |       |
| Dimensions           | Unit                               | Height           |           |  |       | mm        | 2,553  |        |        |        |       |
|                      |                                    | Width            |           |  |       | mm        | 2,238  |        |        |        |       |
|                      |                                    | Depth            |           |  |       | mm        | 12,280 |        |        |        |       |
| Weight               | Unit                               |                  |           |  | kg    | 8,798     | 9,655  | 10,136 |        | 10,805 |       |
|                      | Operation weight                   |                  |           |  | kg    | 9,520     | 10,846 | 11,337 | 12,021 | 12,036 |       |
| Air heat exchanger   | Type                               | Microchannel     |           |  |       |           |        |        |        |        |       |
| Compressor           | Type                               | Screw compressor |           |  |       |           |        |        |        |        |       |
|                      | Quantity                           | 2                |           |  |       |           |        |        |        |        |       |
| Fan                  | Type                               | Direct propeller |           |  |       |           |        |        |        |        |       |
|                      | Quantity                           | 22               |           |  |       |           |        |        |        |        |       |
|                      | Air flow rate                      | Cooling          | Nom.      |  | l/s   | 140,200   |        |        | 24     |        |       |
| Sound power level    | Cooling                            | Nom.             |           |  |       | dBA       | 105    | 108    | 106    | 102    | 103   |
| Sound pressure level | Cooling                            | Nom.             |           |  |       | dBA       | 78     |        |        | 79     | 80    |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  | °CDB  | -20 ~46   |        |        |        |        |       |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |  |       |           |        |        |        |        |       |
|                      | Charge                             |                  |           |  | kg    | 165       | 180    | 190    | 205    | 220    |       |
|                      | Circuits                           | Quantity         | 2         |  |       |           |        |        |        |        |       |
| Piping connections   | Evaporator water inlet/outlet (OD) | 219.1mm          |           |  |       |           |        |        |        |        |       |
| Unit                 | Starting current                   | Max              |           |  |       | A         | 0      |        |        |        |       |
|                      | Running                            | Cooling          | Nom.      |  | A     | 674       | 721    | 759    |        | 837    |       |
|                      | current                            | Max              |           |  |       | A         | 845    | 893    | 951    | 1,039  | 1,135 |
| Power supply         | Phase/Frequency/Voltage            |                  |           |  | Hz/V  | 3~/50/400 |        |        |        |        |       |



# Inverter screw with PLATINUM efficiency. Reduced sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAD-TZPRD           |                                    |          |           |  | 285              | 330       | 370     | 405     | 450     | 490     |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|---------|---------|---------|---------|
| SEER                 |                                    |          |           |  | 6.232            | 6.448     | 6.358   | 6.622   | 6.542   | 6.467   |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 283.7     | 328.4   | 365     | 398.8   | 443.9   |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 75.13   | 88.51   | 103.1   | 101     |
| Capacity control     | Method                             |          |           |  | Stepless         |           |         |         |         |         |
| Minimum capacity     |                                    |          |           |  | %                | 23        | 20      | 18      | 30      | 28      |
| EER                  |                                    |          |           |  |                  | 3.8       | 3.7     | 3.5     | 4       | 3.9     |
| IPLV                 |                                    |          |           |  |                  | 6.7       | 6.8     | 6.6     | 7.2     | 7.5     |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553   |         |         |         |
|                      |                                    | Width    |           |  |                  | mm        | 2,238   |         |         |         |
|                      |                                    | Depth    |           |  |                  | mm        | 4,720   | 5,800   |         | 6,880   |
| Weight               | Unit                               |          |           |  | kg               | 3,895     | 4,376   |         | 5,170   | 5,256   |
|                      | Operation weight                   |          |           |  | kg               | 3,983     | 4,469   | 4,474   | 5,283.1 | 5,392.3 |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |         |         |         |         |
| Compressor           | Type                               |          |           |  | Screw compressor |           |         |         |         |         |
| Quantity             |                                    |          |           |  | 1                |           |         |         |         |         |
| Fan                  | Type                               |          |           |  | Direct propeller |           |         |         |         |         |
|                      | Quantity                           |          |           |  | 8                | 10        |         | 12      |         |         |
| Air flow rate        | Cooling                            | Nom.     |           |  |                  | l/s       | 37,770  | 47,210  |         | 56,660  |
| Sound power level    | Cooling                            | Nom.     |           |  |                  | dBA       | 88      | 89      | 90      | 88      |
| Sound pressure level | Cooling                            | Nom.     |           |  |                  | dBA       | 68      |         | 69      | 67      |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  |                  |           | °CDB    | -20 ~46 |         |         |
| Refrigerant          | Type/GWP                           |          |           |  | R-134a/1,430     |           |         |         |         |         |
|                      | Charge                             |          |           |  | kg               | 40        | 45      | 50      | 55      | 60      |
|                      | Circuits                           | Quantity |           |  |                  | 1         |         |         |         |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 88.9mm           |           | 139.7mm |         |         |         |
| Unit                 | Starting current                   | Max      |           |  | A                | 0         |         |         |         |         |
|                      | Running                            | Cooling  | Nom.      |  |                  |           | A       | 176.6   | 207.4   | 232.7   |
|                      | current                            | Max      |           |  |                  | A         | 220     | 258     | 285     | 293     |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |         |         |         |         |

| EWAD-TZPRD           |                                    |          |           |  | 530              | 575       | 615    | 675     | 735   |       |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|--------|---------|-------|-------|
| SEER                 |                                    |          |           |  | 6.421            | 6.322     | 6.325  | 6.183   | 6.254 |       |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 524.8     | 566.5  | 612.5   | 669.9 |       |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 139    | 155.2   | 166.8 |       |
| Capacity control     | Method                             |          |           |  | Stepless         |           |        |         |       |       |
| Minimum capacity     |                                    |          |           |  | %                | 13        | 12     | 11      | 10    |       |
| EER                  |                                    |          |           |  |                  | 3.8       | 3.7    | 3.5     |       |       |
| IPLV                 |                                    |          |           |  |                  | 6.7       | 6.6    | 6.5     | 6.4   |       |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553  |         |       |       |
|                      |                                    | Width    |           |  |                  | mm        | 2,238  |         |       |       |
|                      |                                    | Depth    |           |  |                  | mm        | 7,960  | 9,040   |       |       |
| Weight               | Unit                               |          |           |  | kg               | 5,949     |        | 6,431   | 6,547 |       |
|                      | Operation weight                   |          |           |  | kg               | 6,279     | 6,284  | 6,771   | 6,781 |       |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |        |         |       |       |
| Compressor           | Type                               |          |           |  | Screw compressor |           |        |         |       |       |
| Quantity             |                                    |          |           |  | 2                |           |        |         |       |       |
| Fan                  | Type                               |          |           |  | Direct propeller |           |        |         |       |       |
|                      | Quantity                           |          |           |  | 14               | 16        |        |         |       |       |
| Air flow rate        | Cooling                            | Nom.     |           |  |                  | l/s       | 66,100 | 75,540  |       |       |
| Sound power level    | Cooling                            | Nom.     |           |  |                  | dBA       | 91     |         |       | 92    |
| Sound pressure level | Cooling                            | Nom.     |           |  |                  | dBA       | 69     |         |       | 70    |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  |                  |           | °CDB   | -20 ~46 |       |       |
| Refrigerant          | Type/GWP                           |          |           |  | R-134a/1,430     |           |        |         |       |       |
|                      | Charge                             |          |           |  | kg               | 75        | 80     | 85      | 95    | 100   |
|                      | Circuits                           | Quantity |           |  |                  | 2         |        |         |       |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 168.3mm          |           |        |         |       |       |
| Unit                 | Starting current                   | Max      |           |  | A                | 0         |        |         |       |       |
|                      | Running                            | Cooling  | Nom.      |  |                  |           | A      | 324.3   | 352.5 | 381.3 |
|                      | current                            | Max      |           |  |                  | A         | 399    | 429     | 468   | 508   |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |        |         |       |       |



EWAD-TZPRD



MicroTech 4

| EWAD-TZPRD           |                                    |                  |           |  | 810  | 890       | 960    | C10     | H10    | H11    |         |
|----------------------|------------------------------------|------------------|-----------|--|------|-----------|--------|---------|--------|--------|---------|
| SEER                 |                                    |                  |           |  | 6.51 | 6.771     | 6.598  | 6.661   | 6.515  | 6.683  |         |
| Cooling capacity     | Nom.                               |                  |           |  | kW   | 801.7     | 876.7  | 948.2   | 993    | 1,061  |         |
| Power input          | Cooling                            | Nom.             |           |  |      | kW        | 222.8  | 240.2   | 271.1  | 312.2  |         |
| Capacity control     | Method                             | Stepless         |           |  |      |           |        |         |        |        |         |
| Minimum capacity     |                                    |                  |           |  | %    | 10        | 14     | 13      | 12     | 11     |         |
| EER                  |                                    |                  |           |  | 3.6  |           | 3.5    |         | 3.4    | 3.5    |         |
| IPLV                 |                                    |                  |           |  | 6.8  | 7.1       | 6.9    |         | 6.7    | 7      |         |
| Dimensions           | Unit                               | Height           |           |  |      | mm        | 2,553  |         |        |        |         |
|                      |                                    | Width            |           |  |      | mm        | 2,238  |         |        |        |         |
|                      |                                    | Depth            |           |  |      | mm        | 10,120 |         |        |        |         |
| Weight               | Unit                               |                  |           |  | kg   | 7,505     | 7,762  |         | 11,200 | 12,280 |         |
|                      | Operation weight                   |                  |           |  | kg   | 8,096     | 8,363  | 8,373   | 8,864  | 8,874  |         |
| Air heat exchanger   | Type                               | Microchannel     |           |  |      |           |        |         |        |        |         |
| Compressor           | Type                               | Screw compressor |           |  |      |           |        |         |        |        |         |
| Fan                  | Quantity                           | 2                |           |  |      |           |        |         |        |        |         |
|                      | Type                               | Direct propeller |           |  |      |           |        |         |        |        |         |
|                      | Quantity                           |                  |           |  |      | 18        |        | 20      |        | 22     |         |
| Sound power level    | Air flow rate                      | Cooling          | Nom.      |  | l/s  | 84,980    |        |         |        | 94,420 | 103,870 |
|                      | Cooling                            | Nom.             |           |  |      | dB(A)     | 94     | 90      | 91     | 92     | 93      |
| Sound pressure level | Cooling                            | Nom.             |           |  |      | dB(A)     | 72     | 68      | 69     | 70     |         |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  |      |           | °CDB   | -20 ~46 |        |        |         |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |  |      |           |        |         |        |        |         |
|                      | Charge                             |                  |           |  |      | kg        | 110    | 120     | 130    | 140    | 150     |
|                      | Circuits                           |                  |           |  |      |           |        |         |        |        | 160     |
| Piping connections   | Quantity                           | 2                |           |  |      |           |        |         |        |        |         |
|                      | Evaporator water inlet/outlet (OD) | 219.1mm          |           |  |      |           |        |         |        |        |         |
|                      | Unit                               | Starting current | Max       |  |      |           | A      | 0       |        |        |         |
|                      | Running                            | Cooling          | Nom.      |  |      |           | A      | 475.1   | 501.2  | 547.7  | 568.5   |
|                      | current                            | Max              |           |  |      | A         | 573    | 616     | 672    | 709    | 616.6   |
| Power supply         | Phase/Frequency/Voltage            |                  |           |  | Hz/V | 3~/50/400 |        |         |        |        | 796     |

| EWAD-TZPRD           |                                    |                  |           |  | C12   | H12       | H13    | H14     | H15    |         |       |
|----------------------|------------------------------------|------------------|-----------|--|-------|-----------|--------|---------|--------|---------|-------|
| SEER                 |                                    |                  |           |  | 6.555 | 6.433     | 6.432  | 6.055   | 5.932  |         |       |
| Cooling capacity     | Nom.                               |                  |           |  | kW    | 1,190     | 1,282  | 1,356   | 1,435  |         |       |
| Power input          | Cooling                            | Nom.             |           |  |       | kW        | 357.7  | 389.9   | 410.4  |         |       |
| Capacity control     | Method                             | Stepless         |           |  |       |           |        |         |        |         |       |
| Minimum capacity     |                                    |                  |           |  | %     | 10        |        | 15      | 14     |         |       |
| EER                  |                                    |                  |           |  | 3.3   |           |        | 3.5     | 3.3    |         |       |
| IPLV                 |                                    |                  |           |  | 6.7   |           | 6.6    | 6.3     | 6.1    |         |       |
| Dimensions           | Unit                               | Height           |           |  |       | mm        | 2,553  |         |        |         |       |
|                      |                                    | Width            |           |  |       | mm        | 2,238  |         |        |         |       |
|                      |                                    | Depth            |           |  |       | mm        | 12,280 |         |        |         |       |
| Weight               | Unit                               |                  |           |  | kg    | 8,918     | 9,775  | 10,256  | 10,925 |         |       |
|                      | Operation weight                   |                  |           |  | kg    | 9,640     | 10,966 | 11,457  | 12,141 |         |       |
| Air heat exchanger   | Type                               | Microchannel     |           |  |       |           |        |         |        |         |       |
| Compressor           | Type                               | Screw compressor |           |  |       |           |        |         |        |         |       |
| Fan                  | Quantity                           | 2                |           |  |       |           |        |         |        |         |       |
|                      | Type                               | Direct propeller |           |  |       |           |        |         |        |         |       |
|                      | Quantity                           |                  |           |  |       | 22        |        | 24      |        |         |       |
| Sound power level    | Air flow rate                      | Cooling          | Nom.      |  | l/s   | 103,870   |        |         |        | 113,320 |       |
|                      | Cooling                            | Nom.             |           |  |       | dB(A)     | 95     | 96      | 95     | 93      |       |
| Sound pressure level | Cooling                            | Nom.             |           |  |       | dB(A)     | 72     | 74      | 72     | 69      |       |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  |       |           | °CDB   | -20 ~46 |        |         |       |
| Refrigerant          | Type/GWP                           | R-134a/1,430     |           |  |       |           |        |         |        |         |       |
|                      | Charge                             |                  |           |  |       | kg        | 165    | 180     | 190    | 205     |       |
|                      | Circuits                           |                  |           |  |       |           |        |         |        | 220     |       |
| Piping connections   | Quantity                           | 2                |           |  |       |           |        |         |        |         |       |
|                      | Evaporator water inlet/outlet (OD) |                  |           |  |       | 219.1mm   | 273mm  |         |        |         |       |
|                      | Unit                               | Starting current | Max       |  |       |           | A      | 0       |        |         |       |
|                      | Running                            | Cooling          | Nom.      |  |       |           | A      | 692.2   | 742.3  | 780.3   |       |
|                      | current                            | Max              |           |  |       | A         | 845    | 893     | 951    | 784.9   |       |
| Power supply         | Phase/Frequency/Voltage            |                  |           |  | Hz/V  | 3~/50/400 |        |         |        |         | 1,039 |

# Inverter screw cooling only with BLU efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range

- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAH-TZBSD           |                                    |          |           |       | 235              | 255    | 300       | 350     | 400    | 400    | 420   |  |
|----------------------|------------------------------------|----------|-----------|-------|------------------|--------|-----------|---------|--------|--------|-------|--|
| SEER                 |                                    |          |           |       | 4.491            | 4.373  | 4.355     | 4.666   | 4.428  | 4.588  | 4.601 |  |
| Cooling capacity     | Nom.                               |          | kW        |       | 235.4            | 255.6  | 301.6     | 359.8   | 398.5  |        | 417.2 |  |
| Power input          | Cooling                            | Nom.     |           | kW    | 79.49            | 92.42  | 118.2     | 117.9   | 140.7  |        | 151.4 |  |
| Capacity control     | Method                             |          |           |       | Stepless         |        |           |         |        |        |       |  |
| Minimum capacity     |                                    |          |           |       | 19               | 17     | 14        | 23      | 12     | 20     | 19    |  |
|                      |                                    |          |           |       | 2.961            | 2.766  | 2.552     | 3.052   | 2.832  |        | 2.755 |  |
| IPLV                 |                                    |          |           |       | 4.484            | 4.419  | 4.369     | 4.683   | 4.411  | 4.584  | 4.558 |  |
| Dimensions           | Unit                               | Height   | mm        |       | 2,553            |        |           |         |        |        |       |  |
|                      |                                    | Width    | mm        |       | 2,238            |        |           |         |        |        |       |  |
|                      |                                    | Depth    | mm        |       | 2,560            |        | 3,640     | 4,720   | 3,640  |        |       |  |
| Weight               | Unit                               | kg       |           | 2,559 |                  | 2,589  | 3,486     | 3,751   | 3,486  |        |       |  |
|                      | Operation weight                   |          | kg        |       | 2,589            | 2,594  | 2,629     | 3,536   | 3,806  | 3,541  |       |  |
| Air heat exchanger   | Type                               |          |           |       | Microchannel     |        |           |         |        |        |       |  |
| Compressor           | Type                               |          |           |       | Screw compressor |        |           |         |        |        |       |  |
| Fan                  | Quantity                           |          |           |       | 1                |        | 2         |         | 1      |        |       |  |
|                      | Type                               |          |           |       | Direct propeller |        |           |         |        |        |       |  |
|                      | Quantity                           |          |           |       | 4                |        | 6         | 8       | 6      |        |       |  |
| Sound power level    | Air flow rate                      | Cooling  | Nom.      | l/s   | 25,490           | 25,493 |           | 38,240  | 50,987 | 38,240 |       |  |
|                      | Cooling                            | Nom.     |           | dBA   | 97.5             | 99.8   | 101.2     | 96.7    | 97.5   | 97.6   | 97.7  |  |
| Sound pressure level | Cooling                            | Nom.     |           | dBA   | 78.41            | 80.65  | 82.11     | 76.96   | 77.19  | 77.88  | 78    |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB  | 5~46             |        |           |         |        |        |       |  |
| Refrigerant          | Type/GWP                           |          |           |       | R-1234(ze)/7     |        |           |         |        |        |       |  |
|                      | Charge                             | kg       |           | 30    | 35               | 40     | 50        | 55      |        |        |       |  |
|                      | Circuits                           | Quantity |           | 1     |                  | 2      |           | 1       |        |        |       |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |       | 88.9mm           |        |           | 139.7mm |        |        |       |  |
| Unit                 | Starting current                   |          |           |       | Max              |        | A         |         | 0      |        |       |  |
|                      | Running                            | Cooling  | Nom.      | A     | 159              | 181    | 219       | 221     | 255    |        | 271   |  |
|                      | current                            | Max      |           | A     | 204              | 227    | 268       | 291     | 334    |        | 355   |  |
| Power supply         | Phase/Frequency/Voltage            |          |           |       | Hz/V             |        | 3~/50/400 |         |        |        |       |  |

| EWAH-TZBSD           |                                    |          |           |       | 425              | 455    | 485       | 505     | 545    | 545     | 590    |  |
|----------------------|------------------------------------|----------|-----------|-------|------------------|--------|-----------|---------|--------|---------|--------|--|
| SEER                 |                                    |          |           |       | 4.571            | 4.593  | 4.603     | 4.565   | 4.557  | 4.595   | 4.568  |  |
| Cooling capacity     | Nom.                               |          | kW        |       | 425.2            | 448.8  | 487.5     | 500     | 537.5  |         | 576.1  |  |
| Power input          | Cooling                            | Nom.     |           | kW    | 135.6            | 176.2  | 162       | 204.3   | 202.2  |         | 201.2  |  |
| Capacity control     | Method                             |          |           |       | Stepless         |        |           |         |        |         |        |  |
| Minimum capacity     |                                    |          |           |       | 11               | 17     | 10        | 15      |        | 10      |        |  |
|                      |                                    |          |           |       | 3.137            | 2.547  | 3.009     | 2.447   | 2.658  |         | 2.864  |  |
| IPLV                 |                                    |          |           |       | 4.407            | 4.537  | 4.451     | 4.523   | 4.492  | 4.462   | 4.402  |  |
| Dimensions           | Unit                               | Height   | mm        |       | 2,553            |        |           |         |        |         |        |  |
|                      |                                    | Width    | mm        |       | 2,238            |        |           |         |        |         |        |  |
|                      |                                    | Depth    | mm        |       | 4,720            | 3,640  | 4,720     | 3,640   | 4,720  |         | 5,800  |  |
| Weight               | Unit                               | kg       |           | 3,751 | 3,486            | 3,941  | 3,871     | 4,353   | 3,971  | 4,422   |        |  |
|                      | Operation weight                   |          | kg        |       | 3,811            | 3,546  | 4,006     | 3,941   | 4,428  | 4,046   | 4,502  |  |
| Air heat exchanger   | Type                               |          |           |       | Microchannel     |        |           |         |        |         |        |  |
| Compressor           | Type                               |          |           |       | Screw compressor |        |           |         |        |         |        |  |
| Fan                  | Quantity                           |          |           |       | 2                | 1      | 2         | 1       |        | 2       |        |  |
|                      | Type                               |          |           |       | Direct propeller |        |           |         |        |         |        |  |
|                      | Quantity                           |          |           |       | 8                | 6      | 8         | 6       | 8      |         | 10     |  |
| Sound power level    | Air flow rate                      | Cooling  | Nom.      | l/s   | 50,987           | 38,240 | 50,987    | 38,240  | 50,990 | 50,987  | 63,733 |  |
|                      | Cooling                            | Nom.     |           | dBA   | 100.4            | 100.3  | 100.6     | 101.9   | 103    | 102.8   | 103.9  |  |
| Sound pressure level | Cooling                            | Nom.     |           | dBA   | 80.12            | 80.61  | 80.29     | 82.2    | 82.7   | 82.53   | 83.21  |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB  | 5~46             |        |           |         |        |         |        |  |
| Refrigerant          | Type/GWP                           |          |           |       | R-1234(ze)/7     |        |           |         |        |         |        |  |
|                      | Charge                             | kg       |           | 60    |                  | 65     | 70        | 75      |        | 80      |        |  |
|                      | Circuits                           | Quantity |           | 2     | 1                | 2      | 1         |         | 2      |         |        |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |       | 139.7mm          |        | 168.3mm   | 139.7mm |        | 168.3mm |        |  |
| Unit                 | Starting current                   |          |           |       | Max              |        | A         |         | 0      |         |        |  |
|                      | Running                            | Cooling  | Nom.      | A     | 274              | 308    | 321       | 351     |        | 391     |        |  |
|                      | current                            | Max      |           | A     | 358              | 396    | 406       | 435     | 463    | 452     | 494    |  |
| Power supply         | Phase/Frequency/Voltage            |          |           |       | Hz/V             |        | 3~/50/400 |         |        |         |        |  |



EWAH-TZBSD



MicroTech 4

| EWAH-TZBSD           |                                    |                  |           |      | 635    | 745       | 785   | 845    | 900     | 985     | C11   |       |
|----------------------|------------------------------------|------------------|-----------|------|--------|-----------|-------|--------|---------|---------|-------|-------|
| SEER                 |                                    |                  |           |      | 4.612  | 4.792     | 4.758 | 4.774  | 4.766   | 4.72    | 4.71  |       |
| Cooling capacity     | Nom.                               |                  |           |      | kW     | 633.2     | 742.7 | 786.2  | 842.9   | 899     | 983.8 | 1,104 |
| Power input          | Cooling                            | Nom.             |           |      |        | kW        | 226.9 | 238.6  | 261.4   | 287.6   | 302.2 | 391.1 |
| Capacity control     | Method                             | Stepless         |           |      |        |           |       |        |         |         |       |       |
| Minimum capacity     |                                    |                  |           |      | %      | 10        | 12    | 11     | 10      |         |       |       |
| EER                  |                                    |                  |           |      | 2.791  | 3.113     | 3.007 | 2.931  | 2.974   | 2.804   | 2.823 |       |
| IPLV                 |                                    |                  |           |      | 4.452  | 4.741     | 4.716 | 4.722  | 4.692   | 4.624   | 4.623 |       |
| Dimensions           | Unit                               | Height           |           |      |        | mm        | 2,553 |        |         |         |       |       |
|                      |                                    | Width            |           |      |        | mm        | 2,238 |        |         |         |       |       |
|                      |                                    | Depth            |           |      |        | mm        | 5,800 | 6,880  |         | 7,960   |       | 9,040 |
| Weight               | Unit                               |                  |           |      | kg     | 4,452     | 5,370 |        | 5,614   | 6,096   | 6,185 | 7,352 |
|                      | Operation weight                   |                  |           |      | kg     | 4,537     | 5,470 | 5,480  | 5,729   | 6,221   | 6,320 | 7,507 |
| Air heat exchanger   | Type                               | Microchannel     |           |      |        |           |       |        |         |         |       |       |
| Compressor           | Type                               | Screw compressor |           |      |        |           |       |        |         |         |       |       |
| Fan                  | Quantity                           | 2                |           |      |        |           |       |        |         |         |       |       |
|                      | Type                               | Direct propeller |           |      |        |           |       |        |         |         |       |       |
|                      | Quantity                           |                  |           |      |        | 10        | 12    |        | 14      |         | 16    |       |
| Sound power level    | Air flow rate                      | Cooling          | Nom.      | l/s  | 63,733 | 76,480    |       | 89,233 |         | 101,980 |       |       |
|                      | Cooling                            | Nom.             |           |      | dBA    | 104.6     | 99.7  | 100.3  | 100.6   | 101.5   | 103.2 | 105.1 |
| Sound pressure level | Cooling                            | Nom.             |           |      | dBA    | 83.83     | 78.53 | 79.14  | 79.46   | 79.93   | 81.67 | 83.17 |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB | 5~46   |           |       |        |         |         |       |       |
| Refrigerant          | Type/GWP                           | R-1234(ze)/7     |           |      |        |           |       |        |         |         |       |       |
|                      | Charge                             |                  |           |      | kg     | 85        | 100   | 110    | 115     | 125     | 135   | 155   |
|                      | Circuits                           | Quantity         |           |      |        | 2         |       |        |         |         |       |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |           |      |        | 168.3mm   |       |        | 219.1mm |         | 273mm |       |
| Unit                 | Starting current                   | Max              |           |      |        | A         | 0     |        |         |         |       |       |
|                      | Running                            | Cooling          | Nom.      | A    | 425    | 445       | 480   | 519    | 544     | 617     | 682   |       |
|                      | current                            | Max              |           |      |        | A         | 536   | 581    | 624     | 667     | 719   | 889   |
| Power supply         | Phase/Frequency/Voltage            |                  |           |      | Hz/V   | 3~/50/400 |       |        |         |         |       |       |

| EWAH-TZBSD           |                                    |                  |           |      | H11     | C13       | H13   | H14     | C15   | H15     |       |        |
|----------------------|------------------------------------|------------------|-----------|------|---------|-----------|-------|---------|-------|---------|-------|--------|
| SEER                 |                                    |                  |           |      | 4.65    | 5.062     | 5.043 | 5.041   | 4.983 | 4.984   |       |        |
| Cooling capacity     | Nom.                               |                  |           |      | kW      | 1,177     | 1,315 | 1,386   | 1,474 | 1,535   | 1,586 |        |
| Power input          | Cooling                            | Nom.             |           |      |         | kW        | 436   | 423.5   | 471   | 508.7   | 563.3 | 580.5  |
| Capacity control     | Method                             | Stepless         |           |      |         |           |       |         |       |         |       |        |
| Minimum capacity     |                                    |                  |           |      | %       | 10        | 12    | 11      | 10    |         |       |        |
| EER                  |                                    |                  |           |      | 2.699   | 3.105     | 2.943 | 2.898   | 2.725 | 2.732   |       |        |
| IPLV                 |                                    |                  |           |      | 4.543   | 5.285     | 5.263 | 5.232   | 5.165 | 5.15    |       |        |
| Dimensions           | Unit                               | Height           |           |      |         | mm        | 2,553 |         |       |         |       |        |
|                      |                                    | Width            |           |      |         | mm        | 2,238 |         |       |         |       |        |
|                      |                                    | Depth            |           |      |         | mm        | 9,040 | 10,120  |       | 11,200  |       | 12,280 |
| Weight               | Unit                               |                  |           |      | kg      | 7,352     | 8,279 |         | 8,760 |         | 9,242 |        |
|                      | Operation weight                   |                  |           |      | kg      | 7,517     | 8,459 | 8,469   | 8,965 | 8,975   | 9,462 |        |
| Air heat exchanger   | Type                               | Microchannel     |           |      |         |           |       |         |       |         |       |        |
| Compressor           | Type                               | Screw compressor |           |      |         |           |       |         |       |         |       |        |
| Fan                  | Quantity                           | 2                |           |      |         |           |       |         |       |         |       |        |
|                      | Type                               | Direct propeller |           |      |         |           |       |         |       |         |       |        |
|                      | Quantity                           |                  |           |      |         | 16        | 18    |         | 20    |         | 22    |        |
| Sound power level    | Air flow rate                      | Cooling          | Nom.      | l/s  | 101,980 | 114,720   |       | 127,467 |       | 140,213 |       |        |
|                      | Cooling                            | Nom.             |           |      | dBA     | 106.9     | 104.3 | 105.2   | 106.1 | 107     | 107.5 |        |
| Sound pressure level | Cooling                            | Nom.             |           |      | dBA     | 84.97     | 82.09 | 82.94   | 83.56 | 84.45   | 84.63 |        |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB | 5~46    |           |       |         |       |         |       |        |
| Refrigerant          | Type/GWP                           | R-1234(ze)/7     |           |      |         |           |       |         |       |         |       |        |
|                      | Charge                             |                  |           |      | kg      | 165       | 180   | 190     | 205   | 215     | 220   |        |
|                      | Circuits                           | Quantity         |           |      |         | 2         |       |         |       |         |       |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |           |      |         | 273mm     |       |         |       |         |       |        |
| Unit                 | Starting current                   | Max              |           |      |         | A         | 0     |         |       |         |       |        |
|                      | Running                            | Cooling          | Nom.      | A    | 748     | 733       | 804   | 862     | 943   | 971     |       |        |
|                      | current                            | Max              |           |      |         | A         | 927   | 1,015   | 1,106 | 1,383   | 1,330 | 1,400  |
| Power supply         | Phase/Frequency/Voltage            |                  |           |      | Hz/V    | 3~/50/400 |       |         |       |         |       |        |



# Inverter screw with SILVER efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range

- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAH-TZSSD           |                                    |          |                  |       | 240     | 265   | 295       | 370   | 400     | 415    | 450   |       |    |
|----------------------|------------------------------------|----------|------------------|-------|---------|-------|-----------|-------|---------|--------|-------|-------|----|
| SEER                 |                                    |          |                  |       | 5.606   |       | 5.489     | 5.354 | 5.624   | 5.379  | 5.498 | 5.506 |    |
| Cooling capacity     | Nom.                               |          | kW               |       | 242.1   |       | 264.9     | 296.5 | 366.7   | 402.3  | 408.8 | 447.1 |    |
| Power input          | Cooling                            | Nom.     |                  | kW    | 75.33   |       | 86.23     | 98.15 | 112.9   | 121.5  | 133.5 | 144.5 |    |
| Capacity control     | Method                             |          | Stepless         |       |         |       |           |       |         |        |       |       |    |
| Minimum capacity     |                                    |          |                  |       | %       |       | 19        | 17    | 15      | 23     | 12    | 20    | 19 |
| EER                  |                                    |          |                  |       | 3.214   |       | 3.072     | 3.021 | 3.248   | 3.312  | 3.062 | 3.094 |    |
| IPLV                 |                                    |          |                  |       | 5.624   |       | 5.53      | 5.387 | 5.92    | 5.48   | 5.755 | 5.738 |    |
| Dimensions           | Unit                               | Height   | mm               |       | 2,553   |       |           |       |         |        |       |       |    |
|                      |                                    | Width    | mm               |       | 2,238   |       |           |       |         |        |       |       |    |
|                      |                                    | Depth    | mm               |       | 3,640   |       |           |       | 4,720   | 5,800  | 4,720 |       |    |
| Weight               | Unit                               | kg       |                  | 3,041 |         | 3,071 |           | 3,968 | 4,233   | 3,968  | 4,032 |       |    |
|                      | Operation weight                   |          | kg               |       | 3,076   |       | 3,111     |       | 4,018   | 4,288  | 4,023 | 4,092 |    |
| Air heat exchanger   | Type                               |          | Microchannel     |       |         |       |           |       |         |        |       |       |    |
| Compressor           | Type                               |          | Screw compressor |       |         |       |           |       |         |        |       |       |    |
| Fan                  | Quantity                           |          | 1                |       |         |       | 2         |       | 1       |        |       |       |    |
|                      | Type                               |          | Direct propeller |       |         |       |           |       |         |        |       |       |    |
|                      | Quantity                           |          | 6                |       |         |       | 8         |       | 10      | 8      |       |       |    |
| Sound power level    | Air flow rate                      | Cooling  | Nom.             | l/s   | 38,240  |       | 50,990    |       | 63,733  | 50,990 |       |       |    |
|                      | Cooling                            | Nom.     |                  | dBA   | 97.9    | 100   | 102.3     | 97.1  | 97.8    | 98     | 98.1  |       |    |
| Sound pressure level | Cooling                            | Nom.     |                  | dBA   | 78.18   | 80.27 | 82.57     | 76.87 | 77.09   | 77.71  | 77.82 |       |    |
| Operation range      | Air side                           | Cooling  | Min.~Max.        | °CDB  | -20 ~46 |       |           |       |         |        |       |       |    |
| Refrigerant          | Type/GWP                           |          | R-1234(ze)/7     |       |         |       |           |       |         |        |       |       |    |
|                      | Charge                             | kg       |                  | 35    |         | 40    |           | 50    | 55      |        | 60    |       |    |
|                      | Circuits                           | Quantity |                  | 1     |         |       |           | 2     |         | 1      |       |       |    |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |                  |       | 88.9mm  |       |           |       | 139.7mm |        |       |       |    |
| Unit                 | Starting current                   | Max      |                  | A     | 0       |       |           |       |         |        |       |       |    |
|                      | Running                            | Cooling  | Nom.             | A     | 158.4   | 177.6 | 198.4     | 226.8 | 259.9   | 254    | 271.3 |       |    |
|                      | current                            | Max      |                  | A     | 214     | 237   | 259       | 302   | 345     | 344    | 365   |       |    |
| Power supply         | Phase/Frequency/Voltage            |          |                  |       | Hz/V    |       | 3~/50/400 |       |         |        |       |       |    |

| EWAH-TZSSD           |                                    |          |                  |       | 470     | 490    | 535       | 540   | 595     | 630   | 690     |       |  |
|----------------------|------------------------------------|----------|------------------|-------|---------|--------|-----------|-------|---------|-------|---------|-------|--|
| SEER                 |                                    |          |                  |       | 5.211   |        | 5.512     | 5.252 | 5.592   | 5.291 | 5.221   | 5.538 |  |
| Cooling capacity     | Nom.                               |          | kW               |       | 468.8   |        | 485.8     | 508.7 | 533.5   | 592.4 | 626.5   | 696.4 |  |
| Power input          | Cooling                            | Nom.     |                  | kW    | 149.2   |        | 166.9     | 162.3 | 183.6   | 188.6 | 206.3   | 214.1 |  |
| Capacity control     | Method                             |          | Stepless         |       |         |        |           |       |         |       |         |       |  |
| Minimum capacity     |                                    |          |                  |       | %       |        | 10        | 17    | 10      | 15    | 10      | 13    |  |
| EER                  |                                    |          |                  |       | 3.143   |        | 2.911     | 3.134 | 2.906   | 3.141 | 3.037   | 3.252 |  |
| IPLV                 |                                    |          |                  |       | 5.317   |        | 5.593     | 5.351 | 5.607   | 5.392 | 5.316   | 5.64  |  |
| Dimensions           | Unit                               | Height   | mm               |       | 2,553   |        |           |       |         |       |         |       |  |
|                      |                                    | Width    | mm               |       | 2,238   |        |           |       |         |       |         |       |  |
|                      |                                    | Depth    | mm               |       | 5,800   | 4,720  | 5,800     |       | 6,880   |       |         |       |  |
| Weight               | Unit                               | kg       |                  | 4,233 |         | 4,032  | 4,422     | 4,834 | 4,934   |       | 5,370   |       |  |
|                      | Operation weight                   |          | kg               |       | 4,298   |        | 4,097     | 4,492 | 4,909   | 5,014 | 5,019   | 5,465 |  |
| Air heat exchanger   | Type                               |          | Microchannel     |       |         |        |           |       |         |       |         |       |  |
| Compressor           | Type                               |          | Screw compressor |       |         |        |           |       |         |       |         |       |  |
| Fan                  | Quantity                           |          | 2                |       |         |        | 1         | 2     | 1       | 2     |         |       |  |
|                      | Type                               |          | Direct propeller |       |         |        |           |       |         |       |         |       |  |
|                      | Quantity                           |          | 10               |       |         |        | 8         | 10    |         | 12    |         |       |  |
| Sound power level    | Air flow rate                      | Cooling  | Nom.             | l/s   | 63,733  | 50,990 | 63,733    |       | 76,480  |       |         |       |  |
|                      | Cooling                            | Nom.     |                  | dBA   | 100.7   | 100.5  | 101.3     | 102.2 | 104.3   | 105.1 | 99      |       |  |
| Sound pressure level | Cooling                            | Nom.     |                  | dBA   | 79.96   | 80.28  | 80.56     | 81.47 | 83.15   | 83.92 | 77.8    |       |  |
| Operation range      | Air side                           | Cooling  | Min.~Max.        | °CDB  | -20 ~46 |        |           |       |         |       |         |       |  |
| Refrigerant          | Type/GWP                           |          | R-1234(ze)/7     |       |         |        |           |       |         |       |         |       |  |
|                      | Charge                             | kg       |                  | 65    |         | 70     |           | 75    | 80      | 85    | 95      |       |  |
|                      | Circuits                           | Quantity |                  | 2     |         | 1      | 2         | 1     | 2       |       |         |       |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |                  |       | 139.7mm |        | 168.3mm   |       | 139.7mm |       | 168.3mm |       |  |
| Unit                 | Starting current                   | Max      |                  | A     | 0       |        |           |       |         |       |         |       |  |
|                      | Running                            | Cooling  | Nom.             | A     | 309     | 304.8  | 332.2     | 334.3 | 381.9   | 412.4 | 425.7   |       |  |
|                      | current                            | Max      |                  | A     | 405     | 406    | 428       | 455   | 495     | 526   | 538     |       |  |
| Power supply         | Phase/Frequency/Voltage            |          |                  |       | Hz/V    |        | 3~/50/400 |       |         |       |         |       |  |



EWAH-TZSSD



MicroTech 4

| EWAH-TZSSD           |                                    |          |           |      | 740              | 795       | 855     | 910     | 980     | C10     | C11    |
|----------------------|------------------------------------|----------|-----------|------|------------------|-----------|---------|---------|---------|---------|--------|
| SEER                 |                                    |          |           |      | 5.452            | 5.539     | 5.505   | 5.532   |         | 5.53    | 5.489  |
| Cooling capacity     | Nom.                               |          |           |      | kW               | 741.3     | 795.3   | 854.3   | 909.5   | 983.4   | 1,043  |
| Power input          | Cooling                            | Nom.     |           |      |                  | kW        | 236.7   | 254.1   | 278.9   | 294     | 322.6  |
| Capacity control     | Method                             |          |           |      | Stepless         |           |         |         |         |         |        |
| Minimum capacity     |                                    |          |           |      | %                | 11        |         | 10      |         |         |        |
| EER                  |                                    |          |           |      | 3.132            | 3.13      | 3.063   | 3.094   | 3.048   | 3.058   | 3.046  |
| IPLV                 |                                    |          |           |      | 5.523            | 5.564     | 5.539   | 5.56    | 5.516   | 5.505   | 5.452  |
| Dimensions           | Unit                               | Height   |           |      |                  | 2,553     |         |         |         |         |        |
|                      |                                    | Width    |           |      |                  | 2,238     |         |         |         |         |        |
|                      |                                    | Depth    |           |      |                  | 6,880     |         | 7,960   |         | 9,040   | 10,120 |
| Weight               | Unit                               |          |           |      | kg               | 5,370     | 5,852   | 6,096   | 6,577   | 7,059   | 7,629  |
|                      | Operation weight                   |          |           | kg   | 5,470            | 5,962     | 6,216   | 6,702   | 7,194   | 7,774   | 8,470  |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |           |         |         |         |         |        |
| Compressor           | Type                               |          |           |      | Screw compressor |           |         |         |         |         |        |
| Fan                  | Quantity                           |          |           |      | 2                |           |         |         |         |         |        |
|                      | Type                               |          |           |      | Direct propeller |           |         |         |         |         |        |
|                      | Quantity                           |          |           |      | 12               | 14        |         | 16      | 18      | 20      |        |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 76,480           | 89,233    |         | 101,908 | 114,714 | 127,460 |        |
| Sound power level    | Cooling                            | Nom.     |           |      |                  | dBA       | 99.7    | 100.5   | 100.8   | 101.6   | 103    |
| Sound pressure level | Cooling                            | Nom.     |           |      |                  | dBA       | 78.52   | 78.95   | 79.25   | 79.73   | 80.8   |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~46          |           |         |         |         |         |        |
| Refrigerant          | Type/GWP                           |          |           |      | R-1234(ze)/7     |           |         |         |         |         |        |
|                      | Charge                             |          |           |      | kg               | 100       | 110     | 120     | 125     | 135     | 145    |
|                      | Circuits                           | Quantity |           |      | 2                |           |         |         |         |         |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 168.3mm          |           | 219.1mm |         |         |         | 273mm  |
| Unit                 | Starting current                   | Max      |           |      | A                | 0         |         |         |         |         |        |
|                      | Running                            | Cooling  | Nom.      | A    | 456.1            | 483.2     | 520.7   | 547.3   | 594.5   | 627.5   | 665.5  |
|                      | current                            | Max      |           |      | A                | 581       | 634     | 677     | 729     | 802     | 891    |
| Power supply         | Phase/Frequency/Voltage            |          |           |      | Hz/V             | 3~/50/400 |         |         |         |         |        |

| EWAH-TZSSD           |                                    |          |           |      | C12              | H12       | H13     | C14    | C15     | H15    |       |
|----------------------|------------------------------------|----------|-----------|------|------------------|-----------|---------|--------|---------|--------|-------|
| SEER                 |                                    |          |           |      | 5.339            | 5.735     | 5.652   | 5.723  | 5.774   | 5.686  |       |
| Cooling capacity     | Nom.                               |          |           |      | kW               | 1,211     | 1,331   | 1,406  | 1,492   | 1,606  |       |
| Power input          | Cooling                            | Nom.     |           |      |                  | kW        | 416.6   | 409.9  | 455.3   | 495.6  |       |
| Capacity control     | Method                             |          |           |      | Stepless         |           |         |        |         |        |       |
| Minimum capacity     |                                    |          |           |      | %                | 10        | 12      | 11     | 10      |        |       |
| EER                  |                                    |          |           |      | 2.906            | 3.248     | 3.088   | 3.01   | 3.009   | 2.836  |       |
| IPLV                 |                                    |          |           |      | 5.254            | 6.207     | 5.994   | 6.078  | 6.09    | 5.956  |       |
| Dimensions           | Unit                               | Height   |           |      |                  | 2,553     |         |        |         |        |       |
|                      |                                    | Width    |           |      |                  | 2,238     |         |        |         |        |       |
|                      |                                    | Depth    |           |      |                  | 11,200    |         | 12,280 |         | 13,360 |       |
| Weight               | Unit                               |          |           |      | kg               | 8,315     | 8,760   |        | 9,242   | 9,723  |       |
|                      | Operation weight                   |          |           | kg   | 8,485            | 8,945     | 8,955   | 9,447  | 9,938   | 9,948  |       |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |           |         |        |         |        |       |
| Compressor           | Type                               |          |           |      | Screw compressor |           |         |        |         |        |       |
| Fan                  | Quantity                           |          |           |      | 2                |           |         |        |         |        |       |
|                      | Type                               |          |           |      | Direct propeller |           |         |        |         |        |       |
|                      | Quantity                           |          |           |      | 20               |           | 22      |        | 24      |        |       |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 127,460          |           | 140,206 |        | 152,952 |        |       |
| Sound power level    | Cooling                            | Nom.     |           |      |                  | dBA       | 107     | 104.4  | 105.2   | 106.2  |       |
| Sound pressure level | Cooling                            | Nom.     |           |      |                  | dBA       | 84.42   | 81.86  | 82.7    | 83.33  |       |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~46          |           |         |        |         |        |       |
| Refrigerant          | Type/GWP                           |          |           |      | R-1234(ze)/7     |           |         |        |         |        |       |
|                      | Charge                             |          |           |      | kg               | 170       | 185     | 195    | 205     | 215    | 225   |
|                      | Circuits                           | Quantity |           |      | 2                |           |         |        |         |        |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 273mm            |           |         |        |         |        |       |
| Unit                 | Starting current                   | Max      |           |      | A                | 0         |         |        |         |        |       |
|                      | Running                            | Cooling  | Nom.      | A    | 741.8            | 732.3     | 799.8   | 862.2  | 893.4   | 973.3  |       |
|                      | current                            | Max      |           |      | A                | 948       | 1,025   | 1,117  | 1,393   | 1,351  | 1,410 |
| Power supply         | Phase/Frequency/Voltage            |          |           |      | Hz/V             | 3~/50/400 |         |        |         |        |       |

# Inverter screw with GOLD efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAH-TZXSD           |         |                  |      |  | 220                                | 230              | 275              | 300   | 350     | 400   |       |  |
|----------------------|---------|------------------|------|--|------------------------------------|------------------|------------------|-------|---------|-------|-------|--|
| SEER                 |         |                  |      |  | 5.528                              | 5.478            | 5.899            | 5.78  | 6.259   | 6.127 |       |  |
| Cooling capacity     | Nom.    |                  |      |  | kW                                 | 219.8            | 323.4            | 275.1 | 299.3   | 397.5 |       |  |
| Power input          | Cooling | Nom.             |      |  |                                    | kW               | 67.79            | 74.71 | 82.02   | 92.55 |       |  |
| Capacity control     | Method  |                  |      |  | Stepless                           |                  |                  |       |         |       |       |  |
| Minimum capacity     |         |                  |      |  | %                                  | 22               | 20               | 18    | 16      | 25    |       |  |
| EER                  |         |                  |      |  |                                    | 3.243            | 3.111            | 3.354 | 3.234   | 3.501 |       |  |
| IPLV                 |         |                  |      |  |                                    | 6.035            | 5.988            | 6.156 | 6.085   | 6.684 |       |  |
| Dimensions           | Unit    | Height           |      |  |                                    | mm               | 2,553            |       |         |       |       |  |
|                      |         | Width            |      |  |                                    | mm               | 2,238            |       |         |       |       |  |
|                      |         | Depth            |      |  |                                    | mm               | 2,560            | 3,640 |         | 4,720 |       |  |
| Weight               | Unit    |                  |      |  |                                    | kg               | 2,731            | 3,242 |         | 4,023 |       |  |
|                      |         | Operation weight |      |  |                                    | kg               | 2,761            | 3,277 | 3,282   | 4,068 |       |  |
| Air heat exchanger   |         |                  |      |  | Type                               | Microchannel     |                  |       |         |       |       |  |
| Compressor           |         |                  |      |  | Type                               | Screw compressor |                  |       |         |       |       |  |
|                      |         |                  |      |  | Quantity                           | 1                |                  |       |         |       |       |  |
| Fan                  | Unit    |                  |      |  |                                    |                  | Direct propeller |       |         |       |       |  |
|                      |         | Type             |      |  |                                    |                  |                  |       |         |       |       |  |
|                      |         | Quantity         |      |  |                                    | 4                | 6                |       | 8       |       |       |  |
| Air flow rate        |         | Cooling          | Nom. |  | l/s                                | 22,620           | 33,930           |       | 45,240  |       |       |  |
| Sound power level    |         |                  |      |  | Cooling                            | Nom.             | dBA              | 97.3  | 97.5    | 100.2 | 100.8 |  |
| Sound pressure level |         |                  |      |  | Cooling                            | Nom.             | dBA              | 78.13 | 78.36   | 80.42 | 81.11 |  |
| Operation range      |         |                  |      |  | Air side                           | Cooling          | Min.~Max.        | °CDB  | -20 ~46 |       |       |  |
| Refrigerant          |         |                  |      |  | Type/GWP                           | R-1234(ze)/7     |                  |       |         |       |       |  |
|                      |         |                  |      |  | Charge                             | kg               | 30               | 35    | 40      | 45    |       |  |
|                      |         |                  |      |  | Circuits                           | 1                |                  |       |         |       |       |  |
| Piping connections   |         |                  |      |  | Evaporator water inlet/outlet (OD) | 88.9mm           |                  |       |         |       |       |  |
| Unit                 |         |                  |      |  | Starting current                   | Max              | A                | 0     |         |       |       |  |
|                      |         |                  |      |  | Running                            | Cooling          | Nom.             | A     | 145.1   | 157.4 | 175.8 |  |
|                      |         |                  |      |  | current                            | Max              | A                | 172   | 183     | 214   |       |  |
| Power supply         |         |                  |      |  | Phase/Frequency/Voltage            | Hz/V             | 3~/50/400        |       |         |       |       |  |

| EWAH-TZXSD           |         |                  |      |  | 465                                | 470              | 515              | 540   | 545     | 600   |       |  |
|----------------------|---------|------------------|------|--|------------------------------------|------------------|------------------|-------|---------|-------|-------|--|
| SEER                 |         |                  |      |  | 5.999                              | 6.336            | 6.198            | 5.64  | 6.108   | 6.04  |       |  |
| Cooling capacity     | Nom.    |                  |      |  | kW                                 | 471.7            | 466              | 504.2 | 534.5   | 602.4 |       |  |
| Power input          | Cooling | Nom.             |      |  |                                    | kW               | 135.2            | 139.9 | 159.8   | 152.6 |       |  |
| Capacity control     | Method  |                  |      |  | Stepless                           |                  |                  |       |         |       |       |  |
| Minimum capacity     |         |                  |      |  | %                                  | 10               | 19               | 17    | 30      | 10    |       |  |
| EER                  |         |                  |      |  |                                    | 3.488            | 3.331            | 3.156 | 3.503   | 3.508 |       |  |
| IPLV                 |         |                  |      |  |                                    | 6.223            | 6.632            | 6.422 | 5.95    | 6.381 |       |  |
| Dimensions           | Unit    | Height           |      |  |                                    | mm               | 2,553            |       |         |       |       |  |
|                      |         | Width            |      |  |                                    | mm               | 2,238            |       |         |       |       |  |
|                      |         | Depth            |      |  |                                    | mm               | 6,880            | 5,800 |         | 6,880 |       |  |
| Weight               | Unit    |                  |      |  |                                    | kg               | 4,886            | 4,569 | 5,323   | 5,105 | 5,157 |  |
|                      |         | Operation weight |      |  |                                    | kg               | 4,951            | 4,634 | 4,639   | 5,398 | 5,180 |  |
| Air heat exchanger   |         |                  |      |  | Type                               | Microchannel     |                  |       |         |       |       |  |
| Compressor           |         |                  |      |  | Type                               | Screw compressor |                  |       |         |       |       |  |
|                      |         |                  |      |  | Quantity                           | 2                | 1                |       | 2       |       |       |  |
| Fan                  | Unit    |                  |      |  |                                    |                  | Direct propeller |       |         |       |       |  |
|                      |         | Type             |      |  |                                    |                  |                  |       |         |       |       |  |
|                      |         | Quantity         |      |  |                                    | 12               | 10               |       | 12      |       |       |  |
| Air flow rate        |         | Cooling          | Nom. |  | l/s                                | 67,860           | 56,540           |       | 67,860  |       |       |  |
| Sound power level    |         |                  |      |  | Cooling                            | Nom.             | dBA              | 100.6 | 104.5   | 101.7 | 98.8  |  |
| Sound pressure level |         |                  |      |  | Cooling                            | Nom.             | dBA              | 79.43 | 83.77   | 80.97 | 78.1  |  |
| Operation range      |         |                  |      |  | Air side                           | Cooling          | Min.~Max.        | °CDB  | -20 ~46 |       |       |  |
| Refrigerant          |         |                  |      |  | Type/GWP                           | R-1234(ze)/7     |                  |       |         |       |       |  |
|                      |         |                  |      |  | Charge                             | kg               | 65               | 70    | 75      | 85    |       |  |
|                      |         |                  |      |  | Circuits                           | 2                |                  |       |         |       |       |  |
| Piping connections   |         |                  |      |  | Evaporator water inlet/outlet (OD) | 139.7mm          |                  |       |         |       |       |  |
| Unit                 |         |                  |      |  | Starting current                   | Max              | A                | 0     |         |       |       |  |
|                      |         |                  |      |  | Running                            | Cooling          | Nom.             | A     | 299     | 276.8 | 306.6 |  |
|                      |         |                  |      |  | current                            | Max              | A                | 364   | 357     | 394   |       |  |
| Power supply         |         |                  |      |  | Phase/Frequency/Voltage            | Hz/V             | 3~/50/400        |       |         |       |       |  |



EWAH-TZXSD



MicroTech 4

| EWAH-TZXSD           |                                    |                  |                  |       | 620       | 645     | 700   | 750     | 790   | 840    |       |
|----------------------|------------------------------------|------------------|------------------|-------|-----------|---------|-------|---------|-------|--------|-------|
| SEER                 |                                    |                  |                  |       | 5.558     | 6.211   | 6.102 | 6.362   | 6.407 | 6.296  |       |
| Cooling capacity     | Nom.                               |                  | kW               |       | 617       | 641.9   | 697.1 | 752.7   | 788.8 | 841.2  |       |
| Power input          | Cooling                            | Nom.             | kW               |       | 191       | 186     | 209.1 | 219     | 225.9 | 249.4  |       |
| Capacity control     | Method                             |                  | Stepless         |       |           |         |       |         |       |        |       |
|                      | Minimum capacity                   |                  | %                |       | 25        | 14      | 13    | 12      |       | 11     |       |
| EER                  |                                    |                  |                  |       | 3.231     | 3.452   | 3.334 | 3.437   | 3.491 | 3.373  |       |
| IPLV                 |                                    |                  |                  |       | 5.741     | 6.446   | 6.347 | 6.608   | 6.64  | 6.479  |       |
| Dimensions           | Unit                               | Height           | mm               |       | 2,553     |         |       |         |       |        |       |
|                      |                                    | Width            | mm               |       | 2,238     |         |       |         |       |        |       |
|                      |                                    | Depth            | mm               |       | 5,800     | 6,880   |       | 7,960   |       | 9,040  |       |
| Weight               | Unit                               | kg               |                  | 5,323 | 5,414     |         | 6,151 |         | 6,633 |        |       |
|                      |                                    | Operation weight |                  | kg    |           | 5,408   | 5,504 | 5,509   | 6,256 | 6,743  | 6,748 |
| Air heat exchanger   | Type                               |                  | Microchannel     |       |           |         |       |         |       |        |       |
| Compressor           | Type                               |                  | Screw compressor |       |           |         |       |         |       |        |       |
| Fan                  | Quantity                           |                  |                  |       | 1         | 2       |       |         |       |        |       |
|                      | Type                               |                  | Direct propeller |       |           |         |       |         |       |        |       |
|                      | Quantity                           |                  |                  |       | 10        | 12      |       | 14      |       | 16     |       |
|                      | Air flow rate                      | Cooling          | Nom.             | l/s   | 56,540    | 67,860  |       | 79,170  |       | 90,480 |       |
| Sound power level    | Cooling                            | Nom.             | dBA              |       | 100.5     | 98.1    | 100.1 | 100.9   | 101.5 | 102.8  |       |
| Sound pressure level | Cooling                            | Nom.             | dBA              |       | 79.81     | 76.91   | 78.9  | 79.3    | 79.61 | 80.92  |       |
| Operation range      | Air side                           | Cooling          | Min.~Max.        | °CDB  | -20 ~46   |         |       |         |       |        |       |
| Refrigerant          | Type/GWP                           |                  | R-1234(ze)/7     |       |           |         |       |         |       |        |       |
|                      | Charge                             |                  | kg               |       | 85        | 90      | 95    | 105     | 110   | 115    |       |
|                      | Circuits                           |                  | Quantity         |       | 1         | 2       |       |         |       |        |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |                  |       | 139.7mm   | 168.3mm |       | 219.1mm |       |        |       |
| Unit                 | Starting current                   |                  | Max              |       | A         | 0       |       |         |       |        |       |
|                      | Running                            | Cooling          | Nom.             | A     | 353.5     | 388.6   | 428.2 | 445.5   | 457.9 | 493.4  |       |
|                      | current                            | Max              | A                | 491   | 472       | 517     | 527   | 579     | 618   |        |       |
| Power supply         | Phase/Frequency/Voltage            |                  | Hz/V             |       | 3~/50/400 |         |       |         |       |        |       |

| EWAH-TZXSD           |                                    |                  |                  |       | 900       | 975     | H10     | H11   | H12     | H13     |
|----------------------|------------------------------------|------------------|------------------|-------|-----------|---------|---------|-------|---------|---------|
| SEER                 |                                    |                  |                  |       | 6.195     | 6.234   | 6.183   | 5.865 | 5.933   | 5.988   |
| Cooling capacity     | Nom.                               |                  | kW               |       | 897.2     | 972.1   | 1,082   | 1,184 | 1,275   | 1,383   |
| Power input          | Cooling                            | Nom.             | kW               |       | 273.7     | 299.9   | 326.1   | 346.2 | 380     | 415.3   |
| Capacity control     | Method                             |                  | Stepless         |       |           |         |         |       |         |         |
|                      | Minimum capacity                   |                  | %                |       |           | 10      |         | 14    | 13      | 12      |
| EER                  |                                    |                  |                  |       | 3.278     | 3.242   | 3.318   | 3.42  | 3.355   | 3.33    |
| IPLV                 |                                    |                  |                  |       | 6.36      | 6.383   | 6.42    | 6.367 | 6.514   | 6.481   |
| Dimensions           | Unit                               | Height           | mm               |       | 2,553     |         |         |       |         |         |
|                      |                                    | Width            | mm               |       | 2,238     |         |         |       |         |         |
|                      |                                    | Depth            | mm               |       | 9,040     | 10,120  | 11,200  |       | 12,280  | 13,360  |
| Weight               | Unit                               | kg               |                  | 6,722 | 7,203     | 8,091   | 8,760   | 9,242 | 9,723   |         |
|                      |                                    | Operation weight |                  | kg    |           | 6,847   | 7,338   | 8,241 | 8,925   | 9,417   |
| Air heat exchanger   | Type                               |                  | Microchannel     |       |           |         |         |       |         |         |
| Compressor           | Type                               |                  | Screw compressor |       |           |         |         |       |         |         |
| Fan                  | Quantity                           |                  |                  |       | 2         |         |         |       |         |         |
|                      | Type                               |                  | Direct propeller |       |           |         |         |       |         |         |
|                      | Quantity                           |                  |                  |       | 16        | 18      | 20      |       | 22      | 24      |
|                      | Air flow rate                      | Cooling          | Nom.             | l/s   | 90,480    | 101,772 | 113,080 |       | 124,388 | 135,696 |
| Sound power level    | Cooling                            | Nom.             | dBA              |       | 105.1     | 106.8   | 104.7   | 102.7 | 103.6   | 104.5   |
| Sound pressure level | Cooling                            | Nom.             | dBA              |       | 83.2      | 84.61   | 82.17   | 80.14 | 80.78   | 81.43   |
| Operation range      | Air side                           | Cooling          | Min.~Max.        | °CDB  | -20 ~46   |         |         |       |         |         |
| Refrigerant          | Type/GWP                           |                  | R-1234(ze)/7     |       |           |         |         |       |         |         |
|                      | Charge                             |                  | kg               |       | 125       | 135     | 150     | 165   | 175     | 190     |
|                      | Circuits                           |                  | Quantity         |       | 2         |         |         |       |         |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |                  |       | 219.1mm   |         | 273mm   |       |         |         |
| Unit                 | Starting current                   |                  | Max              |       | A         |         | 0       |       |         |         |
|                      | Running                            | Cooling          | Nom.             | A     | 530.6     | 575.7   | 623.9   | 651.9 | 708.1   | 768.7   |
|                      | current                            | Max              | A                | 655   | 702       | 787     | 902     | 992   | 1,090   |         |
| Power supply         | Phase/Frequency/Voltage            |                  | Hz/V             |       | 3~/50/400 |         |         |       |         |         |



# Inverter screw with GOLD efficiency. Reduced sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAH-TZXRD           |                  |                  |         |         | 220                                | 230              | 275       | 300   | 350     | 400     |        |       |       |  |  |  |
|----------------------|------------------|------------------|---------|---------|------------------------------------|------------------|-----------|-------|---------|---------|--------|-------|-------|--|--|--|
| SEER                 |                  |                  |         |         |                                    | 5.404            | 5.363     | 5.942 | 5.775   | 6.188   | 6.026  |       |       |  |  |  |
| Cooling capacity     | Nom.             |                  |         |         | kW                                 | 216.3            | 228.3     | 271.7 | 295.3   | 345.2   | 393.5  |       |       |  |  |  |
| Power input          | Cooling          | Nom.             |         |         | kW                                 | 68.5             | 75.92     | 81.59 | 92.45   | 98.6    | 122.2  |       |       |  |  |  |
| Capacity control     | Method           |                  |         |         |                                    | Stepless         |           |       |         |         |        |       |       |  |  |  |
|                      |                  |                  |         |         | Minimum capacity                   | %                | 22        | 20    | 18      | 16      | 25     | 22    |       |  |  |  |
| EER                  |                  |                  |         |         |                                    | 3.157            | 3.007     | 3.33  | 3.194   | 3.501   | 3.219  |       |       |  |  |  |
| IPLV                 |                  |                  |         |         |                                    | 6.058            | 6.007     | 6.144 | 6.065   | 6.641   | 6.619  |       |       |  |  |  |
| Dimensions           | Unit             | Height           |         | mm      | 2,553                              |                  |           |       |         |         |        |       |       |  |  |  |
|                      |                  | Width            |         | mm      | 2,238                              |                  |           |       |         |         |        |       |       |  |  |  |
|                      |                  | Depth            |         | mm      | 2,680                              |                  | 3,760     |       | 4,840   |         |        |       |       |  |  |  |
| Weight               | Unit             |                  |         | kg      | 2,851                              |                  | 3,362     |       | 4,143   |         |        |       |       |  |  |  |
|                      |                  | Operation weight |         | kg      | 2,761                              |                  | 3,277     |       | 3,282   | 4,068   | 4,078  |       |       |  |  |  |
| Air heat exchanger   |                  |                  |         |         | Type                               | Microchannel     |           |       |         |         |        |       |       |  |  |  |
| Compressor           |                  |                  |         |         | Type                               | Screw compressor |           |       |         |         |        |       |       |  |  |  |
|                      |                  |                  |         |         | Quantity                           | 1                |           |       |         |         |        |       |       |  |  |  |
| Fan                  | Type             |                  |         |         | Direct propeller                   |                  |           |       |         |         |        |       |       |  |  |  |
|                      |                  |                  |         |         | 4                                  |                  | 6         |       | 8       |         |        |       |       |  |  |  |
|                      |                  | Air flow rate    |         | Cooling | Nom.                               | l/s              | 18,890    |       | 28,330  |         | 37,770 |       |       |  |  |  |
| Sound power level    |                  |                  |         |         | Cooling                            | Nom.             | dBA       | 86.7  | 86.9    | 89.3    | 89.9   | 87.9  | 89.4  |  |  |  |
| Sound pressure level |                  |                  |         |         | Cooling                            | Nom.             | dBA       | 67.62 | 67.78   | 69.6    | 70.14  | 67.59 | 69.17 |  |  |  |
| Operation range      |                  |                  |         |         | Air side                           | Cooling          | Min.~Max. | °CDB  | -20 ~46 |         |        |       |       |  |  |  |
| Refrigerant          |                  |                  |         |         | Type/GWP                           | R-1234(ze)/7     |           |       |         |         |        |       |       |  |  |  |
|                      |                  |                  |         |         | Charge                             | kg               | 30        |       | 35      | 40      | 45     | 55    |       |  |  |  |
|                      |                  |                  |         |         | Circuits                           |                  |           | 1     |         |         |        |       |       |  |  |  |
| Piping connections   |                  |                  |         |         | Evaporator water inlet/outlet (OD) | 88.9mm           |           |       |         | 139.7mm |        |       |       |  |  |  |
| Unit                 | Starting current | Max              |         | A       | 0                                  |                  |           |       |         |         |        |       |       |  |  |  |
|                      |                  | Running          | Cooling | Nom.    | A                                  | 150.2            | 163.3     | 180.6 | 199.6   | 216.9   | 249.8  |       |       |  |  |  |
|                      |                  |                  | Max     | A       | 172                                | 183              | 214       | 236   | 269     | 310     |        |       |       |  |  |  |
| Power supply         |                  |                  |         |         | Phase/Frequency/Voltage            | Hz/V             | 3~/50/400 |       |         |         |        |       |       |  |  |  |

| EWAH-TZXRD           |                  |                  |         |         | 465                                | 470              | 515       | 540    | 545     | 600     |        |       |       |  |  |  |
|----------------------|------------------|------------------|---------|---------|------------------------------------|------------------|-----------|--------|---------|---------|--------|-------|-------|--|--|--|
| SEER                 |                  |                  |         |         |                                    | 6.02             | 6.284     | 6.103  | 5.588   | 6.133   | 6.042  |       |       |  |  |  |
| Cooling capacity     | Nom.             |                  |         |         | kW                                 | 467.2            | 461.6     | 497.8  | 528     | 537.6   | 594.3  |       |       |  |  |  |
| Power input          | Cooling          | Nom.             |         |         | kW                                 | 132.7            | 139.1     | 159.9  | 153.8   | 153.6   | 178.3  |       |       |  |  |  |
| Capacity control     | Method           |                  |         |         |                                    | Stepless         |           |        |         |         |        |       |       |  |  |  |
|                      |                  |                  |         |         | Minimum capacity                   | %                | 10        | 19     | 17      | 30      | 10     |       |       |  |  |  |
| EER                  |                  |                  |         |         |                                    | 3.52             | 3.319     | 3.112  | 3.434   | 3.494   | 3.334  |       |       |  |  |  |
| IPLV                 |                  |                  |         |         |                                    | 6.273            | 6.667     | 6.49   | 5.796   | 6.414   | 6.301  |       |       |  |  |  |
| Dimensions           | Unit             | Height           |         | mm      | 2,553                              |                  |           |        |         |         |        |       |       |  |  |  |
|                      |                  | Width            |         | mm      | 2,238                              |                  |           |        |         |         |        |       |       |  |  |  |
|                      |                  | Depth            |         | mm      | 7,000                              | 5,920            |           |        | 7,000   |         |        |       |       |  |  |  |
| Weight               | Unit             |                  |         | kg      | 5,006                              | 4,689            |           | 5,443  |         | 5,225   | 5,277  |       |       |  |  |  |
|                      |                  | Operation weight |         | kg      | 4,951                              | 4,634            |           | 5,398  |         | 5,180   | 5,242  |       |       |  |  |  |
| Air heat exchanger   |                  |                  |         |         | Type                               | Microchannel     |           |        |         |         |        |       |       |  |  |  |
| Compressor           |                  |                  |         |         | Type                               | Screw compressor |           |        |         |         |        |       |       |  |  |  |
|                      |                  |                  |         |         | Quantity                           | 2                | 1         |        | 2       |         |        |       |       |  |  |  |
| Fan                  | Type             |                  |         |         | Direct propeller                   |                  |           |        |         |         |        |       |       |  |  |  |
|                      |                  |                  |         |         | 12                                 |                  | 10        |        | 12      |         |        |       |       |  |  |  |
|                      |                  | Air flow rate    |         | Cooling | Nom.                               | l/s              | 56,660    | 47,213 |         |         | 56,660 |       |       |  |  |  |
| Sound power level    |                  |                  |         |         | Cooling                            | Nom.             | dBA       | 90.5   | 93.3    | 91.1    | 89.2   | 90.8  | 94.2  |  |  |  |
| Sound pressure level |                  |                  |         |         | Cooling                            | Nom.             | dBA       | 69.38  | 72.53   | 70.32   | 68.42  | 69.59 | 73.07 |  |  |  |
| Operation range      |                  |                  |         |         | Air side                           | Cooling          | Min.~Max. | °CDB   | -20 ~46 |         |        |       |       |  |  |  |
| Refrigerant          |                  |                  |         |         | Type/GWP                           | R-1234(ze)/7     |           |        |         |         |        |       |       |  |  |  |
|                      |                  |                  |         |         | Charge                             | kg               | 65        |        | 70      | 75      | 85     |       |       |  |  |  |
|                      |                  |                  |         |         | Circuits                           | 2                |           | 1      |         |         | 2      |       |       |  |  |  |
| Piping connections   |                  |                  |         |         | Evaporator water inlet/outlet (OD) | 139.7mm          |           |        |         | 168.3mm |        |       |       |  |  |  |
| Unit                 | Starting current | Max              |         | A       | 0                                  |                  |           |        |         |         |        |       |       |  |  |  |
|                      |                  | Running          | Cooling | Nom.    | A                                  | 305.9            | 283.6     | 314.9  | 306.1   | 343.5   | 386.6  |       |       |  |  |  |
|                      |                  |                  | Max     | A       | 364                                | 357              | 394       | 414    | 406     | 448     |        |       |       |  |  |  |
| Power supply         |                  |                  |         |         | Phase/Frequency/Voltage            | Hz/V             | 3~/50/400 |        |         |         |        |       |       |  |  |  |



EWAH-TZXRD



MicroTech 4

| EWAH-TZXRD           |                                    |                  |           |  | 620   | 645       | 700     | 750     | 790     | 840   |       |     |       |
|----------------------|------------------------------------|------------------|-----------|--|-------|-----------|---------|---------|---------|-------|-------|-----|-------|
| SEER                 |                                    |                  |           |  | 5.467 | 6.207     | 6.095   | 6.392   | 6.417   | 6.318 |       |     |       |
| Cooling capacity     | Nom.                               |                  |           |  | kW    | 607.1     | 632.8   | 687.3   | 743.4   | 831.9 |       |     |       |
| Power input          | Cooling                            | Nom.             |           |  |       | kW        | 194.4   | 186.7   | 211.1   | 225.2 |       |     |       |
| Capacity control     | Method                             | Stepless         |           |  |       |           |         |         |         |       |       |     |       |
| Minimum capacity     |                                    |                  |           |  | %     | 25        | 14      | 13      | 12      | 11    |       |     |       |
| EER                  |                                    |                  |           |  | 3.123 | 3.389     | 3.255   | 3.379   | 3.467   | 3.325 |       |     |       |
| IPLV                 |                                    |                  |           |  | 5.64  | 6.46      | 6.317   | 6.633   | 6.648   | 6.52  |       |     |       |
| Dimensions           | Unit                               | Height           |           |  |       | mm        | 2,553   |         |         |       |       |     |       |
|                      |                                    | Width            |           |  |       | mm        | 2,238   |         |         |       |       |     |       |
|                      |                                    | Depth            |           |  |       | mm        | 5,920   | 7,000   | 8,080   | 9,160 |       |     |       |
| Weight               | Unit                               |                  |           |  | kg    | 5,443     | 5,534   | 6,271   | 6,753   |       |       |     |       |
|                      | Operation weight                   |                  |           |  | kg    | 5,408     | 5,504   | 5,509   | 6,256   | 6,743 | 6,748 |     |       |
| Air heat exchanger   | Type                               | Microchannel     |           |  |       |           |         |         |         |       |       |     |       |
| Compressor           | Type                               | Screw compressor |           |  |       |           |         |         |         |       |       |     |       |
| Fan                  | Quantity                           |                  |           |  |       | 1         | 2       |         |         |       |       |     |       |
|                      | Type                               | Direct propeller |           |  |       |           |         |         |         |       |       |     |       |
|                      | Quantity                           |                  |           |  |       | 10        | 12      | 14      | 16      |       |       |     |       |
| Sound power level    | Air flow rate                      | Cooling          | Nom.      |  | l/s   | 47,213    | 56,660  | 66,098  | 75,540  |       |       |     |       |
|                      | Cooling                            | Nom.             |           |  |       | dB(A)     | 90.2    | 89.1    | 90.2    | 91    | 92.4  |     |       |
| Sound pressure level | Cooling                            | Nom.             |           |  |       | dB(A)     | 69.5    | 67.94   | 69.04   | 69.4  | 70.53 |     |       |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  |       |           | °CDB    | -20 ~46 |         |       |       |     |       |
| Refrigerant          | Type/GWP                           | R-1234(ze)/7     |           |  |       |           |         |         |         |       |       |     |       |
| Piping connections   | Charge                             |                  |           |  |       | kg        | 85      | 90      | 95      | 105   | 110   | 115 |       |
|                      | Circuits                           |                  |           |  |       | Quantity  | 1       | 2       |         |       |       |     |       |
|                      | Evaporator water inlet/outlet (OD) |                  |           |  |       | mm        | 139.7mm | 168.3mm | 219.1mm |       |       |     |       |
| Unit                 | Starting current                   | Max              |           |  |       | A         | 0       |         |         |       |       |     |       |
|                      | Running                            | Cooling          | Nom.      |  |       |           | A       | 366.7   | 401.1   | 433.8 | 454.5 | 470 | 507.6 |
|                      | current                            | Max              |           |  |       | A         | 491     | 472     | 517     | 527   | 579   | 618 |       |
| Power supply         | Phase/Frequency/Voltage            |                  |           |  | Hz/V  | 3~/50/400 |         |         |         |       |       |     |       |

| EWAH-TZXRD           |                                    |                  |           |  | 900   | 975       | H10     | H11     | H12     | H13     |        |       |       |
|----------------------|------------------------------------|------------------|-----------|--|-------|-----------|---------|---------|---------|---------|--------|-------|-------|
| SEER                 |                                    |                  |           |  | 6.216 | 6.252     | 6.226   | 5.875   | 5.942   | 5.987   |        |       |       |
| Cooling capacity     | Nom.                               |                  |           |  | kW    | 886       | 959.8   | 1,066   | 1,167   | 1,257   | 1,363  |       |       |
| Power input          | Cooling                            | Nom.             |           |  |       | kW        | 276     | 301.6   | 327.9   | 351.2   | 384.5  | 419.4 |       |
| Capacity control     | Method                             | Stepless         |           |  |       |           |         |         |         |         |        |       |       |
| Minimum capacity     |                                    |                  |           |  | %     | 10        | 14      | 13      | 12      |         |        |       |       |
| EER                  |                                    |                  |           |  | 3.21  | 3.182     | 3.251   | 3.323   | 3.268   | 3.251   |        |       |       |
| IPLV                 |                                    |                  |           |  | 6.407 | 6.445     | 6.447   | 6.498   | 6.388   | 6.435   |        |       |       |
| Dimensions           | Unit                               | Height           |           |  |       | mm        | 2,553   |         |         |         |        |       |       |
|                      |                                    | Width            |           |  |       | mm        | 2,238   |         |         |         |        |       |       |
|                      |                                    | Depth            |           |  |       | mm        | 9,160   | 10,240  | 11,320  | 12,400  | 13,480 |       |       |
| Weight               | Unit                               |                  |           |  | kg    | 6,842     | 7,323   | 8,211   | 8,880   | 9,362   | 9,843  |       |       |
|                      | Operation weight                   |                  |           |  | kg    | 6,847     | 7,338   | 8,241   | 8,925   | 9,417   | 9,913  |       |       |
| Air heat exchanger   | Type                               | Microchannel     |           |  |       |           |         |         |         |         |        |       |       |
| Compressor           | Type                               | Screw compressor |           |  |       |           |         |         |         |         |        |       |       |
| Fan                  | Quantity                           |                  |           |  |       | 2         | 2       |         |         |         |        |       |       |
|                      | Type                               | Direct propeller |           |  |       |           |         |         |         |         |        |       |       |
|                      | Quantity                           |                  |           |  |       | 16        | 18      | 20      | 22      | 24      |        |       |       |
| Sound power level    | Air flow rate                      | Cooling          | Nom.      |  | l/s   | 75,540    | 84,983  | 94,425  | 103,868 | 113,320 |        |       |       |
|                      | Cooling                            | Nom.             |           |  |       | dB(A)     | 94.1    | 95.6    | 94.1    | 92.7    | 93.4   | 94.2  |       |
| Sound pressure level | Cooling                            | Nom.             |           |  |       | dB(A)     | 72.22   | 73.4    | 71.53   | 70.14   | 70.59  | 71.07 |       |
| Operation range      | Air side                           | Cooling          | Min.~Max. |  |       |           | °CDB    | -20 ~46 |         |         |        |       |       |
| Refrigerant          | Type/GWP                           | R-1234(ze)/7     |           |  |       |           |         |         |         |         |        |       |       |
| Piping connections   | Charge                             |                  |           |  |       | kg        | 125     | 135     | 150     | 165     | 175    | 190   |       |
|                      | Circuits                           |                  |           |  |       | Quantity  | 2       |         |         |         |        |       |       |
|                      | Evaporator water inlet/outlet (OD) |                  |           |  |       | mm        | 219.1mm |         | 273mm   |         |        |       |       |
| Unit                 | Starting current                   | Max              |           |  |       | A         | 0       |         |         |         |        |       |       |
|                      | Running                            | Cooling          | Nom.      |  |       |           | A       | 547.1   | 592.9   | 642.8   | 675.5  | 732.6 | 793.9 |
|                      | current                            | Max              |           |  |       | A         | 655     | 702     | 787     | 902     | 992    | 1,090 |       |
| Power supply         | Phase/Frequency/Voltage            |                  |           |  | Hz/V  | 3~/50/400 |         |         |         |         |        |       |       |

# Inverter screw with PLATINUM efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAH-TZPSD           |                                    |          |           |  | 225              | 265       | 295   | 340     | 395    | 420    |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|-------|---------|--------|--------|
| SEER                 |                                    |          |           |  | 6.234            | 6.353     | 6.334 | 6.977   | 6.709  | 6.849  |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 227.3     | 266.6 | 293.6   | 336.7  | 421.5  |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 61.76 | 71.25   | 81.63  | 84.16  |
| Capacity control     | Method                             |          |           |  | Stepless         |           |       |         |        |        |
|                      |                                    |          |           |  | Minimum capacity | %         | 22    | 19      | 17     | 28     |
| EER                  |                                    |          |           |  | 3.6              | 3.618     | 3.499 | 3.853   | 3.651  | 3.612  |
| IPLV                 |                                    |          |           |  | 6.688            | 6.689     | 6.595 | 7.437   | 7.042  | 7.251  |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553 |         |        |        |
|                      |                                    | Width    |           |  |                  | mm        | 2,238 |         |        |        |
|                      |                                    | Depth    |           |  |                  | mm        | 3,640 | 4,720   | 5,800  | 6,880  |
| Weight               | Unit                               |          |           |  | kg               | 3,212     | 3,724 | 4,569   | 5,050  |        |
|                      | Operation weight                   |          |           |  | kg               | 3,242     | 3,759 | 3,764   | 4,614  | 4,624  |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |       |         |        |        |
| Compressor           | Type                               |          |           |  | Screw compressor |           |       |         |        |        |
| Fan                  | Quantity                           |          |           |  | 1                |           |       |         |        |        |
|                      | Type                               |          |           |  | Direct propeller |           |       |         |        |        |
|                      | Quantity                           |          |           |  | 6                | 8         | 10    | 12      |        |        |
|                      |                                    |          |           |  | Air flow rate    | Cooling   | Nom.  | l/s     | 33,930 | 45,240 |
| Sound power level    | Cooling                            | Nom.     |           |  |                  | dBA       | 97.5  | 98.1    | 102.6  | 95.7   |
| Sound pressure level | Cooling                            | Nom.     |           |  |                  | dBA       | 77.74 | 77.83   | 82.3   | 75     |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  |                  |           | °CDB  | -20 ~46 | 77.94  | 78.89  |
| Refrigerant          | Type/GWP                           |          |           |  | R-1234(ze)/7     |           |       |         |        |        |
|                      | Charge                             |          |           |  | kg               | 30        | 35    | 40      | 45     | 55     |
|                      | Circuits                           | Quantity |           |  |                  | 1         |       |         |        |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 88.9mm           |           |       |         |        |        |
| Unit                 | Starting current                   | Max      |           |  |                  | A         | 0     |         |        |        |
|                      | Running                            | Cooling  | Nom.      |  |                  |           | A     | 142.3   | 166.7  | 184.7  |
|                      | current                            | Max      |           |  |                  | A         | 183   | 214     | 235    | 196.1  |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |       |         |        |        |

| EWAH-TZPSD           |                                    |          |           |  | 490              | 500       | 540     | 545     | 615    |       |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|---------|---------|--------|-------|
| SEER                 |                                    |          |           |  | 6.786            | 6.44      | 6.576   | 6.09    | 6.865  |       |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 848.9     | 502.6   | 538.7   | 541.2  |       |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 133.4   | 132.3   | 141.6  |       |
| Capacity control     | Method                             |          |           |  | Stepless         |           |         |         |        |       |
|                      |                                    |          |           |  | Minimum capacity | %         | 19      | 10      | 30     |       |
| EER                  |                                    |          |           |  | 3.561            | 3.737     | 3.721   | 3.736   | 3.843  |       |
| IPLV                 |                                    |          |           |  | 7.093            | 6.797     | 6.932   | 6.385   | 7.155  |       |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553   |         |        |       |
|                      |                                    | Width    |           |  |                  | mm        | 2,238   |         |        |       |
|                      |                                    | Depth    |           |  |                  | mm        | 6,880   | 7,960   | 6,880  | 7,960 |
| Weight               | Unit                               |          |           |  | kg               | 5,136     | 5,157   | 5,639   | 5,805  |       |
|                      | Operation weight                   |          |           |  | kg               | 5,201     | 5,227   | 5,714   | 5,880  |       |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |         |         |        |       |
| Compressor           | Type                               |          |           |  | Screw compressor |           |         |         |        |       |
| Fan                  | Quantity                           |          |           |  | 1                | 2         | 1       | 2       |        |       |
|                      | Type                               |          |           |  | Direct propeller |           |         |         |        |       |
|                      | Quantity                           |          |           |  | 12               | 14        | 12      | 14      |        |       |
|                      |                                    |          |           |  | Air flow rate    | Cooling   | Nom.    | l/s     | 67,848 |       |
| Sound power level    | Cooling                            | Nom.     |           |  |                  | dBA       | 104.6   | 100.6   | 100.9  |       |
| Sound pressure level | Cooling                            | Nom.     |           |  |                  | dBA       | 83.39   | 79.43   | 79.35  |       |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  |                  |           | °CDB    | -20 ~46 | 77.82  |       |
| Refrigerant          | Type/GWP                           |          |           |  | R-1234(ze)/7     |           |         |         |        |       |
|                      | Charge                             |          |           |  | kg               | 65        | 70      | 75      | 85     |       |
|                      | Circuits                           | Quantity |           |  |                  | 1         | 2       | 1       | 2      |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 139.7mm          | 168.3mm   | 139.7mm | 219.1mm |        |       |
| Unit                 | Starting current                   | Max      |           |  |                  | A         | 0       |         |        |       |
|                      | Running                            | Cooling  | Nom.      |  |                  |           | A       | 278     | 298.6  | 322.3 |
|                      | current                            | Max      |           |  |                  | A         | 367     | 375     | 406    | 290.8 |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |         |         |        |       |



EWAH-TZPSD



MicroTech 4

| EWAH-TZPSD           |                                    |          |                  |       | 645       | 700   | 770    | 845     | 900   |
|----------------------|------------------------------------|----------|------------------|-------|-----------|-------|--------|---------|-------|
| SEER                 |                                    |          |                  |       | 6.816     | 6.672 | 6.656  | 6.712   | 6.595 |
| Cooling capacity     | Nom.                               |          | kW               |       | 640.9     | 697.3 | 768.3  | 847.6   | 901.3 |
| Power input          | Cooling                            | Nom.     | kW               |       | 167.4     | 190.8 | 209.2  | 230.4   | 254.6 |
| Capacity control     | Method                             |          | Stepless         |       |           |       |        |         |       |
|                      | Minimum capacity                   |          | %                |       | 14        | 13    | 12     | 11      | 10    |
| EER                  |                                    |          |                  |       | 3.782     | 3.642 | 3.648  |         | 3.528 |
| IPLV                 |                                    |          |                  |       | 7.157     | 6.992 | 6.965  | 7.134   | 6.932 |
| Dimensions           | Unit                               | Height   | mm               |       | 2,553     |       |        |         |       |
|                      |                                    | Width    | mm               |       | 2,238     |       |        |         |       |
|                      |                                    | Depth    | mm               |       | 7,960     |       | 9,040  | 10,120  |       |
| Weight               | Unit                               | kg       |                  | 6,151 |           | 6,722 | 7,256  |         |       |
|                      | Operation weight                   |          | kg               |       | 6,241     | 6,246 | 6,827  | 7,371   | 7,381 |
| Air heat exchanger   | Type                               |          | Microchannel     |       |           |       |        |         |       |
| Compressor           | Type                               |          | Screw compressor |       |           |       |        |         |       |
|                      | Quantity                           |          | 2                |       |           |       |        |         |       |
| Fan                  | Type                               |          | Direct propeller |       |           |       |        |         |       |
|                      | Quantity                           |          | 14               |       | 16        |       | 18     |         |       |
|                      | Air flow rate                      | Cooling  | Nom.             | l/s   | 79,170    |       | 90,480 | 101,780 |       |
| Sound power level    | Cooling                            | Nom.     | dBA              |       | 97.5      | 99.3  | 101    | 102.3   | 104.2 |
| Sound pressure level | Cooling                            | Nom.     | dBA              |       | 75.95     | 77.76 | 79.04  | 80.05   | 81.92 |
| Operation range      | Air side                           | Cooling  | Min.~Max.        | °CDB  | -20 ~46   |       |        |         |       |
| Refrigerant          | Type/GWP                           |          | R-1234(ze)/7     |       |           |       |        |         |       |
|                      | Charge                             | kg       |                  | 90    | 95        | 105   | 115    | 125     |       |
|                      | Circuits                           | Quantity |                  | 2     |           |       |        |         |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |          | 219.1mm          |       |           |       |        |         |       |
| Unit                 | Starting current                   |          | A                |       | 0         |       |        |         |       |
|                      | Running                            | Cooling  | Nom.             | A     | 365       | 403.1 | 437.5  | 473.2   | 507.8 |
|                      | current                            | Max      | A                |       | 458       | 505   | 558    | 609     | 647   |
| Power supply         | Phase/Frequency/Voltage            |          | Hz/V             |       | 3~/50/400 |       |        |         |       |

| EWAH-TZPSD           |                                    |          |                  |       | 960       | C10   | H10     | H11   | C12     |
|----------------------|------------------------------------|----------|------------------|-------|-----------|-------|---------|-------|---------|
| SEER                 |                                    |          |                  |       | 6.596     | 6.52  | 6.564   | 6.262 | 6.327   |
| Cooling capacity     | Nom.                               |          | kW               |       | 958.2     | 1,006 | 1,068   | 1,163 | 1,216   |
| Power input          | Cooling                            | Nom.     | kW               |       | 268.9     | 289.6 | 305.9   | 315.5 | 327.6   |
| Capacity control     | Method                             |          | Stepless         |       |           |       |         |       |         |
|                      | Minimum capacity                   |          | %                |       | 10        |       | 14      |       |         |
| EER                  |                                    |          |                  |       | 3.54      | 3.462 | 3.469   | 3.7   | 3.712   |
| IPLV                 |                                    |          |                  |       | 6.912     | 6.746 | 6.815   | 6.562 | 7.068   |
| Dimensions           | Unit                               | Height   | mm               |       | 2,553     |       |         |       |         |
|                      |                                    | Width    | mm               |       | 2,238     |       |         |       |         |
|                      |                                    | Depth    | mm               |       | 11,200    |       | 12,280  |       | 13,360  |
| Weight               | Unit                               | kg       |                  | 8,050 |           | 8,573 | 9,242   | 9,723 |         |
|                      | Operation weight                   |          | kg               |       | 8,180     | 8,190 | 8,723   | 9,402 | 9,893   |
| Air heat exchanger   | Type                               |          | Microchannel     |       |           |       |         |       |         |
| Compressor           | Type                               |          | Screw compressor |       |           |       |         |       |         |
|                      | Quantity                           |          | 2                |       |           |       |         |       |         |
| Fan                  | Type                               |          | Direct propeller |       |           |       |         |       |         |
|                      | Quantity                           |          | 20               |       | 22        |       |         | 24    |         |
|                      | Air flow rate                      | Cooling  | Nom.             | l/s   | 113,089   |       | 140,200 |       | 152,945 |
| Sound power level    | Cooling                            | Nom.     | dBA              |       | 106.5     | 106.9 | 105.5   | 102.4 | 102.8   |
| Sound pressure level | Cooling                            | Nom.     | dBA              |       | 83.96     | 84.32 | 82.67   | 79.52 | 79.71   |
| Operation range      | Air side                           | Cooling  | Min.~Max.        | °CDB  | -20 ~46   |       |         |       |         |
| Refrigerant          | Type/GWP                           |          | R-1234(ze)/7     |       |           |       |         |       |         |
|                      | Charge                             | kg       |                  | 130   | 140       | 150   | 160     | 170   |         |
|                      | Circuits                           | Quantity |                  | 2     |           |       |         |       |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          | 273mm            |       |           |       |         |       |         |
| Unit                 | Starting current                   |          | A                |       | 0         |       |         |       |         |
|                      | Running                            | Cooling  | Nom.             | A     | 539.6     | 569.4 | 603     | 612   | 638.1   |
|                      | current                            | Max      | A                |       | 694       | 731   | 779     | 875   | 923     |
| Power supply         | Phase/Frequency/Voltage            |          | Hz/V             |       | 3~/50/400 |       |         |       |         |



# Inverter screw with PLATINUM efficiency. Reduced sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWAH-TZPRD           |                                    |                         |           |  | 225      | 265       | 295     | 340    | 395    | 420    |       |       |       |
|----------------------|------------------------------------|-------------------------|-----------|--|----------|-----------|---------|--------|--------|--------|-------|-------|-------|
| SEER                 |                                    |                         |           |  |          | 6.176     | 6.335   | 6.289  | 7.018  | 6.627  | 6.824 |       |       |
| Cooling capacity     | Nom.                               |                         |           |  | kW       | 225.2     | 264.6   | 291.2  | 333.9  | 389.2  | 419.1 |       |       |
| Power input          | Cooling                            | Nom.                    |           |  |          | kW        | 61.76   | 71.25  | 81.63  | 84.16  | 105.1 |       |       |
| Capacity control     | Method                             | Stepless                |           |  |          |           |         |        |        |        |       |       |       |
| Minimum capacity     |                                    |                         |           |  | %        | 22        | 19      | 17     | 28     | 23     | 22    |       |       |
| EER                  |                                    |                         |           |  |          | 3.647     | 3.713   | 3.567  | 3.967  | 3.705  | 3.703 |       |       |
| IPLV                 |                                    |                         |           |  |          | 6.699     | 6.688   | 6.583  | 7.472  | 7.129  | 7.273 |       |       |
| Dimensions           | Unit                               | Height                  |           |  |          | mm        | 2,553   |        |        |        |       |       |       |
|                      |                                    | Width                   |           |  |          | mm        | 2,238   |        |        |        |       |       |       |
|                      |                                    | Depth                   |           |  |          | mm        | 3,760   | 4,840  |        | 5,920  |       | 7,000 |       |
| Weight               | Unit                               |                         |           |  | kg       | 3,332     | 3,844   |        | 4,689  |        | 5,170 |       |       |
|                      | Operation weight                   |                         |           |  | kg       | 3,242     | 3,759   | 3,764  | 4,614  | 4,624  | 5,110 |       |       |
| Air heat exchanger   | Type                               | Microchannel            |           |  |          |           |         |        |        |        |       |       |       |
| Compressor           | Type                               | Screw compressor        |           |  |          |           |         |        |        |        |       |       |       |
|                      |                                    |                         |           |  | Quantity | 1         |         |        |        |        |       |       |       |
| Fan                  | Type                               | Direct propeller        |           |  |          |           |         |        |        |        |       |       |       |
|                      | Quantity                           |                         |           |  |          |           |         |        |        |        |       |       |       |
|                      | Air flow rate                      | Cooling                 | Nom.      |  |          |           | l/s     | 6      | 8      | 10     | 12    |       |       |
| Sound power level    | Cooling                            | Nom.                    |           |  |          | dBA       | 28,330  | 37,770 | 47,213 | 56,660 |       |       |       |
| Sound pressure level | Cooling                            | Nom.                    |           |  |          | dBA       | 87.5    | 88.3   | 91.5   | 87.6   | 89.1  | 90.2  |       |
| Operation range      | Air side                           | Cooling                 | Min.~Max. |  |          |           | °CDB    | 67.73  | 68.06  | 71.23  | 66.88 | 68.33 | 69.04 |
| Refrigerant          | Type/GWP                           | -20 ~46<br>R-1234(ze)/7 |           |  |          |           |         |        |        |        |       |       |       |
|                      | Charge                             |                         |           |  | kg       | 30        | 35      | 40     | 45     | 55     | 60    |       |       |
|                      | Circuits                           | Quantity                |           |  |          | 1         |         |        |        |        |       |       |       |
| Piping connections   | Evaporator water inlet/outlet (OD) | 88.9mm                  |           |  |          |           | 139.7mm |        |        |        |       |       |       |
| Unit                 | Starting current                   | Max                     |           |  |          | A         | 0       |        |        |        |       |       |       |
|                      | Running                            | Cooling                 | Nom.      |  |          |           | A       | 145.5  | 169.8  | 188.1  | 199.8 | 235.9 | 252.3 |
|                      | current                            | Max                     |           |  |          | A         | 183     | 214    | 235    | 258    | 301   | 330   |       |
| Power supply         | Phase/Frequency/Voltage            |                         |           |  | Hz/V     | 3~/50/400 |         |        |        |        |       |       |       |

| EWAH-TZPRD           |                                    |                         |           |  | 490      | 500       | 540     | 545     | 615     |        |       |       |
|----------------------|------------------------------------|-------------------------|-----------|--|----------|-----------|---------|---------|---------|--------|-------|-------|
| SEER                 |                                    |                         |           |  |          | 6.728     | 6.458   | 6.426   | 6.091   | 6.484  |       |       |
| Cooling capacity     | Nom.                               |                         |           |  | kW       | 481.2     | 497.4   | 533.5   | 536.5   | 604.9  |       |       |
| Power input          | Cooling                            | Nom.                    |           |  |          | kW        | 133.4   | 132.3   | 141.6   | 143.6  |       |       |
| Capacity control     | Method                             | Stepless                |           |  |          |           |         |         |         |        |       |       |
| Minimum capacity     |                                    |                         |           |  | %        | 19        | 10      | 30      | 15      |        |       |       |
| EER                  |                                    |                         |           |  |          | 3.606     | 3.76    | 3.768   | 3.736   | 3.858  |       |       |
| IPLV                 |                                    |                         |           |  |          | 7.127     | 6.826   | 6.955   | 6.407   | 7.285  |       |       |
| Dimensions           | Unit                               | Height                  |           |  |          | mm        | 2,553   |         |         |        |       |       |
|                      |                                    | Width                   |           |  |          | mm        | 2,238   |         |         |        |       |       |
|                      |                                    | Depth                   |           |  |          | mm        | 7,000   |         | 8,080   | 7,000  | 8,080 |       |
| Weight               | Unit                               |                         |           |  | kg       | 5,256     | 5,277   | 5,759   | 5,925   | 6,271  |       |       |
|                      | Operation weight                   |                         |           |  | kg       | 5,201     | 5,227   | 5,714   | 5,880   | 6,236  |       |       |
| Air heat exchanger   | Type                               | Microchannel            |           |  |          |           |         |         |         |        |       |       |
| Compressor           | Type                               | Screw compressor        |           |  |          |           |         |         |         |        |       |       |
|                      |                                    |                         |           |  | Quantity | 1         |         | 2       |         | 1      | 2     |       |
| Fan                  | Type                               | Direct propeller        |           |  |          |           |         |         |         |        |       |       |
|                      | Quantity                           |                         |           |  |          |           |         |         |         |        |       |       |
|                      | Air flow rate                      | Cooling                 | Nom.      |  |          |           | l/s     | 12      | 14      | 12     | 14    |       |
| Sound power level    | Cooling                            | Nom.                    |           |  |          | dBA       | 56,660  | 66,098  | 56,660  | 66,098 |       |       |
| Sound pressure level | Cooling                            | Nom.                    |           |  |          | dBA       | 93.4    | 90.5    | 91      | 89.6   | 88.9  |       |
| Operation range      | Air side                           | Cooling                 | Min.~Max. |  |          |           | °CDB    | 72.28   | 69.38   | 69.43  | 68.42 | 67.29 |
| Refrigerant          | Type/GWP                           | -20 ~46<br>R-1234(ze)/7 |           |  |          |           |         |         |         |        |       |       |
|                      | Charge                             |                         |           |  | kg       | 65        | 70      | 75      | 85      |        |       |       |
|                      | Circuits                           | Quantity                |           |  |          | 1         | 2       |         | 1       | 2      |       |       |
| Piping connections   | Evaporator water inlet/outlet (OD) | 139.7mm                 |           |  |          |           | 168.3mm | 139.7mm | 219.1mm |        |       |       |
| Unit                 | Starting current                   | Max                     |           |  |          | A         | 0       |         |         |        |       |       |
|                      | Running                            | Cooling                 | Nom.      |  |          |           | A       | 283.4   | 305.9   | 329.8  | 298.5 | 355.9 |
|                      | current                            | Max                     |           |  |          | A         | 367     | 375     | 406     | 425    | 432   |       |
| Power supply         | Phase/Frequency/Voltage            |                         |           |  | Hz/V     | 3~/50/400 |         |         |         |        |       |       |



EWAH-TZPRD



MicroTech 4

| EWAH-TZPRD           |                                    |          |           |  | 645              | 700       | 770    | 845     | 900    |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|--------|---------|--------|
| SEER                 |                                    |          |           |  | 6.833            | 6.649     | 6.674  | 6.722   | 6.613  |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 633.1     | 689    | 760.6   | 839.9  |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 167.4  | 190.8   | 209.2  |
| Capacity control     | Method                             |          |           |  | Stepless         |           |        |         |        |
|                      | Minimum capacity                   |          |           |  | %                | 14        | 13     | 12      | 11     |
| EER                  |                                    |          |           |  | 3.783            | 3.612     | 3.636  | 3.646   | 3.504  |
| IPLV                 |                                    |          |           |  | 7.162            | 7.001     | 6.458  | 7.118   | 6.974  |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553  |         |        |
|                      |                                    | Width    |           |  |                  | mm        | 2,238  |         |        |
|                      |                                    | Depth    |           |  |                  | mm        | 8,080  | 9,160   | 10,240 |
| Weight               | Unit                               |          |           |  | kg               | 6,271     | 6,842  | 7,376   |        |
|                      | Operation weight                   |          |           |  | kg               | 6,241     | 6,246  | 6,827   | 7,371  |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |        |         |        |
| Compressor           | Type                               |          |           |  | Screw compressor |           |        |         |        |
|                      | Quantity                           |          |           |  | 2                |           |        |         |        |
| Fan                  | Type                               |          |           |  | Direct propeller |           |        |         |        |
|                      | Quantity                           |          |           |  | 14               |           | 16     | 18      |        |
| Air flow rate        | Cooling                            | Nom.     |           |  |                  | l/s       | 66,098 | 75,540  | 84,983 |
| Sound power level    | Cooling                            | Nom.     |           |  |                  | dBA       | 89.2   | 90.1    | 91.2   |
| Sound pressure level | Cooling                            | Nom.     |           |  |                  | dBA       | 67.65  | 68.52   | 69.33  |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  |                  |           | °CDB   | -20 ~46 | 70.02  |
| Refrigerant          | Type/GWP                           |          |           |  | R-1234(ze)/7     |           |        |         |        |
|                      | Charge                             |          |           |  | kg               | 90        | 95     | 105     | 115    |
|                      | Circuits                           | Quantity |           |  |                  | 2         |        |         |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 219.1mm          |           |        |         |        |
| Unit                 | Starting current                   | Max      |           |  |                  | A         | 0      |         |        |
|                      | Running current                    | Cooling  | Nom.      |  |                  |           | A      | 374.4   | 414.8  |
|                      |                                    | Max      |           |  |                  | A         | 458    | 505     | 558    |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |        |         |        |

| EWAH-TZPRD           |                                    |          |           |  | 960              | C10       | H10    | H11     | C12     |
|----------------------|------------------------------------|----------|-----------|--|------------------|-----------|--------|---------|---------|
| SEER                 |                                    |          |           |  | 6.665            | 6.53      | 6.577  | 6.262   | 6.255   |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 949.1     | 994.9  | 1,056   | 1,150   |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW        | 268.9  | 289.6   | 305.9   |
| Capacity control     | Method                             |          |           |  | Stepless         |           |        |         |         |
|                      | Minimum capacity                   |          |           |  | %                | 10        |        | 14      |         |
| EER                  |                                    |          |           |  | 3.53             | 3.435     | 3.452  | 3.644   | 3.675   |
| IPLV                 |                                    |          |           |  | 6.918            | 6.794     | 6.863  | 6.451   | 6.947   |
| Dimensions           | Unit                               | Height   |           |  |                  | mm        | 2,553  |         |         |
|                      |                                    | Width    |           |  |                  | mm        | 2,238  |         |         |
|                      |                                    | Depth    |           |  |                  | mm        | 11,320 | 12,400  | 13,480  |
| Weight               | Unit                               |          |           |  | kg               | 8,170     | 8,693  | 9,362   | 9,843   |
|                      | Operation weight                   |          |           |  | kg               | 8,180     | 8,190  | 8,723   | 9,402   |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |           |        |         |         |
| Compressor           | Type                               |          |           |  | Screw compressor |           |        |         |         |
|                      | Quantity                           |          |           |  | 2                |           |        |         |         |
| Fan                  | Type                               |          |           |  | Direct propeller |           |        |         |         |
|                      | Quantity                           |          |           |  | 20               |           | 22     |         | 24      |
| Air flow rate        | Cooling                            | Nom.     |           |  |                  | l/s       | 94,425 | 103,868 | 113,320 |
| Sound power level    | Cooling                            | Nom.     |           |  |                  | dBA       | 95.4   | 94.8    | 92.6    |
| Sound pressure level | Cooling                            | Nom.     |           |  |                  | dBA       | 72.9   | 73.2    | 71.92   |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  |                  |           | °CDB   | -20 ~46 | 69.81   |
| Refrigerant          | Type/GWP                           |          |           |  | R-1234(ze)/7     |           |        |         |         |
|                      | Charge                             |          |           |  | kg               | 130       | 140    | 150     | 160     |
|                      | Circuits                           | Quantity |           |  |                  | 2         |        |         |         |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  | 273mm            |           |        |         |         |
| Unit                 | Starting current                   | Max      |           |  |                  | A         | 0      |         |         |
|                      | Running current                    | Cooling  | Nom.      |  |                  |           | A      | 552.9   | 584.1   |
|                      |                                    | Max      |           |  |                  | A         | 694    | 731     | 779     |
| Power supply         | Phase/Frequency/Voltage            |          |           |  | Hz/V             | 3~/50/400 |        |         |         |

# Air cooled scroll compressor chiller with integrated free cooling Silver efficiency Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Glycol free option;
- New Daikin MicroTech 4 controller.



MicroTech 4



EWFT-B-SSC

| Cooling Only         |                                    |          |           | EWFT | 310B-SSC1 | 320B-SSC2 | 350B-SSC1 | 380B-SSC2 | 430B-SSC2 | 480B-SSC2 | 570B-SSC2 | 620B-SSC2 | 670B-SSC2 | 730B-SSC2 |
|----------------------|------------------------------------|----------|-----------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| SEER                 |                                    |          |           |      | 4.833     | 4.546     | 4.641     | 4.688     | 4.73      | 4.742     | 4.921     | 4.879     | 4.815     | 5.014     |
| Cooling capacity     | Nom.                               |          |           | kW   | 395.2     | 351.7     | 439.1     | 499.3     | 493.6     | 553.8     | 738.6     | 803.5     | 749.6     | 843.7     |
| Power input          | Cooling                            | Nom.     |           | kW   | 121.6     | 95.91     | 151.7     | 138.4     | 131.3     | 164.2     | 211       | 245.1     | 211.9     | 220.9     |
| Capacity control     | Method                             |          |           |      |           |           |           |           |           |           |           |           |           |           |
|                      | Minimum capacity                   |          |           | %    | 39        | 21        | 33        | 18        | 16        | 14        | 22        | 20        | 18        | 17        |
| EER                  |                                    |          |           |      | 3.25      | 3.667     | 2.894     | 3.608     | 3.76      | 3.373     | 3.501     | 3.278     | 3.538     | 3.819     |
| IPLV                 |                                    |          |           |      | 5.259     | 4.869     | 5.080     | 5.078     | 5.086     | 5.122     | 5.284     | 5.275     | 5.241     | 5.392     |
| Dimensions           | Unit                               | Height   |           | mm   |           |           |           |           |           |           |           |           |           |           |
|                      |                                    | Width    |           | mm   |           |           |           |           |           |           |           |           |           |           |
|                      |                                    | Depth    |           | mm   |           |           |           |           |           |           |           |           |           |           |
| Weight               | Unit                               |          |           | kg   | 2,245     | 2,288     | 2,373     | 2,852     | 3,012     | 3,155     | 3,774     | 3,953     | 4,056     | 4,667     |
|                      | Operation weight                   |          |           | kg   | 2,388     | 2,436     | 2,521     | 3,023     | 3,198     | 3,341     | 4,044     | 4,223     | 4,343     | 5,054     |
| Air heat exchanger   | Type                               |          |           |      |           |           |           |           |           |           |           |           |           |           |
| Compressor           | Type                               |          |           |      |           |           |           |           |           |           |           |           |           |           |
|                      | Quantity                           |          |           |      | 3         | 4         | 3         | 4         |           | 5         |           |           | 6         |           |
| Fan                  | Type                               |          |           |      |           |           |           |           |           |           |           |           |           |           |
|                      | Quantity                           |          |           |      | 4         |           |           | 6         |           |           | 8         |           | 10        |           |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 22,510    |           |           | 33,765    |           |           | 45,020    |           | 56,275    |           |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 94        | 93.8      | 94.5      | 95.1      | 95.6      | 95.9      | 96.7      | 97        | 97.3      | 97.9      |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 74.9      | 74.7      | 75.5      | 75.4      | 75.9      | 76.2      | 76.5      | 76.7      | 77.0      | 77.2      |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB |           |           |           |           |           |           |           |           |           |           |
| Refrigerant          | Type/GWP                           |          |           |      |           |           |           |           |           |           |           |           |           |           |
|                      | Charge                             |          |           | kg   | 22.0      | 25.0      | 30.0      | 31.0      | 35.0      | 39.0      | 45.0      | 50.0      | 53        | 59.0      |
|                      | Circuits                           | Quantity |           |      | 1         | 2         | 1         |           |           |           | 2         |           |           |           |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      |           |           | 88.9      |           |           |           |           | 139.7     |           |           |
| Unit                 | Starting current                   | Max      |           | A    | 693       | 697       | 735       | 750       | 792       | 838       | 891       | 936       | 979       | 1,032     |
|                      | Running current                    | Cooling  | Nom.      | A    | 216.2     | 174.1     | 264.3     | 252.3     | 240.2     | 294.4     | 378.9     | 435       | 380.3     | 403.2     |
|                      | current                            | Max      |           | A    | 245       | 249       | 287       | 302       | 344       | 390       | 443       | 488       | 531       | 584       |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V |           |           |           |           |           |           |           |           |           |           |
|                      |                                    |          |           |      |           |           |           |           |           |           |           |           |           |           |
| Cooling Only         |                                    |          |           | EWFT | 790B-SSC2 |           |           | 860B-SSC2 |           |           | 960B-SSC2 |           |           |           |
| SEER                 |                                    |          |           |      |           | 5.049     |           |           | 5.076     |           |           | 4.93      |           |           |
| Cooling capacity     | Nom.                               |          |           | kW   |           | 1,018     |           |           | 1,112     |           |           | 1,235     |           |           |
| Power input          | Cooling                            | Nom.     |           | kW   |           | 316.1     |           |           | 325.1     |           |           | 387.5     |           |           |
| Capacity control     | Method                             |          |           |      |           |           |           |           |           |           |           |           |           |           |
|                      | Minimum capacity                   |          |           | %    |           | 15        |           |           | 14        |           |           | 25        |           |           |
| EER                  |                                    |          |           |      |           | 3.222     |           |           | 3.422     |           |           | 3.188     |           |           |
| IPLV                 |                                    |          |           |      |           | 5.307     |           |           | 5.381     |           |           | 5.312     |           |           |
| Dimensions           | Unit                               | Height   |           | mm   |           |           |           |           |           |           |           |           |           |           |
|                      |                                    | Width    |           | mm   |           |           |           |           |           |           |           |           |           |           |
|                      |                                    | Depth    |           | mm   |           | 5,848     |           |           | 6,928     |           |           |           |           |           |
| Weight               | Unit                               |          |           | kg   |           | 5,035     |           |           | 5,546     |           |           | 5,860     |           |           |
|                      | Operation weight                   |          |           | kg   |           | 5,422     |           |           | 5,975     |           |           | 6,311     |           |           |
| Air heat exchanger   | Type                               |          |           |      |           |           |           |           |           |           |           |           |           |           |
| Compressor           | Type                               |          |           |      |           |           |           |           |           |           |           |           |           |           |
|                      | Quantity                           |          |           |      |           |           |           | 7         |           |           |           | 8         |           |           |
| Fan                  | Type                               |          |           |      |           |           |           |           |           |           |           |           |           |           |
|                      | Quantity                           |          |           |      |           |           |           |           |           |           |           |           |           |           |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  |           | 56,275    |           |           | 12        |           |           | 67,530    |           |           |
| Sound power level    | Cooling                            | Nom.     |           | dBA  |           | 98.1      |           |           | 98.6      |           |           | 99        |           |           |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  |           | 77.4      |           |           | 77.5      |           |           | 77.8      |           |           |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB |           |           |           |           |           |           |           |           |           |           |
| Refrigerant          | Type/GWP                           |          |           |      |           |           |           |           |           |           |           |           |           |           |
|                      | Charge                             |          |           | kg   |           | 63.0      |           |           | 68.0      |           |           | 77.0      |           |           |
|                      | Circuits                           | Quantity |           |      |           |           |           |           | 2         |           |           |           |           |           |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      |           |           |           |           | 139.7     |           |           |           |           |           |
| Unit                 | Starting current                   | Max      |           | A    |           | 1,079     |           |           | 1,132     |           |           | 1,220     |           |           |
|                      | Running current                    | Cooling  | Nom.      | A    |           | 559       |           |           | 581.8     |           |           | 683.6     |           |           |
|                      | current                            | Max      |           | A    |           | 631       |           |           | 684       |           |           | 772       |           |           |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V |           |           |           |           |           |           |           |           |           |           |
|                      |                                    |          |           |      |           |           |           |           |           |           |           |           |           |           |

Performances according to Chiller Configurator 1.4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.

# Air cooled scroll compressor chiller with integrated free cooling Silver efficiency Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Glycol free option;
- New Daikin MicroTech 4 controller.



MicroTech 4



EWFT-B-SRC

| Cooling Only         |                                    |          |           | EWFT | 310B-SRC1         | 320B-SRC2 | 350B-SRC1 | 380B-SRC2 | 430B-SRC2 | 480B-SRC2 | 570B-SRC2 | 620B-SRC2 | 670B-SRC2 | 730B-SRC2 |
|----------------------|------------------------------------|----------|-----------|------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| SEER                 |                                    |          |           |      | 4.778             | 4.329     | 4.602     | 4.713     | 4.715     | 4.662     | 4.899     | 4.823     | 4.782     | 4.972     |
| Cooling capacity     | Nom.                               |          |           | kW   | 395.2             | 408.4     | 439.1     | 480.6     | 544.2     | 598.2     | 725       | 762.6     | 851.4     | 947.6     |
| Power input          | Cooling                            | Nom.     |           | kW   | 121.6             | 131.1     | 151.7     | 143.7     | 167.5     | 204.3     | 214.2     | 259.3     | 277.4     | 283.4     |
| Capacity control     | Method                             |          |           |      | Step              |           |           |           |           |           |           |           |           |           |
|                      | Minimum capacity                   |          |           | %    | 39                | 21        | 33        | 18        | 16        | 14        | 22        | 20        | 18        | 17        |
| EER                  |                                    |          |           |      | 3.25              | 3.115     | 2.894     | 3.344     | 3.249     | 2.928     | 3.385     | 2.941     | 3.069     | 3.344     |
| IPLV                 |                                    |          |           |      | 5.281             | 4.858     | 5.084     | 5.074     | 5.096     | 5.148     | 5.329     | 5.347     | 5.309     | 5.414     |
| Dimensions           | Unit                               | Height   |           | mm   | 2,535             |           |           |           |           |           |           |           |           |           |
|                      |                                    | Width    |           | mm   | 2,238             |           |           |           |           |           |           |           |           |           |
|                      |                                    | Depth    |           | mm   | 2,514             |           |           |           |           |           |           |           |           |           |
| Weight               | Unit                               |          |           | kg   | 2,336             | 2,379     | 2,464     | 2,942     | 3,134     | 3,298     | 3,917     | 4,116     | 4,219     | 4,830     |
|                      | Operation weight                   |          |           | kg   | 2,479             | 2,527     | 2,612     | 3,113     | 3,320     | 3,484     | 4,187     | 4,386     | 4,506     | 5,217     |
| Air heat exchanger   | Type                               |          |           |      | Microchannel      |           |           |           |           |           |           |           |           |           |
| Compressor           | Type                               |          |           |      | Scroll compressor |           |           |           |           |           |           |           |           |           |
| Fan                  | Quantity                           |          |           |      | 3                 | 4         | 3         | 4         | 4         | 5         |           |           | 6         |           |
|                      | Type                               |          |           |      | Direct propeller  |           |           |           |           |           |           |           |           |           |
|                      | Quantity                           |          |           |      | 4                 |           |           | 6         |           |           | 8         |           |           | 10        |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 22,510            |           |           |           |           |           |           |           |           |           |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 87.9              | 87.8      | 88.1      | 89.5      | 89.6      | 89.7      | 90.8      | 90.9      | 91        | 91.9      |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 68.8              |           |           |           |           |           |           |           |           |           |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~46           |           |           |           |           |           |           |           |           |           |
| Refrigerant          | Type/GWP                           |          |           |      | R-32/675          |           |           |           |           |           |           |           |           |           |
|                      | Charge                             |          |           | kg   | 22.0              | 25.0      | 30.0      | 31.0      | 35.0      | 39.0      | 45.0      | 50.0      | 53.0      | 59.0      |
|                      | Circuits                           | Quantity |           |      | 1                 | 2         | 1         |           |           |           | 2         |           |           |           |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 88.9              |           |           |           |           |           |           |           |           |           |
| Unit                 | Starting current                   | Max      |           | A    | 693               | 697       | 735       | 750       | 792       | 838       | 891       | 936       | 979       | 1,032     |
|                      | Running current                    | Cooling  | Nom.      | A    | 229.6             | 243.8     | 277.7     | 266.8     | 312.2     | 372.3     | 401.2     | 464.7     | 509.7     | 529.5     |
|                      | current                            | Max      |           | A    | 245               | 249       | 287       | 302       | 344       | 390       | 443       | 488       | 531       | 584       |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400         |           |           |           |           |           |           |           |           |           |

| Cooling Only         |                                    |          |           | EWFT | 790B-SRC2         | 860B-SRC2 | 960B-SRC2 |
|----------------------|------------------------------------|----------|-----------|------|-------------------|-----------|-----------|
| SEER                 |                                    |          |           |      | 4.984             | 5.057     | 4.883     |
| Cooling capacity     | Nom.                               |          |           | kW   | 970.4             | 1,093     | 1,170     |
| Power input          | Cooling                            | Nom.     |           | kW   | 335.4             | 329.9     | 409.7     |
| Capacity control     | Method                             |          |           |      | Step              |           |           |
|                      | Minimum capacity                   |          |           | %    | 15                | 14        | 25        |
| EER                  |                                    |          |           |      | 2.893             | 3.312     | 2.856     |
| IPLV                 |                                    |          |           |      | 5.271             | 5.399     | 5.300     |
| Dimensions           | Unit                               | Height   |           | mm   | 2,535             |           |           |
|                      |                                    | Width    |           | mm   | 2,238             |           |           |
|                      |                                    | Depth    |           | mm   | 5,848             |           | 6,928     |
| Weight               | Unit                               |          |           | kg   | 5,220             | 5,730     | 6,065     |
|                      | Operation weight                   |          |           | kg   | 5,607             | 6,159     | 6,516     |
| Air heat exchanger   | Type                               |          |           |      | Microchannel      |           |           |
| Compressor           | Type                               |          |           |      | Scroll compressor |           |           |
| Fan                  | Quantity                           |          |           |      | 7                 |           | 8         |
|                      | Type                               |          |           |      | Direct propeller  |           |           |
|                      | Quantity                           |          |           |      | 10                | 12        |           |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 56,275            | 67,530    |           |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 91.9              | 92.6      | 92.7      |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 71.2              | 71.5      | 71.6      |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~46           |           |           |
| Refrigerant          | Type/GWP                           |          |           |      | R-32/675          |           |           |
|                      | Charge                             |          |           | kg   | 63.0              | 68.0      | 77.0      |
|                      | Circuits                           | Quantity |           |      | 2                 |           |           |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 139.7             |           |           |
| Unit                 | Starting current                   | Max      |           | A    | 1,078             | 1,131     | 1,219     |
|                      | Running current                    | Cooling  | Nom.      | A    | 597.9             | 615.2     | 727.8     |
|                      | current                            | Max      |           | A    | 630               | 683       | 771       |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400         |           |           |

Performances according to Chiller Configurator 1.4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.



# Air cooled scroll compressor chiller with integrated free cooling Gold efficiency Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Glycol free option;
- New Daikin MicroTech 4 controller.



MicroTech 4



EWFT-B-XSC

| Cooling Only         |                                    |          |           | EWFT | 10B-XSC2          | 250B-XSC1 | 320B-XSC1 | 370B-XSC1 | 390B-XSC2 | 450B-XSC2 | 510B-XSC2 | 540B-XSC2 | 590B-XSC2 | 630B-XSC2 |
|----------------------|------------------------------------|----------|-----------|------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| SEER                 |                                    |          |           |      | 5.189             | 4.723     | 5.186     | 5.011     | 4.74      | 4.957     | 4.911     | 5.213     | 5.141     | 5.131     |
| Cooling capacity     | Nom.                               |          |           | kW   | 1,326             | 331.9     | 429.6     | 487.6     | 508.5     | 591.6     | 673.7     | 716.2     | 774.8     | 829.5     |
| Power input          | Cooling                            | Nom.     |           | kW   | 351.7             | 87.99     | 108.4     | 131       | 139.3     | 152.6     | 176.8     | 175.2     | 197.5     | 219.9     |
| Capacity control     | Method                             |          |           |      | Step              |           |           |           |           |           |           |           |           |           |
|                      | Minimum capacity                   |          |           | %    | 25                | 50        | 39        | 33        | 18        | 16        | 25        | 14        | 22        | 20        |
| EER                  |                                    |          |           |      | 3.77              | 3.772     | 3.963     | 3.722     | 3.65      | 3.877     | 3.81      | 4.088     | 3.923     | 3.772     |
| IPLV                 |                                    |          |           |      | 5.514             | 5.185     | 5.518     | 5.366     | 5.122     | 5.326     | 5.322     | 5.623     | 5.546     | 5.509     |
| Dimensions           | Unit                               | Height   |           | mm   | 2,535             |           |           |           |           |           |           |           |           |           |
|                      |                                    |          |           | mm   | 2,238             |           |           |           |           |           |           |           |           |           |
|                      |                                    |          |           | mm   | 9,088             | 2,514     | 3,594     |           | 4,674     |           | 5,754     |           |           |           |
| Weight               | Unit                               |          |           | kg   | 6,792             | 2,129     | 2,678     | 2,800     | 2,885     | 3,420     | 3,634     | 4,150     | 4,266     | 4,377     |
|                      | Operation weight                   |          |           | kg   | 7,331             | 2,272     | 2,851     | 2,975     | 3,064     | 3,658     | 3,904     | 4,520     | 4,636     | 4,747     |
| Air heat exchanger   | Type                               |          |           |      | Microchannel      |           |           |           |           |           |           |           |           |           |
| Compressor           | Type                               |          |           |      | Scroll compressor |           |           |           |           |           |           |           |           |           |
|                      | Quantity                           |          |           |      | 8                 | 2         | 3         |           | 4         |           |           | 5         |           |           |
| Fan                  | Type                               |          |           |      | Direct propeller  |           |           |           |           |           |           |           |           |           |
|                      | Quantity                           |          |           |      | 16                | 4         | 6         |           | 8         |           |           | 10        |           |           |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 90,040            | 22,510    | 33,765    |           | 45,020    |           |           | 56,275    |           |           |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 99.5              | 93.5      | 94.8      | 95.3      | 95.1      | 96.1      | 96.5      | 96.9      | 97.2      | 97.5      |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 77.6              | 74.4      | 75.1      | 75.6      | 75.4      | 75.9      | 76.3      | 76.2      | 76.5      | 76.8      |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~46           |           |           |           |           |           |           |           |           |           |
| Refrigerant          | Type/GWP                           |          |           |      | R-32/675          |           |           |           |           |           |           |           |           |           |
|                      | Charge                             |          |           | kg   | 90.0              | 26.0      | 30.0      | 33.0      | 37.0      | 42.0      | 47.0      | 50.0      | 54.0      | 58.0      |
|                      | Circuits                           | Quantity |           |      | 2                 | 1         |           |           | 2         |           |           | 2         |           |           |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 139.7             | 88.9      |           |           | 139.7     |           |           | 139.7     |           |           |
| Unit                 | Starting current                   | Max      |           | A    | 1,240             | 647       | 703       | 746       | 750       | 803       | 845       | 858       | 901       | 944       |
|                      | Running                            | Cooling  | Nom.      | A    | 642.5             | 160.7     | 202.1     | 239.6     | 253.6     | 282.7     | 322.7     | 327.1     | 364.3     | 401.6     |
|                      | current                            | Max      |           | A    | 792               | 199       | 255       | 298       | 302       | 355       | 397       | 410       | 453       | 496       |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3~/50/400         |           |           |           |           |           |           |           |           |           |

| Cooling Only         |  |                                    |                      | EWFT | 720B-XSC2         |           | 760B-XSC2 |       | 830B-XSC2 |       | 880B-XSC2 |  |
|----------------------|--|------------------------------------|----------------------|------|-------------------|-----------|-----------|-------|-----------|-------|-----------|--|
| SEER                 |  |                                    |                      |      | 5.219             |           | 5.193     |       | 5.251     |       | 5.243     |  |
| Cooling capacity     |  | Nom.                               |                      | kW   | 945.8             |           | 1,002     |       | 1,100     |       | 1,156     |  |
| Power input          |  | Cooling                            | Nom.                 | kW   | 241.8             |           | 264.5     |       | 284.6     |       | 307.3     |  |
| Capacity control     |  | Method                             |                      |      | Step              |           |           |       |           |       |           |  |
|                      |  | Minimum capacity                   |                      | %    | 18                |           | 17        |       | 15        |       | 14        |  |
| EER                  |  |                                    |                      |      | 3.912             |           | 3.789     |       | 3.865     |       | 3.763     |  |
| IPLV                 |  |                                    |                      |      | 5.570             |           | 5.518     |       | 5.553     |       | 5.519     |  |
| Dimensions           |  | Unit                               | Height               | mm   | 2,535             |           |           |       |           |       |           |  |
|                      |  |                                    | Width                | mm   | 2,238             |           |           |       |           |       |           |  |
|                      |  |                                    | Depth                | mm   | 6,834             |           |           |       | 8,008     |       |           |  |
| Weight               |  | Unit                               |                      | kg   | 4,975             |           | 5,086     |       | 5,879     |       | 5,991     |  |
|                      |  | Operation weight                   |                      | kg   | 5,404             |           | 5,515     |       | 6,352     |       | 6,464     |  |
| Air heat exchanger   |  | Type                               |                      |      | Microchannel      |           |           |       |           |       |           |  |
| Compressor           |  | Type                               |                      |      | Scroll compressor |           |           |       |           |       |           |  |
|                      |  | Quantity                           |                      |      | 6                 |           |           |       | 7         |       |           |  |
| Fan                  |  | Type                               |                      |      | Direct propeller  |           |           |       |           |       |           |  |
|                      |  | Quantity                           |                      |      | 12                |           |           |       | 14        |       |           |  |
|                      |  | Air flow rate                      | Cooling    Nom.      | l/s  | 67,530            |           |           |       | 78,785    |       |           |  |
| Sound power level    |  | Cooling                            | Nom.                 | dBA  | 98                |           | 98.3      |       | 98.7      |       | 98.9      |  |
| Sound pressure level |  | Cooling                            | Nom.                 | dBA  | 76.9              |           | 77.1      |       | 77.2      |       | 77.4      |  |
| Operation range      |  | Air side                           | Cooling    Min.~Max. | °CDB | -20 ~46           |           |           |       |           |       |           |  |
| Refrigerant          |  | Type/GWP                           |                      |      | R-32/675          |           |           |       |           |       |           |  |
|                      |  | Charge                             |                      | kg   | 66.0              |           | 69.0      |       | 75.0      |       | 80.0      |  |
|                      |  | Circuits    Quantity               |                      |      | 2                 |           |           |       |           |       |           |  |
| Piping connections   |  | Evaporator water inlet/outlet (OD) |                      |      | 139.7             |           |           |       |           |       |           |  |
| Unit                 |  | Starting current                   |                      | Max  | A                 | 999       |           | 1,042 |           | 1,142 |           |  |
|                      |  | Running                            | Cooling              | Nom. | A                 | 445.1     |           | 482.9 |           | 523.9 |           |  |
|                      |  | current                            | Max                  |      | A                 | 551       |           | 594   |           | 694   |           |  |
| Power supply         |  | Phase/Frequency/Voltage            |                      |      | Hz/V              | 3~/50/400 |           |       |           |       |           |  |

Performances according to Chiller Configurator 1.4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.

# Air cooled scroll compressor chiller with integrated free cooling Gold efficiency Standard sound

- R32 refrigerant;
- Nominal capacity up to 1,000 kW;
- Scroll compressors;
- Top class efficiency both at full and part load conditions;
- Best capacity with smallest footprint;
- Microchannel coils;
- Glycol free option;
- New Daikin MicroTech 4 controller.



MicroTech 4



EWFT-B-XRC

| Cooling Only         |  |                                    |          | EWFT      | 10B-XRC2          | 250B-XRC1 | 320B-XRC1 | 370B-XRC1 | 390B-XRC2 | 450B-XRC2 | 510B-XRC2 | 540B-XRC2 | 590B-XRC2 | 630B-XRC2 |       |
|----------------------|--|------------------------------------|----------|-----------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| SEER                 |  |                                    |          |           | 5.14              | 4.7       | 5.144     | 5.025     | 4.70      | 5.002     | 4.833     | 5.214     | 5.167     | 5.064     |       |
| Cooling capacity     |  | Nom.                               |          | kW        | 1,224             | 306.4     | 403.9     | 451.4     | 484.7     | 553.5     | 620.5     | 673.3     | 721.2     | 765.7     |       |
| Power input          |  | Cooling                            |          | Nom.      | kW                | 383.2     | 95.79     | 114.4     | 142.5     | 146.9     | 162.7     | 192.9     | 184.1     | 211.7     | 239.6 |
| Capacity control     |  | Method                             |          |           | Step              |           |           |           |           |           |           |           |           |           |       |
|                      |  | Minimum capacity                   |          | %         | 25                | 50        | 39        | 33        | 18        | 16        | 25        | 14        | 22        | 20        |       |
| EER                  |  |                                    |          |           | 3.195             | 3.198     | 3.531     | 3.168     | 3.3       | 3.402     | 3.217     | 3.657     | 3.407     | 3.196     |       |
| IPLV                 |  |                                    |          |           | 5.568             | 5.118     | 5.587     | 5.431     | 5.094     | 5.373     | 5.305     | 5.650     | 5.567     | 5.515     |       |
| Dimensions           |  | Unit                               |          | mm        | 2,535             |           |           |           |           |           |           |           |           |           |       |
|                      |  | Height                             |          | mm        | 2,238             |           |           |           |           |           |           |           |           |           |       |
|                      |  | Width                              |          | mm        | 4,674             |           |           |           |           |           |           |           |           |           |       |
|                      |  | Depth                              |          | mm        | 9,088             | 2,514     | 3,594     |           | 4,674     |           | 5,754     |           |           |           |       |
| Weight               |  | Unit                               |          | kg        | 6,997             | 2,189     | 2,768     | 2,891     | 2,975     | 3,543     | 3,757     | 4,293     | 4,409     | 4,520     |       |
|                      |  | Operation weight                   |          | kg        | 7,536             | 2,332     | 2,941     | 3,066     | 3,154     | 3,781     | 4,027     | 4,663     | 4,779     | 4,890     |       |
| Air heat exchanger   |  | Type                               |          |           | Microchannel      |           |           |           |           |           |           |           |           |           |       |
| Compressor           |  | Type                               |          |           | Scroll compressor |           |           |           |           |           |           |           |           |           |       |
|                      |  | Quantity                           |          |           | 8                 | 2         | 3         |           | 4         |           | 5         |           |           |           |       |
| Fan                  |  | Type                               |          |           | Direct propeller  |           |           |           |           |           |           |           |           |           |       |
|                      |  | Quantity                           |          |           | 16                | 4         | 6         |           | 8         |           | 10        |           |           |           |       |
|                      |  | Air flow rate                      |          | Cooling   | Nom.              | l/s       | 90,040    | 22,510    | 33,765    |           | 45,020    |           | 56,275    |           |       |
| Sound power level    |  | Cooling                            | Nom.     | dBA       | 90                | 84        | 85.4      | 85.7      | 85.6      | 86.8      | 87        | 87.6      | 87.8      | 87.9      |       |
| Sound pressure level |  | Cooling                            | Nom.     | dBA       | 68.1              | 64.9      | 65.7      | 66.0      | 65.9      | 66.5      | 66.7      | 66.9      | 67.1      | 67.2      |       |
| Operation range      |  | Air side                           | Cooling  | Min.~Max. | °CDB              | -20 ~46   |           |           |           |           |           |           |           |           |       |
| Refrigerant          |  | Type                               |          |           | R-32              |           |           |           |           |           |           |           |           |           |       |
|                      |  | Charge                             |          | kg        | 90.0              | 26.0      | 30.0      | 33.0      | 37.0      | 42.0      | 47.0      | 50.0      | 54.0      | 58.0      |       |
|                      |  | Circuits                           | Quantity |           | 2                 | 1         |           | 2         |           | 2         |           | 2         |           |           |       |
| Piping connections   |  | Evaporator water inlet/outlet (OD) |          |           | 139.7             | 88.9      |           | 750       |           | 803       | 845       | 139.7     |           |           |       |
| Unit                 |  | Starting current                   | Max      | A         | 1,240             | 647       | 703       | 746       | 750       | 803       | 845       | 858       | 901       | 944       |       |
|                      |  | Running current                    | Cooling  | Nom.      | A                 | 712.9     | 178.3     | 220.3     | 265.6     | 285.1     | 309.9     | 358.4     | 356       | 400.7     | 445.7 |
|                      |  | current                            | Max      | A         | 792               | 199       | 255       | 298       | 302       | 355       | 397       | 410       | 453       | 496       |       |
| Power supply         |  | Phase/Frequency/Voltage            |          |           | Hz/V              | 3~/50/400 |           |           |           |           |           |           |           |           |       |

| Cooling Only         |    |                                    |                 | EWFT      | 720B-XRC2         |           | 760B-XRC2 |       | 830B-XRC2 |       | 880B-XRC2 |       |
|----------------------|----|------------------------------------|-----------------|-----------|-------------------|-----------|-----------|-------|-----------|-------|-----------|-------|
| SEER                 |    |                                    |                 |           | 5.159             |           | 5.121     |       | 5.293     |       | 5.181     |       |
| Cooling capacity     |    | Nom.                               |                 | kW        | 878.7             |           | 924.2     |       | 1,023     |       | 1,068     |       |
| Power input          |    | Cooling                            | Nom.            | kW        | 260.1             |           | 288.3     |       | 306.6     |       | 334.8     |       |
| Capacity control     |    | Method                             |                 |           | Step              |           |           |       |           |       |           |       |
|                      |    | Minimum capacity                   |                 | %         | 18                |           | 17        |       | 15        |       | 14        |       |
| EER                  |    |                                    |                 |           | 3.378             |           | 3.206     |       | 3.335     |       | 3.19      |       |
| IPLV                 |    |                                    |                 |           | 5.620             |           | 5.549     |       | 5.598     |       | 5.563     |       |
| Dimensions           |    | Unit                               | Height          | mm        | 2,535             |           |           |       |           |       |           |       |
|                      |    |                                    |                 |           | Width             | 2,238     |           |       |           |       |           |       |
| Depth                | mm | 6,834                              |                 |           |                   |           |           | 8,008 |           |       |           |       |
|                      |    | Weight                             |                 | Unit      | kg                | 5,139     |           | 5,250 |           | 6,062 |           | 6,174 |
|                      |    | Operation weight                   |                 | kg        | 5,568             |           | 5,679     |       | 6,535     |       | 6,647     |       |
| Air heat exchanger   |    | Type                               |                 |           | Microchannel      |           |           |       |           |       |           |       |
| Compressor           |    | Type                               |                 |           | Scroll compressor |           |           |       |           |       |           |       |
|                      |    | Quantity                           |                 |           | 6                 |           |           |       |           |       | 7         |       |
| Fan                  |    | Type                               |                 |           | Direct propeller  |           |           |       |           |       |           |       |
|                      |    | Quantity                           |                 |           | 12                |           |           |       |           |       | 14        |       |
|                      |    | Air flow rate                      | Cooling    Nom. | l/s       | 67,530            |           |           |       |           |       | 78,785    |       |
| Sound power level    |    | Cooling                            | Nom.            | dBA       | 88.6              |           | 88.7      |       | 89.3      |       | 89.4      |       |
| Sound pressure level |    | Cooling                            | Nom.            | dBA       | 67.5              |           | 67.6      |       | 67.7      |       | 67.8      |       |
| Operation range      |    | Air side                           | Cooling         | Min.~Max. | °CDB              | -20 ~46   |           |       |           |       |           |       |
| Refrigerant          |    | Type                               |                 |           | R-32              |           |           |       |           |       |           |       |
|                      |    | Charge                             |                 | kg        | 66.0              |           | 69.0      |       | 75.0      |       | 80.0      |       |
|                      |    | Circuits                           | Quantity        |           | 2                 |           |           |       |           |       |           |       |
| Piping connections   |    | Evaporator water inlet/outlet (OD) |                 |           |                   | 139.7     |           |       |           |       |           |       |
| Unit                 |    | Starting current                   |                 | Max       | A                 | 999       |           | 1,042 |           | 1,142 |           |       |
|                      |    | Running current                    | Cooling    Max  | Nom.      | A                 | 490.5     |           | 536.1 |           | 577.5 |           | 623.1 |
|                      |    |                                    |                 | A         | 551               |           | 594       |       | 694       |       |           |       |
| Power supply         |    | Phase/Frequency/Voltage            |                 |           | Hz/V              | 3~/50/400 |           |       |           |       |           |       |

Performances according to Chiller Configurator 1.4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.

# Air cooled Inverter screw free cooling with BLU efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFD TZ-D BS                                     |                                   | 275   | 320   | 345   | 400   | 470   | 510   | 525   |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Cooling Capacity (1)                             | kW                                | 369.3 | 428   | 465.2 | 559.3 | 618.4 | 686.7 | 708.2 |
| Power input (1)                                  | kW                                | 109.9 | 119   | 138   | 167.3 | 196   | 200.4 | 206.7 |
| EER (1)                                          |                                   | 3.36  | 3.6   | 3.37  | 3.34  | 3.16  | 3.43  | 3.43  |
| SEER (1)(2)                                      |                                   | 4.949 | 5.245 | 5.331 | 5.382 | 5.141 | 4.802 | 5.364 |
| η <sub>s,c</sub> (3)                             | %                                 | 195   | 207   | 210   | 212   | 203   | 189   | 212   |
| SEPR (1)(2)                                      |                                   | 5.783 | 6.064 | 5.847 | 5.756 | 5.633 | 5.859 | 5.798 |
| IPLV (5)                                         |                                   | 5.248 | 5.612 | 5.562 | 5.76  | 5.549 | 5.137 | 5.729 |
| Full Free Cooling Temperature (12)               | °C                                | 3.27  | 7.12  | 5.99  | 3.08  | 1.21  | 4.5   | 3.97  |
| Flow rate (1)                                    | l/s                               | 12.7  | 14.7  | 16    | 19.2  | 21.2  | 23.6  | 24.3  |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 15.3  | 20.4  | 23.8  | 44.3  | 53.4  | 29.8  | 38.6  |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 96    | 74.3  | 85.2  | 128   | 154   | 96.4  | 115   |
| Sound Power (1)(7)                               | Lw                                | 97    | 98    | 100   |       | 97    | 99    | 98    |
|                                                  | Lw with + OP76b                   | 95    |       | 97    |       | 96    | 98    | 97    |
| Number of circuits / Compressors                 |                                   |       |       | 1     |       |       | 2     | 1     |
| Water volume – open loop Free Cooling            | l                                 |       | 40    |       | 42.7  |       | 270   | 58.1  |
| Minimum Water flow rate (10)                     | l/s                               |       | 7.6   |       | 5.94  |       | 8.6   | 10.2  |
| Dimensions                                       | Length                            | mm    | 2,560 |       | 3,640 |       |       | 4,720 |
|                                                  | Width                             | mm    |       |       |       | 2,238 |       |       |
|                                                  | Height                            | mm    |       |       |       | 2,553 |       |       |
| Weight (8)                                       | Unit (8)                          | kg    | 2,626 | 3,136 | 3,136 | 3,581 | 4,045 | 4,154 |
|                                                  | Operating weight (8)              | kg    | 2,847 | 3,432 | 3,432 | 3,907 | 3,917 | 4,662 |
| Water Connection Size                            | Ø mm                              |       | 88.9  |       | 139.7 |       | 168.3 | 139.7 |
| Unit                                             | Running Current (1)(8)(11)        | A     | 178   | 192   | 220   | 270   | 312   | 327   |
|                                                  | Max Running Current (7)(8)(11)    | A     | 220   | 262   | 284   | 346   | 362   | 411   |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 242   | 287   | 287   | 381   | 398   | 452   |
|                                                  | Max Inrush Current (8)(9)(11)     | A     |       |       |       | 0     |       |       |

| EWFD TZ-D BS                                     |                                   | 275   | 320   | 345   | 400   | 470   | 510   |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|-------|-------|-------|
| Cooling Capacity (1)                             | kW                                | 369.3 | 428   | 465.2 | 559.3 | 618.4 | 686.7 |
| Power input (1)                                  | kW                                | 109.9 | 119   | 138   | 167.3 | 196   | 200.4 |
| EER (1)                                          |                                   | 3.36  | 3.6   | 3.37  | 3.34  | 3.16  | 3.43  |
| SEER (1)(2)                                      |                                   | 4.949 | 5.245 | 5.331 | 5.382 | 5.141 | 4.802 |
| η <sub>s,c</sub> (3)                             | %                                 | 195   | 207   | 210   | 212   | 203   | 189   |
| SEPR (1)(2)                                      |                                   | 5.783 | 6.064 | 5.847 | 5.756 | 5.633 | 5.859 |
| IPLV (5)                                         |                                   | 5.248 | 5.612 | 5.562 | 5.76  | 5.549 | 5.137 |
| Full Free Cooling Temperature (12)               | °C                                | 3.27  | 7.12  | 5.99  | 3.08  | 1.21  | 4.5   |
| Flow rate (1)                                    | l/s                               | 12.7  | 14.7  | 16    | 19.2  | 21.2  | 23.6  |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 15.3  | 20.4  | 23.8  | 44.3  | 53.4  | 29.8  |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 96    | 74.3  | 85.2  | 128   | 154   | 96.4  |
| Sound Power (1)(7)                               | Lw                                | 97    | 98    | 100   |       | 97    | 99    |
|                                                  | Lw with + OP76b                   | 95    |       | 97    |       | 96    | 98    |
| Number of circuits / Compressors                 |                                   |       |       | 1     |       |       | 2     |
| Water volume – open loop Free Cooling            | Lt                                |       | 40    |       | 42.7  |       | 270   |
| Minimum Water flow rate (10)                     | l/s                               |       | 7.6   |       | 5.94  |       | 8.6   |
| Dimensions                                       | Length                            | mm    | 2,560 |       | 3,640 |       | 4,720 |
|                                                  | Width                             | mm    |       |       |       | 2,238 |       |
|                                                  | Height                            | mm    |       |       |       | 2,553 |       |
| Weight (8)                                       | Unit (8)                          | kg    | 2,626 | 3,136 | 3,136 | 3,581 | 4,045 |
|                                                  | Operating weight (8)              | kg    | 2,847 | 3,432 | 3,432 | 3,907 | 3,917 |
| Water Connection Size                            | Ø mm                              |       | 88.9  |       | 139.7 |       | 168.3 |
| Unit                                             | Running Current (1)(8)(11)        | A     | 178   | 192   | 220   | 270   | 312   |
|                                                  | Max Running Current (7)(8)(11)    | A     | 220   | 262   | 284   | 346   | 362   |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 242   | 287   | 287   | 381   | 398   |
|                                                  | Max Inrush Current (8)(9)(11)     | A     |       |       |       | 0     |       |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η<sub>s,c</sub> is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511-2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



EWFD-TZBSD



MicroTech 4

| EWFD TZ-D BS                                     |                                   | 755     | 830     | 915     | C10     | H10     | H11     | C12     |
|--------------------------------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 1,017.5 | 1,112.2 | 1,216.3 | 1,554.9 | 1,438.6 | 1,558.6 | 1,664.1 |
| Power input (1)                                  | kW                                | 281.5   | 324.5   | 362.9   | 473.1   | 450.4   | 475.5   | 504.9   |
| EER (1)                                          |                                   | 3.61    | 3.43    | 3.35    | 3.290   | 3.190   | 3.280   | 3.300   |
| SEER (1)(2)                                      |                                   | 5.456   | 5.327   | 5.217   | 5.132   | 5.282   | 5.362   | 5.458   |
| η <sub>s,c</sub> (3)                             | %                                 | 215     | 210     | 206     | 202     | 208     | 211     | 215     |
| SEPR (1)(2)                                      |                                   | 6.05    | 5.862   | 5.92    | 5.605   | 5.674   | 5.684   | 5.713   |
| IPLV (5)                                         |                                   | 5.839   | 5.674   | 5.628   | 5.474   | 5.650   | 5.783   | 5.753   |
| Full Free Cooling Temperature (12)               | °C                                | 4.67    | 3.14    | 1.5     | -0.01   | 1.33    | 1.65    | 3.22    |
| Flow rate (1)                                    | l/s                               | 34.9    | 38.1    | 41.7    | 53.3    | 49.3    | 53.5    | 57.1    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 49.6    | 56.8    | 42.1    | 55.1    | 48.9    | 55.3    | 61.5    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 120     | 141     | 140     | 199     | 150     | 147     | 145     |
| Sound Power (1)(7)                               | Lw                                | dB(a)   | 99      | 100     | 99      | 100     | 101     | 102     |
|                                                  | Lw with + OP76b                   | dB(a)   |         | 99      |         | 100     |         | 101     |
| Number of circuits / Compressors                 |                                   |         |         |         | 2       |         |         |         |
| Water volume – open loop Free Cooling            |                                   | l       | 280     |         | 481     |         | 557     |         |
| Minimum Water flow rate (10)                     |                                   | l/s     | 12.9    |         | 15.3    |         | 18.2    |         |
| Dimensions                                       | Length                            | mm      |         | 6,880   |         | 7,960   | 9,040   | 10,120  |
|                                                  | Width                             | mm      |         |         | 2,238   |         |         |         |
|                                                  | Height                            | mm      |         |         | 2,553   |         |         |         |
| Weight (8)                                       | Unit (8)                          | kg      | 5,549   |         | 5,806   | 6,427   | 6,936   | 7,446   |
|                                                  | Operating weight (8)              | kg      | 6,341   | 6,351   | 6,819   | 6,834   | 7,606   | 8,191   |
| Water Connection Size                            | Ø mm                              |         | 168.3   |         |         | 219.1   |         |         |
| Unit                                             | Running Current (1)(8)(11)        | A       | 460     | 524     | 582     | 745     | 712     | 749     |
|                                                  | Max Running Current (7)(8)(11)    | A       | 600     | 668     | 751     | 817     | 884     | 930     |
|                                                  | Current for Wiring Sizing (8)(11) | A       | 660     | 735     | 735     | 826     | 896     | 935     |
|                                                  | Max Inrush Current (8)(9)(11)     | A       |         |         | 0       |         |         |         |
| EWFD TZ-D BS                                     |                                   | C13     | C14     | C15     | H16     | H17     | H18     | H19     |
| Cooling Capacity (1)                             | kW                                | 1,798.7 | 1,884.6 | 2,067.5 | 2,175.4 | 2,269.8 | 2,450.5 | 2,554.3 |
| Power input (1)                                  | kW                                | 555.2   | 608.0   | 657.0   | 743.2   | 743.2   | 827.9   | 956.3   |
| EER (1)                                          |                                   | 3.240   | 3.100   | 3.150   | 3.230   | 3.050   | 2.960   | 2.670   |
| SEER (1)(2)                                      |                                   | 5.392   | 5.299   | 5.339   | 5.414   | 5.336   | 5.185   | 5.225   |
| η <sub>s,c</sub> (3)                             | %                                 | 213     | 209     | 211     | 214     | 210     | 204     | 206     |
| SEPR (1)(2)                                      |                                   | 5.399   | 5.436   | 5.373   | 6.629   | 6.410   | 6.167   | 5.992   |
| IPLV (5)                                         |                                   | 5.705   | 5.579   | 5.589   | 5.971   | 5.829   | 5.779   | 5.685   |
| Full Free Cooling Temperature (12)               | °C                                | 3.66    | 2.85    | 2.9     | 1.98    | 1.25    | 1.34    | 0.53    |
| Flow rate (1)                                    | l/s                               | 61.7    | 64.6    | 70.9    | 74.6    | 77.8    | 84.0    | 87.6    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 69.4    | 74.9    | 51.2    | 55.5    | 59.3    | 66.1    | 70.8    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 148     | 160     | 137     | 150     | 161     | 166     | 179     |
| Sound Power (1)(7)                               | Lw                                | dB(a)   | 104     | 105     | 106     | 104     | 105     | 106     |
|                                                  | Lw with + OP76b                   | dB(a)   | 101     |         |         | 102     |         |         |
| Number of circuits / Compressors                 |                                   |         |         |         | 2       |         |         |         |
| Water volume – open loop Free Cooling            |                                   | Lt      | 557     |         |         | 1,011   |         |         |
| Minimum water flow rate (10)                     |                                   | l/s     | 18.2    |         |         | 22.6    |         |         |
| Dimensions                                       | Length                            | mm      | 11,200  |         | 12,280  |         | 13,360  |         |
|                                                  | Width                             | mm      |         |         | 2,238   |         |         |         |
|                                                  | Height                            | mm      |         |         | 2,553   |         |         |         |
| Weight (8)                                       | Unit (8)                          | kg      | 7,956   | 8,277   | 9,157   | 9,561   |         | 10,070  |
|                                                  | Operating weight (8)              | kg      | 9,366   | 9,697   | 11,117  | 11,535  | 11,550  | 12,140  |
| Water Connection Size                            | Ø mm                              |         | 219.1   |         |         | 273     | 12,140  | 12,150  |
| Unit                                             | Running Current (1)(8)(11)        | A       | 867     | 954     | 1,027   | 1,051   | 1,162   | 1,287   |
|                                                  | Max Running Current (7)(8)(11)    | A       | 948     | 1,120   | 1,200   | 1,227   | 1,340   | 1,475   |
|                                                  | Current for Wiring Sizing (8)(11) | A       | 958     | 1,232   | 1,275   | 1,280   | 1,474   | 1,621   |
|                                                  | Max Inrush Current (8)(9)(11)     | A       |         |         | 0       |         |         |         |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η<sub>s,c</sub> is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511-2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



# Air cooled Inverter screw free cooling with SILVER efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFD TZ-D SS                                     |                                   | 285   | 325   | 380   | 430   | 495   | 520   | 535   |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Cooling Capacity (1)                             | kW                                | 382   | 442.2 | 497.8 | 565   | 668.2 | 698.1 | 726   |
| Power input (1)                                  | kW                                | 98.8  | 115.8 | 134.6 | 156   | 185.9 | 189.7 | 198.4 |
| EER (1)                                          |                                   | 3.87  | 3.82  | 3.7   | 3.62  | 3.6   | 3.68  | 3.66  |
| SEER (1)(2)                                      |                                   | 5.263 | 5.535 | 5.711 | 5.727 | 5.422 | 5.128 | 5.459 |
| η <sub>s,c</sub> (3)                             | %                                 | 208   | 218   | 225   | 226   | 214   | 202   | 215   |
| SEPR (1)(2)                                      |                                   | 6.279 | 6.358 | 6.233 | 6.068 | 6.048 | 5.816 | 6.077 |
| IPLV (5)                                         |                                   | 5.706 | 5.873 | 5.918 | 6.074 | 5.885 | 5.419 | 6.016 |
| Full Free Cooling Temperature (12)               | °C                                | 8.55  | 10.12 | 8.82  | 7.25  | 4.91  | 7.4   | 6.88  |
| Flow rate (1)                                    | l/s                               | 13.1  | 15.2  | 17.1  | 19.4  | 22.9  | 23.9  | 24.9  |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 16.3  | 17.7  | 35.8  | 45.1  | 34.8  | 31.2  | 40.5  |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 61.5  | 53.6  | 103   | 98.4  | 104   | 84.4  | 96.1  |
| Sound Power (1)(7)                               | Lw                                | dB(a) | 98    | 98    | 100   | 98    | 97    | 99    |
|                                                  | Lw with + OP76b                   | dB(a) | 96    | 98    | 97    | 99    | 98    | 98    |
| Number of circuits / Compressors                 |                                   | 1     |       |       |       |       | 2     | 1     |
| Water volume – open loop Free Cooling            | l                                 | 40    | 48    | 42.7  | 58.1  | 270   | 58.1  | 58.1  |
| Minimum Water flow rate (10)                     | l/s                               | 7.6   | 8.5   | 5.94  | 10.2  | 8.6   | 10.2  | 10.2  |
| Dimensions                                       | Length                            | mm    | 3,640 | 4,720 | 5,800 | 5,800 | 5,800 | 5,800 |
|                                                  | Width                             | mm    | 2,238 | 2,238 | 2,238 | 2,238 | 2,238 | 2,238 |
|                                                  | Height                            | mm    | 2,553 | 2,553 | 2,553 | 2,553 | 2,553 | 2,553 |
| Weight (8)                                       | Unit (8)                          | kg    | 3,136 | 3,675 | 4,090 | 4,154 | 4,555 | 4,664 |
|                                                  | Operating weight (8)              | kg    | 3,427 | 4,045 | 4,050 | 4,487 | 4,576 | 5,237 |
| Water Connection Size                            | Ø mm                              | 88.9  | 139.7 | 168.3 | 139.7 | 168.3 | 139.7 | 139.7 |
| Unit                                             | Running Current (1)(8)(11)        | A     | 161   | 187   | 215   | 253   | 297   | 311   |
|                                                  | Max Running Current (7)(8)(11)    | A     | 231   | 272   | 294   | 357   | 372   | 421   |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 254   | 298   | 392   | 410   | 463   | 452   |
|                                                  | Max Inrush Current (8)(9)(11)     | A     | 0     | 0     | 0     | 0     | 0     | 0     |

| EWFD TZ-D SS                                     |                                   | 555   | 585   | 595   | 650   | 645   | 705   |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|-------|-------|-------|
| Cooling Capacity (1)                             | kW                                | 747.7 | 789.3 | 796.9 | 872.4 | 876.4 | 963   |
| Power input (1)                                  | kW                                | 208   | 229   | 231.2 | 270.8 | 241.3 | 288.9 |
| EER (1)                                          |                                   | 3.6   | 3.45  | 3.45  | 3.22  | 3.63  | 3.33  |
| SEER (1)(2)                                      |                                   | 5.08  | 4.983 | 5.357 | 5.32  | 5.147 | 5.032 |
| η <sub>s,c</sub> (3)                             | %                                 | 200   | 196   | 211   | 210   | 203   | 198   |
| SEPR (1)(2)                                      |                                   | 5.179 | 5.696 | 5.772 | 5.472 | 6.044 | 5.708 |
| IPLV (5)                                         |                                   | 5.361 | 5.308 | 5.826 | 5.63  | 5.508 | 5.424 |
| Full Free Cooling Temperature (12)               | °C                                | 6.49  | 5.74  | 5.6   | 4.23  | 6.78  | 5.49  |
| Flow rate (1)                                    | l/s                               | 25.6  | 27.1  | 27.3  | 29.9  | 30.1  | 33    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 34.9  | 38.1  | 48.1  | 56.8  | 34.5  | 40.3  |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 93.8  | 101   | 112   | 131   | 90.6  | 105   |
| Sound Power (1)(7)                               | Lw                                | dB(a) | 99    | 101   | 98    | 101   | 103   |
|                                                  | Lw with + OP76b                   | dB(a) | 99    | 99    | 98    | 100   | 100   |
| Number of circuits / Compressors                 |                                   | 2     | 1     | 1     | 2     | 2     | 2     |
| Water volume – open loop Free Cooling            | Lt                                | 270   | 58.1  | 58.1  | 255   | 255   | 255   |
| Minimum Water flow rate (10)                     | l/s                               | 8.6   | 10.2  | 10.2  | 10.7  | 10.7  | 10.7  |
| Dimensions                                       | Length                            | mm    | 5,800 | 5,800 | 5,800 | 5,800 | 5,800 |
|                                                  | Width                             | mm    | 2,238 | 2,238 | 2,238 | 2,238 | 2,238 |
|                                                  | Height                            | mm    | 2,553 | 2,553 | 2,553 | 2,553 | 2,553 |
| Weight (8)                                       | Unit (8)                          | kg    | 4,555 | 4,664 | 5,083 | 5,083 | 5,083 |
|                                                  | Operating weight (8)              | kg    | 5,242 | 5,247 | 5,166 | 5,176 | 5,835 |
| Water Connection Size                            | Ø mm                              | 168.3 | 139.7 | 139.7 | 168.3 | 168.3 | 168.3 |
| Unit                                             | Running Current (1)(8)(11)        | A     | 338   | 370   | 365   | 423   | 388   |
|                                                  | Max Running Current (7)(8)(11)    | A     | 450   | 481   | 467   | 474   | 523   |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 495   | 528   | 480   | 572   | 566   |
|                                                  | Max Inrush Current (8)(9)(11)     | A     | 0     | 0     | 0     | 0     | 0     |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η<sub>s,c</sub> is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511-2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



EWFD-TZSSD



MicroTech 4

| EWFD TZ-D SS                                     |                                   | 760     | 835     | 960     | C10     | H10     | H11     | H12     |
|--------------------------------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 1,006.2 | 1,119.7 | 1,280.8 | 1,356.0 | 1,402.2 | 1,554.9 | 1,712.6 |
| Power input (1)                                  | kW                                | 264.1   | 311.5   | 365.7   | 406.7   | 429.1   | 473.1   | 506.7   |
| EER (1)                                          |                                   | 3.81    | 3.6     | 3.5     | 3.330   | 3.270   | 3.290   | 3.380   |
| SEER (1)(2)                                      |                                   | 5.659   | 5.558   | 5.444   | 5.349   | 5.338   | 5.362   | 5.492   |
| ηs,c (3)                                         | %                                 | 223     | 219     | 215     | 211     | 211     | 211     | 217     |
| SEPR (1)(2)                                      |                                   | 6.322   | 6.015   | 6.062   | 5.618   | 5.613   | 5.684   | 5.764   |
| IPLV (5)                                         |                                   | 6.045   | 5.875   | 5.8     | 5.680   | 5.709   | 5.697   | 5.967   |
| Full Free Cooling Temperature (12)               | °C                                | 7       | 5.55    | 3.4     | 2.36    | 1.78    | 2.28    | 5.01    |
| Flow rate (1)                                    | l/s                               | 34.5    | 38.4    | 43.9    | 46.5    | 48.1    | 53.3    | 58.7    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 48.3    | 58.1    | 44.8    | 49.0    | 46.9    | 55.1    | 63.9    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 104     | 123     | 128     | 137     | 140     | 146     | 133     |
| Sound Power (1)(7)                               | Lw                                | 99      |         | 100     |         | 101     |         | 102     |
|                                                  | Lw with + OP76b                   |         |         | 100     |         |         |         | 101     |
| Number of circuits / Compressors                 |                                   |         |         | 2       |         |         |         |         |
| Water volume – open loop Free Cooling            | l                                 | 280     |         | 481     |         | 557     |         |         |
| Minimum Water flow rate (10)                     | l/s                               | 12.9    |         | 15.3    |         | 18.2    |         |         |
| Dimensions                                       | Length                            | mm      |         | 7,960   |         |         | 9,040   | 11,200  |
|                                                  | Width                             | mm      |         |         | 2,238   |         |         |         |
|                                                  | Height                            | mm      |         |         | 2,553   |         |         |         |
| Weight (8)                                       | Unit (8)                          | kg      | 6,059   | 6,316   | 6,316   | 6,427   | 6,936   | 7,956   |
|                                                  | Operating weight (8)              | kg      | 6,916   | 6,926   | 7,404   | 7,409   | 7,601   | 8,191   |
| Water Connection Size                            | Ø mm                              |         | 168.3   |         | 219.1   |         |         |         |
| Unit                                             | Running Current (1)(8)(11)        | A       | 434     | 505     | 586     | 647     | 680     | 745     |
|                                                  | Max Running Current (7)(8)(11)    | A       | 610     | 679     | 706     | 761     | 789     | 884     |
|                                                  | Current for Wiring Sizing (8)(11) | A       | 671     | 747     | 776     | 837     | 868     | 935     |
|                                                  | Max Inrush Current (8)(9)(11)     | A       |         |         | 0       |         |         |         |

| EWFD TZ-D SS                                     |                                   | H13     | H14     | H15     | H16     | H17     | H18     | H19     |
|--------------------------------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 1,849.0 | 1,998.9 | 2,057.0 | 2,175.4 | 2,344.7 | 2,450.5 | 2,554.3 |
| Power input (1)                                  | kW                                | 561.0   | 622.3   | 572.2   | 673.3   | 732.0   | 827.9   | 956.3   |
| EER (1)                                          |                                   | 3.300   | 3.210   | 3.600   | 3.230   | 3.200   | 2.960   | 2.670   |
| SEER (1)(2)                                      |                                   | 5.510   | 5.340   | 5.382   | 5.414   | 5.408   | 5.185   | 5.225   |
| ηs,c (3)                                         | %                                 | 217     | 211     | 212     | 214     | 213     | 204     | 206     |
| SEPR (1)(2)                                      |                                   | 5.503   | 5.524   | 6.997   | 6.629   | 6.471   | 6.167   | 5.992   |
| IPLV (5)                                         |                                   | 5.764   | 5.690   | 6.081   | 5.971   | 5.891   | 5.779   | 5.685   |
| Full Free Cooling Temperature (12)               | °C                                | 4.8     | 3.52    | 3.03    | 1.98    | 2.18    | 1.34    | 0.53    |
| Flow rate (1)                                    | l/s                               | 63.4    | 68.6    | 70.5    | 74.6    | 80.4    | 84.0    | 87.6    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 72.6    | 48.6    | 50.8    | 55.5    | 61.4    | 66.1    | 70.8    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 141     | 129     | 136     | 150     | 154     | 166     | 179     |
| Sound Power (1)(7)                               | Lw                                | 104     | 105     | 103     | 104     | 105     | 106     | 107     |
|                                                  | Lw with + OP76b                   |         |         |         | 102     |         |         |         |
| Number of circuits / Compressors                 |                                   |         |         | 2       |         |         |         |         |
| Water volume – open loop Free Cooling            | Lt                                | 557     |         |         | 1,011   |         |         |         |
| Minimum Water flow rate (10)                     | l/s                               | 18.2    |         |         | 22.6    |         |         |         |
| Dimensions                                       | Length                            | mm      |         | 12,280  |         |         | 13,360  |         |
|                                                  | Width                             | mm      |         |         | 2,238   |         |         |         |
|                                                  | Height                            | mm      |         |         | 2,553   |         |         |         |
| Weight (8)                                       | Unit (8)                          | kg      | 8,465   | 9,157   | 9,561   | 9,561   | 10,070  |         |
|                                                  | Operating weight (8)              | kg      | 9,945   | 11,107  | 11,520  | 11,535  | 12,130  | 12,140  |
| Water Connection Size                            | Ø mm                              |         | 219.1   | 273     | 273     | 273     | 273     | 273     |
| Unit                                             | Running Current (1)(8)(11)        | A       | 875     | 975     | 901     | 1,051   | 1,145   | 1,287   |
|                                                  | Max Running Current (7)(8)(11)    | A       | 1,187   | 1,156   | 1,124   | 1,227   | 1,351   | 1,475   |
|                                                  | Current for Wiring Sizing (8)(11) | A       | 1,248   | 1,271   | 1,237   | 1,280   | 1,486   | 1,621   |
|                                                  | Max Inrush Current (8)(9)(11)     | A       |         |         |         | 0       |         |         |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511-2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

# Air cooled Inverter screw free cooling with GOLD efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFD-TZXSD           |                                    |          |           | 10               | 10       | 11       | 12       | 12       | 13      | 14       |
|----------------------|------------------------------------|----------|-----------|------------------|----------|----------|----------|----------|---------|----------|
| SEER                 |                                    |          |           | 5.952            | 6.099    | 5.419    | 5.809    | 6        | 5.981   | 5.69     |
| Cooling capacity     | Nom.                               |          | kW        | 1,415.38         | 1,345.28 | 1,524.63 | 1,730.56 | 1,621.86 | 1,814.3 | 1,952.16 |
| Power input          | Cooling                            | Nom.     | kW        | 396.8            | 356.55   | 415.43   | 509.14   | 461.94   | 535.19  | 490.74   |
| Capacity control     | Method                             |          |           | Stepless         |          |          |          |          |         |          |
|                      | Minimum capacity                   |          |           | %                | 10.5     | 11.5     | 10.5     | 10       |         | 15       |
| EER                  |                                    |          |           | 3.57             | 3.77     | 3.67     | 3.4      | 3.51     | 3.39    | 3.98     |
| IPLV                 |                                    |          |           | 6.418            | 6.591    | 6.605    | 6.38     | 6.44     | 6.347   | 6.404    |
| Dimensions           | Unit                               | Height   | mm        | 2,553            |          |          |          |          |         |          |
|                      |                                    | Width    | mm        | 2,238            |          |          |          |          |         |          |
|                      |                                    | Depth    | mm        | 10,120           |          | 11,200   |          |          | 12,280  | 13,360   |
| Weight               | Unit                               |          | kg        | 7,390            |          | 8,011    |          | 8,892    |         | 10,070   |
|                      | Operation weight                   |          | kg        | 8,619            | 8,609    | 9,391    | 9,416    | 9,401    | 10,826  | 12,080   |
| Air heat exchanger   | Type                               |          |           | Microchannel     |          |          |          |          |         |          |
| Compressor           | Type                               |          |           | Screw compressor |          |          |          |          |         |          |
|                      | Quantity                           |          |           | 2                |          |          |          |          |         |          |
| Fan                  | Type                               |          |           | Direct propeller |          |          |          |          |         |          |
|                      | Quantity                           |          |           | 18               |          | 20       |          |          | 22      | 24       |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s              | 11,385   | 12,650   |          |          | 13,915  | 15,180   |
| Sound power level    | Cooling                            | Nom.     | dBA       | 102.3            | 101      | 102.9    | 107.5    | 105.2    | 106.1   | 102      |
| Sound pressure level | Cooling                            | Nom.     | dBA       | 77.5             | 76.8     | 77.6     | 78       | 77.9     | 79.1    | 78.9     |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB             | -20 ~46  |          |          |          |         |          |
| Refrigerant          | Type/GWP                           |          |           | R-134A/1,430     |          |          |          |          |         |          |
|                      | Charge                             |          |           | kg               | 145      | 135      | 155      | 180      | 165     | 200      |
|                      | Circuits                           | Quantity |           |                  | 2        |          |          |          |         |          |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |                  | 219.1    |          |          |          | 273     |          |
| Unit                 | Starting current                   |          |           | A                | 0        |          |          |          |         |          |
|                      | Running current                    | Cooling  |           | A                | 632      | 572      | 660      | 799      | 729     | 837      |
|                      |                                    |          |           | A                | 782      | 720      | 744      | 851      | 803     | 899      |
| Power supply         | Phase/Hz/V                         |          |           |                  | 3/50/400 |          |          |          |         |          |

| EWFD-TZXSD           |                                    |          |           | 15               | 16       | 17       | 295    | 345    | 380    | 440    |
|----------------------|------------------------------------|----------|-----------|------------------|----------|----------|--------|--------|--------|--------|
| SEER                 |                                    |          |           | 5.512            | 5.517    | 5.368    | 5.513  | 5.77   | 5.694  | 6.127  |
| Cooling capacity     | Nom.                               |          | kW        | 2,065.72         | 2,200.84 | 2,323.94 | 401.17 | 469.25 | 513.31 | 601.95 |
| Power input          | Cooling                            | Nom.     | kW        | 577.66           | 660.12   | 760.95   | 107.12 | 119.37 | 140.94 | 143.9  |
| Capacity control     | Method                             |          |           | Stepless         |          |          |        |        |        |        |
|                      | Minimum capacity                   |          |           | %                | 13.5     | 12.5     | 11.5   | 21.5   | 19     | 16.5   |
| EER                  |                                    |          |           | 3.58             | 3.33     | 3.05     | 3.74   | 3.93   | 3.64   | 4.18   |
| IPLV                 |                                    |          |           | 6.197            | 6.076    | 5.915    | 6.087  | 6.309  | 6.223  | 6.763  |
| Dimensions           | Unit                               | Height   | mm        | 2,553            |          |          |        |        |        |        |
|                      |                                    | Width    | mm        | 2,238            |          |          |        |        |        |        |
|                      |                                    | Depth    | mm        | 13,360           |          |          | 3,640  | 4,720  |        | 5,800  |
| Weight               | Unit                               |          | kg        | 10,070           |          |          | 3,307  | 3,846  |        | 4,720  |
|                      | Operation weight                   |          | kg        | 12,095           | 12,110   | 12,125   | 3,598  | 4,216  | 4,221  | 5,202  |
| Air heat exchanger   | Type                               |          |           | Microchannel     |          |          |        |        |        |        |
| Compressor           | Type                               |          |           | Screw compressor |          |          |        |        |        |        |
|                      | Quantity                           |          |           | 2                |          | 1        |        |        |        |        |
| Fan                  | Type                               |          |           | Direct propeller |          |          |        |        |        |        |
|                      | Quantity                           |          |           | 24               |          |          | 6      | 8      |        | 10     |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s              | 15,180   |          | 3,795  | 5,060  |        | 6,325  |
| Sound power level    | Cooling                            | Nom.     | dBA       | 102.8            | 103.7    | 104.5    | 97.5   | 98.1   | 102.6  | 95.7   |
| Sound pressure level | Cooling                            | Nom.     | dBA       | 79.7             | 80.5     | 81.4     | 79.9   | 81.8   | 82.8   | 74.6   |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB             | -20 ~46  |          |        |        |        |        |
| Refrigerant          | Type/GWP                           |          |           | R-134A/1,430     |          |          |        |        |        |        |
|                      | Charge                             |          |           | kg               | 215      | 230      | 245    | 40     | 45     | 50     |
|                      | Circuits                           | Quantity |           |                  | 2        |          |        | 1      |        |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |                  | 273      |          |        | 88.9   |        | 139.7  |
| Unit                 | Starting current                   |          |           | A                | 0        |          |        |        |        |        |
|                      | Running current                    | Cooling  |           | A                | 909      | 1,031    | 1,188  | 174    | 192    | 224    |
|                      |                                    |          |           | A                | 1,103    | 1,217    | 1,330  | 224    | 261    | 289    |
| Power supply         | Phase/Hz/V                         |          |           |                  | 3/50/400 |          |        |        |        |        |



EWFD-TZXSD



MicroTech 4

| EWFD-TZXSD           |                                    |          |           |       | 515              | 525    | 565     | 565    | 610    | 635    | 670    |        |        |       |
|----------------------|------------------------------------|----------|-----------|-------|------------------|--------|---------|--------|--------|--------|--------|--------|--------|-------|
| SEER                 |                                    |          |           |       | 5.991            | 5.812  | 5.746   | 6.002  | 5.825  | 5.971  | 5.719  |        |        |       |
| Cooling capacity     | Nom.                               |          |           |       | kW               | 696.19 | 726.87  | 780.49 | 745.59 | 816.11 | 855.97 | 887.31 |        |       |
| Power input          | Cooling                            | Nom.     |           |       |                  | kW     | 183.64  | 172.98 | 192.57 | 190.54 | 203.72 | 235.03 | 230.65 |       |
| Capacity control     | Method                             |          |           |       | Stepless         |        |         |        |        |        |        |        |        |       |
| Minimum capacity     |                                    |          |           |       | %                | 23     | 12.5    | 11.5   | 21.5   | 10.5   | 19     | 10     |        |       |
| EER                  |                                    |          |           |       |                  | 3.79   | 4.2     | 4.05   | 3.91   | 4.01   | 3.64   | 3.85   |        |       |
| IPLV                 |                                    |          |           |       |                  | 6.548  | 6.305   | 6.193  | 6.747  | 6.275  | 6.544  | 6.135  |        |       |
| Dimensions           | Unit                               | Height   |           |       |                  | mm     | 2,553   |        |        |        |        |        |        |       |
|                      |                                    |          | Width     |       |                  |        | mm      | 2,238  |        |        |        |        |        |       |
|                      |                                    |          |           | Depth |                  |        |         | mm     | 5,800  | 6,880  |        | 7,960  | 6,880  | 7,960 |
| Weight               | Unit                               |          |           |       | kg               | 4,720  | 5,254   |        | 5,315  | 5,763  | 5,315  | 5,763  |        |       |
|                      | Operation weight                   |          |           |       | kg               | 5,212  | 5,986   | 5,996  | 5,897  | 6,576  | 5,907  | 6,581  |        |       |
| Air heat exchanger   | Type                               |          |           |       | Microchannel     |        |         |        |        |        |        |        |        |       |
| Compressor           | Type                               |          |           |       | Screw compressor |        |         |        |        |        |        |        |        |       |
| Quantity             |                                    |          |           |       | 1                | 2      |         | 1      | 2      | 1      | 2      |        |        |       |
| Fan                  | Type                               |          |           |       | Direct propeller |        |         |        |        |        |        |        |        |       |
|                      | Quantity                           |          |           |       | 10               | 12     |         |        | 14     |        | 12     | 14     |        |       |
| Air flow rate        |                                    |          |           |       | Cooling          | Nom.   | l/s     |        | 6,325  | 7,590  |        | 8,855  | 7,590  | 8,855 |
| Sound power level    | Cooling                            | Nom.     |           |       |                  | dBA    | 97.5    | 100.1  | 100.3  | 100.1  | 100.6  | 104.6  | 100.9  |       |
| Sound pressure level | Cooling                            | Nom.     |           |       |                  | dBA    | 75.8    | 78.9   | 80.2   | 76.2   | 81.2   | 76.6   | 83.3   |       |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB  |                  |        | -20 ~46 |        |        |        |        |        |        |       |
| Refrigerant          | Type/GWP                           |          |           |       | R-134A/1,430     |        |         |        |        |        |        |        |        |       |
|                      | Charge                             |          |           |       | kg               | 70     |         | 80     | 75     | 85     |        | 90     |        |       |
|                      | Circuits                           | Quantity |           |       | 1                | 2      |         | 1      | 2      | 1      | 2      |        |        |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |       | 139.7            | 168.3  |         | 139.7  | 168.3  | 139.7  | 168.3  |        |        |       |
| Unit                 | Starting current                   |          |           |       | 0                |        |         |        |        |        |        |        |        |       |
|                      | Running current                    | Cooling  | A         |       |                  |        | 294     | 286    | 315    | 304    | 332    | 370    | 372    |       |
|                      |                                    |          |           |       |                  |        | 342     | 389    | 429    | 404    | 457    | 452    | 498    |       |
| Power supply         | Phase/Hz/V                         |          |           |       | 3/50/400         |        |         |        |        |        |        |        |        |       |

| EWFD-TZXSD           |                                    |          |           |       | 705              | 725    | 760     | 805     | 880      | 950      |          |        |  |  |
|----------------------|------------------------------------|----------|-----------|-------|------------------|--------|---------|---------|----------|----------|----------|--------|--|--|
| SEER                 |                                    |          |           |       | 5.379            | 5.728  | 5.305   | 5.937   | 6.09     | 5.977    |          |        |  |  |
| Cooling capacity     | Nom.                               |          |           |       | kW               | 931.88 | 961.82  | 1,005.8 | 1,092.87 | 1,196.64 | 1,293.63 |        |  |  |
| Power input          | Cooling                            | Nom.     |           |       |                  | kW     | 236.46  | 257.52  | 284.2    | 284.08   | 310.25   | 357.95 |  |  |
| Capacity control     | Method                             |          |           |       | Stepless         |        |         |         |          |          |          |        |  |  |
| Minimum capacity     |                                    |          |           |       | %                | 30     | 10      | 27.5    | 10       | 13.5     | 12.5     |        |  |  |
| EER                  |                                    |          |           |       |                  | 3.94   | 3.73    | 3.54    | 3.85     | 3.86     | 3.61     |        |  |  |
| IPLV                 |                                    |          |           |       |                  | 5.859  | 6.225   | 5.769   | 6.482    | 6.614    | 6.459    |        |  |  |
| Dimensions           | Unit                               | Height   |           |       |                  | mm     | 2,553   |         |          |          |          |        |  |  |
|                      |                                    |          | Width     |       |                  |        | mm      | 2,238   |          |          |          |        |  |  |
|                      |                                    |          |           | Depth |                  |        |         | mm      | 6,880    | 7,960    | 6,880    | 9,040  |  |  |
| Weight               | Unit                               |          |           |       | kg               | 5,984  | 5,834   | 5,984   | 6,624    | 6,881    |          |        |  |  |
|                      | Operation weight                   |          |           |       | kg               | 6,586  | 6,704   | 6,596   | 7,753    | 8,019    | 8,029    |        |  |  |
| Air heat exchanger   | Type                               |          |           |       | Microchannel     |        |         |         |          |          |          |        |  |  |
| Compressor           | Type                               |          |           |       | Screw compressor |        |         |         |          |          |          |        |  |  |
| Quantity             |                                    |          |           |       | 1                | 2      | 1       | 2       |          |          |          |        |  |  |
| Fan                  | Type                               |          |           |       | Direct propeller |        |         |         |          |          |          |        |  |  |
|                      | Quantity                           |          |           |       | 12               | 14     | 12      | 16      |          |          |          |        |  |  |
| Air flow rate        |                                    |          |           |       | Cooling          | Nom.   | l/s     |         | 7,590    | 8,855    | 7,590    | 10,120 |  |  |
| Sound power level    | Cooling                            | Nom.     |           |       |                  | dBA    | 99      | 102.3   | 99.8     | 104.6    | 98.4     | 100.3  |  |  |
| Sound pressure level | Cooling                            | Nom.     |           |       |                  | dBA    | 77.8    | 83.8    | 78.6     | 83.9     | 76.1     | 76.5   |  |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB  |                  |        | -20 ~46 |         |          |          |          |        |  |  |
| Refrigerant          | Type/GWP                           |          |           |       | R-134A/1,430     |        |         |         |          |          |          |        |  |  |
|                      | Charge                             |          |           |       | kg               | 95     | 100     | 105     | 110      | 120      | 130      |        |  |  |
|                      | Circuits                           | Quantity |           |       | 1                | 2      | 1       | 2       |          |          |          |        |  |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |       | 139.7            | 168.3  | 139.7   | 219.1   |          |          |          |        |  |  |
| Unit                 | Starting current                   |          |           |       | A                | 0      |         |         |          |          |          |        |  |  |
|                      | Running current                    | Cooling  | A         |       |                  |        | 377     | 412     | 448      | 452      | 503      | 574    |  |  |
|                      |                                    |          |           |       |                  |        | 520     | 535     | 568      | 573      | 626      | 683    |  |  |
| Power supply         | Phase/Hz/V                         |          |           |       | 3/50/400         |        |         |         |          |          |          |        |  |  |



# Air cooled Inverter screw free cooling with PLATINUM efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFD-TZPSD           |                                    |          |           |  | 10       | 10               | 11      | 12       | 12       | 13       | 14       | 15       | 285      |        |       |
|----------------------|------------------------------------|----------|-----------|--|----------|------------------|---------|----------|----------|----------|----------|----------|----------|--------|-------|
| SEER                 |                                    |          |           |  | 6.411    | 6.274            | 6.44    | 6.189    | 6.286    | 6.18     | 5.85     | 5.671    | 6.018    |        |       |
| Cooling capacity     | Nom.                               |          |           |  | kW       | 1,326.86         | 1,449.2 | 1,496.98 | 1,734.57 | 1,619.43 | 1,847.58 | 1,954.24 | 2,069.82 | 384.11 |       |
| Power input          | Cooling                            | Nom.     |           |  |          | kW               | 330.48  | 382.27   | 378.98   | 481.29   | 433.58   | 517.97   | 481.1    | 565.53 | 87.52 |
| Capacity control     | Method                             |          |           |  | Stepless |                  |         |          |          |          |          |          |          |        |       |
|                      | Minimum capacity                   |          |           |  | %        | 11.5             | 10.5    |          | 10       |          | 15       |          | 13.5     | 23     |       |
| EER                  |                                    |          |           |  |          | 4.01             | 3.79    | 3.95     | 3.6      | 3.73     | 3.57     | 4.06     | 3.66     | 4.39   |       |
| IPLV                 |                                    |          |           |  |          | 6.876            | 6.739   | 6.964    | 6.639    | 6.778    | 6.674    | 6.585    | 6.367    | 6.73   |       |
| Dimensions           | Unit                               | Height   |           |  |          | mm               | 2,553   |          |          |          |          |          |          |        |       |
|                      |                                    | Width    |           |  |          | mm               | 2,238   |          |          |          |          |          |          |        |       |
|                      |                                    | Depth    |           |  |          | mm               | 11,200  |          | 12,280   |          | 13,360   |          |          | 4,720  |       |
| Weight               | Unit                               |          |           |  | kg       | 7,900            |         | 8,521    | 8,892    | 8,521    | 9,402    | 10,070   |          | 3,846  |       |
|                      | Operation weight                   |          |           |  | kg       | 9,189            | 9,199   | 9,971    | 10,816   | 9,976    | 11,401   | 12,085   | 12,100   | 4,211  |       |
| Air heat exchanger   | Type                               |          |           |  |          | Microchannel     |         |          |          |          |          |          |          |        |       |
| Compressor           | Type                               |          |           |  |          | Screw compressor |         |          |          |          |          |          |          |        |       |
|                      | Quantity                           |          |           |  |          | 2                |         |          |          |          |          |          |          |        | 1     |
| Fan                  | Type                               |          |           |  |          | Direct propeller |         |          |          |          |          |          |          |        |       |
|                      | Quantity                           |          |           |  |          | 20               |         | 22       |          | 24       |          |          | 8        |        |       |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s      | 12,650           |         | 13,915   |          | 15,180   |          |          | 5,060    |        |       |
| Sound power level    | Cooling                            | Nom.     |           |  |          | dBA              | 101.1   | 102.4    | 103      | 107.5    | 105.2    | 106.2    | 102      | 102.8  | 97.5  |
| Sound pressure level | Cooling                            | Nom.     |           |  |          | dBA              | 76.6    | 77.3     | 77.4     | 77.9     | 77.7     | 78.9     | 79.7     | 78.2   |       |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB     | -20 ~46          |         |          |          |          |          |          |          |        |       |
| Refrigerant          | Type/GWP                           |          |           |  |          | R-134A/1,430     |         |          |          |          |          |          |          |        |       |
|                      | Charge                             |          |           |  | kg       | 140              | 150     | 160      | 180      | 165      | 190      | 205      | 220      | 40     |       |
|                      | Circuits                           | Quantity |           |  |          | 2                |         |          |          |          |          |          |          |        | 1     |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  |          | 219.1            |         |          | 273      | 219.1    | 273      |          |          | 88.9   |       |
| Unit                 | Starting current                   |          |           |  |          | A                | 0       |          |          |          |          |          |          |        |       |
|                      | Running current                    | Cooling  |           |  |          | A                | 637     | 685      | 605      | 757      | 687      | 812      | 766      | 891    | 145   |
|                      | Running current                    |          |           |  | A        | 709              | 761     | 796      | 893      | 845      | 951      | 1,039    | 1,135    | 220    |       |
| Power supply         | Phase/Hz/V                         |          |           |  |          | 3/50/400         |         |          |          |          |          |          |          |        |       |

| EWFD-TZPSD           |                                    |          |           |  | 330      | 370              | 405    | 450    | 490    | 530    | 575    | 615    | 675    |        |     |
|----------------------|------------------------------------|----------|-----------|--|----------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| SEER                 |                                    |          |           |  | 6.229    | 6.138            | 6.369  | 6.325  | 6.262  | 6.194  | 6.108  | 6.056  | 5.971  |        |     |
| Cooling capacity     | Nom.                               |          |           |  | kW       | 452.16           | 500.07 | 559.54 | 621.98 | 642    | 730.72 | 792.78 | 811.77 | 919.56 |     |
| Power input          | Cooling                            | Nom.     |           |  |          | kW               | 104.14 | 122.84 | 121.3  | 138.19 | 138.4  | 166.83 | 187.02 | 220.31 |     |
| Capacity control     | Method                             |          |           |  | Stepless |                  |        |        |        |        |        |        |        |        |     |
|                      | Minimum capacity                   |          |           |  | %        | 20               | 17.5   | 30     | 27.5   | 25     | 12.5   | 11.5   | 10.5   | 10     |     |
| EER                  |                                    |          |           |  |          | 4.34             | 4.07   | 4.61   | 4.5    | 4.64   | 4.38   | 4.24   | 4.33   | 4.17   |     |
| IPLV                 |                                    |          |           |  |          | 6.82             | 6.691  | 7.327  | 7.623  | 7.171  | 6.719  | 6.613  | 6.593  | 6.435  |     |
| Dimensions           | Unit                               | Height   |           |  |          | mm               | 2,553  |        |        |        |        |        |        |        |     |
|                      |                                    | Width    |           |  |          | mm               | 2,238  |        |        |        |        |        |        |        |     |
|                      |                                    | Depth    |           |  |          | mm               | 5,800  |        | 6,880  |        | 7,960  |        | 9,040  |        |     |
| Weight               | Unit                               |          |           |  | kg       | 4,356            |        | 5,229  | 5,315  | 5,763  |        | 6,273  |        |        |     |
|                      | Operation weight                   |          |           |  | kg       | 4,791            | 4,796  | 5,771  | 5,882  | 5,887  | 6,566  | 6,571  | 7,151  | 7,161  |     |
| Air heat exchanger   | Type                               |          |           |  |          | Microchannel     |        |        |        |        |        |        |        |        |     |
| Compressor           | Type                               |          |           |  |          | Screw compressor |        |        |        |        |        |        |        |        |     |
|                      | Quantity                           |          |           |  |          | 1                |        |        |        |        | 2      |        |        |        |     |
| Fan                  | Type                               |          |           |  |          | Direct propeller |        |        |        |        |        |        |        |        |     |
|                      | Quantity                           |          |           |  |          | 10               |        | 12     |        | 14     |        |        | 16     |        |     |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s      | 6,325            |        | 7,590  |        | 8,855  |        |        | 10,120 |        |     |
| Sound power level    | Cooling                            | Nom.     |           |  |          | dBA              | 98.1   | 100.4  | 94.7   | 96     | 97.7   | 100.2  | 100.4  | 100.7  | 101 |
| Sound pressure level | Cooling                            | Nom.     |           |  |          | dBA              | 81     | 81.9   | 74.2   | 74.5   | 74.9   | 78.6   | 79.9   | 80.9   | 83  |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB     | -20 ~46          |        |        |        |        |        |        |        |        |     |
| Refrigerant          | Type/GWP                           |          |           |  |          | R-134A/1,430     |        |        |        |        |        |        |        |        |     |
|                      | Charge                             |          |           |  | kg       | 45               | 50     | 55     | 60     | 65     | 75     | 80     | 85     | 95     |     |
|                      | Circuits                           | Quantity |           |  |          | 1                |        |        |        |        | 2      |        |        |        |     |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  |          | 88.9             |        | 139.7  |        |        | 168.3  |        |        |        |     |
| Unit                 | Starting current                   |          |           |  |          | A                | 0      |        |        |        |        |        |        |        |     |
|                      | Running current                    | Cooling  |           |  |          | A                | 169    | 197    | 201    | 226    |        | 277    | 307    | 308    | 357 |
|                      | Running current                    |          |           |  | A        | 258              | 285    | 293    | 352    | 404    | 399    | 429    | 468    | 508    |     |
| Power supply         | Phase/Hz/V                         |          |           |  |          | 3/50/400         |        |        |        |        |        |        |        |        |     |



MicroTech 4



EWFD-TZPSD

| EWFD-TZPSD           |                                    |          |           |      | 735              | 810      | 890      | 960      |        |
|----------------------|------------------------------------|----------|-----------|------|------------------|----------|----------|----------|--------|
| SEER                 |                                    |          |           |      | 6.024            | 6.262    | 6.488    | 6.363    |        |
| Cooling capacity     | Nom.                               | kW       |           |      | 998.68           | 1,105.28 | 1,177.66 | 1,275.17 |        |
| Power input          | Cooling                            | Nom.     | kW        |      |                  | 252.26   | 263.6    | 282.75   | 320.56 |
| Capacity control     | Method                             |          |           |      | Stepless         |          |          |          |        |
|                      | Minimum capacity                   |          |           |      | %                | 10       | 13.5     | 12.5     |        |
| EER                  |                                    |          |           |      | 3.96             | 4.19     | 4.16     | 3.98     |        |
| IPLV                 |                                    |          |           |      | 6.529            | 6.853    | 7.078    | 6.894    |        |
| Dimensions           | Unit                               | Height   | mm        |      | 2,553            |          |          |          |        |
|                      |                                    | Width    | mm        |      | 2,238            |          |          |          |        |
|                      |                                    | Depth    | mm        |      | 9,040            | 10,120   |          |          |        |
| Weight               | Unit                               | kg       |           |      | 6,344            | 7,134    | 7,390    |          |        |
|                      | Operation weight                   |          |           |      | kg               | 7,279    | 8,327    | 8,594    | 8,604  |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |          |          |          |        |
| Compressor           | Type                               |          |           |      | Screw compressor |          |          |          |        |
|                      | Quantity                           |          |           |      | 2                |          |          |          |        |
| Fan                  | Type                               |          |           |      | Direct propeller |          |          |          |        |
|                      | Quantity                           |          |           |      | 16               | 18       |          |          |        |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 10,120           | 11,385   |          |          |        |
| Sound power level    | Cooling                            | Nom.     | dBA       |      | 102.3            | 104.6    | 98.6     | 100.4    |        |
| Sound pressure level | Cooling                            | Nom.     | dBA       |      | 83.4             | 83.6     | 75.9     | 76.3     |        |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | -20 ~46          |          |          |          |        |
| Refrigerant          | Type/GWP                           |          |           |      | R-134A/1,430     |          |          |          |        |
|                      | Charge                             |          |           |      | kg               | 100      | 110      | 120      | 130    |
|                      | Circuits                           | Quantity |           |      | 2                |          |          |          |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 168.3            | 219.1    |          |          |        |
| Unit                 | Starting current                   |          |           |      | A                | 0        |          |          |        |
|                      | Running current                    | Cooling  | A         |      | 404              | 421      | 462      | 519      |        |
|                      |                                    |          |           |      | A                | 535      | 573      | 616      | 672    |
| Power supply         | Phase/Hz/V                         |          |           |      | 3/50/400         |          |          |          |        |

# Air cooled Inverter screw free cooling with BLU efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFH TZ-D BS                                     |                                   | 235   | 255   | 300   | 350   | 400     | 400     | 420     |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|-------|---------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 313.9 | 346   | 406.4 | 483.9 | 531.2   | 538.7   | 557.2   |
| Power input (1)                                  | kW                                | 96.1  | 116.2 | 154.3 | 142.4 | 172.9   | 144.6   | 190     |
| EER (1)                                          |                                   | 3.27  | 2.98  | 2.63  | 3.4   | 3.07    | 3.73    | 2.93    |
| SEER (1)(2)                                      |                                   | 5.059 | 4.998 | 4.723 | 5.229 | 5.089   | 4.974   | 5.053   |
| η <sub>s,c</sub> (3)                             | %                                 | 199   | 197   | 186   | 206   | 201     | 196     | 199     |
| SEPR (1)(2)                                      |                                   | 5.774 | 5.486 | 5.116 | 5.742 | 5.475   | 6.007   | 5.278   |
| IPLV (5)                                         |                                   | 5.386 | 5.251 | 4.93  | 5.67  | 5.47    | 5.334   | 5.364   |
| Full Free Cooling Temperature (12)               | °C                                | 5.8   | 4.29  | 1.46  | 5.42  | 3.96    | 7.87    | 3.08    |
| Flow rate (1)                                    | l/s                               | 10.8  | 11.9  | 13.9  | 16.6  | 18.2    | 18.5    | 19.1    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 11.3  | 13.5  | 14.8  | 33.7  | 40.3    | 28.5    | 44      |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 74.4  | 85.8  | 112   | 99.1  | 117     | 78.7    | 127     |
| Sound Power (1)(7)                               | Lw                                | 98    | 100   | 101   | 97    | 98      | 97      | 98      |
|                                                  | Lw with + OP76b                   | 93    |       | 95    | 92    | 93      | 94      | 93      |
| Number of circuits / Compressors                 |                                   |       |       | 1     |       |         | 2       | 1       |
| Water volume – open loop Free Cooling            | l                                 | 40    |       | 48    | 42.7  |         | 152     | 42.7    |
| Minimum Water flow rate (10)                     | l/s                               | 7.6   | 7.6   | 8.5   | 5.94  | 5.94    | 8.7     | 5.94    |
| Dimensions                                       | Length                            | mm    |       | 2,560 |       | 3,640   |         | 4,720   |
|                                                  | Width                             | mm    |       | 2,238 |       | 2,238   |         |         |
|                                                  | Height                            | mm    |       | 2,553 |       | 2,553   |         |         |
| Weight (8)                                       | Unit (8)                          | kg    | 2,626 | 2,626 | 2,656 | 3,581   | 3,874   | 3,581   |
|                                                  | Operating weight (8)              | kg    | 2,882 | 2,887 | 2,938 | 3,927.7 | 3,932.7 | 3,932.7 |
| Water Connection Size                            | Ø mm                              | 88.9  |       | 139.7 |       | 139.7   |         |         |
| Unit                                             | Running Current (1)(8)(11)        | A     | 157   | 187   | 244   | 233     | 278     | 238     |
|                                                  | Max Running Current (7)(8)(11)    | A     | 204   | 227   | 268   | 291     | 334     | 334     |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 224   | 249   | 275   | 320     | 367     | 368     |
|                                                  | Max Inrush Current (8)(9)(11)     | A     | 0     |       |       |         |         |         |

| EWFH TZ-D BS                                     |                                   | 425   | 455   | 485     | 505   | 545     | 545     |
|--------------------------------------------------|-----------------------------------|-------|-------|---------|-------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 566.5 | 594.2 | 663.9   | 651.8 | 717.4   | 747.2   |
| Power input (1)                                  | kW                                | 158.4 | 218.7 | 195.8   | 242.4 | 250.2   | 238.9   |
| EER (1)                                          |                                   | 3.58  | 2.72  | 3.39    | 2.69  | 2.87    | 3.13    |
| SEER (1)(2)                                      |                                   | 4.912 | 4.925 | 4.875   | 4.875 | 5.148   | 4.819   |
| η <sub>s,c</sub> (3)                             | %                                 | 193   | 194   | 192     | 192   | 203     | 190     |
| SEPR (1)(2)                                      |                                   | 5.912 | 5.019 | 5.767   | 4.875 | 5.047   | 5.545   |
| IPLV (5)                                         |                                   | 5.262 | 4.994 | 5.224   | 5.082 | 5.233   | 5.172   |
| Full Free Cooling Temperature (12)               | °C                                | 7.21  | 1.94  | 4.99    | 0.25  | 3.75    | 3       |
| Flow rate (1)                                    | l/s                               | 19.4  | 20.4  | 22.8    | 22.4  | 24.6    | 25.6    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 31    | 49.5  | 35.1    | 32.9  | 39.8    | 35.7    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 85.5  | 143   | 98.2    | 143   | 118     | 113     |
| Sound Power (1)(7)                               | Lw                                | 100   |       | 101     | 102   | 103     | 103     |
|                                                  | Lw with + OP76b                   | 95    | 93    | 96      | 94    | 95      | 96      |
| Number of circuits / Compressors                 |                                   | 2     | 1     | 2       | 1     |         | 2       |
| Water volume – open loop Free Cooling            | Lt                                | 152   | 42.7  | 255     | 58.1  | 58.1    | 232     |
| Minimum Water flow rate (10)                     | l/s                               | 8.7   | 5.94  | 8.6     | 10.2  | 10.2    | 10.7    |
| Dimensions                                       | Length                            | mm    |       | 4,720   |       | 4,720   |         |
|                                                  | Width                             | mm    |       | 2,238   |       | 2,238   |         |
|                                                  | Height                            | mm    |       | 2,553   |       | 2,553   |         |
| Weight (8)                                       | Unit (8)                          | kg    | 3,874 | 3,581   | 4,064 | 3,966   | 4,475   |
|                                                  | Operating weight (8)              | kg    | 4,515 | 3,937.7 | 4,915 | 4,364.1 | 4,943.1 |
| Water Connection Size                            | Ø mm                              | 139.7 |       | 168.3   |       | 139.7   |         |
| Unit                                             | Running Current (1)(8)(11)        | A     | 258   | 346     | 320   | 381     | 393     |
|                                                  | Max Running Current (7)(8)(11)    | A     | 358   | 396     | 406   | 435     | 463     |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 394   | 436     | 447   | 457     | 468     |
|                                                  | Max Inrush Current (8)(9)(11)     | A     | 0     |         |       |         |         |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η<sub>s,c</sub> is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



EWFH-TZBSD



MicroTech 4

| EWFH TZ-D BS                                     |                                   |      | 590             | 635   | 745   | 785   | 845   | 900     | 985     |         |
|--------------------------------------------------|-----------------------------------|------|-----------------|-------|-------|-------|-------|---------|---------|---------|
| Cooling Capacity (1)                             |                                   |      | kW              | 787.5 | 861.2 | 998.9 | 1,051 | 1,136.3 | 1,213.7 | 1,324.7 |
| Power input (1)                                  |                                   |      | kW              | 248.7 | 289.1 | 287.6 | 320.6 | 361.1   | 377.9   | 443.3   |
| EER (1)                                          |                                   |      |                 | 3.17  | 2.98  | 3.47  | 3.28  | 3.15    | 3.21    | 2.99    |
| SEER (1)(2)                                      |                                   |      |                 | 4.948 | 4.899 | 5.268 | 5.165 | 5.139   | 5.268   | 5.129   |
| ηs,c (3)                                         |                                   |      | %               | 195   | 193   | 208   | 204   | 203     | 208     | 202     |
| SEPR (1)(2)                                      |                                   |      |                 | 5.432 | 5.436 | 5.834 | 5.618 | 5.506   | 5.536   | 5.21    |
| IPLV (5)                                         |                                   |      |                 | 5.275 | 5.242 | 5.594 | 5.496 | 5.443   | 5.506   | 5.399   |
| Full Free Cooling Temperature (12)               |                                   |      | °C              | 5.78  | 4.4   | 4.94  | 4.09  | 2.74    | 4.32    | 2.78    |
| Flow rate (1)                                    |                                   |      | l/s             | 27    | 29.5  | 34.3  | 36    | 39      | 41.6    | 45.4    |
| Evaporator Pressure Drop free cooling OFF (1)(6) |                                   |      | kPa             | 47.5  | 44.8  | 47.4  | 51.6  | 58      | 64.9    | 59.5    |
| Unit pressure drop free cooling ON (12)(6)       |                                   |      | kPa             | 110   | 116   |       | 127   | 137     | 130     | 142     |
| Sound Power (1)(7)                               |                                   |      | Lw              | 104   | 105   | 100   |       | 101     |         | 103     |
|                                                  |                                   |      | Lw with + OP76b | 97    | 98    | 95    |       | 96      |         | 97      |
| Number of circuits / Compressors                 |                                   |      |                 | 2     |       |       |       |         |         |         |
| Water volume – open loop Free Cooling            |                                   |      | l               | 255   | 232   | 280   |       | 492     | 492     | 583     |
| Minimum Water flow rate (10)                     |                                   |      | l/s             | 8.6   | 10.7  | 12.9  |       | 12.3    | 12.3    | 14.6    |
| Dimensions                                       | Length                            | mm   | 5,800           |       |       | 6,880 |       |         | 7,960   |         |
|                                                  | Width                             | mm   |                 |       |       | 2,238 |       |         |         |         |
|                                                  | Height                            | mm   |                 |       |       | 2,553 |       |         |         |         |
| Weight (8)                                       | Unit (8)                          | kg   | 4,573           | 4,603 | 5,549 |       | 5,793 | 6,303   | 6,392   |         |
|                                                  | Operating weight (8)              | kg   | 5,505           | 5,494 | 6,616 | 6,626 | 7,299 | 7,884   | 8,165   |         |
| Water Connection Size                            |                                   | Ø mm | 168.3           |       |       |       |       | 219.1   |         |         |
| Unit                                             | Running Current (1)(8)(11)        | A    | 399             | 472   | 469   | 519   | 579   | 604     | 701     |         |
|                                                  | Max Running Current (7)(8)(11)    | A    | 494             | 895   | 581   | 624   | 667   | 719     | 801     |         |
|                                                  | Current for Wiring Sizing (8)(11) | A    | 535             | 901   | 639   | 686   | 733   | 791     | 880     |         |
|                                                  | Max Inrush Current (8)(9)(11)     | A    | 0               |       |       |       |       |         |         |         |

| EWFH TZ-D BS                                     |                                   |      | C11             | H11     | C13     | H13     | H14     | C15     | H15     |         |
|--------------------------------------------------|-----------------------------------|------|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Cooling Capacity (1)                             |                                   |      | kW              | 1,479.5 | 1,571.8 | 1,724.5 | 1,815.6 | 1,944.9 | 1,996.8 | 2,083.0 |
| Power input (1)                                  |                                   |      | kW              | 487.5   | 542.9   | 527.7   | 603.8   | 659.1   | 724.8   | 758.8   |
| EER (1)                                          |                                   |      |                 | 3.040   | 2.890   | 3.270   | 3.010   | 2.950   | 2.760   | 2.740   |
| SEER (1)(2)                                      |                                   |      |                 | 5.106   | 4.996   | 5.425   | 5.348   | 5.365   | 5.278   | 5.295   |
| ηs,c (3)                                         |                                   |      | %               | 201     | 197     | 214     | 211     | 212     | 208     | 209     |
| SEPR (1)(2)                                      |                                   |      |                 | 5.17    | 5.051   | 6.572   | 6.304   | 6.249   | 6.097   | 6.134   |
| IPLV (5)                                         |                                   |      |                 | 5.392   | 5.238   | 5.966   | 5.902   | 5.812   | 5.741   | 5.748   |
| Full Free Cooling Temperature (12)               |                                   |      | °C              | 3.18    | 2.15    | 2.56    | 1.67    | 2.28    | 1.8     | 2.79    |
| Flow rate (1)                                    |                                   |      | l/s             | 50.7    | 53.9    | 59.1    | 62.3    | 66.7    | 68.5    | 71.4    |
| Evaporator Pressure Drop free cooling OFF (1)(6) |                                   |      | kPa             | 45.2    | 49.4    | 38.7    | 41.9    | 46.8    | 48.3    | 52.9    |
| Unit pressure drop free cooling ON (12)(6)       |                                   |      | kPa             | 128     | 142     | 130     | 141     | 139     | 146     | 140     |
| Sound Power (1)(7)                               |                                   |      | Lw              | 105     | 107     | 104     | 105     | 106     | 107     |         |
|                                                  |                                   |      | Lw with + OP76b | 98      |         |         |         | 99      |         |         |
| Number of circuits / Compressors                 |                                   |      |                 | 2       |         |         |         |         |         |         |
| Water volume – open loop Free Cooling            |                                   |      | l               | 1,043   |         | 1,011   |         |         |         |         |
| Minimum Water flow rate (10)                     |                                   |      | l/s             | 18.1    |         | 22.6    |         |         |         |         |
| Dimensions                                       | Length                            | mm   | 9,040           |         |         | 10,120  |         | 11,200  |         | 12,280  |
|                                                  | Width                             | mm   |                 |         |         | 2,238   |         |         |         |         |
|                                                  | Height                            | mm   |                 |         |         | 2,553   |         |         |         |         |
| Weight (8)                                       | Unit (8)                          | kg   | 7,587           |         |         | 8,542   |         | 9,051   |         | 9,561   |
|                                                  | Operating weight (8)              | kg   | 10,366          | 10,376  | 11,347  |         | 11,946  | 11,956  | 12,536  |         |
| Water Connection Size                            |                                   | Ø mm | 273             |         |         |         |         |         |         |         |
| Unit                                             | Running Current (1)(8)(11)        | A    | 767             | 849     | 835     | 948     | 1,030   | 1,135   | 1,185   |         |
|                                                  | Max Running Current (7)(8)(11)    | A    | 889             | 927     | 1,015   | 1,106   | 1,218   | 1,330   | 1,400   |         |
|                                                  | Current for Wiring Sizing (8)(11) | A    | 935             | 935     | 1,116   | 1,210   | 1,340   | 1,463   | 1,540   |         |
|                                                  | Max Inrush Current (8)(9)(11)     | A    | 0               |         |         |         |         |         |         |         |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η<sub>s,c</sub> is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



# Air cooled Inverter screw free cooling with SILVER efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFH TZ-D SS                                     |                                   | 240   | 265   | 295   | 370   | 400     | 415   | 450     |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|-------|---------|-------|---------|
| Cooling Capacity (1)                             | kW                                | 322.7 | 352.6 | 403.9 | 493.5 | 539.1   | 555.6 | 599.4   |
| Power input (1)                                  | kW                                | 87.7  | 102.1 | 121.9 | 133.5 | 141.8   | 164.8 | 177.8   |
| EER (1)                                          |                                   | 3.68  | 3.45  | 3.32  | 3.7   | 3.8     | 3.37  | 3.37    |
| SEER (1)(2)                                      |                                   | 5.37  | 5.267 | 5.211 | 5.412 | 5.195   | 5.299 | 5.284   |
| η <sub>s,c</sub> (3)                             | %                                 | 212   | 208   | 205   | 213   | 205     | 209   | 208     |
| SEPR (1)(2)                                      |                                   | 6.171 | 5.977 | 5.813 | 6.055 | 4.695   | 5.451 | 5.621   |
| IPLV (5)                                         |                                   | 5.695 | 5.62  | 5.412 | 5.962 | 5.56    | 5.678 | 5.767   |
| Full Free Cooling Temperature (12)               | °C                                | 10.35 | 9.44  | 7.85  | 8.91  | 10.36   | 7.47  | 6.47    |
| Flow rate (1)                                    | l/s                               | 11.1  | 12.1  | 13.9  | 16.9  | 18.5    | 19.1  | 20.6    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 11.9  | 14.1  | 14.6  | 35.1  | 28.7    | 43.4  | 28.1    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 46.3  | 53.8  | 64.1  | 78.3  | 64.1    | 95.8  | 86.4    |
| Sound Power (1)(7)                               | Lw                                | dB(a) | 98    | 100   | 102   | 97      | 98    |         |
|                                                  | Lw with + OP76b                   | dB(a) | 94    | 94    | 95    | 93      | 95    | 94      |
| Number of circuits / Compressors                 |                                   |       | 1     |       |       | 2       |       | 1       |
| Water volume – open loop Free Cooling            | l                                 | 40    | 40    | 48    | 42.7  | 152     | 42.7  | 58.1    |
| Minimum Water flow rate (10)                     | l/s                               | 7.6   | 7.6   | 8.5   | 5.94  | 8.7     | 5.94  | 10.2    |
| Dimensions                                       | Length                            | mm    | 3,640 |       |       | 4,720   | 5,800 | 4,720   |
|                                                  | Width                             | mm    |       |       |       | 2,238   |       |         |
|                                                  | Height                            | mm    |       |       |       | 2,553   |       |         |
| Weight (8)                                       | Unit (8)                          | kg    | 3,136 | 3,136 | 3,166 | 4,090   | 4,384 | 4,154   |
|                                                  | Operating weight (8)              | kg    | 3,462 | 3,462 | 3,513 | 4,502.7 | 5,085 | 4,507.7 |
| Water Connection Size                            | Ø mm                              |       | 88.9  |       |       | 139.7   |       |         |
| Unit                                             | Running Current (1)(8)(11)        | A     | 145   | 166   | 196   | 219     | 234   | 266     |
|                                                  | Max Running Current (7)(8)(11)    | A     | 214   | 237   | 259   | 302     | 345   | 344     |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 235   | 261   | 285   | 332     | 379   | 379     |
|                                                  | Max Inrush Current (8)(9)(11)     | A     | 0     |       |       |         |       |         |

| EWFH TZ-D SS                                     |                                   | 470   | 490   | 535     | 540   | 595     | 630   |
|--------------------------------------------------|-----------------------------------|-------|-------|---------|-------|---------|-------|
| Cooling Capacity (1)                             | kW                                | 629.2 | 650.1 | 681.2   | 717.6 | 803.4   | 850.3 |
| Power input (1)                                  | kW                                | 175.5 | 206   | 194.5   | 227.4 | 231.9   | 252.2 |
| EER (1)                                          |                                   | 3.59  | 3.16  | 3.5     | 3.16  | 3.46    | 3.37  |
| SEER (1)(2)                                      |                                   | 5.058 | 5.208 | 5.097   | 5.441 | 5.15    | 5.072 |
| η <sub>s,c</sub> (3)                             | %                                 | 199   | 205   | 201     | 215   | 203     | 200   |
| SEPR (1)(2)                                      |                                   | 5.92  | 5.389 | 5.871   | 5.303 | 3.933   | 5.644 |
| IPLV (5)                                         |                                   | 5.39  | 5.594 | 5.423   | 5.459 | 5.509   | 5.431 |
| Full Free Cooling Temperature (12)               | °C                                | 8.69  | 5.31  | 7.71    | 7.04  | 7.92    | 7.2   |
| Flow rate (1)                                    | l/s                               | 21.6  | 22.3  | 23.4    | 24.6  | 27.6    | 29.2  |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 37.4  | 32.8  | 36.4    | 39.3  | 39.6    | 43.5  |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 82.8  | 98.6  | 88.6    | 93.9  | 88.7    | 97.1  |
| Sound Power (1)(7)                               | Lw                                | dB(a) | 101   |         | 102   | 104     | 105   |
|                                                  | Lw with + OP76b                   | dB(a) | 96    | 94      | 97    | 95      | 98    |
| Number of circuits / Compressors                 |                                   | 2     | 1     | 2       | 1     | 2       |       |
| Water volume – open loop Free Cooling            | l                                 | 152   | 58.1  | 255     | 58.1  | 232     | 232   |
| Minimum Water flow rate (10)                     | l/s                               | 8.7   | 10.2  | 8.6     | 10.2  | 10.7    | 10.7  |
| Dimensions                                       | Length                            | mm    | 5,800 | 4,720   | 5,800 | 6,880   |       |
|                                                  | Width                             | mm    |       |         |       | 2,238   |       |
|                                                  | Height                            | mm    |       |         |       | 2,553   |       |
| Weight (8)                                       | Unit (8)                          | kg    | 4,384 | 4,154   | 4,573 | 4,985   | 5,113 |
|                                                  | Operating weight (8)              | kg    | 5,095 | 4,612.1 | 5,495 | 5,518.1 | 6,064 |
| Water Connection Size                            | Ø mm                              |       | 139.7 |         |       | 168.3   | 168.3 |
| Unit                                             | Running Current (1)(8)(11)        | A     | 290   | 327     | 318   | 359     | 374   |
|                                                  | Max Running Current (7)(8)(11)    | A     | 405   | 406     | 428   | 455     | 495   |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 445   | 447     | 471   | 480     | 544   |
|                                                  | Max Inrush Current (8)(9)(11)     | A     | 0     |         |       |         |       |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η<sub>s,c</sub> is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511-2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



EWFH-TZSSD



MicroTech 4

| EWFH TZ-D SS                                     |                                   | 690   | 740   | 795   | 855     | 910     | 980     | C10     |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|---------|---------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 941.1 | 995.8 | 1,069 | 1,144.7 | 1,219.8 | 1,331.5 | 1,404.6 |
| Power input (1)                                  | kW                                | 261.8 | 284.4 | 310.2 | 341.5   | 360.9   | 401.6   | 417.8   |
| EER (1)                                          |                                   | 3.6   | 3.5   | 3.45  | 3.35    | 3.38    | 3.32    | 3.360   |
| SEER (1)(2)                                      |                                   | 5.348 | 5.253 | 5.277 | 5.348   | 5.38    | 5.381   | 5.392   |
| η <sub>s,c</sub> (3)                             | %                                 | 211   | 207   | 208   | 211     | 212     | 212     | 213     |
| SEPR (1)(2)                                      |                                   | 5.917 | 5.831 | 5.813 | 5.67    | 5.643   | 5.437   | 3.898   |
| IPLV (5)                                         |                                   | 5.69  | 5.6   | 5.662 | 5.622   | 5.657   | 5.622   | 5.638   |
| Full Free Cooling Temperature (12)               | °C                                | 5.8   | 4.99  | 6.19  | 5.23    | 6.18    | 6.63    | 7.32    |
| Flow rate (1)                                    | l/s                               | 32.3  | 34.2  | 36.7  | 39.3    | 41.8    | 45.7    | 48.2    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 43    | 47.3  | 53.6  | 56.8    | 62.7    | 77.7    | 64.4    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 106   | 115   | 114   | 124     | 122     | 130     | 118     |
| Sound Power (1)(7)                               | Lw                                | dB(a) | 99    | 100   | 101     | 102     | 103     | 104     |
|                                                  | Lw with + OP76b                   | dB(a) | 95    |       | 96      |         | 97      | 98      |
| Number of circuits / Compressors                 |                                   |       |       |       | 2       |         |         |         |
| Water volume – open loop Free Cooling            | l                                 | 280   | 280   | 280   | 492     | 492     | 492     | 583     |
| Minimum Water flow rate (10)                     | l/s                               | 12.9  | 12.9  | 12.9  | 12.3    | 12.3    | 12.3    | 14.6    |
| Dimensions                                       | Length                            | mm    | 6,880 | 6,880 | 7,960   | 7,960   | 9,040   | 11,200  |
|                                                  | Width                             | mm    | 2,238 | 2,238 | 2,238   | 2,238   | 2,238   | 2,238   |
|                                                  | Height                            | mm    | 2,553 | 2,553 | 2,553   | 2,553   | 2,553   | 2,553   |
| Weight (8)                                       | Unit (8)                          | kg    | 5,549 | 5,549 | 6,059   | 6,303   | 6,812   | 7,322   |
|                                                  | Operating weight (8)              | kg    | 6,611 | 6,616 | 7,201   | 7,879   | 8,459   | 9,044   |
|                                                  |                                   |       |       |       |         |         |         | 9,899   |
| Water Connection Size                            | Ø mm                              |       | 168.3 |       |         |         | 219.1   |         |
| Unit                                             | Running Current (1)(8)(11)        | A     | 431   | 465   | 503     | 550     | 579     | 639     |
|                                                  | Max Running Current (7)(8)(11)    | A     | 538   | 581   | 634     | 677     | 729     | 802     |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 592   | 639   | 698     | 745     | 802     | 882     |
|                                                  | Max Inrush Current (8)(9)(11)     | A     |       |       |         | 0       |         |         |

| EWFH TZ-D SS                                     |                                   | C11     | C12     | H12     | H13     | C14     | C15     | H15     |
|--------------------------------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 1,500.1 | 1,650.7 | 1,760.0 | 1,860.7 | 1,974.1 | 2,038.4 | 2,148.5 |
| Power input (1)                                  | kW                                | 448.7   | 524.5   | 508.1   | 582.6   | 634.8   | 649.6   | 772.0   |
| EER (1)                                          |                                   | 3.340   | 3.150   | 3.460   | 3.190   | 3.110   | 3.140   | 2.780   |
| SEER (1)(2)                                      |                                   | 5.353   | 5.19    | 5.529   | 5.447   | 5.523   | 5.559   | 5.47    |
| η <sub>s,c</sub> (3)                             | %                                 | 211     | 205     | 218     | 215     | 218     | 219     | 216     |
| SEPR (1)(2)                                      |                                   | 5.5     | 5.066   | 6.752   | 6.444   | 6.392   | 6.385   | 6.239   |
| IPLV (5)                                         |                                   | 5.592   | 5.422   | 6.121   | 5.964   | 6.063   | 6.076   | 5.970   |
| Full Free Cooling Temperature (12)               | °C                                | 6.39    | 5.05    | 4.05    | 3.09    | 3.75    | 4.6     | 3.86    |
| Flow rate (1)                                    | l/s                               | 51.4    | 56.6    | 60.4    | 63.8    | 67.7    | 69.9    | 73.7    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 45.4    | 53.4    | 39.8    | 43.5    | 47.7    | 50.2    | 53.5    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 104     | 119     | 117     | 129     | 128     | 121     | 133     |
| Sound Power (1)(7)                               | Lw                                | dB(a)   | 105     | 107     | 104     | 105     | 106     | 107     |
|                                                  | Lw with + OP76b                   | dB(a)   | 98      | 99      | 98      | 98      | 99      | 100     |
| Number of circuits / Compressors                 |                                   |         |         |         | 2       |         |         |         |
| Water volume – open loop Free Cooling            | l                                 | 1,043   |         |         |         | 1,011   |         |         |
| Minimum Water flow rate (10)                     | l/s                               | 18.1    | 18.1    | 22.6    | 22.6    | 22.6    | 22.6    | 22.6    |
| Dimensions                                       | Length                            | mm      |         | 11,200  |         | 12,280  |         | 13,360  |
|                                                  | Width                             | mm      |         |         | 2,238   |         |         |         |
|                                                  | Height                            | mm      |         |         | 2,553   |         |         |         |
| Weight (8)                                       | Unit (8)                          | kg      | 8,606   |         | 9,051   | 9,561   |         | 10,070  |
|                                                  | Operating weight (8)              | kg      | 11,515  | 11,530  | 11,926  | 11,936  | 12,521  | 13,106  |
|                                                  |                                   |         |         |         |         |         |         | 13,116  |
| Water Connection Size                            | Ø mm                              |         |         |         | 273     |         |         |         |
| Unit                                             | Running Current (1)(8)(11)        | A       | 709     | 821     | 806     | 916     | 994     | 1,023   |
|                                                  | Max Running Current (7)(8)(11)    | A       | 891     | 948     | 1,025   | 1,117   | 1,228   | 1,351   |
|                                                  | Current for Wiring Sizing (8)(11) | A       | 958     |         | 1,128   | 1,222   | 1,351   | 1,486   |
|                                                  | Max Inrush Current (8)(9)(11)     | A       |         |         |         | 0       |         |         |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η<sub>s,c</sub> is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

# Air cooled Inverter screw free cooling with GOLD efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFH TZ-D XS                                     |                                   | 220   | 230   | 275   | 300   | 350   | 400     |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|-------|-------|---------|
| Cooling Capacity (1)                             | kW                                | 294.3 | 316.3 | 373.8 | 409.1 | 472.7 | 537.6   |
| Power input (1)                                  | kW                                | 83    | 94.9  | 98.3  | 116.8 | 118.6 | 150.7   |
| EER (1)                                          |                                   | 3.55  | 3.33  | 3.8   | 3.5   | 3.99  | 3.57    |
| SEER (1)(2)                                      |                                   | 5.493 | 5.444 | 5.544 | 5.609 | 6.003 | 5.967   |
| $\eta_{s,c}$ (3)                                 | %                                 | 217   | 215   | 219   | 221   | 237   | 23      |
| SEPR (1)(2)                                      |                                   | 6.902 | 6.732 | 6.519 | 6.537 | 7.31  | 6.658   |
| IPLV (5)                                         |                                   | 6.046 | 6.019 | 6.119 | 6.101 | 6.701 | 6.28    |
| Full Free Cooling Temperature (12)               | °C                                | 6.66  | 5.66  | 8.78  | 7.69  | 9.4   | 7.84    |
| Flow rate (1)                                    | l/s                               | 10.1  | 10.9  | 12.8  | 14    | 16.2  | 18.4    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 10.1  | 11.4  | 12.8  | 15    | 32.3  | 41      |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 67.4  | 75.2  | 56.3  | 65.4  | 72.8  | 90.5    |
| Sound Power (1)(7)                               | Lw                                | dB(a) | 97    | 97    | 100   | 101   | 97      |
|                                                  | Lw with + OP76b                   | dB(a) | 90    | 91    | 93    |       | 91      |
| Number of circuits / Compressors                 |                                   |       |       |       | 1     |       |         |
| Water volume – open loop Free Cooling            | l                                 |       | 40    |       | 48    |       | 42.7    |
| Minimum Water flow rate (10)                     | l/s                               |       | 7.6   |       | 8.5   |       | 5.94    |
| Dimensions                                       | Length                            | mm    | 2,560 |       | 3,640 |       | 4,720   |
|                                                  | Width                             | mm    |       |       | 2,238 |       |         |
|                                                  | Height                            | mm    |       |       | 2,553 |       |         |
| Weight (8)                                       | Unit (8)                          | kg    | 2,797 | 2,797 | 3,337 | 3,337 | 4,146   |
|                                                  | Operating weight (8)              | kg    | 3,054 | 3,054 | 3,679 | 3,684 | 4,552.7 |
| Water Connection Size                            | Ø mm                              |       |       | 88.9  |       |       | 139.7   |
| Unit                                             | Running Current (1)(8)(11)        | A     | 135   | 153   | 161   | 188   | 245     |
|                                                  | Max Running Current (7)(8)(11)    | A     | 172   | 183   | 214   | 236   | 269     |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 190   | 201   | 235   | 259   | 296     |
|                                                  | Max Inrush Current (8)(9)(11)     | A     |       |       | 0     |       |         |

| EWFH TZ-D XS                                     |                                   | 470   | 465     | 515   | 540     | 545     | 600   |
|--------------------------------------------------|-----------------------------------|-------|---------|-------|---------|---------|-------|
| Cooling Capacity (1)                             | kW                                | 627.1 | 639.3   | 680.6 | 712.1   | 745.7   | 817.3 |
| Power input (1)                                  | kW                                | 172.2 | 157.4   | 195.9 | 182.4   | 183.2   | 220.5 |
| EER (1)                                          |                                   | 3.64  | 4.06    | 3.47  | 3.9     | 4.07    | 3.71  |
| SEER (1)(2)                                      |                                   | 6.11  | 5.8     | 5.704 | 5.444   | 5.912   | 5.831 |
| $\eta_{s,c}$ (3)                                 | %                                 | 241   | 229     | 225   | 215     | 233     | 230   |
| SEPR (1)(2)                                      |                                   | 6.762 | 6.624   | 6.428 | 7.322   | 5.413   | 6.739 |
| IPLV (5)                                         |                                   | 6.571 | 6.277   | 6.45  | 6.125   | 6.389   | 6.3   |
| Full Free Cooling Temperature (12)               | °C                                | 8.73  | 10.48   | 7.73  | 7.15    | 8.82    | 7.71  |
| Flow rate (1)                                    | l/s                               | 21.5  | 21.9    | 23.3  | 24.4    | 25.6    | 28    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 30.5  | 38.4    | 35.8  | 23.4    | 35.3    | 31.1  |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 74.9  | 73.1    | 86    | 77.2    | 78.7    | 81.2  |
| Sound Power (1)(7)                               | Lw                                | dB(a) | 105     | 101   | 102     | 99      | 101   |
|                                                  | Lw with + OP76b                   | dB(a) | 92      | 95    | 93      | 92      | 95    |
| Number of circuits / Compressors                 |                                   | 1     | 2       |       | 1       |         | 2     |
| Water volume – open loop Free Cooling            | l                                 | 58.1  | 152     | 58.1  | 76.3    | 232     | 289   |
| Minimum Water flow rate (10)                     | l/s                               | 10.2  | 8.7     | 10.2  | 13.4    | 10.7    | 13    |
| Dimensions                                       | Length                            | mm    | 5,800   | 6,880 | 5,800   |         | 6,880 |
|                                                  | Width                             | mm    |         |       | 2,238   |         |       |
|                                                  | Height                            | mm    |         |       | 2,553   |         |       |
| Weight (8)                                       | Unit (8)                          | kg    | 4,720   | 5,065 | 4,720   | 5,474   | 5,336 |
|                                                  | Operating weight (8)              | kg    | 5,243.1 | 5,841 | 5,248.1 | 6,043.3 | 6,230 |
| Water Connection Size                            | Ø mm                              |       |         | 139.7 |         |         | 168.3 |
| Unit                                             | Running Current (1)(8)(11)        | A     | 277     | 257   | 312     | 296     | 295   |
|                                                  | Max Running Current (7)(8)(11)    | A     | 357     | 364   | 394     | 414     | 406   |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 393     | 401   | 434     | 456     | 442   |
|                                                  | Max Inrush Current (8)(9)(11)     | A     |         |       | 0       |         |       |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency  $\eta_{s,c}$  is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply.  $\pm 10\%$  tolerance on Voltage, Voltage unbalance between phases must be within  $\pm 3\%$ ; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



EWFH-TZXSD



MicroTech 4

| EWFH TZ-D XS                                     |                                   | 620     | 645     | 700     | 750     | 790     | 840     |
|--------------------------------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 819.3   | 877     | 941.7   | 1,013.6 | 1,071.7 | 1,139.2 |
| Power input (1)                                  | kW                                | 241.7   | 230.7   | 256.6   | 267.4   | 271.3   | 303.5   |
| EER (1)                                          |                                   | 3.39    | 3.8     | 3.67    | 3.79    | 3.95    | 3.75    |
| SEER (1)(2)                                      |                                   | 5.379   | 5.957   | 5.918   | 6.147   | 6.205   | 6.127   |
| η <sub>s,c</sub> (3)                             | %                                 | 212     | 235     | 234     | 243     | 245     | 242     |
| SEPR (1)(2)                                      |                                   | 6.839   | 7.05    | 6.967   | 7.142   | 7.038   | 6.926   |
| IPLV (5)                                         |                                   | 5.832   | 6.479   | 6.362   | 6.639   | 6.69    | 6.489   |
| Full Free Cooling Temperature (12)               | °C                                | 5.15    | 6.79    | 5.79    | 6.91    | 7.89    | 7.12    |
| Flow rate (1)                                    | l/s                               | 28.1    | 30.1    | 32.3    | 34.8    | 36.8    | 39.1    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 30.1    | 34.8    | 39.1    | 47      | 51.1    | 56.4    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 96.8    | 90.8    | 102     | 103     | 101     | 111     |
| Sound Power (1)(7)                               | Lw                                | 101     | 98      | 100     | 101     | 102     | 103     |
|                                                  | Lw with + OP76b                   |         |         | 93      |         | 94      |         |
| Number of circuits / Compressors                 |                                   | 1       |         |         | 2       |         |         |
| Water volume – open loop Free Cooling            | l                                 | 76.3    |         | 289     |         | 492     |         |
| Minimum Water flow rate (10)                     | l/s                               | 13.4    |         | 13      |         | 12.3    |         |
| Dimensions                                       |                                   |         |         |         |         |         |         |
|                                                  | Length                            | mm      | 5,800   |         |         | 7,960   | 9,040   |
|                                                  | Width                             | mm      |         | 6,880   |         |         |         |
|                                                  | Height                            | mm      |         |         | 2,238   |         |         |
|                                                  |                                   |         |         |         | 2,553   |         |         |
| Weight (8)                                       |                                   |         |         |         |         |         |         |
|                                                  | Unit (8)                          | kg      | 5,474   | 5,593   | 6,358   | 6,868   |         |
|                                                  | Operating weight (8)              | kg      | 6,053.3 | 6,668   | 6,673   | 7,920   | 8,500   |
|                                                  |                                   |         |         |         |         |         | 8,505   |
| Water Connection Size                            | Ø mm                              | 139.7   |         | 168.3   |         | 219.1   |         |
| Unit                                             |                                   |         |         |         |         |         |         |
|                                                  | Running Current (1)(8)(11)        | A       | 385     | 384     | 423     | 439     | 493     |
|                                                  | Max Running Current (7)(8)(11)    | A       | 491     | 472     | 517     | 527     | 618     |
|                                                  | Current for Wiring Sizing (8)(11) | A       | 541     | 520     | 569     | 580     | 637     |
|                                                  | Max Inrush Current (8)(9)(11)     | A       |         |         | 0       |         |         |
| EWFH TZ-D XS                                     |                                   | 900     | 975     | H10     | H11     | H12     | H13     |
| Cooling Capacity (1)                             | kW                                | 1,210.2 | 1,312.2 | 1,468.8 | 1,564.7 | 1,682.3 | 1,812.0 |
| Power input (1)                                  | kW                                | 342     | 375.8   | 416.1   | 422.1   | 463.2   | 521.6   |
| EER (1)                                          |                                   | 3.54    | 3.49    | 3.530   | 3.710   | 3.630   | 3.470   |
| SEER (1)(2)                                      |                                   | 6.008   | 6.025   | 5.997   | 5.645   | 5.693   | 5.758   |
| η <sub>s,c</sub> (3)                             | %                                 | 237     | 238     | 237     | 223     | 225     | 227     |
| SEPR (1)(2)                                      |                                   | 6.695   | 6.108   | 6.202   | 7.177   | 6.961   | 6.864   |
| IPLV (5)                                         |                                   | 6.472   | 6.443   | 6.436   | 6.376   | 6.481   | 6.426   |
| Full Free Cooling Temperature (12)               | °C                                | 6.3     | 6.81    | 6.71    | 5.83    | 6.16    | 6.32    |
| Flow rate (1)                                    | l/s                               | 41.5    | 45      | 50.4    | 53.7    | 57.7    | 62.1    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 51.3    | 58.4    | 30.4    | 48.9    | 54.2    | 41.5    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 110     | 115     | 86.5    | 110     | 115     | 101     |
| Sound Power (1)(7)                               | Lw                                | 105     | 107     | 105     | 103     | 104     | 105     |
|                                                  | Lw with + OP76b                   | 94      | 95      |         | 96      |         | 97      |
| Number of circuits / Compressors                 |                                   |         |         |         | 2       |         |         |
| Water volume – open loop Free Cooling            | l                                 | 583     |         |         |         | 1,011   |         |
| Minimum Water flow rate (10)                     | l/s                               | 14.6    |         |         |         | 22.6    |         |
| Dimensions                                       |                                   |         |         |         |         |         |         |
|                                                  | Length                            | mm      | 9,040   | 10,120  | 11,200  | 12,280  | 13,360  |
|                                                  | Width                             | mm      |         |         | 2,238   |         |         |
|                                                  | Height                            | mm      |         |         | 2,553   |         |         |
| Weight (8)                                       |                                   |         |         |         |         |         |         |
|                                                  | Unit (8)                          | kg      | 6,957   | 7,466   | 8,383   | 9,051   | 9,561   |
|                                                  | Operating weight (8)              | kg      | 8,785   | 9,370   | 11,223  | 11,906  | 12,491  |
|                                                  |                                   |         |         |         |         |         | 13,081  |
| Water Connection Size                            | Ø mm                              | 219.1   | 219.1   | 273     | 273     | 273     | 273     |
| Unit                                             |                                   |         |         |         |         |         |         |
|                                                  | Running Current (1)(8)(11)        | A       | 550     | 601     | 661     | 678     | 739     |
|                                                  | Max Running Current (7)(8)(11)    | A       | 655     | 702     | 787     | 902     | 992     |
|                                                  | Current for Wiring Sizing (8)(11) | A       | 721     | 772     | 866     | 992     | 1,091   |
|                                                  | Max Inrush Current (8)(9)(11)     | A       |         |         | 0       |         | 1,198   |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η<sub>s,c</sub> is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511-2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follows: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

# Air cooled Inverter screw free cooling with PLATINUM efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFH TZ-D PS                                     |                                   | 225   | 265   | 295   | 340   | 395     | 420     |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|-------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 308.3 | 364.2 | 398.9 | 460.2 | 543.6   | 573.6   |
| Power input (1)                                  | kW                                | 73.4  | 83.7  | 98.4  | 100.8 | 129.4   | 133     |
| EER (1)                                          |                                   | 4.2   | 4.35  | 4.05  | 4.57  | 4.2     | 4.31    |
| SEER (1)(2)                                      |                                   | 6.008 | 6.095 | 6.081 | 6.58  | 6.397   | 6.579   |
| $\eta_{s,c}$ (3)                                 | %                                 | 237   | 241   | 240   | 260   | 253     | 260     |
| SEPR (1)(2)                                      |                                   | 7.312 | 7.556 | 7.271 | 7.983 | 7.59    | 5.795   |
| IPLV (5)                                         |                                   | 6.738 | 6.736 | 6.579 | 7.506 | 7.214   | 7.271   |
| Full Free Cooling Temperature (12)               | °C                                | 10.78 | 11.86 | 11.12 | 11.82 | 11.4    | 12.09   |
| Flow rate (1)                                    | l/s                               | 10.6  | 12.5  | 13.7  | 15.8  | 18.6    | 19.7    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 11.2  | 12.2  | 14.5  | 17.5  | 23.5    | 26      |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 42.8  | 38.3  | 44.9  | 44.2  | 58.7    | 77      |
| Sound Power (1)(7)                               | Lw                                | 97    | 98    | 103   | 96    | 99      | 100     |
|                                                  | Lw with + OP76b                   | 91    | 93    | 94    | 92    |         | 93      |
| Number of circuits / Compressors                 |                                   |       |       |       | 1     |         |         |
| Water volume – open loop Free Cooling            | l                                 | 40    | 48    |       |       | 58.1    |         |
| Minimum Water flow rate (10)                     | l/s                               | 7.6   | 8.5   |       |       | 10.2    |         |
| Dimensions                                       | Length                            | mm    | 3,640 | 4,720 |       | 5,800   | 6,880   |
|                                                  | Width                             | mm    |       |       | 2,238 |         |         |
|                                                  | Height                            | mm    |       |       | 2,553 |         |         |
| Weight (8)                                       | Unit (8)                          | kg    | 3,307 | 3,846 | 3,846 | 4,720   | 4,720   |
|                                                  | Operating weight (8)              | kg    | 3,628 | 4,254 | 4,259 | 5,223.1 | 5,233.1 |
| Water Connection Size                            | Ø mm                              |       | 88.9  |       |       | 139.7   |         |
| Unit                                             | Running Current (1)(8)(11)        | A     | 121   | 136   | 161   | 170     | 213     |
|                                                  | Max Running Current (7)(8)(11)    | A     | 183   | 214   | 235   | 258     | 301     |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 201   | 235   | 258   | 283     | 331     |
|                                                  | Max Inrush Current (8)(9)(11)     | A     |       |       |       | 0       |         |

| EWFH TZ-D PS                                     |                                   | 490   | 500     | 540   | 545   | 615     |
|--------------------------------------------------|-----------------------------------|-------|---------|-------|-------|---------|
| Cooling Capacity (1)                             | kW                                | 653   | 684.2   | 730.5 | 717.1 | 834.7   |
| Power input (1)                                  | kW                                | 160.4 | 158.9   | 165   | 163.7 | 195.6   |
| EER (1)                                          |                                   | 4.07  | 4.3     | 4.43  | 4.38  | 4.27    |
| SEER (1)(2)                                      |                                   | 6.481 | 6.199   | 6.24  | 5.753 | 6.646   |
| $\eta_{s,c}$ (3)                                 | %                                 | 256   | 245     | 247   | 227   | 263     |
| SEPR (1)(2)                                      |                                   | 7.297 | 6.966   | 7.58  | 8.001 | 7.332   |
| IPLV (5)                                         |                                   | 7.135 | 6.819   | 6.956 | 6.73  | 7.347   |
| Full Free Cooling Temperature (12)               | °C                                | 10.27 | 9.81    | 10.71 | 9.3   | 9.31    |
| Flow rate (1)                                    | l/s                               | 22.4  | 23.5    | 25.1  | 24.6  | 28.6    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 20.1  | 23.3    | 25.9  | 23.8  | 35      |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 55.1  | 61.1    | 59.1  | 64.6  | 76.2    |
| Sound Power (1)(7)                               | Lw                                | 105   | 101     |       | 99    | 97      |
|                                                  | Lw with + OP76b                   | 93    | 95      | 96    | 93    |         |
| Number of circuits / Compressors                 |                                   | 1     | 2       |       | 1     | 2       |
| Water volume – open loop Free Cooling            | l                                 | 76.3  | 289     | 289   | 76.3  | 492     |
| Minimum Water flow rate (10)                     | l/s                               | 13.4  | 13      | 13    | 13.4  | 12.3    |
| Dimensions                                       | Length                            | mm    | 6,880   | 7,960 | 6,880 | 7,960   |
|                                                  | Width                             | mm    |         | 2,238 |       |         |
|                                                  | Height                            | mm    |         | 2,553 |       |         |
| Weight (8)                                       | Unit (8)                          | kg    | 5,315   | 5,336 | 5,846 | 5,984   |
|                                                  | Operating weight (8)              | kg    | 5,939.3 | 6,391 | 6,971 | 6,618.3 |
| Water Connection Size                            | Ø mm                              | 139.7 |         | 168.3 | 139.7 | 219.1   |
| Unit                                             | Running Current (1)(8)(11)        | A     | 259     | 259   | 268   | 269     |
|                                                  | Max Running Current (7)(8)(11)    | A     | 367     | 375   | 406   | 425     |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 404     | 412   | 444   | 467     |
|                                                  | Max Inrush Current (8)(9)(11)     | A     |         |       |       | 0       |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency  $\eta_{s,c}$  is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply.  $\pm 10\%$  tolerance on Voltage, Voltage unbalance between phases must be within  $\pm 3\%$ ; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.





EWFH-TZPDS



MicroTech 4

| EWFH TZ-D PS                                     |                                   | 645   | 700   | 770   | 845     | 900     |
|--------------------------------------------------|-----------------------------------|-------|-------|-------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 875.7 | 945.2 | 1,038 | 1,153.1 | 1,224.2 |
| Power input (1)                                  | kW                                | 206.6 | 231.1 | 250.4 | 271.4   | 309.9   |
| EER (1)                                          |                                   | 4.24  | 4.09  | 4.15  | 4.25    | 3.95    |
| SEER (1)(2)                                      |                                   | 6.55  | 5.945 | 6.46  | 6.506   | 6.388   |
| η <sub>s,c</sub> (3)                             | %                                 | 259   | 235   | 255   | 257     | 253     |
| SEPR (1)(2)                                      |                                   | 7.884 | 7.611 | 7.394 | 7.499   | 7.129   |
| IPLV (5)                                         |                                   | 7.226 | 7.016 | 7.052 | 7.143   | 6.966   |
| Full Free Cooling Temperature (12)               | °C                                | 8.76  | 7.82  | 8.3   | 8.47    | 7.72    |
| Flow rate (1)                                    | l/s                               | 30    | 32.4  | 35.6  | 39.5    | 42      |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 37.4  | 42.1  | 39.8  | 60.3    | 66.1    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 82.1  | 92.3  | 86.8  | 170     | 117     |
| Sound Power (1)(7)                               | Lw                                | dB(a) | 98    | 99    | 101     | 104     |
|                                                  | Lw with + OP76b                   | dB(a) | 93    | 94    | 95      |         |
| Number of circuits / Compressors                 |                                   |       |       | 2     |         |         |
| Water volume – open loop Free Cooling            | l                                 |       | 492   | 583   |         | 546     |
| Minimum Water flow rate (10)                     | l/s                               |       | 12.3  | 14.6  |         | 14.5    |
| Dimensions                                       | Length                            | mm    |       | 9,040 |         | 10,120  |
|                                                  | Width                             | mm    | 7,960 | 2,238 |         |         |
|                                                  | Height                            | mm    |       | 2,553 |         |         |
| Weight (8)                                       | Unit (8)                          | kg    | 6,358 | 6,358 | 6,957   | 7,519   |
|                                                  | Operating weight (8)              | kg    | 7,905 | 7,910 | 8,765   | 9,329   |
| Water Connection Size                            | Ø mm                              |       | 219.1 | 219.1 | 219.1   | 219.1   |
| Unit                                             | Running Current (1)(8)(11)        | A     | 348   | 385   | 414     | 503     |
|                                                  | Max Running Current (7)(8)(11)    | A     | 458   | 505   | 558     | 609     |
|                                                  | Current for Wiring Sizing (8)(11) | A     | 503   | 556   | 614     | 670     |
|                                                  | Max Inrush Current (8)(9)(11)     | A     |       |       | 0       |         |

| EWFH TZ-D PS                                     |                                   | 960     | C10     | H10     | H11     | C12     |
|--------------------------------------------------|-----------------------------------|---------|---------|---------|---------|---------|
| Cooling Capacity (1)                             | kW                                | 1,446.8 | 1,352.1 | 1,439.3 | 1,532.9 | 1,610.7 |
| Power input (1)                                  | kW                                | 394.2   | 352.3   | 378.7   | 367.3   | 385.1   |
| EER (1)                                          |                                   | 3.67    | 3.840   | 3.800   | 4.170   | 4.180   |
| SEER (1)(2)                                      |                                   | 5.929   | 6.3     | 5.568   | 6.031   | 6.095   |
| η <sub>s,c</sub> (3)                             | %                                 | 234     | 249     | 220     | 238     | 241     |
| SEPR (1)(2)                                      |                                   | 6.569   | 6.93    | 6.912   | 7.423   | 7.821   |
| IPLV (5)                                         |                                   | 6.615   | 6.787   | 6.825   | 6.965   | 7.041   |
| Full Free Cooling Temperature (12)               | °C                                | 6.89    | 7.8     | 8.23    | 7.43    | 7.88    |
| Flow rate (1)                                    | l/s                               | 49.6    | 46.4    | 49.4    | 52.6    | 55.2    |
| Evaporator Pressure Drop free cooling OFF (1)(6) | kPa                               | 43      | 38.9    | 29.5    | 32.4    | 35.0    |
| Unit pressure drop free cooling ON (12)(6)       | kPa                               | 98.4    | 88.8    | 76.2    | 84.5    | 84.1    |
| Sound Power (1)(7)                               | Lw                                | dB(a)   | 107     | 107     | 106     | 102     |
|                                                  | Lw with + OP76b                   | dB(a)   | 95      |         | 96      |         |
| Number of circuits / Compressors                 |                                   |         |         | 2       |         |         |
| Water volume – open loop Free Cooling            | l                                 |         | 1,043   |         | 1,011   |         |
| Minimum Water flow rate (10)                     | l/s                               |         | 18.1    |         | 22.6    |         |
| Dimensions                                       | Length                            | mm      | 11,200  |         | 12,280  | 13,360  |
|                                                  | Width                             | mm      |         | 2,238   |         |         |
|                                                  | Height                            | mm      |         | 2,553   |         |         |
| Weight (8)                                       | Unit (8)                          | kg      | 8,341   | 8,341   | 8,892   | 9,561   |
|                                                  | Operating weight (8)              | kg      | 11,225  | 11,235  | 11,797  | 12,476  |
| Water Connection Size                            | Ø mm                              |         |         | 273     |         |         |
| Unit                                             | Running Current (1)(8)(11)        | A       | 696     | 639     | 605     | 596     |
|                                                  | Max Running Current (7)(8)(11)    | A       | 694     | 731     | 779     | 875     |
|                                                  | Current for Wiring Sizing (8)(11) | A       | 764     | 804     | 857     | 962     |
|                                                  | Max Inrush Current (8)(9)(11)     | A       |         |         | 0       |         |

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (3) The seasonal space cooling energy efficiency η<sub>s,c</sub> is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; (5) Based on AHRI conditions; (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511-2 Outdoor Heat exchanger inlet dry bulb temperature 35°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) These are intended as guidelines only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

# Air cooled Inverter screw free cooling with BLU efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFS-TZBSD           |                                    |          |           | 10   | 10               | 11       | 12       | 13       | 14       | 15       | 16       |  |
|----------------------|------------------------------------|----------|-----------|------|------------------|----------|----------|----------|----------|----------|----------|--|
| SEER                 |                                    |          |           |      | 4.917            | 5.034    | 5.163    | 4.951    | 5.254    | 5.165    | 5.095    |  |
| Cooling capacity     | Nom.                               |          |           | kW   | 1,244.3          | 1,343.45 | 1,446.68 | 1,570.26 | 1,721.26 | 1,797.14 | 2,035.59 |  |
| Power input          | Cooling                            | Nom.     |           | kW   | 442.65           | 453.87   | 475.26   | 520.64   | 574.33   | 633.02   | 687.1    |  |
| Capacity control     | Method                             |          |           |      | Stepless         |          |          |          |          |          |          |  |
|                      | Minimum capacity                   |          |           | %    | 10.5             |          |          | 10       |          |          | 12.5     |  |
| EER                  |                                    |          |           |      | 2.81             | 2.96     | 3.04     | 3.02     | 3        | 2.84     | 2.87     |  |
| IPLV                 |                                    |          |           |      | 5.281            | 5.468    | 5.513    | 5.558    | 5.543    | 5.454    | 5.411    |  |
| Dimensions           | Unit                               | Height   |           | mm   | 2,553            |          |          |          |          |          |          |  |
|                      |                                    |          |           |      | 2,238            |          |          |          |          |          |          |  |
|                      |                                    |          |           |      |                  |          |          |          |          |          |          |  |
|                      |                                    | Width    |           | mm   | 6,880            | 7,960    | 9,040    | 10,120   | 11,200   |          | 12,280   |  |
|                      |                                    | Depth    |           | mm   | 6,880            | 7,960    | 9,040    | 10,120   | 11,200   |          | 12,280   |  |
| Weight               | Unit                               |          |           | kg   | 5,806            | 6,427    | 6,936    | 7,446    | 7,956    | 8,277    | 9,157    |  |
|                      | Operation weight                   |          |           | kg   | 6,834            | 7,606    | 8,191    | 8,776    | 9,366    | 9,697    | 11,117   |  |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |          |          |          |          |          |          |  |
| Compressor           | Type                               |          |           |      | Screw compressor |          |          |          |          |          |          |  |
|                      | Quantity                           |          |           |      | 2                |          |          |          |          |          |          |  |
| Fan                  | Type                               |          |           |      | Direct propeller |          |          |          |          |          |          |  |
|                      | Quantity                           |          |           |      | 12               | 14       | 16       | 18       | 20       |          | 22       |  |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 67,530           | 78,785   | 90,040   | 101,295  | 112,550  |          | 123,805  |  |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 100              | 100.7    | 101      | 101.8    | 103.8    | 104.8    | 106.2    |  |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 78.9             | 79.1     |          | 79.6     | 81.2     | 82.3     | 83.4     |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | 4 ~18            |          |          |          |          |          |          |  |
| Refrigerant          | Type/GWP                           |          |           |      | R-513A/630       |          |          |          |          |          |          |  |
|                      | Charge                             |          |           | kg   | 140              | 150      | 160      | 170      | 185      | 195      | 215      |  |
|                      | Circuits                           | Quantity |           |      | 2                |          |          |          |          |          |          |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 219.1            |          |          |          |          |          | 273      |  |
| Unit                 | Starting current                   | Max      |           | A    | 0                |          |          |          |          |          |          |  |
|                      |                                    |          |           |      |                  |          |          |          |          |          |          |  |
|                      |                                    |          |           |      |                  |          |          |          |          |          |          |  |
|                      | Running current                    | Cooling  | Nom.      | A    | 700              | 717      | 748      | 816      | 895      | 991      | 1,071    |  |
|                      | current                            | Max      |           | A    | 751              | 817      | 884      | 930      | 948      | 1,120    | 1,200    |  |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3/50/400         |          |          |          |          |          |          |  |
| EWFS-TZBSD           |                                    |          |           | 17   | 18               | 19       | 275      | 320      | 345      | 400      | 470      |  |
| SEER                 |                                    |          |           |      | 5.177            | 5.178    | 5.098    | 4.648    | 5.032    | 4.966    | 5.234    |  |
| Cooling capacity     | Nom.                               |          |           | kW   | 2,107.09         | 2,314.18 | 2,312.53 | 353.32   | 412.41   | 447.62   | 528.72   |  |
| Power input          | Cooling                            | Nom.     |           | kW   | 739.85           | 872.62   | 887.73   | 116.76   | 124.07   | 144.81   | 172.62   |  |
| Capacity control     | Method                             |          |           |      | Stepless         |          |          |          |          |          |          |  |
|                      | Minimum capacity                   |          |           | %    | 11.5             | 10.5     | 10       | 21.5     | 19       | 16.5     | 21.5     |  |
| EER                  |                                    |          |           |      | 2.85             | 2.65     | 2.61     | 3.03     | 3.32     | 3.09     | 3.06     |  |
| IPLV                 |                                    |          |           |      | 5.754            | 5.648    | 5.583    | 5.084    | 5.463    | 5.375    | 5.565    |  |
| Dimensions           | Unit                               | Height   |           | mm   | 2,553            |          |          |          |          |          |          |  |
|                      |                                    |          |           |      | 2,238            |          |          |          |          |          |          |  |
|                      |                                    |          |           |      |                  |          |          |          |          |          |          |  |
|                      |                                    | Width    |           | mm   | 12,280           | 13,360   |          | 2,560    | 3,640    |          |          |  |
|                      |                                    | Depth    |           | mm   | 12,280           | 13,360   |          | 2,560    | 3,640    |          |          |  |
| Weight               | Unit                               |          |           | kg   | 9,561            | 10,070   |          | 2,626    | 3,136    |          | 3,581    |  |
|                      | Operation weight                   |          |           | kg   | 11,550           | 12,140   | 12,150   | 2,847    | 3,432    |          | 3,907    |  |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |          |          |          |          |          |          |  |
| Compressor           | Type                               |          |           |      | Screw compressor |          |          |          |          |          |          |  |
|                      | Quantity                           |          |           |      | 2                |          |          |          | 1        |          |          |  |
| Fan                  | Type                               |          |           |      | Direct propeller |          |          |          |          |          |          |  |
|                      | Quantity                           |          |           |      | 22               | 24       |          | 4        | 6        |          |          |  |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 123,805          | 135,060  |          | 22,510   | 33,765   |          |          |  |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 104.9            | 105.8    | 106.6    | 97.4     | 97.9     | 100      | 97.3     |  |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 82               | 82.7     | 83.5     | 78.3     | 78.2     | 80.3     | 77.6     |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | 4 ~18            |          |          |          |          |          |          |  |
| Refrigerant          | Type/GWP                           |          |           |      | R-513A/630       |          |          |          |          |          |          |  |
|                      | Charge                             |          |           | kg   | 245              | 260      | 270      | 35       | 45       |          | 55       |  |
|                      | Circuits                           | Quantity |           |      | 2                |          |          |          | 1        |          |          |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 273              |          |          | 88.9     |          |          | 139.7    |  |
| Unit                 | Starting current                   | Max      |           | A    | 0                |          |          |          |          |          |          |  |
|                      |                                    |          |           |      |                  |          |          |          |          |          |          |  |
|                      |                                    |          |           |      |                  |          |          |          |          |          |          |  |
|                      | Running current                    | Cooling  | Nom.      | A    | 1,157            | 1,353    | 1,376    | 188      | 199      | 230      | 278      |  |
|                      | current                            | Max      |           | A    | 1,340            | 1,475    | 1,608    | 220      | 262      | 284      | 346      |  |
| Power supply         | Phase/Frequency/Voltage            |          |           | Hz/V | 3/50/400         |          |          |          |          |          |          |  |



MicroTech 4



EWFS-TZBSD

| EWFS-TZBSD           |                                    |                  |           |      | 525      | 580    | 625    | 755    | 830    | 915      |        |
|----------------------|------------------------------------|------------------|-----------|------|----------|--------|--------|--------|--------|----------|--------|
| SEER                 |                                    |                  |           |      | 5.225    | 5.233  | 5.015  | 5.288  | 5.217  | 5.037    |        |
| Cooling capacity     | Nom.                               | kW               |           |      | 657.03   | 728.85 | 758.65 | 956.88 | 1,067  | 1,162.62 |        |
| Power input          | Cooling                            | Nom.             | kW        |      |          | 206.35 | 250.21 | 274.48 | 275.44 | 347.3    | 386.64 |
| Capacity control     | Method                             | Stepless         |           |      |          |        |        |        |        |          |        |
| Minimum capacity     |                                    |                  |           |      | %        | 21.5   | 19     | 16.5   | 12.5   | 10.5     | 12.5   |
| EER                  |                                    |                  |           |      | 3.18     | 2.91   | 2.76   | 3.47   | 3.07   | 3.01     |        |
| IPLV                 |                                    |                  |           |      | 5.599    | 5.564  | 5.377  | 5.66   | 5.55   | 5.409    |        |
| Dimensions           | Unit                               | Height           | mm        |      |          | 2,553  |        |        |        |          |        |
|                      |                                    | Width            | mm        |      |          | 2,238  |        |        |        |          |        |
|                      |                                    | Depth            | mm        |      |          | 4,720  |        |        | 6,880  |          |        |
| Weight               | Unit                               | kg               |           |      | 4,154    |        |        | 5,549  |        | 5,806    |        |
|                      | Operation weight                   |                  |           |      | kg       | 4,581  | 4,591  | 4,596  | 6,341  | 6,351    | 6,819  |
| Air heat exchanger   | Type                               | Microchannel     |           |      |          |        |        |        |        |          |        |
| Compressor           | Type                               | Screw compressor |           |      |          |        |        |        |        |          |        |
|                      | Quantity                           | 12               |           |      |          |        |        |        |        |          |        |
| Fan                  | Type                               | Direct propeller |           |      |          |        |        |        |        |          |        |
|                      | Quantity                           | 8                |           |      |          |        |        |        |        |          |        |
|                      | Air flow rate                      | Cooling          | Nom.      | l/s  | 45,020   |        |        | 67,530 |        |          |        |
| Sound power level    | Cooling                            | Nom.             | dBA       |      |          | 97.7   | 98.1   | 100.6  | 99     | 100      | 99     |
| Sound pressure level | Cooling                            | Nom.             | dBA       |      |          | 77.4   | 77.8   | 80.3   | 77.8   | 78.9     | 77.8   |
| Operation range      | Air side                           | Cooling          | Min.~Max. | °CDB | 4 ~18    |        |        |        |        |          |        |
| Refrigerant          | Type/GWP                           | R-513A/630       |           |      |          |        |        |        |        |          |        |
|                      | Charge                             | kg               |           |      |          | 70     | 80     | 85     | 105    | 115      | 125    |
|                      | Circuits                           | Quantity         |           |      |          | 1      |        |        | 2      |          |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  |           |      | 139.7    |        |        | 168.3  |        | 219.1    |        |
| Unit                 | Starting current                   | A                |           |      |          | 0      |        |        |        |          |        |
|                      | Running current                    | Cooling          | A         |      |          | 328    | 393    | 429    | 451    | 558      | 617    |
|                      |                                    | A                |           |      |          | 400    | 457    | 464    | 600    | 668      |        |
| Power supply         | Phase/Hz/V                         |                  |           |      | 3/50/400 |        |        |        |        |          |        |

# Air cooled Inverter screw free cooling with SILVER efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFS-TZSSD           |                                    |          |           | 10               | 10       | 11      | 12       | 13       | 14       | 15       | 16       | 17       | 18       |         |  |
|----------------------|------------------------------------|----------|-----------|------------------|----------|---------|----------|----------|----------|----------|----------|----------|----------|---------|--|
| SEER                 |                                    |          |           | 5.102            | 5.043    | 5.122   | 5.274    | 4.372    | 4.156    | 5.294    | 5.056    | 5.217    | 4.602    |         |  |
| Cooling capacity     | Nom.                               |          |           | kW               | 1,300.84 | 1,315.3 | 1,474.29 | 1,645.12 | 1,766.39 | 1,894.74 | 1,965.41 | 2,043.33 | 2,235.02 | 2,280.9 |  |
| Power input          | Cooling                            | Nom.     |           | kW               | 417.07   | 420.49  | 475.58   | 515.07   | 562.9    | 618.59   | 608.3    | 641.75   | 745.75   | 800.88  |  |
| Capacity control     | Method                             |          |           | Stepless         |          |         |          |          |          |          |          |          |          |         |  |
| Minimum capacity     |                                    |          |           | %                | 10.5     |         | 10       |          | 13.5     |          | 12.5     | 11.5     | 10.5     |         |  |
| EER                  |                                    |          |           |                  | 3.12     | 3.13    | 3.1      | 3.19     | 3.14     | 3.06     | 3.23     | 3.18     | 3        | 2.85    |  |
| IPLV                 |                                    |          |           |                  | 6.507    | 6.418   | 6.452    | 6.402    | 6.469    | 6.286    | 5.536    | 5.698    | 5.723    | 5.836   |  |
| Dimensions           | Unit                               | Height   | mm        | 2,553            |          |         |          |          |          |          |          |          |          |         |  |
|                      |                                    | Width    | mm        | 2,238            |          |         |          |          |          |          |          |          |          |         |  |
|                      |                                    | Depth    | mm        | 7,960            |          | 9,040   | 11,200   | 12,280   |          |          |          | 13,360   |          |         |  |
| Weight               | Unit                               |          |           | kg               | 6,316    | 6,427   | 6,936    | 7,956    | 8,465    | 9,157    | 9,561    |          | 10,070   |         |  |
|                      | Operation weight                   |          |           | kg               | 7,409    | 7,601   | 8,191    | 9,356    | 9,945    | 11,107   | 11,520   | 11,535   | 12,130   | 12,140  |  |
| Air heat exchanger   | Type                               |          |           | Microchannel     |          |         |          |          |          |          |          |          |          |         |  |
| Compressor           | Type                               |          |           | Screw compressor |          |         |          |          |          |          |          |          |          |         |  |
|                      | Quantity                           |          |           | 2                |          |         |          |          |          |          |          |          |          |         |  |
| Fan                  | Type                               |          |           | Direct propeller |          |         |          |          |          |          |          |          |          |         |  |
|                      | Quantity                           |          |           | 14               |          | 16      | 20       | 22       |          |          |          | 24       |          |         |  |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s              | 78,785   |         | 90,040   | 112,550  | 123,805  |          |          |          | 135,060  |         |  |
| Sound power level    | Cooling                            | Nom.     |           | dBA              | 100.2    | 100.5   | 101      | 102.5    | 104.2    | 105.3    | 103.3    | 104.1    | 104.9    | 105.8   |  |
| Sound pressure level | Cooling                            | Nom.     |           | dBA              | 78.7     | 79      | 79.1     | 79.9     | 81.3     | 82.5     | 80.5     | 81.2     | 81.8     | 82.7    |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB             | 4 ~18    |         |          |          |          |          |          |          |          |         |  |
| Refrigerant          | Type/GWP                           |          |           | R-513A/630       |          |         |          |          |          |          |          |          |          |         |  |
|                      | Charge                             |          |           | kg               | 140      | 145     | 160      | 175      | 190      | 205      | 215      | 230      | 250      | 260     |  |
|                      | Circuits                           | Quantity |           |                  | 2        |         |          |          |          |          |          |          |          |         |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |                  |          |         |          |          |          |          |          | 273      |          |         |  |
| Unit                 | Starting current                   |          |           | A                | 0        |         |          |          |          |          |          |          |          |         |  |
|                      | Running current                    | Cooling  |           | A                | 662      | 667     | 749      | 807      | 878      | 970      | 954      | 1,004    | 1,166    | 1,247   |  |
|                      |                                    |          |           | A                | 761      | 789     | 884      | 948      | 1,187    | 1,156    | 1,124    | 1,227    | 1,351    | 1,475   |  |
| Power supply         | Phase/Hz/V                         |          |           | 3/50/400         |          |         |          |          |          |          |          |          |          |         |  |

| EWFS-TZSSD           |                                    |          |           | 19               | 285      | 325    | 380    | 430    | 495    | 520    | 535    | 555    | 585    |        |  |
|----------------------|------------------------------------|----------|-----------|------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| SEER                 |                                    |          |           | 5.064            | 5.07     | 5.307  | 5.507  | 5.46   | 5.167  | 4.767  | 5.335  | 4.838  | 4.774  |        |  |
| Cooling capacity     | Nom.                               |          |           | kW               | 2,357.64 | 379.56 | 427.04 | 497.67 | 565.51 | 644.86 | 672.4  | 699.08 | 718.05 | 763.44 |  |
| Power input          | Cooling                            | Nom.     |           | kW               | 882.68   | 104.5  | 114.89 | 142.11 | 166.38 | 190.79 | 190.48 | 200.71 | 206.69 | 233.61 |  |
| Capacity control     | Method                             |          |           | Stepless         |          |        |        |        |        |        |        |        |        |        |  |
| Minimum capacity     |                                    |          |           | %                | 10       | 21.5   | 19     | 16.5   | 21.5   | 23     | 10.5   | 21.5   | 10     |        |  |
| EER                  |                                    |          |           |                  | 2.67     | 3.63   | 3.72   | 3.5    | 3.4    | 3.38   | 3.53   | 3.48   | 3.47   | 3.27   |  |
| IPLV                 |                                    |          |           |                  | 5.606    | 6.487  | 6.589  | 6.445  | 7.06   | 7.327  | 6.306  | 6.935  | 6.178  | 6.272  |  |
| Dimensions           | Unit                               | Height   | mm        | 2,553            |          |        |        |        |        |        |        |        |        |        |  |
|                      |                                    | Width    | mm        | 2,238            |          |        |        |        |        |        |        |        |        |        |  |
|                      |                                    | Depth    | mm        | 13,360           | 3,640    | 4,720  |        |        |        | 5,800  |        |        |        |        |  |
| Weight               | Unit                               |          |           | kg               | 10,070   | 3,136  | 3,675  |        | 4,090  | 4,154  | 4,555  | 4,664  | 4,555  |        |  |
|                      | Operation weight                   |          |           | kg               | 12,150   | 3,427  | 4,045  | 4,050  | 4,487  | 4,576  | 5,237  | 5,161  | 5,242  | 5,247  |  |
| Air heat exchanger   | Type                               |          |           | Microchannel     |          |        |        |        |        |        |        |        |        |        |  |
| Compressor           | Type                               |          |           | Screw compressor |          |        |        |        |        |        |        |        |        |        |  |
|                      | Quantity                           |          |           | 2                |          |        |        |        |        |        |        |        |        |        |  |
| Fan                  | Type                               |          |           | Direct propeller |          |        |        |        |        |        |        |        |        |        |  |
|                      | Quantity                           |          |           | 24               | 6        | 8      |        |        |        | 10     |        |        |        |        |  |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s              | 135,060  | 33,765 | 45,020 |        |        |        | 56,275 |        |        |        |  |
| Sound power level    | Cooling                            | Nom.     |           | dBA              | 106.6    | 97.8   | 98.3   | 100.2  | 97.7   | 97.1   | 99.3   | 98     | 99.5   | 100.7  |  |
| Sound pressure level | Cooling                            | Nom.     |           | dBA              | 83.5     | 78     |        | 80     | 77.4   | 76.9   | 78.6   | 77.3   | 78.7   | 79.9   |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB             | 4 ~18    |        |        |        |        |        |        |        |        |        |  |
| Refrigerant          | Type/GWP                           |          |           | R-513A/630       |          |        |        |        |        |        |        |        |        |        |  |
|                      | Charge                             |          |           | kg               | 270      | 40     | 45     | 50     | 60     | 65     | 70     | 75     |        | 80     |  |
|                      | Circuits                           | Quantity |           |                  | 2        | 1      |        |        |        |        | 2      | 1      | 2      |        |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           | 273              |          |        |        | 88.9   |        | 139.7  |        | 168.3  | 139.7  | 168.3  |  |
| Unit                 | Starting current                   |          |           | A                | 0        |        |        |        |        |        |        |        |        |        |  |
|                      | Running current                    | Cooling  |           | A                | 1,368    | 170    | 185    | 226    | 268    | 305    | 312    | 319    | 336    | 377    |  |
|                      |                                    |          |           | A                | 1,608    | 231    | 272    | 294    | 357    | 372    | 421    | 411    | 450    | 481    |  |
| Power supply         | Phase/Hz/V                         |          |           | 3/50/400         |          |        |        |        |        |        |        |        |        |        |  |



MicroTech 4



EWFS-TZSSD

| EWFS-TZSSD           |                                    |          |           |  | 595              | 645    | 650    | 705    | 760    | 835    | 960      |        |        |
|----------------------|------------------------------------|----------|-----------|--|------------------|--------|--------|--------|--------|--------|----------|--------|--------|
| SEER                 |                                    |          |           |  | 5.22             | 4.926  | 5.093  | 4.82   | 5.427  | 5.3    | 5.171    |        |        |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 768.14 | 839.18 | 849.01 | 927.67 | 984.93 | 1,076.32 | 1,237  |        |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW     | 235.05 | 237.73 | 281.5  | 286.32 | 271.86   | 318.44 | 377.36 |
| Capacity control     | Method                             |          |           |  | Stepless         |        |        |        |        |        |          |        |        |
|                      | Minimum capacity                   |          |           |  | %                | 19     | 10     | 16.5   | 10     | 12.5   | 10.5     | 11.5   |        |
| EER                  |                                    |          |           |  | 3.27             | 3.53   | 3.02   | 3.24   | 3.62   | 3.38   | 3.28     |        |        |
| IPLV                 |                                    |          |           |  | 6.45             | 6.55   | 6.337  | 6.785  | 6.548  | 6.624  | 6.415    |        |        |
| Dimensions           | Unit                               | Height   |           |  |                  | mm     | 2,553  |        |        |        |          |        |        |
|                      |                                    | Width    |           |  |                  | mm     | 2,238  |        |        |        |          |        |        |
|                      |                                    | Depth    |           |  |                  | mm     | 5,800  | 6,880  | 5,800  | 6,880  | 7,960    |        |        |
| Weight               | Unit                               |          |           |  | kg               | 4,664  | 5,083  | 4,664  | 5,083  | 6,059  |          | 6,316  |        |
|                      | Operation weight                   |          |           |  | kg               | 5,166  | 5,835  | 5,176  | 5,840  | 6,916  | 6,926    | 7,404  |        |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |        |        |        |        |        |          |        |        |
| Compressor           | Type                               |          |           |  | Screw compressor |        |        |        |        |        |          |        |        |
|                      | Quantity                           |          |           |  | 1                | 2      | 1      | 2      |        |        |          |        |        |
| Fan                  | Type                               |          |           |  | Direct propeller |        |        |        |        |        |          |        |        |
|                      | Quantity                           |          |           |  | 10               | 12     | 10     | 12     | 14     |        |          |        |        |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s              | 56,275 | 67,530 | 56,275 | 67,530 | 78,785 |          |        |        |
| Sound power level    | Cooling                            | Nom.     |           |  | dBA              | 98.4   | 100.9  | 100.7  | 103    | 99.2   | 100.2    | 99.6   |        |
| Sound pressure level | Cooling                            | Nom.     |           |  | dBA              | 77.7   | 79.8   | 80     | 81.9   | 77.7   | 78.7     | 78     |        |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB             | 4 ~18  |        |        |        |        |          |        |        |
| Refrigerant          | Type/GWP                           |          |           |  | R-513A/630       |        |        |        |        |        |          |        |        |
|                      | Charge                             |          |           |  | kg               | 80     | 90     |        | 95     | 105    | 115      | 135    |        |
|                      | Circuits                           | Quantity |           |  |                  | 1      | 2      | 1      | 2      |        |          |        |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  |                  | 139.7  | 168.3  | 139.7  | 168.3  |        |          | 219.1  |        |
| Unit                 | Starting current                   |          |           |  | A                | 0      |        |        |        |        |          |        |        |
|                      | Running current                    | Cooling  |           |  |                  | A      | 370    | 383    | 439    | 455    | 446      | 515    | 603    |
|                      |                                    |          |           |  |                  | A      | 467    | 523    | 474    | 566    | 610      | 679    | 706    |
| Power supply         | Phase/Hz/V                         |          |           |  | 3/50/400         |        |        |        |        |        |          |        |        |



# Air cooled Inverter screw free cooling with GOLD efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFS-TZXSD           |                                    |          |           |  | 10    | 10               | 11       | 12       | 12       | 13       | 14       | 15       | 16       | 17       |          |
|----------------------|------------------------------------|----------|-----------|--|-------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| SEER                 |                                    |          |           |  |       | 4.899            | 5.183    | 5.793    | 5.68     | 5.627    | 5.687    | 5.603    | 5.478    | 5.355    | 5.225    |
| Cooling capacity     | Nom.                               |          |           |  | kW    | 1,370.23         | 1,274.13 | 1,436.39 | 1,536.75 | 1,603.58 | 1,720.07 | 1,866.66 | 1,957.89 | 2,092.93 | 2,138.76 |
| Power input          | Cooling                            | Nom.     |           |  | kW    | 407.56           | 356.3    | 405.88   | 463.58   | 489.2    | 532.36   | 523.31   | 577.55   | 655.27   | 711.26   |
| Capacity control     | Method                             |          |           |  |       | Stepless         |          |          |          |          |          |          |          |          |          |
|                      | Minimum capacity                   |          |           |  | %     | 10.5             | 11.5     | 10.5     | 10       |          |          | 15       | 13.5     | 12.5     | 11.5     |
| EER                  |                                    |          |           |  |       | 3.36             | 3.58     | 3.54     | 3.32     | 3.28     | 3.23     | 3.57     | 3.39     | 3.19     | 3.01     |
| IPLV                 |                                    |          |           |  |       | 5.84             | 5.977    | 5.764    | 5.622    | 5.541    | 5.84     | 6.097    | 5.958    | 6.475    | 6.196    |
| Dimensions           | Unit                               | Height   |           |  | mm    | 2,553            |          |          |          |          |          |          |          |          |          |
|                      |                                    | Width    |           |  | mm    | 2,238            |          |          |          |          |          |          |          |          |          |
|                      |                                    | Depth    |           |  | mm    | 10,120           |          | 11,200   |          |          | 12,280   |          | 13,360   |          |          |
| Weight               | Unit                               |          |           |  | kg    | 7,390            |          | 8,011    |          | 8,892    |          | 10,070   |          |          |          |
|                      | Operation weight                   |          |           |  | kg    | 8,619            | 8,609    | 9,391    | 9,401    | 9,416    | 10,826   | 12,080   | 12,095   | 12,110   | 12,125   |
| Air heat exchanger   | Type                               |          |           |  |       | Microchannel     |          |          |          |          |          |          |          |          |          |
| Compressor           | Type                               |          |           |  |       | Screw compressor |          |          |          |          |          |          |          |          |          |
|                      | Quantity                           |          |           |  |       | 2                |          |          |          |          |          |          |          |          |          |
| Fan                  | Type                               |          |           |  |       | Direct propeller |          |          |          |          |          |          |          |          |          |
|                      | Quantity                           |          |           |  |       | 18               |          | 20       |          |          | 22       |          | 24       |          |          |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s   | 101,295          |          | 112,550  |          |          | 123,805  |          | 135,060  |          |          |
| Sound power level    | Cooling                            | Nom.     |           |  | dB(A) | 102.3            | 101      | 103      | 105.2    | 107.5    | 106.1    | 102      | 102.8    | 103.7    | 104.5    |
| Sound pressure level | Cooling                            | Nom.     |           |  | dB(A) | 77.5             | 76.8     | 77.6     | 77.9     | 78       | 79.1     | 78.9     | 79.7     | 80.5     | 81.4     |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB  | 4 ~18            |          |          |          |          |          |          |          |          |          |
| Refrigerant          | Type/GWP                           |          |           |  |       | R-513A/630       |          |          |          |          |          |          |          |          |          |
|                      | Charge                             |          |           |  | kg    | 145              | 135      | 155      | 165      | 180      | 190      | 200      | 215      | 230      | 245      |
|                      | Circuits                           | Quantity |           |  |       | 2                |          |          |          |          |          |          |          |          |          |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  |       | 219.1            |          |          |          |          | 273      |          |          |          |          |
| Unit                 | Starting current                   | A        |           |  | A     | 0                |          |          |          |          |          |          |          |          |          |
|                      | Running current                    | Cooling  | A         |  | A     | 648              | 572      | 645      | 731      | 769      | 833      | 828      | 909      | 1,024    | 1,115    |
|                      | current                            | A        |           |  | A     | 782              | 720      | 744      | 803      | 851      | 899      | 997      | 1,103    | 1,217    | 1,330    |
| Power supply         | Phase/Hz/V                         |          |           |  | Hz/V  | 3/50/400         |          |          |          |          |          |          |          |          |          |

| EWFS-TZXSD           |                                    |          |           |  | 295   | 345              | 380    | 440    | 515    | 525    | 565    | 565    | 610    | 635    |        |        |
|----------------------|------------------------------------|----------|-----------|--|-------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER                 |                                    |          |           |  |       | 5.287            | 5.458  | 5.423  | 5.849  | 5.656  | 5.598  | 5.491  | 5.799  | 5.57   | 5.696  |        |
| Cooling capacity     | Nom.                               |          |           |  | kW    | 393.3            | 464.21 | 504.51 | 576.36 | 684.71 | 701.26 | 756.22 | 755.03 | 806.68 | 832.82 |        |
| Power input          | Cooling                            | Nom.     |           |  | kW    | 111.73           | 127.15 | 147.6  | 146.25 | 193.48 | 176.68 | 202.96 | 206.8  | 210.68 | 245.02 |        |
| Capacity control     | Method                             |          |           |  |       | Stepless         |        |        |        |        |        |        |        |        |        |        |
|                      | Minimum capacity                   |          |           |  | %     | 21.5             | 19     | 16.5   | 27.5   | 23     | 12.5   | 11.5   | 21.5   | 10.5   | 19     |        |
| EER                  |                                    |          |           |  |       | 3.52             | 3.65   | 3.42   | 3.94   | 3.54   | 3.97   | 3.73   | 3.65   | 3.83   | 3.4    |        |
| IPLV                 |                                    |          |           |  |       | 5.759            | 5.595  | 5.394  | 5.248  | 5.188  | 5.66   | 5.565  | 5.131  | 5.488  | 5.296  |        |
| Dimensions           | Unit                               | Height   |           |  | mm    | 2,553            |        |        |        |        |        |        |        |        |        |        |
|                      |                                    | Width    |           |  | mm    | 2,238            |        |        |        |        |        |        |        |        |        |        |
|                      |                                    | Depth    |           |  | mm    | 3,640            | 4,720  |        | 5,800  |        |        | 6,880  |        |        | 7,960  | 6,880  |
| Weight               | Unit                               |          |           |  | kg    | 3,307            | 3,846  |        | 4,720  |        |        | 5,254  |        | 5,315  | 5,763  | 5,315  |
|                      | Operation weight                   |          |           |  | kg    | 3,598            | 4,216  | 4,221  | 5,202  | 5,212  | 5,986  | 5,996  | 5,897  | 6,576  | 5,907  |        |
| Air heat exchanger   | Type                               |          |           |  |       | Microchannel     |        |        |        |        |        |        |        |        |        |        |
| Compressor           | Type                               |          |           |  |       | Screw compressor |        |        |        |        |        |        |        |        |        |        |
|                      | Quantity                           |          |           |  |       | 1                |        |        |        |        | 2      |        | 1      | 2      | 1      |        |
| Fan                  | Type                               |          |           |  |       | Direct propeller |        |        |        |        |        |        |        |        |        |        |
|                      | Quantity                           |          |           |  |       | 6                | 8      |        | 10     |        |        | 12     |        |        | 14     | 12     |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s   | 33,765           | 45,020 |        | 56,275 |        |        | 67,530 |        |        | 78,785 | 67,530 |
| Sound power level    | Cooling                            | Nom.     |           |  | dB(A) | 97.5             | 98.1   | 102.6  | 95.7   | 97.5   | 100.1  | 100.3  | 100.1  | 100.6  | 104.6  |        |
| Sound pressure level | Cooling                            | Nom.     |           |  | dB(A) | 79.9             | 81.8   | 82.8   | 74.6   | 75.8   | 78.9   | 80.2   | 76.2   | 81.2   | 76.6   |        |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  | °CDB  | 4 ~18            |        |        |        |        |        |        |        |        |        |        |
| Refrigerant          | Type/GWP                           |          |           |  |       | R-513A/630       |        |        |        |        |        |        |        |        |        |        |
|                      | Charge                             |          |           |  | kg    | 40               | 45     | 50     | 60     | 70     |        | 80     | 75     | 85     |        |        |
|                      | Circuits                           | Quantity |           |  |       | 1                |        |        |        |        | 2      |        | 1      | 2      | 1      |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  |       | 88.9             |        |        | 139.7  |        |        | 168.3  |        | 139.7  | 168.3  | 139.7  |
| Unit                 | Starting current                   | A        |           |  | A     | 0                |        |        |        |        |        |        |        |        |        |        |
|                      | Running current                    | Cooling  | A         |  | A     | 181              | 204    | 234    | 238    | 309    | 292    | 331    | 328    | 342    | 385    |        |
|                      | current                            | A        |           |  | A     | 224              | 261    | 289    | 314    | 342    | 389    | 429    | 404    | 457    | 452    |        |
| Power supply         | Phase/Hz/V                         |          |           |  |       | 3/50/400         |        |        |        |        |        |        |        |        |        |        |



MicroTech 4



EWFS-TZXSD

| EWFS-TZXSD           |                                    |          |           |  | 670              | 705      | 725    | 760    | 805    | 880      | 950      |          |        |
|----------------------|------------------------------------|----------|-----------|--|------------------|----------|--------|--------|--------|----------|----------|----------|--------|
| SEER                 |                                    |          |           |  | 5.47             | 5.285    | 5.52   | 5.158  | 5.693  | 5.53     | 5.674    |          |        |
| Cooling capacity     | Nom.                               |          |           |  | kW               | 870.58   | 912.51 | 937.25 | 967.69 | 1,038.12 | 1,125.04 | 1,220.64 |        |
| Power input          | Cooling                            | Nom.     |           |  |                  | kW       | 242.16 | 261.99 | 266.26 | 298.67   | 280.04   | 301.94   | 354.22 |
| Capacity control     | Method                             |          |           |  | Stepless         |          |        |        |        |          |          |          |        |
|                      | Minimum capacity                   |          |           |  | %                | 10       | 30     | 10     | 27.5   | 10       | 13.5     | 12.5     |        |
| EER                  |                                    |          |           |  | 3.6              | 3.48     | 3.52   | 3.24   | 3.71   | 3.73     | 3.45     |          |        |
| IPLV                 |                                    |          |           |  | 5.498            | 5.22     | 5.5    | 5.811  | 5.594  | 5.57     | 5.485    |          |        |
| Dimensions           | Unit                               | Height   |           |  |                  | mm       | 2,553  |        |        |          |          |          |        |
|                      |                                    | Width    |           |  |                  | mm       | 2,238  |        |        |          |          |          |        |
|                      |                                    | Depth    |           |  |                  | mm       | 7,960  | 6,880  | 7,960  | 6,880    | 9,040    |          |        |
| Weight               | Unit                               |          |           |  | kg               | 5,763    | 5,984  | 5,834  | 5,984  | 6,624    | 6,881    |          |        |
|                      | Operation weight                   |          |           |  | kg               | 6,581    | 6,586  | 6,704  | 6,596  | 7,753    | 8,019    | 8,029    |        |
| Air heat exchanger   | Type                               |          |           |  | Microchannel     |          |        |        |        |          |          |          |        |
| Compressor           | Type                               |          |           |  | Screw compressor |          |        |        |        |          |          |          |        |
|                      | Quantity                           |          |           |  | 2                | 1        | 2      | 1      | 2      |          |          |          |        |
| Fan                  | Type                               |          |           |  | Direct propeller |          |        |        |        |          |          |          |        |
|                      | Quantity                           |          |           |  | 14               | 12       | 14     | 12     | 16     |          |          |          |        |
|                      | Air flow rate                      | Cooling  | Nom.      |  | l/s              | 78,785   | 67,530 | 78,785 | 67,530 | 90,040   |          |          |        |
| Sound power level    | Cooling                            | Nom.     |           |  |                  | dBA      | 100.9  | 99     | 102.3  | 99.8     | 104.6    | 98.4     | 100.3  |
| Sound pressure level | Cooling                            | Nom.     |           |  |                  | dBA      | 83.3   | 77.8   | 83.8   | 78.6     | 83.9     | 76.1     | 76.5   |
| Operation range      | Air side                           | Cooling  | Min.~Max. |  |                  |          | °CDB   | 4 ~18  |        |          |          |          |        |
| Refrigerant          | Type/GWP                           |          |           |  | R-513A/630       |          |        |        |        |          |          |          |        |
|                      | Charge                             |          |           |  | kg               | 90       | 95     | 100    | 105    | 110      | 120      | 130      |        |
|                      | Circuits                           | Quantity |           |  |                  | 2        | 1      | 2      | 1      | 2        |          |          |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |  |                  | 168.3    | 139.7  | 168.3  | 139.7  | 219.1    |          |          |        |
| Unit                 | Starting current                   |          |           |  | A                | 0        |        |        |        |          |          |          |        |
|                      | Running current                    | Cooling  |           |  |                  | A        | 389    | 415    | 425    | 469      | 446      | 491      | 569    |
|                      |                                    |          |           |  | A                | 498      | 520    | 535    | 568    | 573      | 626      | 683      |        |
| Power supply         | Phase/Hz/V                         |          |           |  |                  | 3/50/400 |        |        |        |          |          |          |        |

# Air cooled Inverter screw free cooling with PLATINUM efficiency. Standard sound.

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant-cooled inverter mounted on the compressor across the entire range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

| EWFS-TZPSD           |                                    |          |           | 10   | 10               | 11       | 12       | 12       | 13       | 14       | 15       | 285      | 330    |          |         |  |
|----------------------|------------------------------------|----------|-----------|------|------------------|----------|----------|----------|----------|----------|----------|----------|--------|----------|---------|--|
| SEER                 |                                    |          |           |      | 5,687            | 6,078    | 6,041    | 6,011    | 5,921    | 5,886    | 5,12     | 5,622    | 5,743  | 5,964    |         |  |
| Cooling capacity     | Nom.                               |          |           | kW   | 1,381.36         | 1,302.53 | 1,446.85 | 1,537.35 | 1,651.82 | 1,785.62 | 1,875.03 | 1,970.53 | 379.75 | 447.65   |         |  |
| Power input          | Cooling                            | Nom.     |           | kW   | 382.23           | 343.58   | 398.36   | 435.51   | 480.74   | 519.68   | 514.84   | 571.83   | 90.57  | 109.69   |         |  |
| Capacity control     | Method                             |          |           |      | Stepless         |          |          |          |          |          |          |          |        |          |         |  |
|                      | Minimum capacity                   |          |           | %    | 10.5             | 11.5     | 10.5     |          | 10       |          | 15       | 13.5     | 23     | 20       |         |  |
| EER                  |                                    |          |           |      | 3.61             | 3.79     | 3.63     | 3.53     | 3.44     |          | 3.64     | 3.45     | 4.19   | 4.08     |         |  |
| IPLV                 |                                    |          |           |      | 6.156            | 6.287    | 6.119    | 6.152    | 6.299    | 6.124    | 5.955    | 5.832    | 6.447  | 6.205    |         |  |
| Dimensions           | Unit                               | Height   | mm        |      | 2,553            |          |          |          |          |          |          |          |        |          |         |  |
|                      |                                    | Width    |           | mm   | 2,238            |          |          |          |          |          |          |          |        |          |         |  |
|                      |                                    | Depth    |           |      | mm               | 11,200   |          | 12,280   |          |          | 13,360   |          |        | 4,720    | 5,800   |  |
| Weight               | Unit                               |          |           | kg   | 7,900            |          | 8,521    |          | 8,892    | 9,402    | 10,070   |          | 3,846  | 4,356    |         |  |
|                      | Operation weight                   |          |           | kg   | 9,199            | 9,189    | 9,971    | 9,976    | 10,816   | 11,401   | 12,085   | 12,100   | 4,211  | 4,791    |         |  |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |          |          |          |          |          |          |          |        |          |         |  |
| Compressor           | Type                               |          |           |      | Screw compressor |          |          |          |          |          |          |          |        |          |         |  |
|                      | Quantity                           |          |           |      | 2                |          |          |          |          |          |          |          |        |          | 1       |  |
| Fan                  | Type                               |          |           |      | Direct propeller |          |          |          |          |          |          |          |        |          |         |  |
|                      | Quantity                           |          |           |      | 20               |          | 22       |          |          | 24       |          |          | 8      | 10       |         |  |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 112,550          |          | 123,805  |          |          | 135,060  |          |          | 45,020 | 56,275   |         |  |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 102.4            | 101.1    | 103      | 105.2    | 107.5    | 106.2    | 102      | 102.8    | 97.5   | 98.1     |         |  |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 77.3             | 76.6     | 77.4     | 77.7     | 77.9     | 78.9     |          | 79.7     | 78.2   | 81       |         |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | 4 ~18            |          |          |          |          |          |          |          |        |          |         |  |
| Refrigerant          | Type/GWP                           |          |           |      | R-513A/630       |          |          |          |          |          |          |          |        |          |         |  |
|                      | Charge                             |          |           | kg   | 150              | 140      | 160      | 165      | 180      | 190      | 205      | 220      | 40     | 45       |         |  |
|                      | Circuits                           | Quantity |           |      | 2                |          |          |          |          |          |          |          |        |          | 1       |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 219.1            |          |          |          | 273      |          |          |          | 88.9   |          |         |  |
| Unit                 | Starting current                   |          |           | A    | 0                |          |          |          |          |          |          |          |        |          |         |  |
|                      | Running current                    | Cooling  |           | A    | 610              | 553      | 634      | 689      | 757      | 814      | 816      | 900      | 149    | 178      |         |  |
|                      |                                    |          |           | A    | 761              | 709      | 796      | 845      | 893      | 951      | 1,039    | 1,135    | 220    | 258      |         |  |
| Power supply         | Phase/Hz/V                         |          |           |      | 3/50/400         |          |          |          |          |          |          |          |        |          |         |  |
| EWFS-TZPSD           |                                    |          |           | 370  | 405              | 450      | 490      | 530      | 575      | 615      | 675      | 735      | 810    |          |         |  |
| SEER                 |                                    |          |           |      | 5.882            | 6.268    | 6.216    | 6.048    | 5.945    | 5.862    | 5.852    | 5.73     | 5.785  | 6.009    |         |  |
| Cooling capacity     | Nom.                               |          |           | kW   | 484.81           | 550.07   | 613.91   | 660.58   | 709.07   | 778.68   | 838.36   | 887.49   | 962.15 | 1,068.99 |         |  |
| Power input          | Cooling                            | Nom.     |           | kW   | 125.7            | 126.13   | 145.13   | 161.16   | 170.65   | 194.82   | 212.73   | 231.24   | 257.6  | 273.19   |         |  |
| Capacity control     | Method                             |          |           |      | Stepless         |          |          |          |          |          |          |          |        |          |         |  |
|                      | Minimum capacity                   |          |           | %    | 17.5             | 30       | 27.5     | 25       | 12.5     | 11.5     | 10.5     | 10       |        |          |         |  |
| EER                  |                                    |          |           |      | 3.86             | 4.36     | 4.23     | 4.1      | 4.16     | 4        | 3.94     | 3.84     | 3.73   | 3.91     |         |  |
| IPLV                 |                                    |          |           |      | 5.786            | 5.655    | 6.054    | 5.949    | 6.001    | 5.87     | 5.962    | 6.219    | 6.346  | 6.142    |         |  |
| Dimensions           | Unit                               | Height   | mm        |      | 2,553            |          |          |          |          |          |          |          |        |          |         |  |
|                      |                                    | Width    |           | mm   | 2,238            |          |          |          |          |          |          |          |        |          |         |  |
|                      |                                    | Depth    |           |      | mm               | 5,800    | 6,880    |          |          | 7,960    |          | 9,040    |        |          | 10,120  |  |
| Weight               | Unit                               |          |           | kg   | 4,356            | 5,229    | 5,315    |          | 5,763    |          | 6,273    |          | 6,344  | 7,134    |         |  |
|                      | Operation weight                   |          |           | kg   | 4,796            | 5,771    | 5,882    | 5,887    | 6,566    | 6,571    | 7,151    | 7,161    | 7,279  | 8,327    |         |  |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |          |          |          |          |          |          |          |        |          |         |  |
| Compressor           | Type                               |          |           |      | Screw compressor |          |          |          |          |          |          |          |        |          |         |  |
|                      | Quantity                           |          |           |      | 1                |          |          |          | 2        |          |          |          |        |          |         |  |
| Fan                  | Type                               |          |           |      | Direct propeller |          |          |          |          |          |          |          |        |          |         |  |
|                      | Quantity                           |          |           |      | 10               | 12       |          |          | 14       |          |          | 16       |        |          | 18      |  |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 56,275           | 67,530   |          |          | 78,785   |          |          | 90,040   |        |          | 101,295 |  |
| Sound power level    | Cooling                            | Nom.     |           | dBA  | 100.4            | 94.7     | 96       | 97.7     | 100.2    | 100.4    | 100.7    | 101      | 102.3  | 104.6    |         |  |
| Sound pressure level | Cooling                            | Nom.     |           | dBA  | 81.9             | 74.2     | 74.5     | 74.9     | 78.6     | 79.9     | 80.9     | 83       | 83.4   | 83.6     |         |  |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | 4 ~18            |          |          |          |          |          |          |          |        |          |         |  |
| Refrigerant          | Type/GWP                           |          |           |      | R-513A/630       |          |          |          |          |          |          |          |        |          |         |  |
|                      | Charge                             |          |           | kg   | 50               | 55       | 60       | 65       | 75       | 80       | 85       | 95       | 100    | 110      |         |  |
|                      | Circuits                           | Quantity |           |      | 1                |          |          |          | 2        |          |          |          |        |          |         |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 88.9             | 139.7    |          |          | 168.3    |          |          |          | 219.1  |          |         |  |
| Unit                 | Starting current                   |          |           | A    | 0                |          |          |          |          |          |          |          |        |          |         |  |
|                      | Running current                    | Cooling  |           | A    | 202              | 208      | 237      | 261      | 283      | 319      | 345      | 373      | 412    | 435      |         |  |
|                      |                                    |          |           | A    | 285              | 293      | 352      | 404      | 399      | 429      | 468      | 508      | 535    | 573      |         |  |
| Power supply         | Phase/Hz/V                         |          |           |      | 3/50/400         |          |          |          |          |          |          |          |        |          |         |  |



MicroTech 4

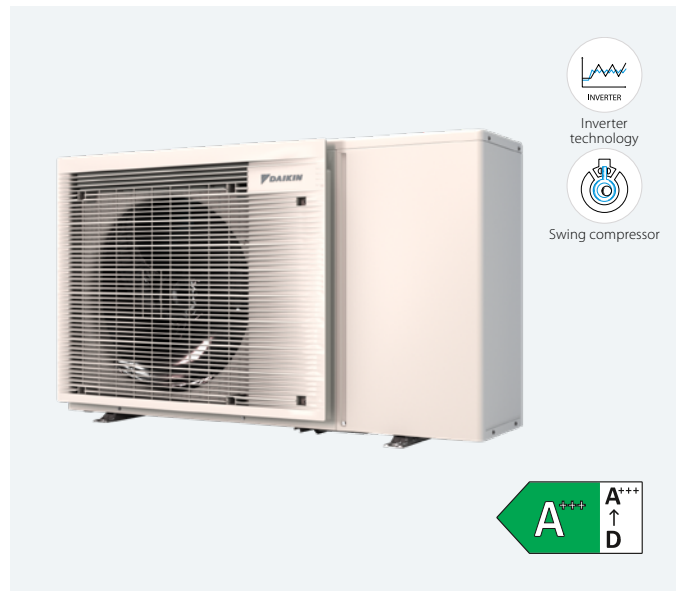


EWFS-TZPSD

| EWFS-TZPSD           |                                    |          |           |      | 890              | 960      |
|----------------------|------------------------------------|----------|-----------|------|------------------|----------|
| SEER                 |                                    |          |           |      | 6.196            | 5.371    |
| Cooling capacity     | Nom.                               |          | kW        |      | 1,159.77         | 1,236.49 |
| Power input          | Cooling                            | Nom.     | kW        |      | 296.39           | 332.66   |
| Capacity control     | Method                             |          |           |      | Stepless         |          |
|                      | Minimum capacity                   |          | %         |      | 13.5             | 12.5     |
| EER                  |                                    |          |           |      | 3.91             | 3.72     |
| IPLV                 |                                    |          |           |      | 6.314            | 6.136    |
| Dimensions           | Unit                               | Height   | mm        |      | 2,553            |          |
|                      |                                    | Width    | mm        |      | 2,238            |          |
|                      |                                    | Depth    | mm        |      | 10,120           |          |
| Weight               | Unit                               |          | kg        |      | 7,390            |          |
|                      | Operation weight                   |          | kg        |      | 8,594            | 8,604    |
| Air heat exchanger   | Type                               |          |           |      | Microchannel     |          |
| Compressor           | Type                               |          |           |      | Screw compressor |          |
|                      | Quantity                           |          |           |      | 2                |          |
| Fan                  | Type                               |          |           |      | Direct propeller |          |
|                      | Quantity                           |          |           |      | 18               |          |
|                      | Air flow rate                      | Cooling  | Nom.      | l/s  | 101,295          |          |
| Sound power level    | Cooling                            | Nom.     | dBA       |      | 98.6             | 100.4    |
| Sound pressure level | Cooling                            | Nom.     | dBA       |      | 75.9             | 76.3     |
| Operation range      | Air side                           | Cooling  | Min.~Max. | °CDB | 4 ~18            |          |
| Refrigerant          | Type/GWP                           |          |           |      | R-513A/630       |          |
|                      | Charge                             |          |           | kg   | 120              | 130      |
|                      | Circuits                           | Quantity |           |      | 2                |          |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |           |      | 219.1            |          |
| Unit                 | Starting current                   |          |           | A    | 0                |          |
|                      | Running current                    | Cooling  |           | A    | 483              | 537      |
|                      |                                    |          |           | A    | 616              | 672      |
| Power supply         | Phase/Hz/V                         |          |           |      | 3/50/400         |          |

# Air cooled mini inverter heat pump

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Inverter chiller
- Hermetically sealed swing inverter compressor
- Separate MMI-2 controller for indoor installation



EWYA-DV3P

| Heating & Cooling    |                                   |         |           | EWYA-DV3P | 004                                  | 006               | 008               |
|----------------------|-----------------------------------|---------|-----------|-----------|--------------------------------------|-------------------|-------------------|
| Space cooling        | A Condition Pdc                   |         |           | kW        | 4.52                                 | 5.09              | 5.44              |
|                      | 35°C                              |         |           |           |                                      |                   |                   |
| Space heating        | ηs,c                              |         |           | %         | 213                                  | 215               |                   |
|                      | Average climate water outlet 35°C |         |           |           |                                      |                   |                   |
| General              | SCOP                              |         |           |           | 4.54                                 | 4.52              | 4.61              |
|                      | Seasonal space heating eff. class |         |           |           |                                      | A+++              |                   |
| Cooling capacity     | Nom.                              |         |           | kW        | 4.86 (1)/4.52 (2)                    | 5.83 (1)/5.09 (2) | 6.18 (1)/5.44 (2) |
| Heating capacity     | Nom.                              |         |           | kW        | 4.30 (1)/4.60 (2)                    | 6.00 (1)/5.90 (2) | 7.50 (1)/7.80 (2) |
| Power input          | Cooling                           | Nom.    |           | kW        | 0.820 (1)/1.36 (2)                   | 1.08 (1)/1.55 (2) | 1.19 (1)/1.73 (2) |
|                      | Heating                           | Nom.    |           | kW        | 0.840 (1)/1.26 (2)                   | 1.24 (1)/1.69 (2) | 1.63 (1)/2.23 (2) |
| Capacity control     | Method                            |         |           |           | Variable (inverter)                  |                   |                   |
| EER                  |                                   |         |           |           | 5.91 (1)/3.32 (2)                    | 5.40 (1)/3.28 (2) | 5.19 (1)/3.14 (2) |
| COP                  |                                   |         |           |           | 5.10 (1)/3.65 (2)                    | 4.85 (1)/3.50 (2) | 4.60 (1)/3.50 (2) |
| Dimensions           | Unit                              | Height  |           | mm        | 770                                  |                   |                   |
|                      |                                   | Width   |           | mm        | 1,250                                |                   |                   |
|                      |                                   | Depth   |           | mm        | 362                                  |                   |                   |
| Weight               | Unit                              |         |           | kg        | 88                                   |                   |                   |
| Water heat exchanger | Type                              |         |           |           | Plate heat exchanger                 |                   |                   |
|                      | Water volume                      |         |           | l         | 1                                    |                   |                   |
| Compressor           | Type                              |         |           |           | Hermetically sealed swing compressor |                   |                   |
|                      | Quantity                          |         |           |           | 1                                    |                   |                   |
| Fan                  | Type                              |         |           |           | Propeller fan                        |                   |                   |
|                      | Quantity                          |         |           |           | 1                                    |                   |                   |
| Sound power level    | Cooling                           | Nom.    |           | dBA       | 61                                   | 62                |                   |
|                      | Heating                           | Nom.    |           | dBA       | 58                                   | 60                | 62                |
| Sound pressure level | Cooling                           | Nom.    |           | dBA       | 48                                   | 49                | 50                |
|                      | Heating                           | Nom.    |           | dBA       | 44                                   | 47                | 49                |
| Operation range      | Air side                          | Cooling | Min.~Max. | °CDB      | 10 (3)~43                            |                   |                   |
|                      |                                   | Heating | Min.~Max. | °CDB      | -25 ~25                              |                   |                   |
| Refrigerant          | Type/GWP                          |         |           |           | R-32/675                             |                   |                   |
|                      | Charge                            |         |           | kg        | 1.35                                 |                   |                   |
| Power supply         | Phase/Frequency/Voltage           |         |           | Hz/V      | 1~/50 /230 +/-10%                    |                   |                   |

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3)For more details, see operation range drawing



# Air cooled mini inverter heat pump

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Inverter chiller
- Hermetically sealed swing inverter compressor
- Separate MMI-2 controller for indoor installation



EWYA-DV3P

| Heating & Cooling                                                                                 |                                   |          |                                   | EWYA-DV3P | 009                                                       | 011               | 014               | 016               |
|---------------------------------------------------------------------------------------------------|-----------------------------------|----------|-----------------------------------|-----------|-----------------------------------------------------------|-------------------|-------------------|-------------------|
| Space cooling                                                                                     | A Condition Pdc 35°C              |          |                                   | kW        | 9.35                                                      | 11.6              | 12.8              | 14.0              |
|                                                                                                   | ηs,c                              |          |                                   | %         | 222                                                       | 229               | 226               | 221               |
| SEER                                                                                              |                                   |          |                                   |           | 5.62 (5)                                                  | 5.79 (5)          | 5.71 (5)          | 5.59 (5)          |
|  Space heating | Average climate water outlet 35°C | General  | SCOP                              | 4.82      | 4.73                                                      | 4.70              | 4.69              |                   |
|                                                                                                   |                                   |          | Seasonal space heating eff. class | A+++      |                                                           |                   |                   |                   |
| Cooling capacity                                                                                  | Nom.                              |          |                                   | kW        | 9.35 (1)/9.10 (2)                                         | 11.6 (1)/11.5 (2) | 12.8 (1)/12.7 (2) | 14.0 (1)/15.3 (2) |
| Heating capacity                                                                                  | Nom.                              |          |                                   | kW        | 9.37 (3)/9.00 (4)                                         | 10.6 (3)/9.82 (4) | 12.0 (3)/12.5 (4) | 16.0 (3)/16.0 (4) |
| Power input                                                                                       | Cooling                           | Nom.     |                                   | kW        | 2.79 (1)/1.71 (2)                                         | 3.56 (1)/2.17 (2) | 4.06 (1)/2.51 (2) | 4.58 (1)/3.24 (2) |
|                                                                                                   | Heating                           | Nom.     |                                   | kW        | 1.91 (3)/2.43 (4)                                         | 2.18 (3)/2.68 (4) | 2.46 (3)/3.42 (4) | 3.53 (3)/4.56 (4) |
| Capacity control                                                                                  | Method                            |          |                                   |           | Variable (inverter)                                       |                   |                   |                   |
| EER                                                                                               |                                   |          |                                   |           | 3.35 (1)/5.34 (2)                                         | 3.26 (1)/5.31 (2) | 3.16 (1)/5.04 (2) | 3.06 (1)/4.74 (2) |
| COP                                                                                               |                                   |          |                                   |           | 4.91 (3)/3.71 (4)                                         | 4.83 (3)/3.66 (4) | 4.87 (3)/3.64 (4) | 4.53 (3)/3.51 (4) |
| Dimensions                                                                                        | Unit                              | Height   |                                   | mm        | 870                                                       |                   |                   |                   |
|                                                                                                   |                                   | Width    |                                   | mm        | 1,380                                                     |                   |                   |                   |
|                                                                                                   |                                   | Depth    |                                   | mm        | 460                                                       |                   |                   |                   |
| Weight                                                                                            | Unit                              |          |                                   | kg        | 147                                                       |                   |                   |                   |
| Water heat exchanger                                                                              | Type                              |          |                                   |           | Plate heat exchanger                                      |                   |                   |                   |
|                                                                                                   | Water volume                      |          |                                   |           | 2                                                         |                   |                   |                   |
| Air heat exchanger                                                                                | Type                              |          |                                   |           | High efficiency fin and tube type with integral subcooler |                   |                   |                   |
| Compressor                                                                                        | Type                              |          |                                   |           | Hermetically sealed swing inverter compressor             |                   |                   |                   |
|                                                                                                   | Quantity                          |          |                                   |           | 1                                                         |                   |                   |                   |
| Fan                                                                                               | Type                              |          |                                   |           | Propeller fan                                             |                   |                   |                   |
|                                                                                                   | Quantity                          |          |                                   |           | 1                                                         |                   |                   |                   |
|                                                                                                   | Air flow rate                     | Cooling  | Nom.                              | m³/min    | 63                                                        | 70                | 85                |                   |
|                                                                                                   |                                   | Heating  | Nom.                              | m³/min    | 48.0                                                      | 55.8              | 70.4              | 85.0              |
| Sound power level                                                                                 | Cooling                           | Nom.     |                                   | dBA       | 65.5                                                      | 67.0              | 69.0              |                   |
| Sound pressure level                                                                              | Cooling                           | Nom.     |                                   | dBA       | 44.0                                                      | 47.7              | 50.8              | 51.0              |
| Operation range                                                                                   | Air side                          | Cooling  | Min.~Max.                         | °CDB      | 10 ~43                                                    |                   |                   |                   |
|                                                                                                   |                                   | Heating  | Min.~Max.                         | °CDB      | -25 ~25                                                   |                   |                   |                   |
| Refrigerant                                                                                       | Type/GWP                          |          |                                   |           | R-32/675.0                                                |                   |                   |                   |
|                                                                                                   | Control                           |          |                                   |           | Electronic expansion valve                                |                   |                   |                   |
|                                                                                                   | Circuits                          | Quantity |                                   |           |                                                           | 1                 |                   |                   |
| Refrigerant charge                                                                                | Per circuit                       |          |                                   | kg        | 3.80                                                      |                   |                   |                   |
| Unit                                                                                              | Running current                   | Max      |                                   | A         | 30.8                                                      |                   |                   |                   |
| Power supply                                                                                      | Phase/Frequency/Voltage           |          |                                   | Hz/V      | 1~/50/230                                                 |                   |                   |                   |

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | (5)According to EN14825 | For more details, see operation range drawing | Depends on operation mode, refer to installation manual.

# Air cooled mini inverter heat pump

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWYA-DW1P

| Heating & Cooling    |                              |          |           | EWYA-DW1P                         | 009                                                       | 011               | 014               | 016               |
|----------------------|------------------------------|----------|-----------|-----------------------------------|-----------------------------------------------------------|-------------------|-------------------|-------------------|
| Space cooling        | A Condition Pdc              |          |           | kW                                | 9.35                                                      | 11.6              | 12.8              | 14.0              |
|                      | 35°C                         |          |           |                                   |                                                           |                   |                   |                   |
|                      | ηs,c                         |          |           | %                                 | 222                                                       | 229               | 226               | 221               |
| SEER                 |                              |          |           |                                   | 5.62 (5)                                                  | 5.79 (5)          | 5.71 (5)          | 5.59 (5)          |
| Space heating        | Average climate water outlet | General  | SCOP      | Seasonal space heating eff. class | 4.82                                                      | 4.73              | 4.70              | 4.69              |
|                      | 35°C                         |          |           |                                   | A+++                                                      |                   |                   |                   |
| Cooling capacity     | Nom.                         |          |           | kW                                | 9.35 (1)/9.10 (2)                                         | 11.6 (1)/11.5 (2) | 12.8 (1)/12.7 (2) | 14.0 (1)/15.3 (2) |
| Heating capacity     | Nom.                         |          |           | kW                                | 9.37 (3)/9.00 (4)                                         | 10.6 (3)/9.82 (4) | 12.0 (3)/12.5 (4) | 16.0 (3)/16.0 (4) |
| Power input          | Cooling                      |          |           | kW                                | 2.79 (1)/1.71 (2)                                         | 3.56 (1)/2.17 (2) | 4.06 (1)/2.51 (2) | 4.58 (1)/3.24 (2) |
|                      | Heating                      |          |           | kW                                | 1.91 (3)/2.43 (4)                                         | 2.18 (3)/2.68 (4) | 2.46 (3)/3.42 (4) | 3.53 (3)/4.56 (4) |
| Capacity control     | Method                       |          |           |                                   | Variable (inverter)                                       |                   |                   |                   |
| EER                  |                              |          |           |                                   | 3.35 (1)/5.34 (2)                                         | 3.26 (1)/5.31 (2) | 3.16 (1)/5.04 (2) | 3.06 (1)/4.74 (2) |
| COP                  |                              |          |           |                                   | 4.91 (3)/3.71 (4)                                         | 4.83 (3)/3.66 (4) | 4.87 (3)/3.64 (4) | 4.53 (3)/3.51 (4) |
| Dimensions           | Unit                         | Height   |           |                                   | 870                                                       |                   |                   |                   |
|                      |                              | Width    |           |                                   | 1,380                                                     |                   |                   |                   |
|                      |                              | Depth    |           |                                   | 460                                                       |                   |                   |                   |
| Weight               | Unit                         |          |           | kg                                | 147                                                       |                   |                   |                   |
| Water heat exchanger | Type                         |          |           |                                   | Plate heat exchanger                                      |                   |                   |                   |
|                      | Water volume                 |          |           | l                                 | 2                                                         |                   |                   |                   |
| Air heat exchanger   | Type                         |          |           |                                   | High efficiency fin and tube type with integral subcooler |                   |                   |                   |
| Compressor           | Type                         |          |           |                                   | Hermetically sealed swing inverter compressor             |                   |                   |                   |
|                      | Quantity                     |          |           |                                   | 1                                                         |                   |                   |                   |
| Fan                  | Type                         |          |           |                                   | Propeller fan                                             |                   |                   |                   |
|                      | Quantity                     |          |           |                                   | 1                                                         |                   |                   |                   |
| Air flow rate        | Cooling                      | Nom.     |           |                                   | 63                                                        | 70                | 85                |                   |
|                      | Heating                      | Nom.     |           |                                   | 48.0                                                      | 55.8              | 70.4              | 85.0              |
| Sound power level    | Cooling                      | Nom.     |           |                                   | 65.5                                                      | 67.0              | 69.0              |                   |
| Sound pressure level | Cooling                      | Nom.     |           |                                   | 44.0                                                      | 47.7              | 50.8              | 51.0              |
| Operation range      | Air side                     | Cooling  | Min.~Max. | °CDB                              | 10 ~43                                                    |                   |                   |                   |
|                      |                              | Heating  | Min.~Max. | °CDB                              | -25 ~25                                                   |                   |                   |                   |
|                      | Water side                   | Cooling  | Min.~Max. | °CDB                              | 5 ~22                                                     |                   |                   |                   |
|                      |                              | Heating  | Min.~Max. | °CDB                              | 9 (6)~60 (6)                                              |                   |                   |                   |
| Refrigerant          | Type/GWP                     |          |           |                                   | R-32/675.0                                                |                   |                   |                   |
|                      | Control                      |          |           |                                   | Electronic expansion valve                                |                   |                   |                   |
|                      | Circuits                     | Quantity |           |                                   | 1                                                         |                   |                   |                   |
| Refrigerant charge   | Per circuit                  |          |           |                                   | kg                                                        | 3.80              |                   |                   |
|                      |                              |          |           |                                   | TCCO2Eq                                                   | 2.6               |                   |                   |
| Unit                 | Running current              | Max      |           |                                   | A                                                         | 14.0              |                   |                   |
| Power supply         | Phase/Frequency/Voltage      |          |           |                                   | Hz/V                                                      | 3~/50/400         |                   |                   |

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | (5)According to EN14825 | (6)For more details, see operation range drawing | Depends on operation mode, refer to installation manual.

# Air cooled mini inverter heat pump

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWYA-DWIP-H-

| Heating & Cooling                                                                                 |                                   |          |                                   | EWYA-DW1P-H-                                              | 009               | 011               | 014               | 016 |
|---------------------------------------------------------------------------------------------------|-----------------------------------|----------|-----------------------------------|-----------------------------------------------------------|-------------------|-------------------|-------------------|-----|
| Space cooling                                                                                     | A Condition Pdc                   |          | kW                                | 9.35                                                      | 11.6              | 12.8              | 14.0              |     |
|                                                                                                   | 35°C                              |          |                                   |                                                           |                   |                   |                   |     |
|                                                                                                   | ηs,c                              |          | %                                 | 222                                                       | 229               | 226               | 221               |     |
| SEER                                                                                              |                                   |          |                                   | 5.62 (5)                                                  | 5.79 (5)          | 5.71 (5)          | 5.59 (5)          |     |
|  Space heating | Average climate water outlet 35°C | General  | SCOP                              | 4.82                                                      | 4.73              | 4.70              | 4.69              |     |
|                                                                                                   |                                   |          | Seasonal space heating eff. class | A+++                                                      |                   |                   |                   |     |
| Cooling capacity                                                                                  | Nom.                              |          | kW                                | 9.35 (1)/9.10 (2)                                         | 11.6 (1)/11.5 (2) | 12.8 (1)/12.7 (2) | 14.0 (1)/15.3 (2) |     |
| Heating capacity                                                                                  | Nom.                              |          | kW                                | 9.37 (3)/9.00 (4)                                         | 10.6 (3)/9.82 (4) | 12.0 (3)/12.5 (4) | 16.0 (3)/16.0 (4) |     |
| Power input                                                                                       | Cooling                           |          | kW                                | 2.79 (1)/1.71 (2)                                         | 3.56 (1)/2.17 (2) | 4.06 (1)/2.51 (2) | 4.58 (1)/3.24 (2) |     |
|                                                                                                   | Heating                           |          | kW                                | 1.91 (3)/2.43 (4)                                         | 2.18 (3)/2.68 (4) | 2.46 (3)/3.42 (4) | 3.53 (3)/4.56 (4) |     |
| Capacity control                                                                                  | Method                            |          |                                   | Variable (inverter)                                       |                   |                   |                   |     |
| EER                                                                                               |                                   |          |                                   | 3.35 (1)/5.34 (2)                                         | 3.26 (1)/5.31 (2) | 3.16 (1)/5.04 (2) | 3.06 (1)/4.74 (2) |     |
| COP                                                                                               |                                   |          |                                   | 4.91 (3)/3.71 (4)                                         | 4.83 (3)/3.66 (4) | 4.87 (3)/3.64 (4) | 4.53 (3)/3.51 (4) |     |
| Dimensions                                                                                        | Unit                              | Height   | mm                                | 870                                                       |                   |                   |                   |     |
|                                                                                                   |                                   | Width    | mm                                | 1,380                                                     |                   |                   |                   |     |
|                                                                                                   |                                   | Depth    | mm                                | 460                                                       |                   |                   |                   |     |
| Weight                                                                                            | Unit                              |          |                                   | kg                                                        | 147               |                   |                   |     |
| Water heat exchanger                                                                              | Type                              |          |                                   | Plate heat exchanger                                      |                   |                   |                   |     |
|                                                                                                   | Water volume                      |          |                                   | l                                                         | 2                 |                   |                   |     |
| Air heat exchanger                                                                                | Type                              |          |                                   | High efficiency fin and tube type with integral subcooler |                   |                   |                   |     |
| Compressor                                                                                        | Type                              |          |                                   | Hermetically sealed swing inverter compressor             |                   |                   |                   |     |
|                                                                                                   | Quantity                          |          |                                   | 1                                                         |                   |                   |                   |     |
| Fan                                                                                               | Type                              |          |                                   | Propeller fan                                             |                   |                   |                   |     |
|                                                                                                   | Quantity                          |          |                                   | 1                                                         |                   |                   |                   |     |
|                                                                                                   | Air flow rate                     | Cooling  | Nom.                              | m³/min                                                    | 63                | 70                | 85                |     |
|                                                                                                   |                                   | Heating  | Nom.                              | m³/min                                                    | 48.0              | 55.8              | 85.0              |     |
| Sound power level                                                                                 | Cooling                           | Nom.     |                                   | dBA                                                       | 65.5              | 67.0              | 69.0              |     |
| Sound pressure level                                                                              | Cooling                           | Nom.     |                                   | dBA                                                       | 44.0              | 47.7              | 51.0              |     |
| Operation range                                                                                   | Air side                          | Cooling  | Min.~Max.                         | °CDB                                                      | 10 ~43            |                   |                   |     |
|                                                                                                   |                                   | Heating  | Min.~Max.                         | °CDB                                                      | -25 ~25           |                   |                   |     |
|                                                                                                   | Water side                        | Cooling  | Min.~Max.                         | °CDB                                                      | 5 ~22             |                   |                   |     |
|                                                                                                   |                                   | Heating  | Min.~Max.                         | °CDB                                                      | 9 (6)~60 (6)      |                   |                   |     |
| Refrigerant                                                                                       | Type/GWP                          |          |                                   | R-32/675.0                                                |                   |                   |                   |     |
|                                                                                                   | Control                           |          |                                   | Electronic expansion valve                                |                   |                   |                   |     |
|                                                                                                   | Circuits                          | Quantity |                                   | 1                                                         |                   |                   |                   |     |
| Refrigerant charge                                                                                | Per circuit                       |          |                                   | kg                                                        | 3.80              |                   |                   |     |
|                                                                                                   |                                   |          |                                   | TCO2Eq                                                    | 2.6               |                   |                   |     |
| Unit                                                                                              | Running current                   | Max      |                                   | A                                                         | 14.0              |                   |                   |     |
| Power supply                                                                                      | Phase/Frequency/Voltage           |          |                                   | Hz/V                                                      | 3~/50/400         |                   |                   |     |

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | (5)According to EN14825 | (6)For more details, see operation range drawing | Depends on operation mode, refer to installation manual.

# Air cooled mini inverter heat pump

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWYA-DV3P-H-

| Heating & Cooling                                                                                 |                                   |          |                                   | EWYA-D | 004DV3P-H                            | 006DV3P-H       | 008DV3P-H       |
|---------------------------------------------------------------------------------------------------|-----------------------------------|----------|-----------------------------------|--------|--------------------------------------|-----------------|-----------------|
| Space cooling                                                                                     | A Condition Pdc                   |          |                                   | kW     |                                      | -               |                 |
|                                                                                                   | 35°C                              |          |                                   | %      |                                      | -               |                 |
| SEER                                                                                              |                                   |          |                                   |        |                                      | -               |                 |
|  Space heating | Average climate water outlet 35°C | General  | SCOP                              |        | 4.54                                 | 4.52            | 4.61            |
|                                                                                                   |                                   |          | Seasonal space heating eff. class |        | A+++                                 |                 |                 |
| Cooling capacity                                                                                  | Nom.                              |          |                                   | kW     | 4.86(1)/4.52(2)                      | 5.83(1)/5.09(2) | 6.18(1)/5.44(2) |
| Heating capacity                                                                                  | Nom.                              |          |                                   | kW     | 4.30(1)/4.60(2)                      | 6.00(1)/5.90(2) | 7.50(1)/7.80(2) |
| Power input                                                                                       | Cooling                           | Nom.     |                                   | kW     | 0.820(1)/1.36(2)                     | 1.08(1)/1.55(2) | 1.19(1)/1.73(2) |
|                                                                                                   | Heating                           | Nom.     |                                   | kW     | 0.840(1)/1.26(2)                     | 1.24(1)/1.69(2) | 1.63(1)/2.23(2) |
| Capacity control                                                                                  | Method                            |          |                                   |        | Variable (inverter)                  |                 |                 |
| EER                                                                                               |                                   |          |                                   |        | 5.91(1)/3.32(2)                      | 5.40(1)/3.28(2) | 5.19(1)/3.14(2) |
| COP                                                                                               |                                   |          |                                   |        | 5.10(1)/3.65(2)                      | 4.85(1)/3.50(2) | 4.60(1)/3.50(2) |
| Dimensions                                                                                        | Unit                              | Height   |                                   | mm     | 770                                  |                 |                 |
|                                                                                                   |                                   | Width    |                                   | mm     | 1,250                                |                 |                 |
|                                                                                                   |                                   | Depth    |                                   | mm     | 362                                  |                 |                 |
| Weight                                                                                            | Unit                              |          |                                   | kg     | 88.0                                 |                 |                 |
| Water heat exchanger                                                                              | Type                              |          |                                   |        | Plate heat exchanger                 |                 |                 |
|                                                                                                   | Water volume                      |          |                                   | l      | 1                                    |                 |                 |
| Air heat exchanger                                                                                | Type                              |          |                                   |        | -                                    |                 |                 |
| Compressor                                                                                        | Type                              |          |                                   |        | Hermetically sealed swing compressor |                 |                 |
|                                                                                                   | Quantity                          |          |                                   |        | 1                                    |                 |                 |
| Fan                                                                                               | Type                              |          |                                   |        | Propeller fan                        |                 |                 |
|                                                                                                   | Quantity                          |          |                                   |        | 1                                    |                 |                 |
|                                                                                                   | Air flow rate                     | Cooling  | Nom.                              | m³/min | -                                    |                 |                 |
|                                                                                                   |                                   | Heating  | Nom.                              | m³/min | -                                    |                 |                 |
| Sound power level                                                                                 | Cooling                           | Nom.     |                                   | dBA    | 61.0(1)                              | 62.0(1)         |                 |
|                                                                                                   | Heating                           | Nom.     |                                   | dBA    | 58.0(1)                              | 60.0(1)         | 62.0(1)         |
| Sound pressure level                                                                              | Cooling                           | Nom.     |                                   | dBA    | 48.0(1)                              | 49.0(1)         | 50.0(1)         |
|                                                                                                   | Heating                           | Nom.     |                                   | dBA    | 44.0(1)                              | 47.0(1)         | 49.0(1)         |
| Operation range                                                                                   | Air side                          | Cooling  | Min.~Max.                         | °CDB   | 10(3)~43                             |                 |                 |
|                                                                                                   |                                   | Heating  | Min.~Max.                         | °CDB   | -25~25                               |                 |                 |
| Refrigerant                                                                                       | Type/GWP                          |          |                                   |        | R-32/675.0                           |                 |                 |
|                                                                                                   | Charge                            |          |                                   | kg     | 1.35                                 |                 |                 |
|                                                                                                   | Control                           |          |                                   |        | -                                    |                 |                 |
|                                                                                                   | Circuits                          | Quantity |                                   |        | -                                    |                 |                 |
| Refrigerant charge                                                                                | Per circuit                       |          |                                   | kg     | -                                    |                 |                 |
| Unit                                                                                              | Running current                   | Max      |                                   | A      | -                                    |                 |                 |
| Power supply                                                                                      | Phase/Frequency/Voltage           |          |                                   | Hz/V   | 1~/50/230 +/-10%                     |                 |                 |

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3)For more details, see operation range drawing | (4)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (5)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (6)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (7)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | (8)According to EN14825 | Depends on operation mode, refer to installation manual.

# Air cooled mini inverter heat pump

- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWYA-DV3P-H-

| Heating & Cooling    |                                                                                                                       |          |                                   | EWYA-D | 009DV3P-H-                                                | 011DV3P-H-      | 014DV3P-H-      | 016DV3P-H-      |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------|--------|-----------------------------------------------------------|-----------------|-----------------|-----------------|
| Space cooling        | A Condition Pdc 35°C                                                                                                  |          |                                   | kW     | 9.35                                                      | 11.6            | 12.8            | 14.0            |
|                      | ηs,c                                                                                                                  |          |                                   | %      | 222                                                       | 229             | 226             | 221             |
| SEER                 |                                                                                                                       |          |                                   |        | 5.62(8)                                                   | 5.79(8)         | 5.71(8)         | 5.59(8)         |
| Space heating        |  Average climate water outlet 35°C | General  | SCOP                              | 4.82   | 4.73                                                      | 4.70            | 4.69            |                 |
|                      |                                                                                                                       |          | Seasonal space heating eff. class | A+++   |                                                           |                 |                 |                 |
| Cooling capacity     | Nom.                                                                                                                  |          |                                   | kW     | 9.35(4)/9.10(5)                                           | 11.6(4)/11.5(5) | 12.8(4)/12.7(5) | 14.0(4)/15.3(5) |
| Heating capacity     | Nom.                                                                                                                  |          |                                   | kW     | 9.37(6)/9.00(7)                                           | 10.6(6)/9.82(7) | 12.0(6)/12.5(7) | 16.0(6)/16.0(7) |
| Power input          | Cooling                                                                                                               | Nom.     |                                   | kW     | 2.79(4)/1.71(5)                                           | 3.56(4)/2.17(5) | 4.06(4)/2.51(5) | 4.58(4)/3.24(5) |
|                      | Heating                                                                                                               | Nom.     |                                   | kW     | 1.91(6)/2.43(7)                                           | 2.18(6)/2.68(7) | 2.46(6)/3.42(7) | 3.53(6)/4.56(7) |
| Capacity control     | Method                                                                                                                |          |                                   |        | Variable (inverter)                                       |                 |                 |                 |
| EER                  |                                                                                                                       |          |                                   |        | 3.35(4)/5.34(5)                                           | 3.26(4)/5.31(5) | 3.16(4)/5.04(5) | 3.06(4)/4.74(5) |
| COP                  |                                                                                                                       |          |                                   |        | 4.91(6)/3.71(7)                                           | 4.83(6)/3.66(7) | 4.87(6)/3.64(7) | 4.53(6)/3.51(7) |
| Dimensions           | Unit                                                                                                                  | Height   |                                   | mm     | 870                                                       |                 |                 |                 |
|                      |                                                                                                                       | Width    |                                   | mm     | 1,380                                                     |                 |                 |                 |
|                      |                                                                                                                       | Depth    |                                   | mm     | 460                                                       |                 |                 |                 |
| Weight               | Unit                                                                                                                  |          |                                   | kg     | 147                                                       |                 |                 |                 |
| Water heat exchanger | Type                                                                                                                  |          |                                   |        | Plate heat exchanger                                      |                 |                 |                 |
|                      | Water volume                                                                                                          |          |                                   | l      | 2                                                         |                 |                 |                 |
| Air heat exchanger   | Type                                                                                                                  |          |                                   |        | High efficiency fin and tube type with integral subcooler |                 |                 |                 |
| Compressor           | Type                                                                                                                  |          |                                   |        | Hermetically sealed swing inverter compressor             |                 |                 |                 |
|                      | Quantity                                                                                                              |          |                                   |        | 1                                                         |                 |                 |                 |
| Fan                  | Type                                                                                                                  |          |                                   |        | Propeller fan                                             |                 |                 |                 |
|                      | Quantity                                                                                                              |          |                                   |        | 1                                                         |                 |                 |                 |
|                      | Air flow rate                                                                                                         | Cooling  | Nom.                              | m³/min | 63                                                        | 70              | 85              |                 |
|                      |                                                                                                                       | Heating  | Nom.                              | m³/min | 48.0                                                      | 55.8            | 70.4            | 85.0            |
| Sound power level    | Cooling                                                                                                               | Nom.     |                                   | dBA    | 65.5                                                      | 67.0            | 69.0            |                 |
|                      | Heating                                                                                                               | Nom.     |                                   | dBA    | -                                                         |                 |                 |                 |
| Sound pressure level | Cooling                                                                                                               | Nom.     |                                   | dBA    | 44.0                                                      | 47.7            | 50.8            | 51.0            |
|                      | Heating                                                                                                               | Nom.     |                                   | dBA    | -                                                         |                 |                 |                 |
| Operation range      | Air side                                                                                                              | Cooling  | Min.~Max.                         | °CDB   | 10~43                                                     |                 |                 |                 |
|                      |                                                                                                                       | Heating  | Min.~Max.                         | °CDB   | -25~25                                                    |                 |                 |                 |
| Refrigerant          | Type/GWP                                                                                                              |          |                                   |        | R-32/675.0                                                |                 |                 |                 |
|                      | Charge                                                                                                                | kg       |                                   |        | -                                                         |                 |                 |                 |
|                      | Control                                                                                                               |          |                                   |        | Electronic expansion valve                                |                 |                 |                 |
|                      | Circuits                                                                                                              | Quantity |                                   |        | 1                                                         |                 |                 |                 |
| Refrigerant charge   | Per circuit                                                                                                           |          |                                   | kg     | 3.80                                                      |                 |                 |                 |
| Unit                 | Running current                                                                                                       | Max      |                                   |        | A                                                         |                 |                 |                 |
|                      |                                                                                                                       |          |                                   |        | 30.8                                                      |                 |                 |                 |
| Power supply         | Phase/Frequency/Voltage                                                                                               |          |                                   | Hz/V   | 1~/50/230                                                 |                 |                 |                 |

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3)For more details, see operation range drawing | (4)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (5)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (6)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (7)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (8)According to EN14825 | Depends on operation mode, refer to installation manual.



# Air cooled scroll inverter heat pump

- High part load efficiency for low running cost
- Minimal starting currents
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request
- Dedicated controller extension (EKRSCIOH) for Heating applications



EWYT-CZN

| Heating & Cooling    |                                                                                     |                                   |                                   | EWYT-CZN                                            | 016   | 021  | 025  | 032   | 040  | 040   | 050  | 064   | 090   |
|----------------------|-------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------------------------|-------|------|------|-------|------|-------|------|-------|-------|
| Space cooling        | A Condition Pdc 35°C                                                                |                                   |                                   | kW                                                  | 15.9  | 20.9 | 25.6 | 32.4  | 39.6 | 41.4  | 50.8 | 64.0  | 88.3  |
|                      | ηs,c                                                                                |                                   |                                   | %                                                   | 197   |      | 200  | 205   | 201  | 213   | 210  | 205   | 198   |
| SEER                 |                                                                                     |                                   |                                   |                                                     | 5.00  |      | 5.06 | 5.21  | 5.09 | 5.41  | 5.33 | 5.21  | 5.03  |
| Space heating        |  | Average climate water outlet 35°C | General                           | SCOP                                                | 3.89  | 4.00 | 4.07 | 4.06  | 4.07 | 4.02  | 4.00 | 3.98  | 4.00  |
|                      |                                                                                     |                                   | Seasonal space heating eff. class | A++                                                 |       |      |      |       |      |       |      |       |       |
| Cooling capacity     | Nom.                                                                                |                                   |                                   | kW                                                  | 15.9  | 20.9 | 25.6 | 32.4  | 39.6 | 41.4  | 50.8 | 64.0  | 88.3  |
| Heating capacity     | Nom.                                                                                |                                   |                                   | kW                                                  | 15.9  | 20.2 | 24.8 | 32.4  | 39.4 | 40.3  | 49.8 | 61.9  | 85.8  |
| Power input          | Cooling                                                                             | Nom.                              |                                   | kW                                                  | 5.50  | 6.60 | 8.50 | 10.3  | 13.4 | 13.2  | 17.0 | 21.8  | 31.0  |
|                      | Heating                                                                             | Nom.                              |                                   | kW                                                  | 4.70  | 5.80 | 7.50 | 9.40  | 11.8 | 11.9  | 15.4 | 19.1  | 27.2  |
| Capacity control     | Method                                                                              |                                   |                                   | Inverter controlled                                 |       |      |      |       |      |       |      |       |       |
|                      | Minimum capacity                                                                    |                                   |                                   | %                                                   | 18    | 14   | 12   | 19    | 15   | 14    | 12   | 15    | 14    |
| EER                  |                                                                                     |                                   |                                   |                                                     | 2.90  | 3.16 | 3.00 | 3.13  | 2.95 | 3.12  | 2.98 | 2.93  | 2.84  |
| COP                  |                                                                                     |                                   |                                   |                                                     | 3.41  | 3.46 | 3.33 | 3.45  | 3.33 | 3.38  | 3.24 | 3.23  | 3.16  |
| IPLV                 |                                                                                     |                                   |                                   |                                                     | 5.83  | 6.29 | 6.05 | 6.25  | 5.87 | 6.37  | 5.92 | 5.88  | 5.61  |
| Dimensions           | Unit                                                                                | Height                            |                                   | mm                                                  | 1,878 |      |      |       |      |       |      |       |       |
|                      |                                                                                     | Width                             |                                   | mm                                                  | 1,152 |      |      | 1,752 |      | 2,306 |      | 2,906 | 3,506 |
|                      |                                                                                     | Depth                             |                                   | mm                                                  | 802   |      |      |       |      | 814   |      |       |       |
| Weight               | Unit                                                                                |                                   |                                   | kg                                                  | 227   | 252  | 350  | 349   | 494  | 588   | 693  |       |       |
|                      | Operation weight                                                                    |                                   |                                   | kg                                                  | 228   | 254  | 353  | 352   | 500  | 594   | 701  |       |       |
| Water heat exchanger | Type                                                                                |                                   |                                   | Brazen plate heat exchanger                         |       |      |      |       |      |       |      |       |       |
|                      | Water volume                                                                        |                                   |                                   | l                                                   | 1     | 2    |      |       |      | 5     |      |       | 8     |
|                      | Water flow rate                                                                     | Cooling                           | Nom.                              | l/s                                                 | 0.8   | 1.0  | 1.2  | 1.6   | 1.9  | 2.0   | 2.4  | 3.1   | 4.2   |
|                      |                                                                                     | Heating                           | Nom.                              | l/s                                                 | 0.8   | 1.0  | 1.2  | 1.5   | 1.9  |       | 2.4  | 3.0   | 4.1   |
|                      | Water pressure drop                                                                 | Cooling                           | Nom.                              | kPa                                                 | 20    | 11   | 16   | 19    | 28   | 10    | 14   | 22    | 20    |
|                      |                                                                                     | Heating                           | Nom.                              | kPa                                                 | 19.6  | 10.6 | 15.4 | 19.1  | 27.1 | 9.4   | 13.8 | 20.4  | 19.1  |
| Air heat exchanger   | Type                                                                                |                                   |                                   | High efficiency fin and tube type – Copper Aluminum |       |      |      |       |      |       |      |       |       |
| Compressor           | Type                                                                                |                                   |                                   | Scroll compressor                                   |       |      |      |       |      |       |      |       |       |
|                      | Quantity                                                                            |                                   |                                   |                                                     | 1     |      |      |       |      | 2     |      |       |       |
| Fan                  | Type                                                                                |                                   |                                   | Axial                                               |       |      |      |       |      |       |      |       |       |
|                      | Quantity                                                                            |                                   |                                   |                                                     | 1     |      |      | 2     |      |       |      | 3     | 4     |
|                      | Speed                                                                               |                                   |                                   | rpm                                                 | 800   |      | 900  | 700   | 900  | 700   | 900  | 800   | 900   |
| Sound power level    | Cooling                                                                             | Nom.                              |                                   | dBA                                                 | 76.0  |      | 78.0 | 79.0  | 80.0 |       | 81.0 | 83.0  | 85.0  |
| Sound pressure level | Cooling                                                                             | Nom.                              |                                   | dBA                                                 | 59.7  |      | 61.7 | 62.2  | 63.2 | 62.8  | 63.8 | 65.4  | 67.0  |
| Refrigerant          | Type/GWP                                                                            |                                   |                                   | R-32/675                                            |       |      |      |       |      |       |      |       |       |
|                      | Charge                                                                              |                                   |                                   | kg                                                  | 3.00  | 5.50 |      | 7.00  | 8.00 | 12.0  |      | 13.0  | 16.0  |
|                      | Circuits                                                                            |                                   |                                   |                                                     | 1     |      |      |       |      | 2     |      |       |       |
| Piping connections   | Evaporator water inlet/outlet (OD)                                                  |                                   |                                   |                                                     | 1"1/4 |      |      |       |      | 2"    |      |       |       |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

# Air cooled scroll inverter heat pump

- High part load efficiency for low running cost
- Minimal starting currents
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module with low lift pump included
- Dedicated controller extension (EKRSCIOH) for Heating applications



EWYT-CZP

| Heating & Cooling                                                                                 |                                   |         |                                   | EWYT                               | 016                                                 | 021  | 025  | 032   | 040  | 040   | 050  | 064   | 090   |
|---------------------------------------------------------------------------------------------------|-----------------------------------|---------|-----------------------------------|------------------------------------|-----------------------------------------------------|------|------|-------|------|-------|------|-------|-------|
| Space cooling                                                                                     | A Condition Pdc 35°C              |         |                                   | kW                                 | 16.0                                                | 21.0 | 25.7 | 32.6  | 39.8 | 41.6  | 51.0 | 64.3  | 88.6  |
|                                                                                                   | ηs,c                              |         |                                   | %                                  | 209                                                 | 213  |      | 225   | 211  | 228   | 216  | 211   | 204   |
| SEER                                                                                              |                                   |         |                                   |                                    | 5.30                                                | 5.41 |      | 5.70  | 5.36 | 5.76  | 5.48 | 5.34  | 5.18  |
|  Space heating | Average climate water outlet 35°C | General | SCOP                              | 4.03                               | 4.19                                                |      | 4.18 |       | 4.19 | 4.12  | 4.01 | 4.04  |       |
|                                                                                                   |                                   |         | Seasonal space heating eff. class | A++                                |                                                     |      |      |       |      |       |      |       |       |
| Cooling capacity                                                                                  | Nom.                              |         |                                   | kW                                 | 16.1                                                | 21.1 | 25.9 | 32.7  | 39.9 | 41.7  | 51.1 | 64.4  | 88.8  |
| Heating capacity                                                                                  | Nom.                              |         |                                   | kW                                 | 15.6                                                | 19.9 | 24.6 | 32.1  | 39.0 | 40.0  | 49.5 | 61.4  | 85.3  |
| Power input                                                                                       | Cooling                           | Nom.    |                                   | kW                                 | 5.45                                                | 6.56 | 8.48 | 10.3  | 13.3 | 13.2  | 16.9 | 21.9  | 31.1  |
|                                                                                                   | Heating                           | Nom.    |                                   | kW                                 | 4.63                                                | 5.81 | 7.42 | 9.32  | 11.7 | 11.8  | 15.3 | 19.2  | 27.3  |
| Capacity control                                                                                  | Method                            |         |                                   |                                    | Inverter controlled                                 |      |      |       |      |       |      |       |       |
|                                                                                                   | Minimum capacity                  |         |                                   | %                                  | 18                                                  | 14   | 12   | 19    | 15   | 14    | 12   | 15    | 14    |
| EER                                                                                               |                                   |         |                                   |                                    | 2.96                                                | 3.22 | 3.05 | 3.18  | 3.00 | 3.17  | 3.03 | 2.95  | 2.85  |
| COP                                                                                               |                                   |         |                                   |                                    | 3.37                                                | 3.43 | 3.31 | 3.44  | 3.33 | 3.38  | 3.23 | 3.20  | 3.13  |
| IPLV                                                                                              |                                   |         |                                   |                                    | 5.83                                                | 6.29 | 6.05 | 6.25  | 5.87 | 6.37  | 5.92 | 5.88  | 5.61  |
| Dimensions                                                                                        | Unit                              | Height  | mm                                | 1,878                              |                                                     |      |      |       |      |       |      |       |       |
|                                                                                                   |                                   | Width   | mm                                | 1,152                              |                                                     |      |      | 1,752 |      | 2,306 |      | 2,906 | 3,506 |
|                                                                                                   |                                   | Depth   | mm                                | 802                                |                                                     |      |      |       |      | 814   |      |       |       |
| Weight                                                                                            | Unit                              |         |                                   | kg                                 | 261                                                 | 286  |      | 393   | 392  | 546   |      | 644   | 749   |
|                                                                                                   | Operation weight                  |         |                                   | kg                                 | 262                                                 | 288  |      | 396   | 395  | 551   |      | 650   | 757   |
| Water heat exchanger                                                                              | Type                              |         |                                   |                                    | Braze plate heat exchanger                          |      |      |       |      |       |      |       |       |
|                                                                                                   | Water volume                      |         |                                   | l                                  | 1                                                   | 2    |      |       |      | 5     |      |       | 8     |
|                                                                                                   | Water flow rate                   | Cooling | Nom.                              | l/s                                | 0.8                                                 | 1.0  | 1.2  | 1.6   | 1.9  | 2.0   | 2.4  | 3.1   | 4.2   |
|                                                                                                   |                                   | Heating | Nom.                              | l/s                                | 0.8                                                 | 1.0  | 1.2  | 1.5   | 1.9  |       | 2.4  | 3.0   | 4.1   |
|                                                                                                   | Water pressure drop               | Cooling | Nom.                              | kPa                                | 20                                                  | 11   | 16   | 19    | 28   | 10    | 14   | 22    | 20    |
|                                                                                                   |                                   | Heating | Nom.                              | kPa                                | 19.6                                                | 10.6 | 15.4 | 19.1  | 27.1 | 9.4   | 13.8 | 20.4  | 19.1  |
| Air heat exchanger                                                                                | Type                              |         |                                   |                                    | High efficiency fin and tube type – Copper Aluminum |      |      |       |      |       |      |       |       |
| Compressor                                                                                        | Type                              |         |                                   |                                    | Scroll compressor                                   |      |      |       |      |       |      |       |       |
|                                                                                                   | Quantity                          |         |                                   |                                    | 1                                                   |      |      |       |      |       | 2    |       |       |
| Fan                                                                                               | Type                              |         |                                   |                                    | Axial                                               |      |      |       |      |       |      |       |       |
|                                                                                                   | Quantity                          |         |                                   |                                    | 1                                                   |      |      | 2     |      |       |      | 3     | 4     |
|                                                                                                   | Speed                             |         |                                   | rpm                                | 800                                                 |      | 900  | 700   | 900  | 700   | 900  | 800   | 900   |
| Sound power level                                                                                 | Cooling                           | Nom.    |                                   | dBA                                | 76.0                                                | 78.0 |      | 79.0  | 80.0 |       | 81.0 | 83.0  | 85.0  |
| Sound pressure level                                                                              | Cooling                           | Nom.    |                                   | dBA                                | 59.7                                                | 61.7 |      | 62.2  | 63.2 | 62.8  | 63.8 | 65.4  | 67.0  |
| Refrigerant                                                                                       | Type/GWP                          |         |                                   |                                    | R-32/675                                            |      |      |       |      |       |      |       |       |
|                                                                                                   | Charge                            |         |                                   | kg                                 | 3.00                                                | 5.50 |      | 7.00  | 8.00 | 12.0  |      | 13.0  | 16.0  |
|                                                                                                   | Circuits                          |         |                                   | Quantity                           | 1                                                   |      |      |       |      |       | 2    |       |       |
| Piping connections                                                                                |                                   |         |                                   | Evaporator water inlet/outlet (OD) | 1"1/4                                               |      |      |       |      |       | 2"   |       |       |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

# Air cooled scroll inverter heat pump

- High part load efficiency for low running cost
- Minimal starting currents
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module with low lift pump included
- Dedicated controller extension (EKRSCIOH) for Heating applications



EWYT-CZH

| Heating & Cooling    |  |                                    |              | EWYT                              | 016                                                 | 021  | 025  | 032   | 040  | 040   | 050  | 064   | 090   |      |
|----------------------|--|------------------------------------|--------------|-----------------------------------|-----------------------------------------------------|------|------|-------|------|-------|------|-------|-------|------|
| Space cooling        |  | A Condition Pdc 35°C               |              | kW                                | 16.1                                                | 21.1 | 25.8 | 32.7  | 39.9 | 41.7  | 51.1 | 64.3  | 88.7  |      |
|                      |  | ηs,c                               |              | %                                 | 205                                                 | 210  | 211  | 224   | 210  | 227   | 213  | 208   | 202   |      |
| SEER                 |  |                                    |              |                                   | 5.20                                                | 5.32 | 5.34 | 5.67  | 5.34 | 5.76  | 5.40 | 5.27  | 5.12  |      |
| Space heating        |  | Average climate water outlet 35°C  | General SCOP | Seasonal space heating eff. class | 3.88                                                | 4.06 | 4.08 | 4.11  | 4.13 | 4.14  | 4.09 | 3.94  | 4.00  |      |
|                      |  |                                    |              |                                   | A++                                                 |      |      |       |      |       |      |       |       |      |
| Cooling capacity     |  | Nom.                               |              | kW                                | 16.2                                                | 21.2 | 25.9 | 32.8  | 40.1 | 41.8  | 51.3 | 64.5  | 88.9  |      |
| Heating capacity     |  | Nom.                               |              | kW                                | 15.5                                                | 19.8 | 24.5 | 32.0  | 38.9 | 39.9  | 49.4 | 61.3  | 85.2  |      |
| Power input          |  | Cooling                            | Nom.         | kW                                | 5.60                                                | 6.70 | 8.70 | 10.4  | 13.5 | 13.3  | 17.0 | 22.0  | 31.2  |      |
|                      |  | Heating                            | Nom.         | kW                                | 4.80                                                | 6.00 | 7.60 | 9.50  | 11.9 | 12.0  | 15.4 | 19.3  | 27.4  |      |
| Capacity control     |  | Method                             |              |                                   | Inverter controlled                                 |      |      |       |      |       |      |       |       |      |
|                      |  | Minimum capacity                   |              | %                                 | 18                                                  | 14   | 12   | 19    | 15   | 14    | 12   | 15    | 14    |      |
| EER                  |  |                                    |              |                                   | 2.89                                                | 3.15 | 2.98 | 3.14  | 2.97 | 3.15  | 3.02 | 2.93  | 2.85  |      |
| COP                  |  |                                    |              |                                   | 3.24                                                | 3.31 | 3.22 | 3.37  | 3.28 | 3.33  | 3.20 | 3.17  | 3.12  |      |
| IPLV                 |  |                                    |              |                                   | 5.83                                                | 6.29 | 6.05 | 6.25  | 5.87 | 6.37  | 5.92 | 5.88  | 5.61  |      |
| Dimensions           |  | Unit                               | Height       | mm                                | 1,878                                               |      |      |       |      |       |      |       |       |      |
|                      |  |                                    | Width        | mm                                | 1,152                                               |      |      | 1,752 |      | 2,306 |      | 2,906 | 3,506 |      |
|                      |  |                                    | Depth        | mm                                | 802                                                 |      |      |       |      | 814   |      |       |       |      |
| Weight               |  | Unit                               |              | kg                                | 261                                                 | 286  |      | 393   | 392  | 546   |      | 644   | 749   |      |
|                      |  | Operation weight                   |              | kg                                | 262                                                 | 288  |      | 396   | 395  | 551   |      | 650   | 757   |      |
| Water heat exchanger |  | Type                               |              |                                   | Brazen plate heat exchanger                         |      |      |       |      |       |      |       |       |      |
|                      |  | Water volume                       |              | l                                 | 1                                                   | 2    |      |       | 5    |       |      | 8     |       |      |
|                      |  | Water flow rate                    | Cooling      | Nom.                              | l/s                                                 | 0.8  | 1.0  | 1.2   | 1.6  | 1.9   | 2.0  | 2.4   | 3.1   | 4.2  |
|                      |  |                                    | Heating      | Nom.                              | l/s                                                 | 0.8  | 1.0  | 1.2   | 1.5  | 1.9   | 2.4  | 3.0   | 4.1   |      |
|                      |  | Water pressure drop                | Cooling      | Nom.                              | kPa                                                 | 20   | 11   | 16    | 19   | 28    | 10   | 14    | 22    | 20   |
|                      |  |                                    | Heating      | Nom.                              | kPa                                                 | 19.6 | 10.6 | 15.4  | 19.1 | 27.1  | 9.4  | 13.8  | 20.4  | 19.1 |
| Air heat exchanger   |  | Type                               |              |                                   | High efficiency fin and tube type – Copper Aluminum |      |      |       |      |       |      |       |       |      |
| Compressor           |  | Type                               |              |                                   | Scroll compressor                                   |      |      |       |      |       |      |       |       |      |
|                      |  | Quantity                           |              |                                   | 1                                                   |      |      |       |      | 2     |      |       |       |      |
| Fan                  |  | Type                               |              |                                   | Axial                                               |      |      |       |      |       |      |       |       |      |
|                      |  | Quantity                           |              |                                   | 1                                                   |      |      | 2     |      |       |      | 3     | 4     |      |
|                      |  | Speed                              |              | rpm                               | 800                                                 |      | 900  | 700   | 900  | 700   | 900  | 800   | 900   |      |
| Sound power level    |  | Cooling                            | Nom.         | dBA                               | 76.0                                                |      | 78.0 | 79.0  | 80.0 |       | 81.0 | 83.0  | 85.0  |      |
| Sound pressure level |  | Cooling                            | Nom.         | dBA                               | 59.7                                                |      | 61.7 | 62.2  | 63.2 |       | 62.8 | 63.8  | 65.4  | 67.0 |
| Refrigerant          |  | Type/GWP                           |              |                                   | R-32/675                                            |      |      |       |      |       |      |       |       |      |
|                      |  | Charge                             |              | kg                                | 3.00                                                | 5.50 |      | 7.00  | 8.00 |       | 12.0 |       | 13.0  | 16.0 |
|                      |  | Circuits                           |              | Quantity                          | 1                                                   |      |      |       |      | 2     |      |       |       |      |
| Piping connections   |  | Evaporator water inlet/outlet (OD) |              |                                   | 1"1/4                                               |      |      |       |      | 2"    |      |       |       |      |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

# Air to Water Inverter Heat Pump

- Outdoor unit designed for cold and hot climates
- Inverter heat pump
- Available in 8 sizes
- Daikin scroll compressor with Vapor Injection
- Wide operating range: -25°C to +40 °C Ambient temperature and up to 70°C Hot Water Temperature
- Daikin Tube & Fins (Cu/Al) Heat Exchanger ensures efficient heat transfer, durability, and long-term system reliability.
- Stock Availability of Inverter Pump Configuration Mounted On-Board simplifies installation, improves system efficiency, and enables faster project turnaround.



INVERTER  
Inverter  
technology

Scroll compressor

A<sup>+</sup> A<sup>+++</sup>  
D



EWYE-CZN

| Heating & Cooling                                                                                 |                                   |         |                                   | EWYE-CZN                           | 019                 | 022    | 025    | 030    | 035    | 050         | 060    | 070    |
|---------------------------------------------------------------------------------------------------|-----------------------------------|---------|-----------------------------------|------------------------------------|---------------------|--------|--------|--------|--------|-------------|--------|--------|
| SEER                                                                                              |                                   |         |                                   |                                    | 3.737               | 3.796  | 3.99   | 4.431  | 4.54   | 4.096       | 4.34   | 4.56   |
|  Space heating | Average climate water outlet 35°C | General | SCOP                              |                                    | 3.885               |        |        | 4.305  |        | 3.723       |        | 4.001  |
|                                                                                                   |                                   |         | Seasonal space heating eff. class |                                    | A++                 |        |        |        |        | A+          |        | A++    |
| Cooling capacity                                                                                  | Nom.                              |         |                                   | kW                                 | 14.657              | 16.182 | 18.292 | 22.189 | 25.385 | 41.775      | 46.983 | 59.205 |
| Heating capacity                                                                                  | Nom.                              |         |                                   | kW                                 | 18.465              | 20.513 | 24.205 | 30.024 | 34.675 | 50.236      | 60.466 | 73.732 |
| Power input                                                                                       | Cooling                           | Nom.    |                                   | kW                                 | 5.427               | 6.067  | 6.693  | 7.434  | 8.957  | 15.812      | 17.763 | 22.299 |
|                                                                                                   | Heating                           | Nom.    |                                   | kW                                 | 5.901               | 6.566  | 7.718  | 9      | 10.653 | 16.482      | 20.539 | 24.39  |
| Capacity control                                                                                  | Method                            |         |                                   |                                    | Inverter controlled |        |        |        |        |             |        |        |
|                                                                                                   | Minimum capacity                  |         |                                   | %                                  | 36                  | 33     | 29     | 25     | 22     | 13          | 10     |        |
| EER                                                                                               |                                   |         |                                   |                                    | 2.701               | 2.667  | 2.733  | 2.985  | 2.834  | 2.642       | 2.645  | 2.655  |
| COP                                                                                               |                                   |         |                                   |                                    | 3.129               | 3.124  | 3.136  | 3.336  | 3.255  | 3.048       | 2.944  | 3.023  |
| IPLV                                                                                              |                                   |         |                                   |                                    | 5.71                | 5.722  | 5.926  | 6.215  | 6.288  | 5.662       | 5.672  | 5.414  |
| Weight                                                                                            | Unit                              |         |                                   | kg                                 | 277                 | 279    |        | 362    | 363    | 630         |        | 722    |
|                                                                                                   | Operation weight                  |         |                                   | kg                                 | 279                 | 281    |        | 365    | 366    | 636         |        | 730    |
| Water heat exchanger                                                                              | Type                              |         |                                   |                                    | Brazen plate        |        |        |        |        |             |        |        |
|                                                                                                   | Water volume                      |         |                                   | l                                  | 1.87                |        |        | 2.35   |        | 5.13        |        | 7.83   |
|                                                                                                   | Water flow rate                   | Cooling | Nom.                              | l/s                                | 0.7                 | 0.77   | 0.84   | 1.06   | 1.21   | 1.99        | 2.16   | 2.77   |
|                                                                                                   |                                   | Heating | Nom.                              | l/s                                | 0.87                | 0.97   | 1.11   | 1.42   | 1.61   | 2.35        | 2.8    | 3.45   |
|                                                                                                   | Water pressure drop               | Cooling | Nom.                              | kPa                                | 6.05                | 7.19   | 8.41   | 9.82   | 12.41  | 10.01       | 11.62  | 9.51   |
|                                                                                                   |                                   | Heating | Nom.                              | kPa                                | 9.03                | 10.89  | 13.77  | 16.4   | 20.53  | 13.57       | 18.76  | 14.38  |
| Air heat exchanger                                                                                | Type                              |         |                                   |                                    | Al Fins & Cu Tubes  |        |        |        |        |             |        |        |
| Compressor                                                                                        | Type                              |         |                                   |                                    | Scroll              |        |        |        |        |             |        |        |
|                                                                                                   | Quantity                          |         |                                   |                                    | 1                   |        |        |        |        | 2           |        |        |
| Fan                                                                                               | Type                              |         |                                   |                                    | Axial               |        |        |        |        |             |        |        |
|                                                                                                   | Quantity                          |         |                                   |                                    | 1                   |        |        | 2      |        | 3           |        | 4      |
|                                                                                                   | Air flow rate                     | Cooling | Nom.                              | l/s                                | 3,160               | 3,570  |        | 5,300  | 6,080  | 10,440      | 9,240  | 12,160 |
|                                                                                                   |                                   | Heating | Nom.                              | l/s                                | 2,770               | 3,180  |        | 5,340  | 6,130  | 8,110       | 9,310  | 10,680 |
|                                                                                                   | Speed                             |         |                                   | rpm                                | 800                 | 900    |        | 700    | 800    | 900         | 800    |        |
| Sound power level                                                                                 | Cooling                           | Nom.    | dBA                               | 82                                 | 83                  |        |        |        | 86     |             |        |        |
|                                                                                                   | Heating                           | Nom.    | dBA                               | 82                                 | 83                  |        |        |        | 86     |             |        |        |
| Sound pressure level                                                                              | Cooling                           | Nom.    | dBA                               | 66.197                             | 67.137              | 67.227 | 66.683 | 66.676 | 68.822 | 68.855      | 68.527 |        |
|                                                                                                   | Heating                           | Nom.    | dBA                               | 66.197                             | 67.137              | 67.227 | 66.683 | 66.676 | 68.822 | 68.855      | 68.528 |        |
| Refrigerant                                                                                       | Type/GWP                          |         |                                   |                                    | R-454C/145.5        |        |        |        |        |             |        |        |
|                                                                                                   | Charge                            |         |                                   | kg                                 | 6.6                 |        |        | 9.7    |        | 16.3        |        | 21.2   |
|                                                                                                   | Circuits                          |         |                                   |                                    | 1                   |        |        |        |        | 2           |        |        |
| Piping connections                                                                                |                                   |         |                                   | Evaporator water inlet/outlet (OD) | 1"1/4 (female)      |        |        |        |        | 2" (female) |        |        |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

# Air to Water Inverter Heat Pump

- Outdoor unit designed for cold and hot climates
- Inverter heat pump
- Available in 8 sizes
- Daikin scroll compressor with Vapor Injection
- Wide operating range: -25°C to +40 °C Ambient temperature and up to 70°C Hot Water Temperature
- Daikin Tube & Fins (Cu/Al) Heat Exchanger ensures efficient heat transfer, durability, and long-term system reliability.
- Stock Availability of Inverter Pump Configuration Mounted On-Board simplifies installation, improves system efficiency, and enables faster project turnaround.



EWYE-CZP

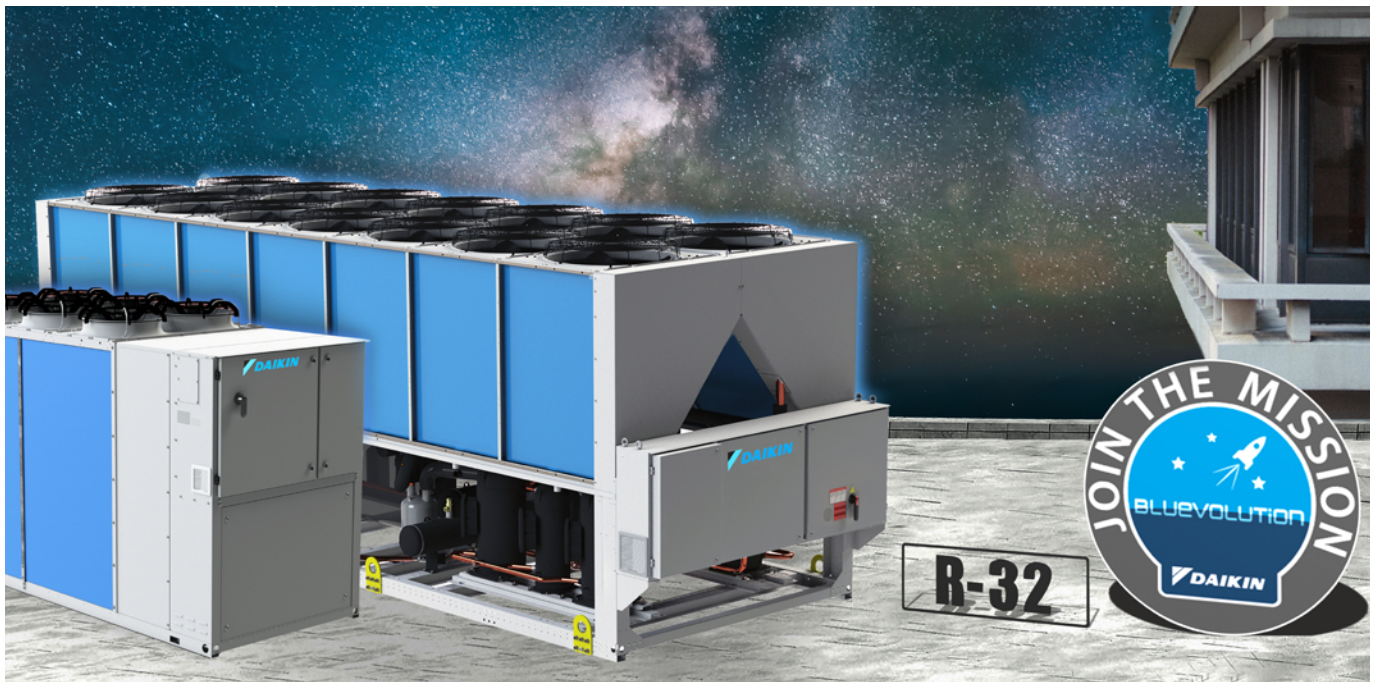
| Heating & Cooling                                                                                 |                                   |         |                                   | EWYE-CZP                           | 019                 | 022    | 025    | 030    | 035    | 050         | 060    | 070    |
|---------------------------------------------------------------------------------------------------|-----------------------------------|---------|-----------------------------------|------------------------------------|---------------------|--------|--------|--------|--------|-------------|--------|--------|
| SEER                                                                                              |                                   |         |                                   |                                    | 3.877               | 3.943  | 4.07   | 4.595  | 4.655  | 4.222       | 4.415  | 4.661  |
|  Space heating | Average climate water outlet 35°C | General | SCOP                              |                                    | 3.999               |        |        | 4.38   |        | 3.872       |        | 4.058  |
|                                                                                                   |                                   |         | Seasonal space heating eff. class |                                    | A++                 |        |        |        |        |             |        |        |
| Cooling capacity                                                                                  | Nom.                              |         |                                   | kW                                 | 14.884              | 16.421 | 18.242 | 22.448 | 25.663 | 42.106      | 46.9   | 59.618 |
| Heating capacity                                                                                  | Nom.                              |         |                                   | kW                                 | 18.212              | 20.25  | 23.931 | 29.721 | 34.351 | 49.887      | 59.575 | 73.267 |
| Power input                                                                                       | Cooling                           | Nom.    |                                   | kW                                 | 5.393               | 6.026  | 6.643  | 7.394  | 8.901  | 15.694      | 17.86  | 22.354 |
|                                                                                                   | Heating                           | Nom.    |                                   | kW                                 | 5.85                | 6.507  | 7.658  | 8.923  | 10.563 | 16.351      | 20.34  | 24.422 |
| Capacity control                                                                                  | Method                            |         |                                   |                                    | Inverter controlled |        |        |        |        |             |        |        |
|                                                                                                   | Minimum capacity                  |         |                                   | %                                  | 36                  | 33     | 29     | 25     | 22     | 13          | 10     |        |
| EER                                                                                               |                                   |         |                                   |                                    | 2.76                | 2.725  | 2.746  | 3.036  | 2.883  | 2.683       | 2.626  | 2.667  |
| COP                                                                                               |                                   |         |                                   |                                    | 3.113               | 3.112  | 3.125  | 3.331  | 3.252  | 3.051       | 2.929  | 3      |
| IPLV                                                                                              |                                   |         |                                   |                                    | 4.863               | 4.873  | 4.985  | 5.454  | 5.389  | 5.055       | 5.087  | 4.987  |
| Weight                                                                                            | Unit                              |         |                                   | kg                                 | 298                 | 300    |        | 401    | 402    | 671         |        | 761    |
|                                                                                                   | Operation weight                  |         |                                   | kg                                 | 300                 | 302    |        | 404    | 405    | 677         |        | 769    |
| Water heat exchanger                                                                              | Type                              |         |                                   |                                    | Braze plate         |        |        |        |        |             |        |        |
|                                                                                                   | Water volume                      |         |                                   | l                                  | 1.87                |        |        | 2.35   |        | 5.13        |        | 7.83   |
|                                                                                                   | Water flow rate                   | Cooling | Nom.                              | l/s                                | 0.7                 | 0.77   | 0.84   | 1.06   | 1.21   | 1.99        | 2.16   | 2.77   |
|                                                                                                   |                                   | Heating | Nom.                              | l/s                                | 0.87                | 0.97   | 1.11   | 1.42   | 1.61   | 2.35        | 2.77   | 3.45   |
|                                                                                                   | Water pressure drop               | Cooling | Nom.                              | kPa                                | 6.05                | 7.19   | 8.41   | 9.82   | 12.41  | 10.01       | 11.62  | 9.51   |
|                                                                                                   |                                   | Heating | Nom.                              | kPa                                | 9.03                | 10.89  | 13.77  | 16.4   | 20.53  | 13.57       | 18.38  | 14.38  |
| Air heat exchanger                                                                                | Type                              |         |                                   |                                    | Al Fins & Cu Tubes  |        |        |        |        |             |        |        |
| Compressor                                                                                        | Type                              |         |                                   |                                    | Scroll              |        |        |        |        |             |        |        |
|                                                                                                   | Quantity                          |         |                                   |                                    | 1                   |        |        |        |        | 2           |        |        |
| Fan                                                                                               | Type                              |         |                                   |                                    | Axial               |        |        |        |        |             |        |        |
|                                                                                                   | Quantity                          |         |                                   |                                    | 1                   |        |        | 2      |        | 3           |        | 4      |
|                                                                                                   | Air flow rate                     | Cooling | Nom.                              | l/s                                | 3,160               | 3,570  |        | 5,300  | 6,080  | 10,440      | 9,240  | 12,160 |
|                                                                                                   |                                   | Heating | Nom.                              | l/s                                | 2,770               | 3,180  |        | 5,340  | 6,130  | 8,110       | 9,310  | 10,680 |
|                                                                                                   | Speed                             |         |                                   | rpm                                | 800                 | 900    |        | 700    | 800    | 900         | 800    |        |
| Sound power level                                                                                 | Cooling                           | Nom.    | dBA                               | 82                                 | 83                  |        |        |        | 86     |             |        |        |
|                                                                                                   | Heating                           | Nom.    | dBA                               | 82                                 | 83                  |        |        |        | 86     |             |        |        |
| Sound pressure level                                                                              | Cooling                           | Nom.    |                                   | dBA                                | 66.197              | 67.137 | 67.227 | 66.683 | 66.676 | 68.822      | 68.855 | 68.528 |
|                                                                                                   | Heating                           | Nom.    |                                   | dBA                                | 66.197              | 67.137 | 67.227 | 66.683 | 66.676 | 68.822      | 68.855 | 68.528 |
| Refrigerant                                                                                       | Type/GWP                          |         |                                   |                                    | R-454C/145.5        |        |        |        |        |             |        |        |
|                                                                                                   | Charge                            |         |                                   | kg                                 | 6.6                 |        |        | 9.7    |        | 16.3        |        | 21.2   |
|                                                                                                   | Circuits                          |         |                                   | Quantity                           | 1                   |        |        |        |        | 2           |        |        |
| Piping connections                                                                                |                                   |         |                                   | Evaporator water inlet/outlet (OD) | 1"1/4 (female)      |        |        |        |        | 2" (female) |        |        |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing









## Infinitely flexible choice in heat pumps

EWYT-B

### Multi scroll heat pumps with R-32 refrigerant

- Top class efficiency, SEER up to 4.92 and SCOP up to 4.06
- Low environmental impact thanks to R-32 refrigerant
- Dedicated Scroll Compressors for hot water production up 60°C
- The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410
- The low GWP R-32 refrigerant falls into category class A2L in ISO817 and it can be safely used in many applications including chilled water systems
- As a single component refrigerant, R-32 is also easier to recycle and reuse another environmental plus in its favourWide capacity range: 80 – 650 kW
- Optimized Copper -Aluminium Coils improving performances and de-frosting operation
- Silver and Gold efficiency versions
- 3 sound configurations
- 2 different layouts: Parallel Coil and Double V Coil
- One or Two independent refrigerant circuits
- Full compatibility with Daikin on Site
- Extensive option lists
- Fan speed modulation option (VFD)

### Connectivity

#### Daikin on Site

Fully compatible with Daikin on Site cloud based platform that allows a number of advanced functionalities including:

- Remote monitoring
- System optimization
- Preventive maintenance
- Remote access with one click via LAN or 4G LTE router

#### Connection to Intelligent Chiller Manager

Daikin can offer the Intelligent Chiller Manager option, allowing energy optimisation of the system and, when necessary, full customization of the control solutions to the specific installation's needs even in case of more complex installation.

- High number of units
- Cooling and Heating mode
- Peripheral controls

 **Intelligent Chiller Manager**

Parallel coils



|                   |                          |            |
|-------------------|--------------------------|------------|
| Silver Efficiency | 75-193 kW<br>82-213 kW   | 1 circuit  |
| Gold Efficiency   | 80-206 kW<br>86-218 kW   |            |
| Silver Efficiency | 189-230 kW<br>209-256 kW | 2 circuits |
| Gold Efficiency   | 206-250 kW<br>215-261 kW |            |

Double-V coils



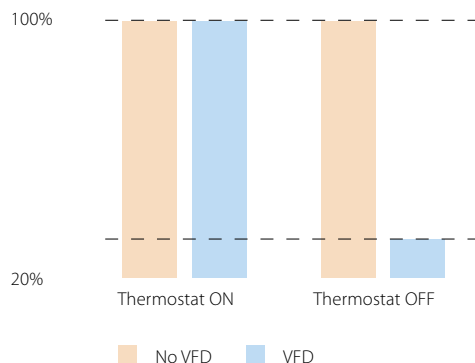
|                   |                          |            |
|-------------------|--------------------------|------------|
| Silver Efficiency | 270-570 kW<br>300-627 kW | 2 circuits |
| Gold Efficiency   | 294-630 kW<br>306-650 kW |            |

Extensive option lists  
Including new options:

- Partial heat recovery**  
Introduction of condensation control allowing to maintain heat recovery capacity at lower ambient temperatures with unit operating at full capacity
- Buffer tank**  
Unit mounted buffer tank available all across the range for plug and play solution.
- VFD pumps and variable flow control**
- Variable pump speed control via extenral 0-10 volt signal
  - “Thermostat on” and “thermostat off” pump speed management
  - Variable primary flow control

- Master/Slave supplied as standard**  
Master/Slave functionality allowing to manage up to 4 units on the same system without the need of external control devices.
- Fan Silent Mode**  
The parallel coil units and units with VFD option are standardly equipped with Fan Silent Mode, which reduces fan velocity and therefore unit sound emission on scheduled time bands, enhancing comfort during night operation.

Pumping energy



# Air cooled multi-scroll heat pump, standard efficiency, standard/low sound

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimise the overall chiller power input

| Heating & Cooling                                                                                 |                                    |                                   |           | EWYT-B-SS/SL                      |        | 085    | 105    | 135    | 175    | 205    | 215    | 235    | 255    | 300    | 340    | 390    | 430    | 490    | 540    | 590   | 630   |    |    |
|---------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------|-----------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|----|----|
| SEER                                                                                              |                                    |                                   |           |                                   |        | 3.9    | 3.98   | 3.9    | 4.01   | 3.96   | 3.9    | 3.96   | 3.9    | 3.99   | 4.1    | 3.99   | 4      | 4.23   | 4.17   | 4.25  |       |    |    |
|  Space heating | Average climate water outlet 35°C  | General                           | SCOP      |                                   | 3.34   | 3.41   | 3.36   | 3.40   | 3.37   | 3.40   | 3.34   | 3.29   | 3.27   | 3.28   | 3.35   | 3.33   | 3.37   | 3.35   | 3.38   | 3.37  |       |    |    |
|                                                                                                   |                                    | Seasonal space heating eff. class |           | A+                                |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |    |    |
| Cooling capacity                                                                                  | Nom.                               |                                   | kW        | 75                                | 98     | 120    | 153    | 189    | 193    | 212    | 230    | 270    | 317    | 350    | 375    | 434    | 482    | 531    | 570    |       |       |    |    |
| Heating capacity                                                                                  | Nom.                               |                                   | kW        | 82.24                             | 106.24 | 132.23 | 169.8  | 209.28 | 213.33 | 236.16 | 256.09 | 300.01 | 342.79 | 389.93 | 432.79 | 486.98 | 541.54 | 591.29 | 627.45 |       |       |    |    |
| Power input                                                                                       | Cooling                            | Nom.                              | kW        | 28                                | 36.6   | 44.6   | 57.8   | 71.3   | 72.3   | 78.9   | 86.5   | 102    | 117    | 132    | 147    | 171    | 192    | 206    | 219    |       |       |    |    |
|                                                                                                   | Heating                            | Nom.                              | kW        | 28.16                             | 36.5   | 45.26  | 58.94  | 72.36  | 73.82  | 82.07  | 86.96  | 104.12 | 116.23 | 135.61 | 150.48 | 166.78 | 185.15 | 201.91 | 214.4  |       |       |    |    |
| Capacity control                                                                                  | Method                             |                                   |           | Step                              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |    |    |
|                                                                                                   | Minimum capacity                   |                                   | %         | 50                                | 38     | 50     | 38     | 19     | 50     | 17     | 25     | 22     | 19     | 17     | 25     | 22     | 19     | 18     | 17     |       |       |    |    |
| EER                                                                                               |                                    |                                   |           | 2.69                              | 2.68   | 2.7    | 2.65   | 2.66   | 2.67   | 2.69   | 2.66   | 2.65   | 2.69   | 2.63   | 2.55   | 2.54   | 2.51   | 2.57   | 2.6    |       |       |    |    |
| COP                                                                                               |                                    |                                   |           | 2.914                             | 2.903  | 2.914  | 2.875  | 2.886  | 2.884  | 2.871  | 2.938  | 2.882  | 2.949  | 2.875  | 2.876  | 2.92   | 2.925  | 2.928  | 2.927  |       |       |    |    |
| IPLV                                                                                              |                                    |                                   |           | 4.43                              | 4.4    | 4.32   | 4.28   | 4.33   | 4.36   | 4.31   | 4.35   | 4.2    | 4.31   | 4.2    | 4.31   | 4.46   | 4.52   | 4.44   | 4.53   |       |       |    |    |
| Dimensions                                                                                        | Unit                               | Height                            | mm        | 1,800                             |        |        |        |        |        |        |        |        | 2,516  |        |        |        |        |        |        |       |       |    |    |
|                                                                                                   |                                    | Width                             | mm        | 1,211                             |        |        |        |        |        |        |        |        | 2,224  |        |        |        |        |        |        |       |       |    |    |
|                                                                                                   |                                    | Length                            | mm        | 2,227                             | 2,776  | 3,426  |        |        | 4,424  | 4,028  | 5,025  |        |        | 3,418  |        | 4,316  |        |        |        |       | 5,211 |    |    |
| Weight (SS)                                                                                       | Unit                               | kg                                | 764       | 945                               | 947    | 1,206  | 1,572  | 1,478  | 1,533  | 1,569  | 2,516  | 2,864  | 3,278  | 3,324  | 3,483  | 3,685  | 4,089  | 4,264  |        |       |       |    |    |
|                                                                                                   | Operation weight                   | kg                                | 772       | 953                               | 954    | 1,214  | 1,583  | 1,495  | 1,544  | 1,583  | 2,527  | 2,883  | 3,297  | 3,343  | 3,510  | 3,712  | 4,124  | 4,305  |        |       |       |    |    |
| Weight (SL)                                                                                       | Unit                               | kg                                | 764       | 945                               | 947    | 1,206  | 1,572  | 1,478  | 1,533  | 1,569  | 2,627  | 2,978  | 3,390  | 3,427  | 3,614  | 3,815  | 4,218  | 4,395  |        |       |       |    |    |
|                                                                                                   | Operation weight                   | kg                                | 772       | 953                               | 954    | 1,214  | 1,583  | 1,495  | 1,544  | 1,583  | 2,640  | 2,997  | 3,409  | 3,446  | 3,641  | 3,842  | 4,253  | 4,436  |        |       |       |    |    |
| Water heat exchanger                                                                              | Type                               |                                   |           | Plate heat exchanger              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |    |    |
|                                                                                                   | Water volume                       | l                                 |           | 7                                 |        |        |        | 11     |        |        |        | 14     |        |        |        | 20     |        |        |        | 27    |       | 35 | 41 |
|                                                                                                   | Water flow rate                    | Cooling Nom. l/s                  | 3.6       | 4.7                               | 5.8    | 7.3    | 9      | 9.2    | 10.1   | 11     | 12.9   | 15.1   | 16.7   | 17.9   | 20.7   | 23     | 25.3   | 27.2   |        |       |       |    |    |
|                                                                                                   | Water pressure drop                | Cooling Nom. kPa                  | 14.9      | 24.1                              | 35.1   | 54     | 45     | 46.4   | 55.1   | 45.1   | 60.2   | 49.2   | 58.8   | 66.7   | 58.7   | 71.2   | 58.3   | 66.1   |        |       |       |    |    |
| Air heat exchanger                                                                                | Type                               |                                   |           | High efficiency fin and tube type |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |    |    |
| Compressor                                                                                        | Type                               |                                   |           | Scroll compressor                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |    |    |
|                                                                                                   | Quantity                           |                                   |           | 2                                 |        |        |        | 4      | 2      | 4      |        |        |        |        |        | 5      | 6      |        |        |       |       |    |    |
| Fan                                                                                               | Type                               |                                   |           | Direct propeller                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |    |    |
|                                                                                                   | Quantity                           |                                   |           | 4                                 | 6      | 8      |        | 10     |        |        | 12     |        | 5      | 6      | 8      |        |        | 10     |        |       |       |    |    |
|                                                                                                   | Air flow rate                      | Nom. l/s                          | 6,888     | 10,809                            | 14,412 | 13,777 | 17,220 | 17,221 | 20,664 |        | 28,003 | 33,604 | 46,854 |        | 45,830 | 44,806 | 57,288 | 56,008 |        |       |       |    |    |
|                                                                                                   | Speed                              | rpm                               |           | 1,360                             |        |        |        |        |        |        |        | 900    |        |        |        |        |        |        |        |       |       |    |    |
| Sound power level (SS)                                                                            | Cooling                            | Nom. dBA                          | 84        | 87                                | 89     | 91     | 90     | 92     | 91     | 92     | 94     | 95     | 96     | 96.3   | 96.6   | 96.8   | 97.5   | 97.8   |        |       |       |    |    |
| Sound power level (SL)                                                                            | Cooling                            | Nom. dBA                          | 83        | 85                                | 87     | 88     |        |        | 89     |        |        | 91     | 92     | 93     | 92.9   |        | 93     | 93.9   |        |       |       |    |    |
| Sound pressure level (SS)                                                                         | Cooling                            | Nom. dBA                          | 66        | 69                                | 71     | 73     | 71     | 74     | 72     | 73     | 74     | 75     | 76     | 76.3   | 76.6   | 76.8   | 77.1   | 77.4   |        |       |       |    |    |
| Sound pressure level (SL)                                                                         | Cooling                            | Nom. dBA                          | 65        | 67                                | 69     | 70     | 69     | 70     |        |        | 71     | 72     | 73     | 72.9   |        | 73     | 73.5   |        |        |       |       |    |    |
| Refrigerant                                                                                       | Type                               |                                   |           | R-32                              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |    |    |
|                                                                                                   | Charge                             | kg                                | 12.7      | 15.8                              | 18.5   | 26     | 34     | 34.8   | 37.2   | 43     | 41.7   | 48     | 47.1   | 48.6   | 60.3   | 70     | 78.5   | 87     |        |       |       |    |    |
|                                                                                                   | Circuits                           | Quantity                          |           | 1                                 |        |        |        | 2      | 1      | 2      |        |        |        |        |        |        |        |        |        |       |       |    |    |
| Piping connections                                                                                | Evaporator water inlet/outlet (OD) | mm                                | 88.9      |                                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 114.3 |       |    |    |
| Unit                                                                                              | Starting current                   | Max                               | A         | 211                               | 327    | 343    | 464    | 408    | 495    | 425    | 439    | 564    | 598    | 636    | 666    | 712    | 757    | 795    | 825    |       |       |    |    |
|                                                                                                   |                                    | Cooling Nom.                      | A         | 54                                | 66     | 76     | 99     | 125    | 123    | 133    | 146    | 174    | 198    | 227    | 253    | 291    | 328    | 353    | 372    |       |       |    |    |
|                                                                                                   |                                    | Max                               | A         | 68                                | 85     | 101    | 131    | 166    | 163    | 183    | 197    | 232    | 266    | 304    | 334    | 379    | 425    | 463    | 493    |       |       |    |    |
| Power supply                                                                                      | Phase/Frequency/Voltage            | Hz/V                              | 3~/50/400 |                                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |       |    |    |



EWYT-B-SS



EWYT-B-SL

| Heating & Cooling                                                                                 |                                     |              |        | EWYT-B-SS/SL                      |                                   | 300-<br>VFDFAN | 340-<br>VFDFAN | 390-<br>VFDFAN | 430-<br>VFDFAN | 490-<br>VFDFAN | 540-<br>VFDFAN | 590-<br>VFDFAN | 630-<br>VFDFAN |                   |        |        |      |      |      |        |        |        |        |
|---------------------------------------------------------------------------------------------------|-------------------------------------|--------------|--------|-----------------------------------|-----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|--------|--------|------|------|------|--------|--------|--------|--------|
| SEER                                                                                              |                                     |              |        |                                   |                                   | 4.16           | 4.28           | 4.16           | 4.12           | 4.37           | 4.35           | 4.29           | 4.38           |                   |        |        |      |      |      |        |        |        |        |
|  Space heating | Average climate water outlet 35°C   | General SCOP |        | Seasonal space heating eff. class | -                                 | 3.38           | 3.39           | 3.46           | 3.44           | 3.47           | 3.46           | 3.50           | 3.47           |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   |                                     |              |        |                                   |                                   |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |
| Cooling capacity                                                                                  | Nom.                                |              |        | kW                                |                                   | 270            | 317            | 350            | 375            | 434            | 482            | 531            | 570            |                   |        |        |      |      |      |        |        |        |        |
| Heating capacity                                                                                  | Nom.                                |              |        | kW                                |                                   | 300.01         | 342.79         | 389.93         | 432.79         | 486.98         | 541.54         | 591.29         | 627.45         |                   |        |        |      |      |      |        |        |        |        |
| Power input                                                                                       | Cooling                             | Nom.         |        |                                   | kW                                |                | 102            | 117            | 133            | 147            | 171            | 192            | 219            |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   | Heating                             | Nom.         |        |                                   | kW                                |                | 104.41         | 116.59         | 136.09         | 150.96         | 167.26         | 185.62         | 202.51         | 215               |        |        |      |      |      |        |        |        |        |
| Capacity control                                                                                  | Method                              |              |        |                                   | Step                              |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   | Minimum capacity                    |              | %      |                                   |                                   |                |                |                |                |                |                |                |                | 22                | 19     | 17     | 25   | 22   | 19   | 18     | 17     |        |        |
| EER                                                                                               |                                     |              |        |                                   |                                   | 2.64           | 2.69           | 2.62           | 2.54           | 2.53           | 2.5            | 2.56           | 2.59           |                   |        |        |      |      |      |        |        |        |        |
| COP                                                                                               |                                     |              |        |                                   |                                   | 2.873          | 2.94           | 2.865          | 2.867          | 2.911          | 2.917          | 2.92           | 2.918          |                   |        |        |      |      |      |        |        |        |        |
| IPLV                                                                                              |                                     |              |        |                                   |                                   | 4.35           | 4.67           | 4.45           | 4.54           | 4.68           | 4.71           | 4.73           | 4.8            |                   |        |        |      |      |      |        |        |        |        |
| Dimensions                                                                                        | Unit                                | Height       | mm     |                                   | 2,516                             |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   |                                     |              | Width  |                                   |                                   |                |                |                |                |                |                |                |                | 2,224             |        |        |      |      |      |        |        |        |        |
|                                                                                                   |                                     |              | Length |                                   |                                   |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        | 3,225  |
|                                                                                                   |                                     |              |        | 4,125                             |                                   |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   |                                     |              |        |                                   |                                   |                |                |                |                |                |                |                | 5,025          |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   |                                     |              |        |                                   |                                   |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |
| Weight (SS)                                                                                       | Unit                                |              |        | kg                                |                                   | 2,100          | 2,250          | 3,180          | 3,190          | 3,180          | 3,370          | 4,267          |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   | Operation weight                    |              |        |                                   | kg                                |                | 2,114          | 2,270          | 3,200          | 3,209.71       | 3,207.27       | 3,397.27       | 4,302.37       | 4,308.08          |        |        |      |      |      |        |        |        |        |
| Weight (SL)                                                                                       | Unit                                |              |        | kg                                |                                   | 2,260          | 2,410          | 3,340          | 3,190          | 3,180          | 3,370          | 4,267          |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   | Operation weight                    |              |        |                                   | kg                                |                | 2,274          | 2,430          | 3,360          | 3,209.71       | 3,207.27       | 3,397.27       | 4,302.37       | 4,308.08          |        |        |      |      |      |        |        |        |        |
| Water heat exchanger                                                                              | Type                                |              |        |                                   | Plate heat exchanger              |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   | Water volume                        |              | l      |                                   |                                   |                |                |                |                |                |                |                |                | 14                | 20     | 27     | 35   | 41   |      |        |        |        |        |
|                                                                                                   | Water flow rate                     | Cooling Nom. | l/s    |                                   |                                   |                |                |                |                |                |                |                |                | 12.9              | 15.1   | 16.7   | 17.9 | 20.7 | 23   | 25.3   | 27.2   |        |        |
|                                                                                                   | Water pressure drop                 | Cooling Nom. | kPa    |                                   |                                   |                |                |                |                |                |                |                |                | 60.2              | 49.2   | 58.8   | 66.7 | 58.7 | 71.2 | 58.3   | 66.1   |        |        |
| Air heat exchanger                                                                                | Type                                |              |        |                                   | High efficiency fin and tube type |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |
| Compressor                                                                                        | Type                                |              |        |                                   |                                   |                |                |                |                |                |                |                |                | Scroll compressor |        |        |      |      |      |        |        |        |        |
|                                                                                                   | Quantity                            |              |        |                                   | 4                                 |                |                |                | 5              | 6              |                |                |                |                   |        |        |      |      |      |        |        |        |        |
| Fan                                                                                               | Type                                |              |        |                                   | Direct propeller                  |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   | Quantity                            |              |        |                                   |                                   |                |                |                |                |                |                |                |                | 5                 | 6      | 8      |      |      |      | 10     |        |        |        |
|                                                                                                   | Air flow rate                       | Nom.         | l/s    |                                   |                                   |                |                |                |                |                |                |                |                | 28,003            | 33,604 | 46,854 |      |      |      | 45,830 | 44,806 | 57,288 | 56,008 |
|                                                                                                   | Speed                               |              | rpm    |                                   |                                   |                |                |                |                |                |                |                |                | 900               |        |        |      |      |      |        |        |        |        |
| Sound power level (SS)                                                                            | Cooling                             | Nom.         | dBA    |                                   | 94                                | 94.9           | 95.9           | 96.3           | 96.6           | 96.8           | 97.5           | 97.8           |                |                   |        |        |      |      |      |        |        |        |        |
| Sound power level (SL)                                                                            | Cooling                             | Nom.         | dBA    |                                   | 90.8                              | 91.6           | 92.8           | 92.9           | 93             | 93.9           |                |                |                |                   |        |        |      |      |      |        |        |        |        |
| Sound pressure level (SS)                                                                         | Cooling                             | Nom.         | dBA    |                                   | 74.5                              | 75.4           | 75.9           | 76.3           | 76.6           | 76.8           | 77.1           | 77.4           |                |                   |        |        |      |      |      |        |        |        |        |
| Sound pressure level (SL)                                                                         | Cooling                             | Nom.         | dBA    |                                   | 71.3                              | 72.1           | 72.8           | 72.9           | 73             | 73.5           |                |                |                |                   |        |        |      |      |      |        |        |        |        |
| Refrigerant                                                                                       | Type                                |              |        |                                   | R-32                              |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   | Charge                              |              | kg     |                                   |                                   |                |                |                |                |                |                |                |                | 41.7              | 48     | 47.1   | 48.6 | 60.3 | 70   | 78.5   | 87     |        |        |
|                                                                                                   | Circuits                            | Quantity     |        |                                   |                                   |                |                |                |                |                |                |                |                | 2                 |        |        |      |      |      |        |        |        |        |
| Piping connections                                                                                | Evaporator water inlet/ outlet (OD) |              | mm     |                                   | 88.9                              |                |                |                |                |                |                |                | 114.3          |                   |        |        |      |      |      |        |        |        |        |
| Unit                                                                                              | Starting current                    | Max          | A      |                                   | 564                               | 598            | 636            | 666            | 712            | 757            | 795            | 825            |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   | Running current                     | Cooling Nom. | A      |                                   | 175                               | 198            | 228            | 253            | 292            | 329            | 354            | 373            |                |                   |        |        |      |      |      |        |        |        |        |
|                                                                                                   |                                     | Max          | A      |                                   | 232                               | 266            | 304            | 334            | 379            | 425            | 463            | 493            |                |                   |        |        |      |      |      |        |        |        |        |
| Power supply                                                                                      | Phase/Frequency/Voltage             |              | Hz/V   |                                   | 3~/50/400                         |                |                |                |                |                |                |                |                |                   |        |        |      |      |      |        |        |        |        |



# Air cooled multi-scroll heat pump, standard efficiency, reduced sound

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimise the overall chiller power input

| Heating & Cooling                                                                                 |                                    |          |                                   | EWYT-B-SR | 085                               | 105    | 135    | 175    | 205    | 215    | 235    | 255    |
|---------------------------------------------------------------------------------------------------|------------------------------------|----------|-----------------------------------|-----------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| SEER                                                                                              |                                    |          |                                   |           | 3.82                              | 3.93   | 3.87   | 3.96   | 3.92   | 3.82   | 3.83   | 3.84   |
|  Space heating | Average climate water outlet 35°C  | General  | SCOP                              |           | 3.35                              | 3.40   | 3.37   | 3.42   | 3.44   | 3.43   | 3.32   | 3.33   |
|                                                                                                   |                                    |          | Seasonal space heating eff. class | A+        |                                   | -      |        |        |        |        |        |        |
| Cooling capacity                                                                                  | Nom.                               |          |                                   | kW        | 74                                | 96     | 119    | 150    | 186    | 189    | 209    | 226    |
| Heating capacity                                                                                  | Nom.                               |          |                                   | kW        | 81.00                             | 105.24 | 131.02 | 167.00 | 207.00 | 210.00 | 233.00 | 251.00 |
| Power input                                                                                       | Cooling                            | Nom.     |                                   | kW        | 28.7                              | 37.4   | 45.5   | 59.5   | 73.2   | 74.3   | 80.7   | 88.8   |
|                                                                                                   | Heating                            | Nom.     |                                   | kW        | 26.4                              | 36.24  | 44.84  | 54.67  | 67.74  | 68.31  | 77.26  | 80.08  |
| Capacity control                                                                                  | Method                             |          |                                   |           | Step                              |        |        |        |        |        |        |        |
|                                                                                                   | Minimum capacity                   |          |                                   | %         | 50                                | 38     | 50     | 38     | 19     | 50     | 17     | 25     |
| EER                                                                                               |                                    |          |                                   |           | 2.56                              | 2.58   | 2.61   | 2.53   | 2.54   | 2.55   | 2.59   | 2.55   |
| COP                                                                                               |                                    |          |                                   |           | 2.891                             | 2.904  | 2.922  | 2.859  | 2.883  | 2.866  | 2.863  | 2.912  |
| IPLV                                                                                              |                                    |          |                                   |           | 4.36                              | 4.24   | 4.3    | 4.38   | 4.29   |        | 4.28   | 4.26   |
| Dimensions                                                                                        | Unit                               | Height   |                                   | mm        | 1,801                             |        |        |        |        |        |        |        |
|                                                                                                   |                                    | Width    |                                   | mm        | 1,211                             |        |        |        |        |        |        |        |
|                                                                                                   |                                    | Length   |                                   | mm        | 2,227                             | 2,776  | 3,426  |        | 4,424  | 4,028  | 5,025  |        |
| Weight                                                                                            | Unit                               |          |                                   | kg        | 764                               | 945    | 947    | 1,206  | 1,572  | 1,478  | 1,533  | 1,569  |
|                                                                                                   | Operation weight                   |          |                                   | kg        | 772                               | 953    | 954    | 1,214  | 1,583  | 1,495  | 1,544  | 1,583  |
| Water heat exchanger                                                                              | Type                               |          |                                   |           | Plate heat exchanger              |        |        |        |        |        |        |        |
|                                                                                                   | Water volume                       |          |                                   | l         | 7                                 |        |        |        | 11     |        |        | 14     |
|                                                                                                   | Water flow rate                    | Cooling  | Nom.                              | l/s       | 3.5                               | 4.6    | 5.7    | 7.2    | 8.9    | 9      | 10     | 10.8   |
|                                                                                                   | Water pressure drop                | Cooling  | Nom.                              | kPa       | 14.4                              | 23.4   | 34.2   | 52.2   | 43.5   | 44.8   | 53.5   | 43.6   |
|                                                                                                   |                                    |          |                                   |           |                                   |        |        |        |        |        |        |        |
| Air heat exchanger                                                                                | Type                               |          |                                   |           | High efficiency fin and tube type |        |        |        |        |        |        |        |
| Compressor                                                                                        | Type                               |          |                                   |           | Scroll compressor                 |        |        |        |        |        |        |        |
|                                                                                                   | Quantity                           |          |                                   |           | 2                                 |        |        |        | 4      | 2      | 4      |        |
| Fan                                                                                               | Type                               |          |                                   |           | Direct propeller                  |        |        |        |        |        |        |        |
|                                                                                                   | Quantity                           |          |                                   |           | 4                                 | 6      | 8      |        | 10     |        |        | 12     |
|                                                                                                   | Air flow rate                      | Nom.     |                                   | l/s       | 6,026                             | 9,483  | 12,644 | 12,052 | 15,064 | 15,065 | 18,078 |        |
|                                                                                                   | Speed                              |          |                                   | rpm       | 1,200                             |        |        |        |        |        |        |        |
|                                                                                                   |                                    |          |                                   |           |                                   |        |        |        |        |        |        |        |
| Sound power level                                                                                 | Cooling                            | Nom.     |                                   | dBA       | 78                                | 82     | 84     | 85     | 84     | 87     | 86     |        |
| Sound pressure level                                                                              | Cooling                            | Nom.     |                                   | dBA       | 60                                | 64     | 65     | 67     | 66     | 68     | 67     |        |
| Refrigerant                                                                                       | Type                               |          |                                   |           | R-32                              |        |        |        |        |        |        |        |
|                                                                                                   | Charge                             |          |                                   | kg        | 13.3                              | 14.7   | 19.3   | 24.5   | 29     | 34     | 36.2   | 43     |
|                                                                                                   | Circuits                           | Quantity |                                   |           | 1                                 |        |        |        | 2      | 1      | 2      |        |
| Piping connections                                                                                | Evaporator water inlet/outlet (OD) |          |                                   | mm        | 88.9                              |        |        |        |        |        |        |        |
| Unit                                                                                              | Starting current                   | Max      |                                   | A         | 211                               | 327    | 343    | 464    | 408    | 495    | 425    | 439    |
|                                                                                                   | Running current                    | Cooling  | Nom.                              | A         | 55                                | 67     | 77     | 101    | 128    | 126    | 136    | 149    |
|                                                                                                   | Max                                |          |                                   | A         | 68                                | 85     | 101    | 131    | 166    | 163    | 183    | 197    |
| Power supply                                                                                      | Phase/Frequency/Voltage            |          |                                   | Hz/V      | 3~/50/400                         |        |        |        |        |        |        |        |



MicroTech 4



EWYT-B-SR

| Heating & Cooling                                                                                                       |                                    |          |                                           | EWYT-B-SR | 300                               | 340    | 390    | 430    | 490    | 540    | 590    | 630    |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|-------------------------------------------|-----------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| SEER                                                                                                                    |                                    |          |                                           |           | 4.18                              | 4.37   | 4.21   | 4.19   | 4.49   |        | 4.46   | 4.52   |
| <div>Space heating</div> <div></div> | Average climate water outlet 35°C  | General  | SCOP<br>Seasonal space heating eff. class |           | 3.42                              | 3.49   |        | 3.57   | 3.65   | 3.60   | 3.67   | 3.66   |
|                                                                                                                         |                                    |          |                                           |           |                                   |        |        |        |        |        |        |        |
| Cooling capacity                                                                                                        | Nom.                               |          |                                           | kW        | 265                               | 311    | 344    | 368    | 424    | 470    | 519    | 557    |
| Heating capacity                                                                                                        | Nom.                               |          |                                           | kW        | 295.81                            | 335.24 | 384.62 | 426.79 | 477.49 | 528.73 | 581.03 | 615.34 |
| Power input                                                                                                             | Cooling                            | Nom.     |                                           | kW        | 102                               | 117    | 131    | 147    | 172    | 195    | 207    | 221    |
|                                                                                                                         | Heating                            | Nom.     |                                           | kW        | 101.89                            | 113.31 | 131.71 | 144.34 | 160.28 | 178.33 | 194.13 | 206.57 |
| Capacity control                                                                                                        | Method                             |          |                                           |           | Step                              |        |        |        |        |        |        |        |
|                                                                                                                         | Minimum capacity                   |          |                                           | %         | 22                                | 19     | 17     | 25     | 22     | 19     | 18     | 17     |
| EER                                                                                                                     |                                    |          |                                           |           | 2.59                              | 2.64   | 2.61   | 2.5    | 2.46   | 2.41   | 2.5    | 2.51   |
| COP                                                                                                                     |                                    |          |                                           |           | 2.903                             | 2.959  | 2.92   | 2.957  | 2.979  | 2.965  | 2.993  | 2.979  |
| IPLV                                                                                                                    |                                    |          |                                           |           | 4.29                              | 4.69   | 4.58   | 4.61   | 4.78   | 4.89   | 4.82   | 4.91   |
| Dimensions                                                                                                              | Unit                               | Height   | Width                                     | Length    | mm                                | 2,516  |        |        |        |        |        |        |
|                                                                                                                         |                                    |          |                                           |           |                                   | 2,224  |        |        |        |        |        |        |
|                                                                                                                         |                                    |          |                                           |           |                                   | 3,418  |        | 4,316  |        |        | 5,211  |        |
| Weight                                                                                                                  | Unit                               |          |                                           | kg        | 2,627                             | 2,978  | 3,390  | 3,427  | 3,614  | 3,815  | 4,218  | 4,395  |
|                                                                                                                         | Operation weight                   |          |                                           | kg        | 2,640                             | 2,997  | 3,409  | 3,446  | 3,641  | 3,542  | 4,253  | 4,436  |
| Water heat exchanger                                                                                                    | Type                               |          |                                           |           | Plate heat exchanger              |        |        |        |        |        |        |        |
|                                                                                                                         | Water volume                       |          |                                           | l         |                                   | 20     |        | 27     |        | 35     | 41     |        |
|                                                                                                                         | Water flow rate                    | Cooling  | Nom.                                      | l/s       | 12.7                              | 14.8   | 16.4   | 17.5   | 20.2   | 22.4   | 24.8   | 26.6   |
|                                                                                                                         | Water pressure drop                | Cooling  | Nom.                                      | kPa       | 58.1                              | 47.6   | 57     | 64.4   | 56.3   | 67.8   | 56     | 63.4   |
| Air heat exchanger                                                                                                      | Type                               |          |                                           |           | High efficiency fin and tube type |        |        |        |        |        |        |        |
| Compressor                                                                                                              | Type                               |          |                                           |           | Scroll compressor                 |        |        |        |        |        |        |        |
|                                                                                                                         | Quantity                           |          |                                           |           | 4                                 |        | 5      |        | 6      |        |        |        |
| Fan                                                                                                                     | Type                               |          |                                           |           | Direct propeller                  |        |        |        |        |        |        |        |
|                                                                                                                         | Quantity                           |          |                                           |           | 5                                 | 6      | 8      |        |        | 10     |        |        |
|                                                                                                                         | Air flow rate                      | Nom.     |                                           | l/s       | 23,608                            | 28,330 | 39,446 |        | 38,610 | 37,774 | 48,262 | 47,216 |
|                                                                                                                         | Speed                              |          |                                           | rpm       | 780                               |        |        |        |        |        |        |        |
| Sound power level                                                                                                       | Cooling                            | Nom.     |                                           | dBA       | 87                                | 88     | 89     | 89.3   | 89.4   | 89.5   | 90.4   | 90.5   |
| Sound pressure level                                                                                                    | Cooling                            | Nom.     |                                           | dBA       | 68                                |        | 69     | 69.3   | 69.4   | 69.5   | 70     | 70.1   |
| Refrigerant                                                                                                             | Type                               |          |                                           |           | R-32                              |        |        |        |        |        |        |        |
|                                                                                                                         | Charge                             |          |                                           | kg        | 40.3                              | 47.2   | 50.4   | 79     | 89     | 68.8   | 77.6   | 82     |
|                                                                                                                         | Circuits                           | Quantity |                                           |           |                                   | 2      |        |        |        |        |        |        |
| Piping connections                                                                                                      | Evaporator water inlet/outlet (OD) |          |                                           | mm        | 88.9                              |        |        |        |        |        | 114.3  |        |
| Unit                                                                                                                    | Starting current                   | Max      |                                           | A         | 564                               | 598    | 636    | 666    | 712    | 757    | 795    | 825    |
|                                                                                                                         | Running current                    | Cooling  | Nom.                                      | A         | 173                               | 196    | 224    | 251    | 292    | 330    | 353    | 373    |
|                                                                                                                         | Max                                |          |                                           | A         | 232                               | 266    | 304    | 334    | 379    | 425    | 463    | 493    |
| Power supply                                                                                                            | Phase/Frequency/Voltage            |          |                                           | Hz/V      | 3~/50/400                         |        |        |        |        |        |        |        |

# Air cooled multi-scroll heat pump, high efficiency, standard/low sound

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimise the overall chiller power input

| Heating & Cooling                                                                                |                                       |          |                                           | EWYT-B-XS/XL |        | 085                               | 115    | 135    | 175    | 215    | 215       | 235    | 265    | 310    | 350    | 400    | 440    | 500    | 560    | 600    | 630    | 650    |        |
|--------------------------------------------------------------------------------------------------|---------------------------------------|----------|-------------------------------------------|--------------|--------|-----------------------------------|--------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER                                                                                             |                                       |          |                                           |              |        | 4.24                              | 4.38   | 4.24   | 4.45   | 4.41   | 4.21      | 4.4    | 4.13   | 4.57   | 4.67   | 4.54   | 4.57   | 4.72   | 4.71   | 4.7    | 4.69   | 4.4    |        |
|  Space heating | Average climate water outlet 35°C     | General  | SCOP<br>Seasonal space heating eff. class |              | A+     | 3.70                              | 3.72   | 3.70   | 3.67   | 3.70   | 3.66      | 3.86   | 3.77   | 3.90   |        | 3.82   | 3.85   | 3.83   | 3.81   | 3.79   | 3.76   | 3.53   |        |
|                                                                                                  |                                       |          |                                           |              |        |                                   |        |        |        |        |           |        |        |        |        |        |        |        |        |        |        |        |        |
| Cooling capacity                                                                                 | Nom.                                  |          |                                           |              |        | kW                                | 80     | 104    | 126    | 166    | 206       |        | 229    | 250    | 288    | 328    | 370    | 406    | 467    | 519    | 560    | 597    | 610    |
| Heating capacity                                                                                 | Nom.                                  |          |                                           |              |        | kW                                | 85.86  | 111.02 | 133.18 | 176.29 | 214.81    | 218.29 | 239.37 | 260.83 | 305.53 | 349.96 | 400.64 | 443.87 | 500.13 | 555.95 | 598.67 | 633.91 | 649.7  |
| Power input                                                                                      | Cooling                               | Nom.     |                                           |              |        | kW                                | 26.3   | 35.1   | 42.1   | 56.6   | 68        | 71.8   | 74.9   | 83.4   | 93.9   | 107    | 122    | 134    | 158    | 177    | 193    | 204    | 207    |
|                                                                                                  | Heating                               | Nom.     |                                           |              |        | kW                                | 26.06  | 33.19  | 39.11  | 51.68  | 62.55     | 64.91  | 69.49  | 76.15  | 88.61  | 101.7  | 117.65 | 127.8  | 147.3  | 165.04 | 179.94 | 191.66 | 203.16 |
| Capacity control                                                                                 | Method                                |          |                                           |              |        |                                   | Step   |        |        |        |           |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                                  | Minimum capacity                      |          |                                           |              |        | %                                 | 50     | 38     | 50     | 38     | 19        | 50     | 17     | 25     | 22     | 19     | 17     | 25     | 22     | 19     | 18     | 17     |        |
| EER                                                                                              |                                       |          |                                           |              |        | 3.03                              | 2.95   | 2.99   | 2.93   | 3.03   | 2.86      | 3.06   | 3      | 3.06   | 3.05   | 3.02   | 3.01   | 2.95   | 2.93   | 2.9    | 2.92   | 2.95   |        |
| COP                                                                                              |                                       |          |                                           |              |        | 3.295                             | 3.345  | 3.405  | 3.411  | 3.434  | 3.363     | 3.444  | 3.425  | 3.448  | 3.441  | 3.405  | 3.473  | 3.395  | 3.369  | 3.327  | 3.308  | 3.198  |        |
| IPLV                                                                                             |                                       |          |                                           |              |        | 4.75                              |        | 4.69   |        | 4.87   | 4.72      | 4.87   | 4.64   | 4.94   |        | 4.96   | 5      | 5.1    | 5.08   | 5.05   | 4.66   |        |        |
| Dimensions                                                                                       | Unit                                  | Height   | Width                                     | Length       | mm     | 1,801                             |        |        |        |        |           |        |        |        | 2,516  |        |        |        |        |        |        |        |        |
|                                                                                                  |                                       |          |                                           |              |        | 1,211                             |        |        |        |        |           |        |        |        | 2,224  |        |        |        |        |        |        |        |        |
|                                                                                                  |                                       |          |                                           |              |        | 2,776                             | 3,426  |        | 4,024  |        | 5,625     |        | 4,628  |        | 6,223  |        | 4,316  |        | 5,211  |        | 6,112  |        | 7,010  |
| Weight (XS)                                                                                      | Unit                                  |          |                                           |              | kg     | 927                               | 930    | 996    | 1,367  | 2,099  | 1,522     | 1,766  | 1,797  | 3,073  | 3,254  | 3,613  | 3,933  | 4,208  | 4,457  | 4,791  | 4,957  |        |        |
|                                                                                                  | Operation weight                      |          |                                           |              | kg     | 938                               | 941    | 1,007  | 1,393  | 2,135  | 1,564     | 1,796  | 1,827  | 3,103  | 3,289  | 3,648  | 3,945  | 4,270  | 4,527  | 4,861  | 5,087  |        |        |
| Weight (XL)                                                                                      | Unit                                  |          |                                           |              | kg     | 927                               | 930    | 996    | 1,367  | 2,099  | 1,522     | 1,766  | 1,797  | 3,181  | 3,367  | 3,716  | 4,035  | 4,337  | 4,586  | 4,922  | 5,089  |        |        |
|                                                                                                  | Operation weight                      |          |                                           |              | kg     | 938                               | 941    | 1,007  | 1,393  | 2,135  | 1,564     | 1,796  | 1,827  | 3,216  | 3,402  | 3,751  | 4,097  | 4,399  | 4,656  | 4,992  | 5,159  |        |        |
| Water heat exchanger                                                                             | Type                                  |          |                                           |              |        | Plate heat exchanger              |        |        |        |        |           |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                                  | Water volume                          |          |                                           |              | l      | 11                                |        |        | 16     | 35     | 16        | 35     |        |        | 62     |        |        | 70     |        |        |        |        |        |
|                                                                                                  | Water flow rate                       | Cooling  | Nom.                                      | l/s          | 3.8    | 5                                 | 6      | 7.9    | 9.8    |        | 10.9      | 11.9   | 13.7   | 15.7   | 17.7   | 19.4   | 22.3   | 24.7   | 26.7   | 28.5   | 29.1   |        |        |
|                                                                                                  | Water pressure drop                   | Cooling  | Nom.                                      | kPa          | 9.49   | 15.2                              | 21.5   | 20.1   | 12     | 29.6   | 14.6      | 17.1   | 22     | 27.9   | 34.7   | 23.6   | 30.4   | 33.6   | 38.6   | 43.2   | 45     |        |        |
| Air heat exchanger                                                                               | Type                                  |          |                                           |              |        | High efficiency fin and tube type |        |        |        |        |           |        |        |        |        |        |        |        |        |        |        |        |        |
| Compressor                                                                                       | Type                                  |          |                                           |              |        | Scroll compressor                 |        |        |        |        |           |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                                  | Quantity                              |          |                                           |              |        | 2                                 |        |        | 4      | 2      | 4         |        |        |        |        | 5      | 6      |        |        |        |        |        |        |
| Fan                                                                                              | Type                                  |          |                                           |              |        | Direct propeller                  |        |        |        |        |           |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                                  | Quantity                              |          |                                           |              |        | 6                                 | 8      | 10     | 14     | 12     | 16        |        | 7      | 8      | 10     |        | 12     | 14     |        |        |        |        |        |
|                                                                                                  | Air flow rate                         | Nom.     | l/s                                       | 9,039        | 12,644 | 12,052                            | 15,065 | 21,090 | 18,078 | 24,104 |           | 29,593 | 33,820 | 43,351 | 42,276 | 52,021 | 50,730 | 60,692 | 59,186 | 78,410 |        |        |        |
|                                                                                                  | Speed                                 |          |                                           |              | rpm    | 1,200                             |        |        |        |        |           |        |        | 700    |        |        |        |        |        |        |        | 900    |        |
| Sound power level (XS)                                                                           | Cooling                               | Nom.     |                                           |              | dBA    | 81                                | 86     | 88     | 90     | 89     | 91        | 90     | 91     | 92     | 93     | 94.2   | 95.3   | 95.6   | 96.1   | 96.5   | 98.4   |        |        |
| Sound power level (XL)                                                                           | Cooling                               | Nom.     |                                           |              | dBA    | 79.5                              | 82.6   | 84.1   | 86.2   | 85.4   | 87.5      | 86.4   | 87.1   | 86     | 87     | 88     | 88.2   | 88.9   | 89     | 89.6   | 89.7   | 95.3   |        |
| Sound pressure level (XS)                                                                        | Cooling                               | Nom.     |                                           |              | dBA    | 63                                | 67     | 69     | 71     | 69     | 73        | 70     | 71     | 72     | 73     | 73.8   | 74.4   | 74.5   | 74.8   | 75     | 75.4   | 77.3   |        |
| Sound pressure level (XL)                                                                        | Cooling                               | Nom.     |                                           |              | dBA    | 61                                | 64     | 65     | 67     | 66     | 68        | 66     | 67     | 66     | 67     | 67.6   | 67.8   | 68.1   | 68.2   | 68.5   | 68.6   | 74.2   |        |
| Refrigerant                                                                                      | Type                                  |          |                                           |              |        | R-32                              |        |        |        |        |           |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                                  | Charge                                |          |                                           |              | kg     | 17.7                              | 18.3   | 22     | 33.7   | 42.4   | 51.6      | 48.6   | 46     | 52.4   | 60.4   | 70.5   | 84     | 87.5   | 92     | 114    | 100    | 113    |        |
|                                                                                                  | Circuits                              | Quantity |                                           |              |        | 1                                 |        |        | 2      | 1      | 2         |        |        |        |        |        |        |        |        |        |        |        |        |
| Piping connections                                                                               | Evaporator water inlet/outlet (OD) mm |          |                                           |              |        | 88.9                              |        |        |        |        |           |        |        |        |        | 114.3  |        |        |        |        | 88.9   |        |        |
| Unit                                                                                             | Starting current                      | Max      |                                           |              | A      | 213                               | 329    | 343    | 465    | 412    | 497       | 429    | 443    | 562    | 594    | 629    | 659    | 710    | 755    | 790    | 820    | 841    |        |
|                                                                                                  | Running current                       | Cooling  | Nom.                                      | A            | 53     | 65                                | 75     | 99     | 122    | 123    | 132       | 143    | 170    | 192    | 215    | 236    | 276    | 313    | 338    | 358    | 361    |        |        |
|                                                                                                  |                                       | Max      | A                                         | 70           | 87     | 101                               | 133    | 170    | 165    | 186    | 3~/50/400 |        |        |        |        |        |        |        |        |        |        |        |        |
| Power supply                                                                                     | Phase/Frequency/Voltage               |          |                                           |              | Hz/V   | 3~/50/400                         |        |        |        |        |           |        |        |        |        |        |        |        |        |        |        |        |        |



EWYT-B-XS

EWYT-B-XL

| Heating & Cooling                                                     |                                       |         |      | EWYT-B-XS/XL                      | 310                               | 350    | 400      | 440      | 500      | 560     | 600     | 630     | 650    |     |     |     |
|-----------------------------------------------------------------------|---------------------------------------|---------|------|-----------------------------------|-----------------------------------|--------|----------|----------|----------|---------|---------|---------|--------|-----|-----|-----|
| SEER                                                                  |                                       |         |      |                                   | 4.66                              | 4.81   | 4.68     | 4.63     | 4.86     | 4.83    | 4.83    | 4.82    | 4.58   |     |     |     |
| <div><div></div><div></div><div></div><div></div></div> Space heating | Average climate water outlet 35°C     | General | SCOP | Seasonal space heating eff. class | 3.96                              | 3.97   | 3.93     | 3.91     | 3.96     | 3.93    | 3.87    |         | 3.68   |     |     |     |
|                                                                       |                                       |         |      |                                   | -                                 |        |          |          |          |         |         |         |        |     |     |     |
| Cooling capacity                                                      | Nom.                                  |         |      | kW                                | 288                               | 328    | 370      | 406      | 467      | 519     | 560     | 597     | 610    |     |     |     |
| Heating capacity                                                      | Nom.                                  |         |      | kW                                | 305.53                            | 349.96 | 400.64   | 443.87   | 500.13   | 555.95  | 598.67  | 633.91  | 649.7  |     |     |     |
| Power input                                                           | Cooling                               | Nom.    |      | kW                                | 94.1                              | 107    | 123      | 135      | 158      | 177     | 193     | 205     | 207    |     |     |     |
|                                                                       | Heating                               |         |      | kW                                | 88.81                             | 101.93 | 117.94   | 128.08   | 147.63   | 165.38  | 180.33  | 192.05  | 203.95 |     |     |     |
| Capacity control                                                      | Method                                |         |      |                                   | Step                              |        |          |          |          |         |         |         |        |     |     |     |
|                                                                       | Minimum capacity                      |         |      | %                                 | 22                                | 19     | 17       | 25       | 22       | 19      | 18      | 17      |        |     |     |     |
| EER                                                                   |                                       |         |      |                                   | 3.06                              | 3.05   | 3.01     |          | 2.95     | 2.92    | 2.9     | 2.91    | 2.94   |     |     |     |
| COP                                                                   |                                       |         |      |                                   | 3.44                              | 3.433  | 3.397    | 3.466    | 3.388    | 3.362   | 3.32    | 3.301   | 3.186  |     |     |     |
| IPLV                                                                  |                                       |         |      |                                   | 4.97                              | 5.16   | 5.13     | 5.16     | 5.3      | 5.29    | 5.22    | 5.16    | 4.99   |     |     |     |
| Dimensions                                                            | Unit                                  | Height  |      | mm                                | 2,516                             |        |          |          |          |         |         |         |        |     |     |     |
|                                                                       |                                       | Width   |      | mm                                | 2,224                             |        |          |          |          |         |         |         |        |     |     |     |
|                                                                       |                                       | Length  |      | mm                                | 4,125                             |        |          | 5,025    |          | 5,925   |         | 6,825   |        |     |     |     |
| Weight (XS)                                                           | Unit                                  |         |      | kg                                | 2,830                             | 3,080  | 3,650    | 3,750    | 4,206    | 4,296   | 4,760   | 4,860   |        |     |     |     |
|                                                                       | Operation weight                      |         |      | kg                                | 2,865                             | 3,115  | 3,685.37 | 3,811.88 | 4,267.88 | 4,366.2 | 4,830.2 | 4,930.2 |        |     |     |     |
| Weight (XL)                                                           | Unit                                  |         |      | kg                                | 3,140                             | 3,240  | 3,650    | 3,750    | 4,206    | 4,296   | 4,760   | 4,860   |        |     |     |     |
|                                                                       | Operation weight                      |         |      | kg                                | 3,175                             | 3,275  | 3,685.37 | 3,811.88 | 4,267.88 | 4,366.2 | 4,830.2 | 4,930.2 |        |     |     |     |
| Water heat exchanger                                                  | Type                                  |         |      |                                   | Plate heat exchanger              |        |          |          |          |         |         |         |        |     |     |     |
|                                                                       | Water volume                          |         |      | l                                 | 35                                |        |          | 62       |          | 70      |         |         |        |     |     |     |
|                                                                       | Water flow rate                       | Cooling | Nom. | l/s                               | 13.7                              | 15.7   | 17.7     | 19.4     | 22.3     | 24.7    | 26.7    | 28.5    | 29.1   |     |     |     |
|                                                                       | Water pressure drop                   | Cooling | Nom. | kPa                               | 22                                | 27.9   | 34.7     | 23.6     | 30.4     | 33.6    | 38.6    | 43.2    | 45     |     |     |     |
| Air heat exchanger                                                    | Type                                  |         |      |                                   | High efficiency fin and tube type |        |          |          |          |         |         |         |        |     |     |     |
| Compressor                                                            | Type                                  |         |      |                                   | Scroll compressor                 |        |          |          |          |         |         |         |        |     |     |     |
|                                                                       | Quantity                              |         |      |                                   | 4                                 |        |          |          | 5        |         | 6       |         |        |     |     |     |
| Fan                                                                   | Type                                  |         |      |                                   | Direct propeller                  |        |          |          |          |         |         |         |        |     |     |     |
|                                                                       | Quantity                              |         |      |                                   | 7                                 | 8      | 10       |          | 12       |         | 14      |         |        |     |     |     |
|                                                                       | Air flow rate                         | Nom.    | l/s  |                                   | 29,593                            | 33,820 | 43,351   | 42,276   | 52,021   | 50,730  | 60,692  | 59,186  | 78,410 |     |     |     |
|                                                                       | Speed                                 |         |      | rpm                               | 700                               |        |          |          |          |         |         |         |        | 900 |     |     |
| Sound power level (XS)                                                | Cooling                               | Nom.    |      | dBA                               | 92.4                              | 93.4   | 94.2     | 94.8     | 95.3     | 95.6    | 96.1    | 96.5    | 98.4   |     |     |     |
| Sound power level (XL)                                                | Cooling                               | Nom.    |      | dBA                               | 86.4                              | 87.1   | 88       | 88.2     | 88.9     | 89      | 89.6    | 89.7    | 95.3   |     |     |     |
| Sound pressure level (XS)                                             | Cooling                               | Nom.    |      | dBA                               | 72.4                              | 73.4   | 73.8     | 74.4     | 74.5     | 74.8    | 75      | 75.4    | 77.3   |     |     |     |
| Sound pressure level (XL)                                             | Cooling                               | Nom.    |      | dBA                               | 66.4                              | 67.1   | 67.6     | 67.8     | 68.1     | 68.2    | 68.5    | 68.6    | 74.2   |     |     |     |
| Refrigerant                                                           | Type                                  |         |      |                                   |                                   |        |          |          |          |         |         |         |        |     |     |     |
|                                                                       | Charge                                |         |      | kg                                | 52.4                              | 60.4   | 70.5     | 84       | 87.5     | 92      | 114     | 100     | 113    |     |     |     |
|                                                                       | Circuits                              |         |      |                                   | 2                                 |        |          |          |          |         |         |         |        |     |     |     |
| Piping connections                                                    | Evaporator water inlet/outlet (OD) mm |         |      |                                   | 88.9                              |        |          | 114.3    |          |         |         |         |        |     |     |     |
| Unit                                                                  | Starting current                      | Max     | A    |                                   | 572                               | 606    | 644      | 674      | 728      | 773     | 811     | 841     |        |     |     |     |
|                                                                       |                                       |         |      | Running current                   | Cooling                           | Nom.   | A        | 170      | 193      | 216     | 237     | 277     | 313    | 339 | 359 | 362 |
|                                                                       |                                       |         |      | Max                               | A                                 | 240    | 274      | 312      | 342      | 395     | 441     | 479     | 509    |     |     |     |
| Power supply                                                          | Phase/Frequency/Voltage               |         |      | Hz/V                              |                                   |        |          |          |          |         |         |         |        |     |     |     |

# Air cooled multi-scroll heat pump, high efficiency, reduced sound

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing an R-32 product reduces environmental impact by 68% compared to R-410A and directly lowers energy consumption thanks to its superior energy efficiency.
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimise the overall chiller power input

| Heating & Cooling        |                                              |                    |                 | EWYT-B-XR                                    | 085                               | 115    | 135    | 175    | 215    | 215    | 235    | 265    |
|--------------------------|----------------------------------------------|--------------------|-----------------|----------------------------------------------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| SEER                     |                                              |                    |                 |                                              | 4.21                              | 4.37   | 4.21   | 4.41   | 4.16   | 4.42   | 4.43   | 4.13   |
| <div>Space heating</div> | <div>Average climate water outlet 35°C</div> | <div>General</div> | <div>SCOP</div> | <div>Seasonal space heating eff. class</div> | 3.66                              | 3.71   | 3.65   | 3.83   | 3.74   | 3.70   | 3.82   | 3.81   |
|                          |                                              |                    |                 |                                              | A+                                |        | -      |        |        |        |        |        |
| Cooling capacity         | Nom.                                         |                    |                 | kW                                           | 79                                | 103    | 124    | 164    | 203    | 204    | 227    | 247    |
| Heating capacity         | Nom.                                         |                    |                 | kW                                           | 84.9                              | 110.32 | 132.02 | 174.14 | 216.57 | 213.48 | 237.57 | 256.58 |
| Power input              | Cooling                                      | Nom.               |                 | kW                                           | 26.6                              | 35.4   | 42.6   | 57.4   | 72.9   | 68.8   | 75.7   | 84.4   |
|                          | Heating                                      | Nom.               |                 | kW                                           | 25.87                             | 32.94  | 38.82  | 51.3   | 64.51  | 62.13  | 68.99  | 75.49  |
| Capacity control         | Method                                       |                    |                 |                                              | Step                              |        |        |        |        |        |        |        |
|                          | Minimum capacity                             |                    |                 | %                                            | 50                                | 38     | 50     | 38     | 50     | 19     | 17     | 25     |
| EER                      |                                              |                    |                 |                                              | 2.98                              | 2.9    | 2.92   | 2.86   | 2.79   | 2.97   | 3      | 2.93   |
| COP                      |                                              |                    |                 |                                              | 3.282                             | 3.349  | 3.401  | 3.394  | 3.357  | 3.436  | 3.443  | 3.399  |
| IPLV                     |                                              |                    |                 |                                              | 4.73                              |        | 4.67   | 4.65   | 4.67   | 4.86   | 4.82   | 4.62   |
| Dimensions               | Unit                                         | Height             |                 | mm                                           | 1,801                             |        |        |        |        |        |        |        |
|                          |                                              | Width              |                 | mm                                           | 1,211                             |        |        |        |        |        |        |        |
|                          |                                              | Length             |                 | mm                                           | 2,776                             | 3,426  |        | 4,024  | 4,628  | 5,625  | 6,223  |        |
| Weight                   | Unit                                         |                    |                 | kg                                           | 927                               | 930    | 996    | 1,367  | 1,522  | 2,099  | 1,766  | 1,797  |
|                          | Operation weight                             |                    |                 | kg                                           | 938                               | 941    | 1,007  | 1,393  | 1,564  | 2,135  | 1,796  | 1,827  |
| Water heat exchanger     | Type                                         |                    |                 |                                              | Plate heat exchanger              |        |        |        |        |        |        |        |
|                          | Water volume                                 |                    |                 | l                                            | 11                                |        |        | 16     |        | 35     |        |        |
|                          | Water flow rate                              | Cooling            | Nom.            | l/s                                          | 3.8                               | 4.9    | 5.9    | 7.8    | 9.7    |        | 10.8   | 11.8   |
|                          | Water pressure drop                          | Cooling            | Nom.            | kPa                                          | 9.33                              | 14.9   | 21.1   | 19.6   | 28.9   | 11.8   | 14.3   | 16.8   |
| Air heat exchanger       | Type                                         |                    |                 |                                              | High efficiency fin and tube type |        |        |        |        |        |        |        |
| Compressor               | Type                                         |                    |                 |                                              | Scroll compressor                 |        |        |        |        |        |        |        |
|                          | Quantity                                     |                    |                 |                                              | 2                                 |        |        |        |        | 4      |        |        |
| Fan                      | Type                                         |                    |                 |                                              | Direct propeller                  |        |        |        |        |        |        |        |
|                          | Quantity                                     |                    |                 |                                              | 6                                 | 8      |        | 10     | 12     | 14     | 16     |        |
|                          | Air flow rate                                | Nom.               |                 | l/s                                          | 8,298                             | 11,630 | 11,064 | 13,830 | 16,596 | 19,362 | 22,128 |        |
|                          | Speed                                        |                    |                 | rpm                                          | 1,108                             |        |        |        |        |        |        |        |
| Sound power level        | Cooling                                      | Nom.               |                 | dBA                                          | 77                                | 81     | 83     | 85     | 87     | 84     | 85     | 86     |
| Sound pressure level     | Cooling                                      | Nom.               |                 | dBA                                          | 59                                | 63     | 65     | 67     | 68     | 65     |        | 66     |
| Refrigerant              | Type                                         |                    |                 |                                              | R-32                              |        |        |        |        |        |        |        |
|                          | Charge                                       |                    |                 | kg                                           | 17.4                              | 18.4   | 21.5   | 30     | 40     | 44.6   | 50     | 53.4   |
|                          | Circuits                                     | Quantity           |                 |                                              |                                   | 1      |        |        |        |        | 2      |        |
| Piping connections       | Evaporator water inlet/outlet (OD)           |                    |                 | mm                                           | 88.9                              |        |        |        |        |        |        |        |
| Unit                     | Starting current                             | Max                |                 | A                                            | 213                               | 329    | 343    | 465    | 497    | 412    | 429    | 443    |
|                          | Running current                              | Cooling            | Nom.            | A                                            | 53                                | 65     | 75     | 100    | 124    | 123    | 133    | 145    |
|                          |                                              | Max                |                 | A                                            | 70                                | 87     | 101    | 133    | 165    | 170    | 186    | 201    |
| Power supply             | Phase/Frequency/Voltage                      |                    |                 | Hz/V                                         | 3~/50/400                         |        |        |        |        |        |        |        |





EWYT-B-XR

| Heating & Cooling                                                                                 |                                    |          |                                           | EWYT-B-XR | 310                               | 350    | 400    | 440    | 500    | 560    | 600    | 630    | 650    |
|---------------------------------------------------------------------------------------------------|------------------------------------|----------|-------------------------------------------|-----------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER                                                                                              |                                    |          |                                           |           | 4.74                              | 4.8    | 4.82   | 4.63   | 4.92   | 4.89   | 4.83   | 4.79   | 4.72   |
|  Space heating | Average climate water outlet 35°C  | General  | SCOP<br>Seasonal space heating eff. class |           | 4.06                              | 4.01   | 3.95   | 4.03   | 3.99   | 4.04   | 4.00   | 3.98   | 3.88   |
|                                                                                                   |                                    |          |                                           | -         |                                   |        |        |        |        |        |        |        |        |
| Cooling capacity                                                                                  | Nom.                               |          |                                           | kW        | 282                               | 321    | 364    | 398    | 458    | 507    | 548    | 583    | 600    |
| Heating capacity                                                                                  | Nom.                               |          |                                           | kW        | 301.04                            | 344.8  | 395.81 | 438.23 | 494.13 | 549.6  | 588.57 | 620.71 | 637.4  |
| Power input                                                                                       | Cooling                            | Nom.     |                                           | kW        | 95.2                              | 111    | 124    | 136    | 160    | 180    | 196    | 208    | 203    |
|                                                                                                   | Heating                            | Nom.     |                                           | kW        | 86.19                             | 98.95  | 114.46 | 124.61 | 143.5  | 161.2  | 175.33 | 186.93 | 193.22 |
| Capacity control                                                                                  | Method                             |          |                                           |           | Step                              |        |        |        |        |        |        |        |        |
|                                                                                                   | Minimum capacity                   |          |                                           | %         | 22                                | 19     | 17     | 25     | 22     | 19     | 18     | 17     |        |
| EER                                                                                               |                                    |          |                                           |           | 2.96                              | 2.95   | 2.93   | 2.91   | 2.85   | 2.81   | 2.8    |        | 2.94   |
| COP                                                                                               |                                    |          |                                           |           | 3.493                             | 3.485  | 3.458  | 3.517  | 3.443  | 3.409  | 3.357  | 3.321  | 3.299  |
| IPLV                                                                                              |                                    |          |                                           |           | 4.92                              | 5.12   | 5.26   | 5.12   | 5.34   | 5.32   | 5.22   | 5.23   | 5.19   |
| Dimensions                                                                                        | Unit                               | Height   |                                           | mm        | 2,514                             |        |        | 2,527  |        |        |        |        |        |
|                                                                                                   |                                    | Width    |                                           | mm        | 2,224                             |        |        |        |        |        |        |        |        |
|                                                                                                   |                                    | Length   |                                           | mm        | 4,316                             |        | 5,211  |        | 6,112  |        | 7,010  |        |        |
| Weight                                                                                            | Unit                               |          |                                           | kg        | 3,181                             | 3,367  | 3,716  | 4,035  | 4,337  | 4,586  | 4,922  | 5,089  |        |
|                                                                                                   | Operation weight                   |          |                                           | kg        | 3,216                             | 3,402  | 3,751  | 4,097  | 4,399  | 4,656  | 4,992  | 5,159  |        |
| Water heat exchanger                                                                              | Type                               |          |                                           |           | Plate heat exchanger              |        |        |        |        |        |        |        |        |
|                                                                                                   | Water volume                       |          |                                           | l         | 35                                |        |        | 62     |        | 70     |        |        |        |
|                                                                                                   | Water flow rate                    | Cooling  | Nom.                                      | l/s       | 13.4                              | 15.3   | 17.3   | 19     | 21.8   | 24.2   | 26.2   | 27.8   | 28.6   |
|                                                                                                   | Water pressure drop                | Cooling  | Nom.                                      | kPa       | 21.2                              | 26.8   | 33.5   | 22.7   | 29.2   | 32.2   | 37.1   | 41.4   | 43.7   |
| Air heat exchanger                                                                                | Type                               |          |                                           |           | High efficiency fin and tube type |        |        |        |        |        |        |        |        |
| Compressor                                                                                        | Type                               |          |                                           |           | Scroll compressor                 |        |        |        |        |        |        |        |        |
|                                                                                                   | Quantity                           |          |                                           |           | 4                                 |        |        |        | 5      |        | 6      |        |        |
| Fan                                                                                               | Type                               |          |                                           |           | Direct propeller                  |        |        |        |        |        |        |        |        |
|                                                                                                   | Quantity                           |          |                                           |           | 7                                 | 8      | 10     |        | 12     |        | 14     |        |        |
|                                                                                                   | Air flow rate                      | Nom.     |                                           | l/s       | 25,074                            | 28,656 | 36,808 | 35,820 | 44,169 | 42,984 | 51,531 | 50,148 | 66,104 |
|                                                                                                   | Speed                              |          |                                           | rpm       | 600                               |        |        |        |        |        |        |        |        |
| Sound power level                                                                                 | Cooling                            | Nom.     |                                           | dBA       | 84                                |        | 85.2   | 85.5   | 86.2   | 86.3   | 86.9   | 87.1   | 91.6   |
| Sound pressure level                                                                              | Cooling                            | Nom.     |                                           | dBA       | 64                                |        | 64.8   | 65.1   | 65.4   | 65.5   | 65.8   | 66     | 70.5   |
| Refrigerant                                                                                       | Type                               |          |                                           |           | R-32                              |        |        |        |        |        |        |        |        |
|                                                                                                   | Charge                             |          |                                           | kg        | 54.4                              | 62     | 71.5   | 78     | 114.5  | 93     | 103.4  | 106    | 109    |
|                                                                                                   | Circuits                           | Quantity |                                           |           | 2                                 |        |        |        |        |        |        |        |        |
| Piping connections                                                                                | Evaporator water inlet/outlet (OD) |          |                                           | mm        | 88.9                              |        |        | 114.3  |        |        |        |        |        |
| Unit                                                                                              | Starting current                   | Max      |                                           | A         | 572.0                             | 606.0  | 644.0  | 674.0  | 728.0  | 773.0  | 811.0  | 841.0  |        |
|                                                                                                   | Running current                    | Cooling  | Nom.                                      | A         | 169.0                             | 192.0  | 214.0  | 237.0  | 276.0  | 315.0  | 339.0  | 360.0  | 353.0  |
|                                                                                                   | Running current                    | Max      |                                           | A         | 240.0                             | 274.0  | 312.0  | 342.0  | 395.0  | 441.0  | 479.0  | 509.0  |        |
| Power supply                                                                                      | Phase/Frequency/Voltage            |          |                                           | Hz/V      | 3~/50/400                         |        |        |        |        |        |        |        |        |

# Air cooled scroll inverter heat pump, split version

- Inverter Heat Pump in Split version
- Daikin scroll compressor
- High part load efficiency for low running cost
- Wide operation range and hot water production up to 60°C
- Integrated hydronic module as standard



EWYT-CZI



EWYT-CZI

| Indoor Unit       |          |                                    |           | EWYT | 021CZI-A1 | 032CZI-A1 | 040CZI-A1 | 064CZI-A2 |
|-------------------|----------|------------------------------------|-----------|------|-----------|-----------|-----------|-----------|
| Casing            | Colour   | Ivory white                        |           |      |           |           |           |           |
|                   | Material | Galvanized and painted steel sheet |           |      |           |           |           |           |
| Dimensions        | Unit     | HeightxWidthxDepth                 | mm        |      |           |           |           |           |
| Weight            | Unit     |                                    | kg        |      | 133       | 144       |           | 172       |
| Operation range   | Heating  | Ambient                            | Min.~Max. | °C   |           | -20 ~35   |           |           |
|                   |          | Water side                         | Min.~Max. | °C   |           | 20 ~60    |           |           |
|                   | Cooling  | Ambient                            | Min.~Max. | °CDB |           | -20 ~45   |           |           |
|                   |          | Water side                         | Min.~Max. | °C   |           | 4 ~20     |           |           |
| Sound power level | Nom.     |                                    |           | dBA  | 63.0      | 64.5      |           | 66.0      |

# Air cooled scroll inverter heat pump, split version

- Inverter Heat Pump in Split version
- Daikin scroll compressor
- High part load efficiency for low running cost
- Wide operation range and hot water production up to 60°C
- Integrated hydronic module as standard



EWYT-CZO

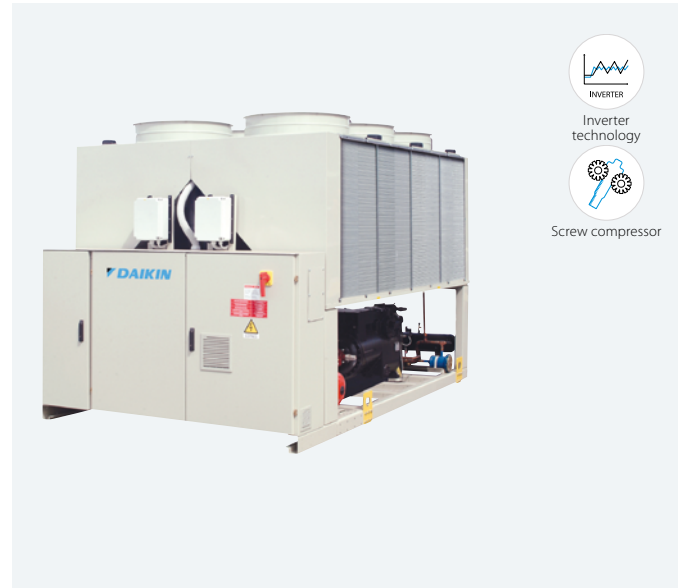


EWYT-CZO

| Outdoor Unit         |                         |                    |        | EWYT | 021CZO-A1       | 032CZO-A1         | 040CZO-A1 | 064CZO-A2       |
|----------------------|-------------------------|--------------------|--------|------|-----------------|-------------------|-----------|-----------------|
| Dimensions           | Unit                    | HeightxWidthxDepth | mm     |      | 1,878x1,152x802 | 1,878x1,752x802   |           | 1,878x2,906x814 |
| Weight               | Unit                    |                    | kg     |      | 265             | 357               |           | 620             |
| Compressor           | Quantity                |                    |        |      |                 | 1                 |           | 2               |
|                      | Type                    |                    |        |      |                 | Scroll compressor |           |                 |
| Refrigerant          | Type                    |                    |        |      |                 | R-32              |           |                 |
|                      | GWP                     |                    |        |      |                 | 675.0             |           |                 |
|                      | Charge                  |                    | kg     |      | 7.3             | 9.5               | 9.8       | 16.6            |
|                      | Charge                  |                    | TCO2Eq |      | 4,928.0         | 6,422.0           | 6,635.0   | 11,255.0        |
| Sound power level    | Cooling                 | Nom.               | dBA    |      | 76.0            | 79.0              | 80.0      | 83.0            |
| Sound pressure level | Cooling                 | Nom.               | dBA    |      | 59.6            | 62.2              | 63.2      | 65.4            |
| Power supply         | Phase/Frequency/Voltage |                    | Hz/V   |      | 3N~/50/400      |                   |           |                 |

# Air cooled screw inverter heat pump, standard efficiency, standard sound

- Ideal solution for commercial comfort cooling and/or heating applications
- Optimum ESEER values
- 2-3 truly independent refrigerant circuits
- Low starting current
- DX shell and tube evaporator – one pass refrigerant side to minimise pressure drops
- Standard electronic expansion valve
- Optimised defrost cycles
- Partial and total heat recovery option available
- Power factor up to 0.95
- PID microprocessor control

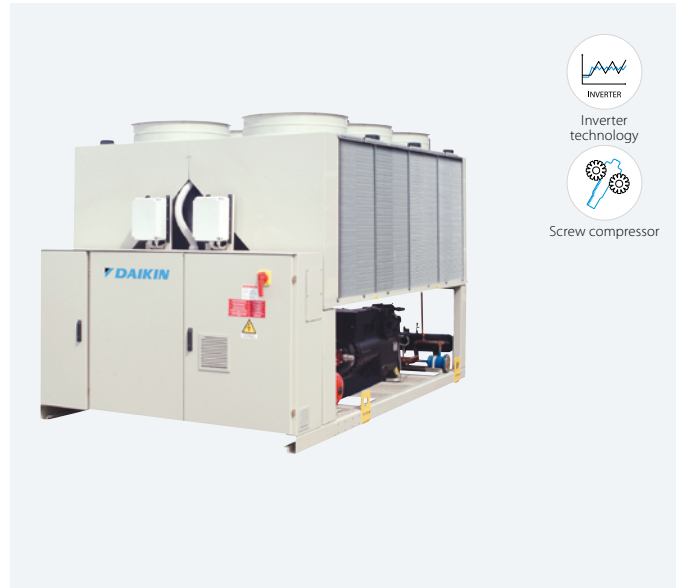


EWYD-BZSS

| Heating & Cooling        |                                              |          |           | EWYD-BZSS | 250                                                       | 270          | 290    | 320    | 340  | 370    | 380    | 410    | 440   | 460    | 510       | 530    | 570    |                                   |          |
|--------------------------|----------------------------------------------|----------|-----------|-----------|-----------------------------------------------------------|--------------|--------|--------|------|--------|--------|--------|-------|--------|-----------|--------|--------|-----------------------------------|----------|
| SEER                     |                                              |          |           |           | -                                                         |              |        |        |      |        |        |        |       |        | 4.57      |        |        | 4.55                              |          |
| <div>Space heating</div> | <div>Average climate water outlet 35°C</div> | General  | SCOP      |           | 3.21                                                      |              | 3.20   |        | 3.21 |        |        |        | 3.20  |        | -         |        |        |                                   |          |
| Cooling capacity         | Nom.                                         |          |           | kW        | 253                                                       | 272          | 291    | 323    | 337  | 363    | 380    | 411    | 433   | 455    | 515       | 533    | 569    |                                   |          |
| Heating capacity         | Nom.                                         |          |           | kW        | 271                                                       | 298          | 325    | 334    | 350  | 380    | 412    | 445    | 465   | 477    | 532.86    | 560.55 | 618.33 |                                   |          |
| Power input              | Cooling                                      | Nom.     |           | kW        | 91.3                                                      | 101          | 110    | 117    | 125  | 135    | 144    | 154    | 165   | 163    | 183       | 189    | 217    |                                   |          |
|                          | Heating                                      | Nom.     |           | kW        | 91.4                                                      | 100          | 108    | 118    | 126  | 133    | 143    | 157    | 167   | 165    | 177.37    | 184.84 | 208.14 |                                   |          |
| Capacity control         | Method                                       |          |           |           | Stepless                                                  |              |        |        |      |        |        |        |       |        |           |        |        |                                   |          |
|                          | Minimum capacity                             |          |           | %         | 13.0                                                      |              |        |        |      |        |        |        | 9.0   |        | 9         |        |        |                                   |          |
| EER                      |                                              |          |           |           | 2.77                                                      | 2.70         | 2.65   | 2.75   | 2.69 | 2.68   | 2.63   | 2.66   | 2.62  | 2.79   | 2.81      |        | 2.62   |                                   |          |
| ESEER                    |                                              |          |           |           | 3.93                                                      | 3.92         | 3.89   | 3.95   | 3.89 | 3.90   | 3.82   | 3.91   | 3.89  | 4.18   | -         |        |        |                                   |          |
| COP                      |                                              |          |           |           | 2.96                                                      | 2.97         | 3.00   | 2.82   | 2.78 | 2.85   | 2.88   | 2.83   | 2.79  | 2.88   | 3.004     | 3.033  | 2.971  |                                   |          |
| IPLV                     |                                              |          |           |           | 4.58                                                      | 4.62         |        | 4.75   | 4.64 | 4.71   | 4.67   | 4.73   | 4.69  | 4.85   | 4.89      | 4.85   | 4.77   |                                   |          |
| Dimensions               | Unit                                         | Height   |           | mm        | 2,335                                                     |              |        |        |      |        |        |        |       |        | 2,280     |        | 2,280  |                                   |          |
|                          |                                              | Width    |           | mm        | 2,254                                                     |              |        |        |      |        |        |        |       |        |           |        | 2,254  |                                   |          |
|                          |                                              | Length   |           | mm        | 3,547                                                     |              | 4,428  |        |      |        | 5,329  |        | 6,659 |        | 6,659     |        |        |                                   |          |
|                          |                                              |          |           |           |                                                           |              |        |        |      |        |        |        |       |        |           |        |        |                                   |          |
| Weight                   | Unit                                         |          |           | kg        | 3,410                                                     | 3,455        | 3,500  | 3,870  |      | 3,940  | 4,010  | 4,390  |       | 5,015  | 5,495     | 5,735  |        |                                   |          |
|                          | Operation weight                             |          |           | kg        | 3,550                                                     | 3,595        | 3,640  | 4,010  |      | 4,068  | 4,138  | 4,518  |       | 5,255  | 5,724     | 5,964  | 5,953  |                                   |          |
| Water heat exchanger     | Type                                         |          |           |           | Single pass shell & tube                                  |              |        |        |      |        |        |        |       |        |           |        |        | Shell and tube                    |          |
|                          | Water volume                                 |          |           | l         | 138                                                       |              | 133    |        | 128  |        |        |        | 240   |        | 229       |        | 218    |                                   |          |
|                          | Water flow rate                              | Cooling  | Nom.      | l/s       | 12.1                                                      | 13.0         | 13.9   | 15.5   | 16.2 | 17.4   | 18.2   | 19.7   | 20.8  | 21.8   | 24.7      | 25.5   | 27.3   |                                   |          |
|                          |                                              | Heating  | Nom.      | l/s       | 13.1                                                      | 14.4         | 15.7   | 16.1   | 16.9 | 18.3   | 19.8   | 21.4   | 22.4  | 23.0   | -         |        | -      |                                   |          |
|                          | Water pressure drop                          | Cooling  | Nom.      | kPa       | 40                                                        | 46           | 44     | 50     | 55   | 60     | 65     | 74     | 80    | 47     | 68.4      | 46.5   | 52.4   |                                   |          |
|                          |                                              | Heating  | Nom.      | kPa       | 30                                                        | 35           | 52     | 37     | 40   | 45     | 51     | 59     | 64    | 42     | -         |        | -      |                                   |          |
| Air heat exchanger       | Type                                         |          |           |           | High efficiency fin and tube type with integral subcooler |              |        |        |      |        |        |        |       |        |           |        |        | High efficiency fin and tube type |          |
| Compressor               | Type                                         |          |           |           | Single screw compressor                                   |              |        |        |      |        |        |        |       |        |           |        |        |                                   |          |
|                          | Quantity                                     |          |           |           | 2                                                         |              |        |        |      |        |        |        |       |        | 3         | 3      |        |                                   |          |
| Fan                      | Type                                         |          |           |           | Direct propeller                                          |              |        |        |      |        |        |        |       |        |           |        |        |                                   |          |
|                          | Quantity                                     |          |           |           | 6                                                         |              | 8      |        |      |        | 10     |        | 12    | 12     |           |        |        |                                   |          |
|                          | Air flow rate                                | Nom.     |           | l/s       | 31,729                                                    | 31,422       | 31,115 | 42,306 |      | 42,337 | 41,487 | 52,882 |       | 63,458 | 62,640    | 61,652 | 48,191 |                                   |          |
|                          | Speed                                        |          |           | rpm       | 900                                                       |              |        |        |      |        |        |        |       |        |           |        |        | 900                               |          |
| Sound power level        | Cooling                                      | Nom.     |           | dB(A)     | 101                                                       |              |        |        | 102  |        |        |        | 104   |        | 103.6     |        |        |                                   |          |
| Sound pressure level     | Cooling                                      | Nom.     |           | dB(A)     | 82                                                        |              |        |        | 83   |        |        |        | 84    |        | 83.7      |        |        |                                   |          |
| Operation range          | Air side                                     | Cooling  | Min.~Max. | °CDB      | -10~45                                                    |              |        |        |      |        |        |        |       |        |           |        |        | ~~~                               |          |
|                          |                                              | Heating  | Min.~Max. | °CDB      | -10~20                                                    |              |        |        |      |        |        |        |       |        |           |        |        | ~~~                               |          |
|                          | Water side                                   | Cooling  | Min.~Max. | °CDB      | -8~15                                                     |              |        |        |      |        |        |        |       |        |           |        |        | ~~~                               |          |
|                          |                                              | Heating  | Min.~Max. | °CDB      | 35~55                                                     |              |        |        |      |        |        |        |       |        |           |        |        | ~~~                               |          |
|                          | Refrigerant                                  | Type/GWP |           |           |                                                           | R-134a/1,430 |        |        |      |        |        |        |       |        |           |        |        |                                   | R-134a/- |
| Refrigerant charge       | Charge                                       |          |           | kg        | -                                                         |              |        |        |      |        |        |        |       |        | 141       |        | 147    |                                   |          |
|                          | Circuits                                     | Quantity |           |           | 2                                                         |              |        |        |      |        |        |        |       |        | 3         | 3      |        |                                   |          |
|                          | Per circuit                                  |          |           | kg        | 43.0                                                      | 44.0         | 43.0   | 46.0   | 46.5 |        | 47.0   | 50.0   |       | 47.0   | -         |        |        |                                   |          |
|                          | Per circuit                                  |          |           | TCO2Eq    | 61.5                                                      | 62.9         | 61.5   | 65.8   | 66.5 |        | 67.2   | 71.5   |       | 67.2   | -         |        |        |                                   |          |
| Piping connections       | Evaporator water inlet/outlet (OD)           |          |           |           | 139.7mm                                                   |              |        |        |      |        |        |        |       |        | 219.1mm   |        |        |                                   |          |
| Unit                     | Starting current                             | Max      |           | A         | 150                                                       |              | 181    |        | 204  |        |        |        | 224   | 238    | 245       | 327    | 355    | 344                               |          |
|                          | Running current                              | Cooling  | Nom.      | A         | 137                                                       | 150          | 164    | 176    | 188  | 202    | 214    | 229    | 244   | 246    | 298       | 310    | 349    |                                   |          |
|                          | Max                                          |          |           | A         | 211                                                       |              | 212    | 254    | 288  |        |        |        | 316   | 336    | 329       | 433    | 474    | 458                               |          |
| Power supply             | Phase/Frequency/Voltage                      |          |           |           | 3~/50/400                                                 |              |        |        |      |        |        |        |       |        | 3~/50/400 |        |        |                                   |          |

# Air cooled screw inverter heat pump, standard efficiency, low sound

- Optimum ESEER values
- 2-3 truly independent refrigerant circuits
- Low starting current
- DX shell and tube evaporator – one pass refrigerant side to minimise pressure drops
- Standard electronic expansion valve
- Optimised defrost cycles
- Partial and total heat recovery option available
- Power factor up to 0.95
- PID microprocessor control



EWYD-BZSL

| Heating & Cooling                              |                                    |                                                           |           | EWYD-BZSL    |           |        |        | 250    | 270  | 290    | 320    | 330    | 360  | 370    | 400                               | 430    | 450      | 510            | 530  | 570  |     |      |
|------------------------------------------------|------------------------------------|-----------------------------------------------------------|-----------|--------------|-----------|--------|--------|--------|------|--------|--------|--------|------|--------|-----------------------------------|--------|----------|----------------|------|------|-----|------|
| SEER                                           |                                    |                                                           |           |              |           |        |        | -      |      |        |        |        |      |        |                                   |        |          |                |      | 4.56 | 4.6 | 4.55 |
| <div><div></div><div>Space heating</div></div> | Average climate water outlet 35°C  | General                                                   | SCOP      | 3.21         |           | 3.20   |        | 3.21   |      |        |        | 3.20   |      |        |                                   | -      |          |                |      |      |     |      |
| Cooling capacity                               | Nom.                               |                                                           |           | kW           | 247       | 265    | 290    | 315    | 330  | 353    | 370    | 401    | 423  | 446    | 503                               | 519    | 569      |                |      |      |     |      |
| Heating capacity                               | Nom.                               |                                                           |           | kW           | 271       | 298    | 325    | 334    | 350  | 380    | 412    | 445    | 465  | 477    | 532.86                            | 560.55 | 618.33   |                |      |      |     |      |
| Power input                                    | Cooling                            | Nom.                                                      |           | kW           | 89.5      | 99.5   | 110    | 115    | 123  | 134    | 144    | 151    | 163  | 158    | 178                               | 185    | 217      |                |      |      |     |      |
|                                                | Heating                            | Nom.                                                      |           | kW           | 91.4      | 100    | 108    | 118    | 126  | 133    | 143    | 157    | 167  | 165    | 177.37                            | 184.84 | 208.14   |                |      |      |     |      |
| Capacity control                               | Method                             |                                                           |           | Stepless     |           |        |        |        |      |        |        |        |      |        |                                   |        |          |                |      |      |     |      |
|                                                | Minimum capacity                   |                                                           |           | %            | 13.0      |        |        |        |      |        |        |        |      |        |                                   |        | 9.0      | 9              |      |      |     |      |
| EER                                            |                                    |                                                           |           |              | 2.76      | 2.66   | 2.62   | 2.75   | 2.68 | 2.64   | 2.57   | 2.66   | 2.59 | 2.83   | 2.82                              | 2.8    | 2.62     |                |      |      |     |      |
| ESEER                                          |                                    |                                                           |           |              | 4.06      | 4.04   | 4.03   | 4.17   | 4.09 | 4.04   | 4.01   | 4.06   | 4.02 | 4.18   | -                                 |        |          |                |      |      |     |      |
| COP                                            |                                    |                                                           |           |              | 2.96      | 2.97   | 3.00   | 2.82   | 2.78 | 2.85   | 2.88   | 2.83   | 2.79 | 2.88   | 3.004                             | 3.033  | 2.971    |                |      |      |     |      |
| IPLV                                           |                                    |                                                           |           |              | 4.90      | 4.96   | 4.91   | 5.17   | 5.08 | 5.12   | 5.06   | 5.22   | 5.13 | 5.07   | 5.03                              | 4.99   | 4.89     |                |      |      |     |      |
| Dimensions                                     | Unit                               | Height                                                    | mm        | 2,335        |           |        |        |        |      |        |        |        |      |        |                                   | 2,280  | 2,280    |                |      |      |     |      |
|                                                |                                    | Width                                                     | mm        | 2,254        |           |        |        |        |      |        |        |        |      |        |                                   | 2,254  |          |                |      |      |     |      |
|                                                |                                    | Length                                                    | mm        | 3,547        |           |        |        | 4,428  |      |        |        | 5,329  |      | 6,659  | 6,659                             |        |          |                |      |      |     |      |
| Weight                                         | Unit                               |                                                           |           | kg           | 3,750     | 3,795  | 3,840  | 4,210  |      | 4,280  | 4,350  | 4,730  |      | 5,525  | 6,005                             | 6,245  |          |                |      |      |     |      |
|                                                | Operation weight                   |                                                           |           | kg           | 3,888     | 3,933  | 3,978  | 4,343  |      | 4,408  | 4,478  | 4,858  |      | 5,765  | 6,234                             | 6,474  | 6,463    |                |      |      |     |      |
| Water heat exchanger                           | Type                               | Single pass shell & tube                                  |           |              |           |        |        |        |      |        |        |        |      |        |                                   |        |          | Shell and tube |      |      |     |      |
|                                                | Water volume                       |                                                           |           | l            | 138       |        |        | 133    |      |        | 128    |        |      | 240    | 229                               | 218    |          |                |      |      |     |      |
|                                                | Water flow rate                    | Cooling                                                   | Nom.      | l/s          | 11.8      | 12.7   | 13.9   | 15.1   | 15.8 | 16.9   | 17.7   | 19.2   | 20.3 | 21.4   | 24.1                              | 24.9   | 27.3     |                |      |      |     |      |
|                                                |                                    | Heating                                                   | Nom.      | l/s          | 13.1      | 14.4   | 15.7   | 16.1   | 16.9 | 18.3   | 19.8   | 21.4   | 22.4 | 23.0   | -                                 |        |          |                |      |      |     |      |
|                                                | Water pressure drop                | Cooling                                                   | Nom.      | kPa          | 38        | 44     | 42     | 48     | 53   | 57     | 62     | 71     | 77   | 45     | 65.5                              | 44.4   | 52.4     |                |      |      |     |      |
|                                                |                                    | Heating                                                   | Nom.      | kPa          | 30        | 35     | 52     | 37     | 40   | 45     | 51     | 59     | 64   | 42     | -                                 |        |          |                |      |      |     |      |
| Air heat exchanger                             | Type                               | High efficiency fin and tube type with integral subcooler |           |              |           |        |        |        |      |        |        |        |      |        | High efficiency fin and tube type |        |          |                |      |      |     |      |
| Compressor                                     | Type                               | Single screw compressor                                   |           |              |           |        |        |        |      |        |        |        |      |        |                                   |        |          |                |      |      |     |      |
|                                                | Quantity                           |                                                           |           | 2            |           |        |        |        |      |        |        |        |      |        |                                   | 3      | 3        |                |      |      |     |      |
| Fan                                            | Type                               | Direct propeller                                          |           |              |           |        |        |        |      |        |        |        |      |        |                                   |        |          |                |      |      |     |      |
|                                                | Quantity                           |                                                           |           | 6            |           |        |        | 8      |      |        |        | 10     |      | 12     | 12                                |        |          |                |      |      |     |      |
|                                                | Air flow rate                      | Nom.                                                      | l/s       | -            |           |        |        |        |      |        |        |        |      |        |                                   | 48,415 | 47,732   | 48,191         |      |      |     |      |
|                                                |                                    | Cooling                                                   | Nom.      | l/s          | 24,432    | 24,264 | 24,095 | 32,576 |      | 32,628 | 32,127 | 40,720 |      | 48,863 | -                                 |        |          |                |      |      |     |      |
|                                                | Speed                              |                                                           |           | rpm          | 700       |        |        |        |      |        |        |        |      |        |                                   |        |          | 900            |      |      |     |      |
| Sound power level                              | Cooling                            | Nom.                                                      | dBa       | 94           |           |        | 95     |        |      |        |        |        | 97   |        | 97                                |        |          |                |      |      |     |      |
| Sound pressure level                           | Cooling                            | Nom.                                                      | dBa       | 76           |           |        |        |        |      |        |        |        |      |        |                                   |        | 77       |                | 77.2 |      |     |      |
| Operation range                                | Air side                           | Cooling                                                   | Min.~Max. | °CDB         | -10~45    |        |        |        |      |        |        |        |      |        |                                   |        | ---      |                |      |      |     |      |
|                                                |                                    | Heating                                                   | Min.~Max. | °CDB         | -10~20    |        |        |        |      |        |        |        |      |        |                                   |        | ---      |                |      |      |     |      |
|                                                | Water side                         | Cooling                                                   | Min.~Max. | °CDB         | -8~15     |        |        |        |      |        |        |        |      |        |                                   |        | ---      |                |      |      |     |      |
| Operation range                                | Water side                         | Heating                                                   | Min.~Max. | °CDB         | 35~55     |        |        |        |      |        |        |        |      |        |                                   |        | ---      |                |      |      |     |      |
| Refrigerant                                    | Type/GWP                           |                                                           |           | R-134a/1,430 |           |        |        |        |      |        |        |        |      |        |                                   |        | R-134a/- |                |      |      |     |      |
|                                                | Charge                             |                                                           |           | kg           | -         |        |        |        |      |        |        |        |      |        |                                   |        |          | 141            | 147  |      |     |      |
|                                                | Circuits                           | Quantity                                                  |           |              | 2         |        |        |        |      |        |        |        |      |        |                                   |        | 3        | 3              |      |      |     |      |
| Refrigerant charge                             | Per circuit                        |                                                           |           | kg           | 43.0      | 44.0   | 43.0   | 46.0   | 46.5 |        | 47.0   | 50.0   |      | 47.0   | -                                 |        |          |                |      |      |     |      |
|                                                | Per circuit                        | TCO2Eq                                                    |           | 61.5         | 62.9      | 61.5   | 65.8   | 66.5   |      | 67.2   | 71.5   |        | 67.2 | -      |                                   |        |          |                |      |      |     |      |
| Piping connections                             | Evaporator water inlet/outlet (OD) |                                                           |           | 139.7mm      |           |        |        |        |      |        |        |        |      |        |                                   |        | 219.1mm  |                |      |      |     |      |
| Unit                                           | Starting current                   | Max                                                       |           | A            | 145       | 146    |        | 176    | 199  |        |        | 217    | 231  | 234    | 316                               | 344    |          |                |      |      |     |      |
|                                                | Running current                    | Cooling                                                   | Nom.      | A            | 134       | 148    | 163    | 171    | 184  | 199    | 212    | 224    | 240  | 238    | 291                               | 305    | 349      |                |      |      |     |      |
|                                                |                                    | Max                                                       |           | A            | 202       | 203    |        | 243    | 277  |        |        | 302    | 322  | 313    | 416                               | 458    |          |                |      |      |     |      |
| Power supply                                   | Phase/Frequency/Voltage            |                                                           |           | Hz/V         | 3~/50/400 |        |        |        |      |        |        |        |      |        |                                   |        |          | 3~/50/400      |      |      |     |      |







# Air to water polyvalent unit

- Refrigerant R-513A
- Simultaneous cooling and heating operation from one system
- Wide operating range in both heating and cooling mode
- Variable frequency drive (VFD) providing very high part load efficiency, great unloading capacity, automatic speed adjustment and soft start
- 2 truly independent refrigerant circuits
- Standard sound levels configurations
- Equipped with the cloud-based remote monitoring system Daikin on Site

| Heating & Cooling    |                         |         |      | EWYS-4ZXS                               |                                                     | 4004   | 4504   | 5004   | 5504   | 6004   | 6504   | 7004   | 8004 |
|----------------------|-------------------------|---------|------|-----------------------------------------|-----------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|------|
| SEER                 |                         |         |      |                                         |                                                     | 4.55   |        | 4.85   | 4.71   | 4.91   | 5.01   | 5.14   | 5.11 |
| Cooling capacity     | Nom.                    |         | kW   | 393.1                                   | 440.8                                               | 495.2  | 532.1  | 584.5  | 644.4  | 682.5  | 765.7  |        |      |
| Heating capacity     | Nom.                    |         | kW   | 403.1                                   | 442.9                                               | 506.1  | 536.1  | 588    | 650.4  | 680.4  | 790.3  |        |      |
| Power input          | Cooling                 | Nom.    | kW   | 135.55                                  | 151.48                                              | 166.73 | 189.36 | 196.8  | 221.44 | 221.59 | 256.09 |        |      |
|                      | Heating                 | Nom.    | kW   | 126.76                                  | 136.28                                              | 153.83 | 163.94 | 178.72 | 201.36 | 201.9  | 235.91 |        |      |
| Capacity control     | Method                  |         |      | Stepless                                |                                                     |        |        |        |        |        |        |        |      |
|                      | Minimum capacity        |         |      | %                                       | 17                                                  | 15     |        | 13     |        | 12     | 11     | 10     |      |
| EER                  |                         |         |      |                                         |                                                     | 2.9    | 2.91   | 2.97   | 2.81   | 2.97   | 2.91   | 3.08   | 2.99 |
| COP                  |                         |         |      |                                         |                                                     | 3.18   | 3.25   | 3.29   | 3.27   | 3.29   | 3.23   | 3.37   | 3.35 |
| Dimensions           | Unit                    | Height  | mm   | 2,465                                   |                                                     |        |        |        |        |        |        |        |      |
|                      |                         | Width   | mm   | 2,285                                   |                                                     |        |        |        |        |        |        |        |      |
|                      |                         | Depth   | mm   | 5,825                                   |                                                     | 6,725  |        | 7,625  |        | 8,525  |        |        |      |
| Weight               | Unit                    |         | kg   | 6,075                                   | 6,095                                               | 6,870  |        | 7,850  |        | 8,435  | 9,405  | 9,430  |      |
|                      | Operation weight        |         | kg   | 6,540                                   | 6,560                                               | 7,560  |        | 8,935  |        | 9,540  | 10,785 | 10,820 |      |
| Water heat exchanger | Type                    |         |      | Shell and tube                          |                                                     |        |        |        |        |        |        |        |      |
|                      | Water volume            |         |      | l                                       | 126                                                 |        | 214    |        | 369    |        | 361    | 468    |      |
|                      | Water flow rate         | Cooling | Nom. | l/s                                     | 18.8                                                | 21.1   | 23.7   | 25.5   | 28     | 30.8   | 32.7   | 36.6   |      |
|                      |                         | Heating | Nom. | l/s                                     | 19.4                                                | 21.3   | 24.4   | 25.8   | 28.4   | 31.4   | 32.8   | 38.1   |      |
|                      | Water pressure drop     | Cooling | Nom. | kPa                                     | 37.6                                                | 46     | 38.6   | 43.8   | 43.9   | 31.5   | 39.1   | 33.9   |      |
|                      |                         | Heating | Nom. | kPa                                     | 38.2                                                | 45.2   | 34.4   | 38.2   | 36.1   | 26.5   | 31.1   | 29.9   |      |
| Air heat exchanger   |                         |         |      | Type                                    | High efficiency fin and tube type – Copper Aluminum |        |        |        |        |        |        |        |      |
| Compressor           | Type                    |         |      | Inverter driven single screw compressor |                                                     |        |        |        |        |        |        |        |      |
|                      | Quantity                |         |      | 2                                       |                                                     |        |        |        |        |        |        |        |      |
| Fan                  | Type                    |         |      | EC                                      |                                                     |        |        |        |        |        |        |        |      |
|                      | Quantity                |         |      | 10                                      |                                                     | 12     |        | 14     |        | 16     |        |        |      |
| Sound power level    | Cooling                 | Nom.    | dBA  | 99                                      | 98                                                  | 99     |        | 100    |        | 102    |        |        |      |
| Sound pressure level | Cooling                 | Nom.    | dBA  | 78                                      | 77                                                  |        | 78     |        | 79     |        | 80     |        |      |
| Refrigerant          | Type/GWP                |         |      | R-513A/630                              |                                                     |        |        |        |        |        |        |        |      |
|                      | Charge                  |         |      | kg                                      | 198                                                 |        |        |        |        |        |        |        |      |
|                      | Circuits                |         |      | Quantity                                | 2                                                   |        |        |        |        |        |        |        |      |
| Piping connections   |                         |         |      | Evaporator water inlet/outlet (OD)      |                                                     | 219.1  |        |        |        |        |        |        |      |
| Unit                 | Starting current        | Max     | A    | 0                                       |                                                     |        |        |        |        |        |        |        |      |
|                      | Running current         | Cooling | Nom. | A                                       | 236                                                 | 272    | 293    | 332    | 343    | 378    | 395    | 454    |      |
|                      |                         | Max     | A    | 335                                     | 374                                                 | 396    | 451    | 473    | 524    | 550    | 656    |        |      |
| Power supply         | Phase/Frequency/Voltage |         |      | Hz/V                                    | 3/50/400                                            |        |        |        |        |        |        |        |      |



Screw compressor



EWYS-4Z

| Heating & Cooling    |                                    |         |      | EWYS-4ZXR | 4004                                                | 4504       | 5004       | 5504       | 6004       | 6504       | 7004       | 8004       |        |
|----------------------|------------------------------------|---------|------|-----------|-----------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|--------|
| SEER                 |                                    |         |      |           | 4.63                                                | 4.55       | 4.78       | 4.82       | 5.07       | 5.15       | 5.05       | 5.13       |        |
| Cooling capacity     | Nom.                               |         |      | kW        | 350.3                                               | 380.8      | 434.2      | 485        | 534.3      | 578.4      | 613.2      | 672.3      |        |
| Heating capacity     | Nom.                               |         |      | kW        | 363.6                                               | 404.4      | 447.6      | 499.1      | 549.8      | 612.6      | 650.7      | 708.4      |        |
| Power input          | Cooling                            | Nom.    |      | kW        | 121.21                                              | 137.97     | 149.21     | 175.09     | 190.14     | 201.53     | 212.92     | 240.97     |        |
|                      | Heating                            | Nom.    |      | kW        | 110.52                                              | 117.56     | 129.36     | 145.51     | 162.18     | 182.32     | 187.52     | 202.4      |        |
| Capacity control     | Method                             |         |      |           | Stepless                                            |            |            |            |            |            |            |            |        |
|                      | Minimum capacity                   |         |      | %         | 20                                                  | 18         | 17         | 14         |            | 13         | 12         | 11         |        |
| EER                  |                                    |         |      |           | 2.89                                                | 2.76       | 2.91       | 2.77       | 2.81       | 2.87       | 2.88       | 2.79       |        |
| COP                  |                                    |         |      |           | 3.29                                                | 3.44       | 3.46       | 3.43       | 3.39       | 3.36       | 3.47       | 3.5        |        |
| Dimensions           | Unit                               | Height  | mm   | 2,465     |                                                     |            |            |            |            |            |            |            |        |
|                      |                                    | Width   | mm   | 2,285     |                                                     |            |            |            |            |            |            |            |        |
|                      |                                    | Depth   | mm   | 5,825     |                                                     | 6,725      |            | 7,625      |            | 8,525      |            |            |        |
| Weight               | Unit                               |         | kg   | 6,240     | 6,260                                               | 7,035      |            | 8,015      |            | 8,600      | 9,690      | 9,715      |        |
|                      | Operation weight                   |         |      | kg        | 6,705                                               | 6,725      | 7,725      |            | 9,100      |            | 9,705      | 11,075     | 11,110 |
| Water heat exchanger | Type                               |         |      |           | Shell and tube                                      |            |            |            |            |            |            |            |        |
|                      | Water volume                       |         |      | l         | 126                                                 |            | 214        |            | 369        |            | 361        | 468        |        |
|                      | Water flow rate                    | Cooling | Nom. | l/s       | 16.8                                                | 18.2       | 20.8       | 23.2       | 25.6       | 27.7       | 29.3       | 32.1       |        |
|                      |                                    | Heating | Nom. | l/s       | 17.5                                                | 19.5       | 21.6       | 24.1       | 26.5       | 29.6       | 31.4       | 34.2       |        |
|                      | Water pressure drop                | Cooling | Nom. | kPa       | 30.7                                                | 35.8       | 30.7       | 37.4       | 37.6       | 26.1       | 32.5       | 27         |        |
|                      |                                    | Heating | Nom. | kPa       | 31.7                                                | 38.4       | 27.6       | 33.6       | 32         | 23.8       | 28.7       | 24.6       |        |
| Air heat exchanger   | Type                               |         |      |           | High efficiency fin and tube type – Copper Aluminum |            |            |            |            |            |            |            |        |
| Compressor           | Type                               |         |      |           | Inverter driven single screw compressor             |            |            |            |            |            |            |            |        |
|                      | Quantity                           |         |      |           | 2                                                   |            |            |            |            |            |            |            |        |
| Fan                  | Type                               |         |      |           | EC                                                  |            |            |            |            |            |            |            |        |
|                      | Quantity                           |         |      |           | 10                                                  |            | 12         |            | 14         |            | 16         |            |        |
| Sound power level    | Cooling                            | Nom.    |      | dBA       | 88                                                  | 87         | 88         |            | 89         |            | 91         |            |        |
| Sound pressure level | Cooling                            | Nom.    |      | dBA       | 67                                                  | 66         | 67         |            | 68         |            | 67         | 69         |        |
| Refrigerant          | Type/GWP                           |         |      |           | R-513A/638                                          | R-513A/639 | R-513A/640 | R-513A/641 | R-513A/642 | R-513A/643 | R-513A/644 | R-513A/645 |        |
|                      | Charge                             |         |      | kg        | 198                                                 |            |            |            |            |            |            |            |        |
|                      | Circuits                           |         |      | Quantity  | 2                                                   |            |            |            |            |            |            |            |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |         |      |           | 219.1                                               |            |            |            |            |            |            |            |        |
| Unit                 | Starting current                   | Max     |      | A         | 0                                                   |            |            |            |            |            |            |            |        |
|                      | Running current                    | Cooling | Nom. | A         | 228                                                 | 253        | 274        | 329        | 340        | 360        | 388        | 431        |        |
|                      |                                    | Max     |      | A         | 335                                                 | 374        | 396        | 451        | 473        | 524        | 550        | 656        |        |
| Power supply         | Phase/Frequency/Voltage            |         |      | Hz/V      | 3/50/400                                            |            |            |            |            |            |            |            |        |

# Air cooled screw condensing unit, standard efficiency, standard sound

- One refrigerant circuit with single screw compressor
- Compact design
- Large operation range (ambient temperature down to -18°C)
- Extensive option list (heat recovery option available)



ERAD-E-SS

| Cooling only         |                                    |          |      | ERAD-E-SS | 120                                                       | 140    | 170    | 200    | 220    | 250    | 310     | 370  | 440    | 490  |      |  |
|----------------------|------------------------------------|----------|------|-----------|-----------------------------------------------------------|--------|--------|--------|--------|--------|---------|------|--------|------|------|--|
| Cooling capacity     | Nom.                               |          |      | kW        | 121                                                       | 144    | 165    | 196    | 219    | 251    | 309     | 370  | 435    | 488  |      |  |
| Power input          | Cooling                            | Nom.     |      | kW        | 42.1                                                      | 51.2   | 57.7   | 65.6   | 74.2   | 77.0   | 93.8    | 123  | 148    | 161  |      |  |
| Capacity control     | Method                             |          |      |           | Stepless                                                  |        |        |        |        |        |         |      |        |      |      |  |
|                      | Minimum capacity                   |          |      | %         | 25.0                                                      |        |        |        |        |        |         |      |        |      |      |  |
| EER                  |                                    |          |      |           | 2.88                                                      | 2.82   | 2.86   | 2.99   | 2.95   | 3.27   | 3.30    | 3.02 | 2.95   | 3.02 |      |  |
| Dimensions           | Unit                               | Height   |      | mm        | 2,273                                                     |        |        |        |        |        | 2,223   |      |        |      |      |  |
|                      |                                    | Width    |      | mm        | 1,292                                                     |        |        |        |        |        | 2,236   |      |        |      |      |  |
|                      |                                    | Length   |      | mm        | 2,165                                                     |        | 3,065  |        | 3,965  |        | 3,070   |      |        |      |      |  |
| Weight               | Unit                               |          |      | kg        | 1,584                                                     |        | 1,741  |        | 1,936  |        | 2,679   |      |        |      |      |  |
|                      | Operation weight                   |          |      | kg        | 1,617                                                     |        | 1,781  |        | 1,981  |        | 2,756   |      |        |      |      |  |
| Air heat exchanger   | Type                               |          |      |           | High efficiency fin and tube type with integral subcooler |        |        |        |        |        |         |      |        |      |      |  |
| Compressor           | Type                               |          |      |           | Single screw compressor                                   |        |        |        |        |        |         |      |        |      |      |  |
|                      | Quantity                           |          |      |           | 1                                                         |        |        |        |        |        |         |      |        |      |      |  |
| Fan                  | Type                               |          |      |           | Direct propeller                                          |        |        |        |        |        |         |      |        |      |      |  |
|                      | Air flow rate                      | Nom.     |      | l/s       | 10,924                                                    | 10,576 | 16,386 | 15,865 | 21,848 | 21,153 | 32,772  |      | 31,729 |      |      |  |
|                      | Quantity                           |          |      |           | 2                                                         |        | 3      |        | 4      |        | 6       |      |        |      |      |  |
|                      | Speed                              | Cooling  | Nom. | rpm       | 900                                                       |        |        |        |        |        |         |      |        |      |      |  |
| Sound power level    | Cooling                            | Nom.     |      | dBA       | 92.0                                                      |        |        |        | 93.0   |        | 94.0    |      | 95.0   |      |      |  |
| Sound pressure level | Cooling                            | Nom.     |      | dBA       | 74.0                                                      |        |        |        |        | 75.0   |         |      |        |      | 76.0 |  |
| Operation range      | Saturated suction temp.            |          |      | °C        | -9~-12                                                    |        |        |        |        |        |         |      |        |      |      |  |
|                      | Condenser inlet temp.              |          |      | °C        | -18~48                                                    |        |        |        |        |        |         |      |        |      |      |  |
| Refrigerant          | Type / GWP                         |          |      |           | R-134a/1,430                                              |        |        |        |        |        |         |      |        |      |      |  |
|                      | Circuits                           | Quantity |      |           | 1                                                         |        |        |        |        |        |         |      |        |      |      |  |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |      |           | 76mm                                                      |        |        |        |        |        | 139.7mm |      |        |      |      |  |
| Unit                 | Maximum Starting current           |          |      | A         | 151                                                       |        | 195    |        | 288    |        | 330     | 410  |        |      |      |  |
|                      | Nominal running current (RLA)      |          |      | A         | 72                                                        | 88     | 98     | 110    | 125    | 129    | 158     | 204  | 244    | 266  |      |  |
|                      | Maximum running current            |          |      | A         | 86                                                        | 103    | 119    | 132    | 157    | 164    | 198     | 242  | 284    | 298  |      |  |
| Power supply         | Phase/Frequency/Voltage            |          |      | Hz/V      | 3~/50/400                                                 |        |        |        |        |        |         |      |        |      |      |  |

# Air cooled screw condensing unit, standard efficiency, low sound

- One refrigerant circuit with single screw compressor
- Compact design
- Large operation range (ambient temperature down to -18°C)
- Extensive option list (heat recovery option available)



ERAD-E-SL

| Cooling only         |                                    |          |      | ERAD-E-SL                                                 | 120          | 140    | 160    | 190    | 210    | 240    | 300     | 350    | 410  | 460  |
|----------------------|------------------------------------|----------|------|-----------------------------------------------------------|--------------|--------|--------|--------|--------|--------|---------|--------|------|------|
| Cooling capacity     | Nom.                               |          | kW   | 116                                                       | 137          | 159    | 187    | 209    | 243    | 298    | 352     | 409    | 462  |      |
| Power input          | Cooling                            | Nom.     | kW   | 42.4                                                      | 52.5         | 57.7   | 66.3   | 73.9   | 78.1   | 91.9   | 122     | 150    | 167  |      |
| Capacity control     | Method                             |          |      | Stepless                                                  |              |        |        |        |        |        |         |        |      |      |
|                      | Minimum capacity                   |          | %    | 25.0                                                      |              |        |        |        |        |        |         |        |      |      |
| EER                  |                                    |          |      | 2.74                                                      | 2.61         | 2.75   | 2.83   |        | 3.11   |        | 3.24    | 2.88   | 2.73 | 2.76 |
| Dimensions           | Unit                               | Height   | mm   | 2,273                                                     |              |        |        |        |        | 2,223  |         |        |      |      |
|                      |                                    | Width    | mm   | 1,292                                                     |              |        |        |        |        | 2,236  |         |        |      |      |
|                      |                                    | Length   | mm   | 2,165                                                     |              | 3,065  |        | 3,965  |        | 3,070  |         |        |      |      |
| Weight               | Unit                               |          | kg   | 1,684                                                     |              | 1,841  |        | 2,036  |        | 2,789  |         |        |      |      |
|                      | Operation weight                   |          | kg   | 1,717                                                     |              | 1,881  |        | 2,081  |        | 2,886  |         |        |      |      |
| Air heat exchanger   | Type                               |          |      | High efficiency fin and tube type with integral subcooler |              |        |        |        |        |        |         |        |      |      |
| Compressor           | Type                               |          |      | Single screw compressor                                   |              |        |        |        |        |        |         |        |      |      |
|                      | Quantity                           |          |      | 1                                                         |              |        |        |        |        |        |         |        |      |      |
| Fan                  | Type                               |          |      | Direct propeller                                          |              |        |        |        |        |        |         |        |      |      |
|                      | Air flow rate                      | Nom.     | l/s  | 8,373                                                     | 8,144        | 12,560 | 12,216 | 16,747 | 16,288 | 25,120 |         | 24,432 |      |      |
|                      | Quantity                           |          |      | 2                                                         |              | 3      |        | 4      |        | 6      |         |        |      |      |
|                      | Speed                              | Cooling  | Nom. | rpm                                                       | 700          |        |        |        |        |        |         |        |      |      |
| Sound power level    | Cooling                            | Nom.     | dBA  | 89.0                                                      |              | 90.0   |        | 91.0   |        | 92.0   |         |        |      | 93.0 |
| Sound pressure level | Cooling                            | Nom.     | dBA  | 71.0                                                      |              |        |        |        |        | 73.0   |         |        |      | 74.0 |
| Operation range      | Saturated suction temp             |          |      | °C                                                        | -9~-12       |        |        |        |        |        |         |        |      |      |
|                      | Condenser inlet temp               |          |      | °C                                                        | -18~48       |        |        |        |        |        |         |        |      |      |
| Refrigerant          | Type / GWP                         |          |      |                                                           | R-134a/1,430 |        |        |        |        |        |         |        |      |      |
|                      | Circuits                           | Quantity |      |                                                           | 1            |        |        |        |        |        |         |        |      |      |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |      |                                                           | 76mm         |        |        |        |        |        | 139.7mm |        |      |      |
| Unit                 | Maximum Starting current           |          |      | A                                                         | 151          |        | 195    |        | 288    |        | 330     |        | 410  |      |
|                      | Nominal running current (RLA)      |          |      | A                                                         | 73           | 90     | 98     | 112    | 125    | 131    | 155     | 204    | 249  | 275  |
|                      | Maximum running current            |          |      | A                                                         | 83           | 100    | 115    | 128    | 151    | 158    | 189     | 234    | 276  | 290  |
| Power supply         | Phase/Frequency/Voltage            |          |      | Hz/V                                                      | 3~/50/400    |        |        |        |        |        |         |        |      |      |

# Water to water modular heat pumps

- Plug & play solution for easier facility management
- High scalability potential due to its modularity
- Single power supply for the array of modules available as option
- The manifold kit connects modules on the water side making it a plug & play solution
- It has limited environmental impact by using R-32 refrigerant, contributing to Green Building protocols BREEAM and LEED



EWWT-Q--XR/XS

| Heating & Cooling    |                                    |                  |      | EWWT-Q-XRA/EWWT-Q-XSA |  | 100         | 125    | 160    | 100    | 125    | 160    |
|----------------------|------------------------------------|------------------|------|-----------------------|--|-------------|--------|--------|--------|--------|--------|
| SEER                 |                                    |                  |      |                       |  | 6.4         | 6.54   | 6.49   | 6.4    | 6.54   | 6.49   |
| Cooling capacity     |                                    | Nom.             | kW   |                       |  | 96.36       | 124.4  | 166    | 96.36  | 124.4  | 166    |
| Heating capacity     |                                    | Nom.             | kW   |                       |  | 110.17      | 142.78 | 186.71 | 110.17 | 142.78 | 186.71 |
| Power input          | Cooling                            | Nom.             | kW   |                       |  | 20.99       | 27.95  | 34.44  | 20.99  | 27.95  | 34.44  |
|                      | Heating                            | Nom.             | kW   |                       |  | 26.11       | 34.49  | 42.53  | 26.11  | 34.49  | 42.53  |
| Capacity control     |                                    | Method           |      |                       |  | Step        |        |        |        |        |        |
|                      |                                    | Minimum capacity | %    |                       |  | 50          |        |        |        |        |        |
| EER                  |                                    |                  |      |                       |  | 4.59        | 4.45   | 4.82   | 4.59   | 4.45   | 4.82   |
| COP                  |                                    |                  |      |                       |  | 4.22        | 4.14   | 4.39   | 4.22   | 4.14   | 4.39   |
| IPLV                 |                                    |                  |      |                       |  | 7.15        | 7.12   | 7.41   | 7.15   | 7.12   | 7.41   |
| Dimensions           | Unit                               | Height           | mm   |                       |  | 1,000       |        |        |        |        |        |
|                      |                                    | Width            | mm   |                       |  | 1,200       |        |        |        |        |        |
|                      |                                    | Depth            | mm   |                       |  | 1,300       |        |        |        |        |        |
| Weight               | Unit                               |                  | kg   |                       |  | 470         | 520    | 582    | 419    | 469    | 531    |
|                      | Operation weight                   |                  | kg   |                       |  | 490         | 542    | 612    | 439    | 491    | 561    |
| Water heat exchanger | Type                               |                  |      |                       |  | Braze plate |        |        |        |        |        |
|                      | Water volume                       |                  | l    |                       |  | 9.45        | 11.07  | 14.85  | 9.45   | 11.07  | 14.85  |
|                      | Water flow rate                    | Cooling          | Nom. | l/s                   |  | 4.6         | 5.93   | 7.92   | 4.6    | 5.93   | 7.92   |
|                      |                                    | Heating          | Nom. | l/s                   |  | 5.27        | 6.82   | 8.92   | 5.27   | 6.82   | 8.92   |
|                      | Water pressure drop                | Cooling          | Nom. | kPa                   |  | 19.35       | 20     | 22.1   | 19.35  | 20     | 22.1   |
|                      |                                    | Heating          | Nom. | kPa                   |  | 24.9        | 25.1   | 29.7   | 24.9   | 25.1   | 29.7   |
| Compressor           | Type                               |                  |      |                       |  | Scroll      |        |        |        |        |        |
|                      | Quantity                           |                  |      |                       |  | 2           |        |        |        |        |        |
| Sound power level    | Cooling                            | Nom.             | dBA  |                       |  | 74.99       | 78.19  | 79.99  | 80.99  | 84.19  | 85.99  |
| Sound pressure level | Cooling                            | Nom.             | dBA  |                       |  | 59.36       | 62.56  | 64.36  | 65.4   | 68.6   | 70.4   |
| Refrigerant          | Type/GWP                           |                  |      |                       |  | R-32/675    |        |        |        |        |        |
|                      | Charge                             |                  | kg   |                       |  | 6           | 7.1    | 9.1    | 6      | 7.1    | 9.1    |
|                      | Circuits                           | Quantity         |      |                       |  | 1           |        |        |        |        |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |                  | mm   |                       |  | 3"          |        |        |        |        |        |
| Unit                 | Starting current                   | Max              | A    |                       |  | 221         | 345    | 363    | 221    | 345    | 363    |
|                      |                                    | Running current  |      |                       |  |             |        |        |        |        |        |
|                      | Cooling                            | Nom.             | A    |                       |  | 36.6        | 44.2   | 52.6   | 36.6   | 44.2   | 52.6   |
| Power supply         | Phase/Frequency/Voltage            | Max              | A    |                       |  | 62          | 80     | 97     | 62     | 80     | 97     |
|                      |                                    |                  | Hz/V |                       |  | 3/50/400    |        |        |        |        |        |



# Water to water modular heat pumps

- Plug & play solution for easier facility management
- High scalability potential due to its modularity
- Single power supply for the array of modules available as option
- The manifold kit connects modules on the water side making it a plug & play solution
- It has limited environmental impact by using R-32 refrigerant, contributing to Green Building protocols BREEAM and LEED



EWHT-Q-XS/XR

| Heating & Cooling    |  |                                    |          | EWHT/EWHT |     | 100Q-XRA |  | 100Q-XSA     |      |  |
|----------------------|--|------------------------------------|----------|-----------|-----|----------|--|--------------|------|--|
| SEER                 |  |                                    |          |           |     |          |  | 5.98         |      |  |
| Cooling capacity     |  | Nom.                               |          | kW        |     |          |  | 91.68        |      |  |
| Heating capacity     |  | Nom.                               |          | kW        |     |          |  | 105.97       |      |  |
| Power input          |  | Cooling                            | Nom.     | kW        |     |          |  | 21.22        |      |  |
|                      |  | Heating                            | Nom.     | kW        |     |          |  | 26.29        |      |  |
| Capacity control     |  | Method                             |          |           |     |          |  | Step         |      |  |
|                      |  | Minimum capacity                   |          | %         |     |          |  | 50           |      |  |
| EER                  |  |                                    |          |           |     |          |  | 4.32         |      |  |
| COP                  |  |                                    |          |           |     |          |  | 4.03         |      |  |
| IPLV                 |  |                                    |          |           |     |          |  | 6.66         |      |  |
| Dimensions           |  | Unit                               | Height   | mm        |     |          |  | 1,000        |      |  |
|                      |  |                                    | Width    | mm        |     |          |  | 1,200        |      |  |
|                      |  |                                    | Depth    | mm        |     |          |  | 1,300        |      |  |
| Weight               |  | Unit                               |          | kg        |     | 482      |  | 431          |      |  |
|                      |  | Operation weight                   |          | kg        |     | 502      |  | 451          |      |  |
| Water heat exchanger |  | Type                               |          |           |     |          |  | Brazed plate |      |  |
|                      |  | Water volume                       |          | l         |     |          |  | 9.45         |      |  |
|                      |  | Water flow rate                    | Cooling  | Nom.      | l/s |          |  |              | 4.37 |  |
|                      |  |                                    | Heating  | Nom.      | l/s |          |  |              | 5.07 |  |
|                      |  | Water pressure drop                | Cooling  | Nom.      | kPa |          |  |              | 17.7 |  |
|                      |  |                                    | Heating  | Nom.      | kPa |          |  |              | 23.2 |  |
| Compressor           |  | Type                               |          |           |     |          |  | Scroll       |      |  |
|                      |  | Quantity                           |          |           |     |          |  | 2            |      |  |
| Sound power level    |  | Cooling                            | Nom.     | dBA       |     | 74.99    |  | 80.99        |      |  |
| Sound pressure level |  | Cooling                            | Nom.     | dBA       |     | 59.36    |  | 65.4         |      |  |
| Refrigerant          |  | Type/GWP                           |          |           |     |          |  | R-32/675     |      |  |
|                      |  | Charge                             |          | kg        |     |          |  | 7            |      |  |
|                      |  | Circuits                           | Quantity |           |     |          |  | 1            |      |  |
| Piping connections   |  | Evaporator water inlet/outlet (OD) |          |           |     |          |  | 3"           |      |  |
| Unit                 |  | Starting current                   | Max      | A         |     |          |  | 221          |      |  |
|                      |  | Running current                    | Cooling  | Nom.      | A   |          |  |              | 36.9 |  |
|                      |  |                                    | Max      | A         |     |          |  | 62           |      |  |
| Power supply         |  | Phase/Frequency/Voltage            |          | Hz/V      |     |          |  | 3/50/400     |      |  |

# Water to water modular heat pumps

- Plug & play solution for easier facility management
- High scalability potential due to its modularity
- Single power supply for the array of modules available as option
- The manifold kit connects modules on the water side making it a plug & play solution
- It has limited environmental impact by using R-32 refrigerant, contributing to Green Building protocols BREEAM and LEED



EWLT-Q-XR/XS

| Heating & Cooling    |                                    |          |      | EWLT/EWLT | 100Q-XRA    | 125Q-XRA | 160Q-XRA | 100Q-XSA | 125Q-XSA | 160Q-XSA |
|----------------------|------------------------------------|----------|------|-----------|-------------|----------|----------|----------|----------|----------|
| Cooling capacity     | Nom.                               |          |      | kW        | 90.2        | 116.9    | 155      | 90.2     | 116.9    | 155      |
| Power input          | Cooling                            | Nom.     |      | kW        | 23.67       | 31.1     | 38.55    | 23.67    | 31.1     | 38.55    |
| Capacity control     | Method                             |          |      |           | Step        |          |          |          |          |          |
|                      | Minimum capacity                   |          |      | %         | 50          |          |          |          |          |          |
| EER                  |                                    |          |      |           | 3.81        | 3.76     | 4.02     | 3.81     | 3.76     | 4.02     |
| Dimensions           | Unit                               | Height   |      | mm        | 1,000       |          |          |          |          |          |
|                      |                                    | Width    |      | mm        | 1,200       |          |          |          |          |          |
|                      |                                    | Depth    |      | mm        | 1,300       |          |          |          |          |          |
| Weight               | Unit                               |          |      | kg        | 423         | 468      | 518      | 372      | 417      | 467      |
|                      | Operation weight                   |          |      | kg        | 433         | 479      | 533      | 382      | 428      | 482      |
| Water heat exchanger | Type                               |          |      |           | Braze plate |          |          |          |          |          |
|                      | Water volume                       |          |      | l         | 9.45        | 11.07    | 14.85    | 9.45     | 11.07    | 14.85    |
|                      | Water flow rate                    | Cooling  | Nom. | l/s       | 4.3         | 5.58     | 7.39     | 4.3      | 5.58     | 7.39     |
|                      | Water pressure drop                | Cooling  | Nom. | kPa       | 17.16       | 17.93    | 19.55    | 17.16    | 17.93    | 19.55    |
| Compressor           | Type                               |          |      |           | Scroll      |          |          |          |          |          |
|                      | Quantity                           |          |      |           | 2           |          |          |          |          |          |
| Sound power level    | Cooling                            | Nom.     |      | dBA       | 74.99       | 78.19    | 79.99    | 80.99    | 84.19    | 85.99    |
| Sound pressure level | Cooling                            | Nom.     |      | dBA       | 59.36       | 62.56    | 64.36    | 65.4     | 68.6     | 70.4     |
| Refrigerant          | Type/GWP                           |          |      |           | R-32/675    |          |          |          |          |          |
|                      | Charge                             |          |      | kg        | 0           |          |          |          |          |          |
|                      | Circuits                           | Quantity |      |           | 1           |          |          |          |          |          |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |      |           | 3"          |          |          |          |          |          |
| Unit                 | Starting current                   | Max      |      | A         | 221         | 345      | 363      | 221      | 345      | 363      |
|                      | Running current                    | Cooling  | Nom. | A         | 42.1        | 50       | 60.7     | 42.1     | 50       | 60.7     |
|                      |                                    | Max      |      | A         | 62          | 80       | 97       | 62       | 80       | 97       |
| Power supply         | Phase/Frequency/Voltage            |          |      | Hz/V      | 3/50/400    |          |          |          |          |          |

# Water cooled scroll heat pump

- One of the most compact units on the market:  
600mm x 600mm x 600mm
- Low energy consumption
- Low operating sound level
- Low refrigerant volume
- Stainless steel plate heat exchanger
- Extension possible to 183kW
- Easy installation and maintenance
- Remote cooling or heating selection
- Water/water heat pump, with water reversibility
- Standard integrated: water filter, flow switch, air purge, pressure ports
- Advanced  $\mu C^2SE$  controller for direct connection to a Modbus based BMS or to a remote user interface

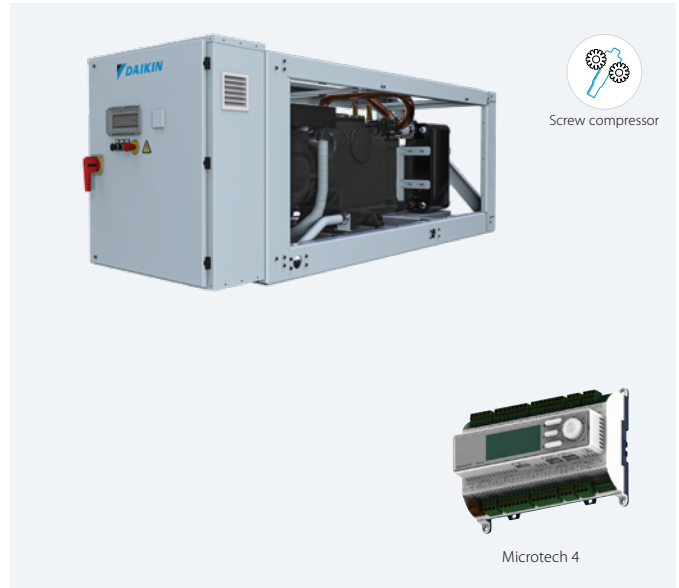


| Cooling & Heating only            |                                    |                             |                                   |                                   | EWWQ-KC | 014         | 025         | 033               | 049         | 064         |
|-----------------------------------|------------------------------------|-----------------------------|-----------------------------------|-----------------------------------|---------|-------------|-------------|-------------------|-------------|-------------|
| SEER                              |                                    |                             |                                   |                                   |         | 4.02        | 4.23        | 3.63              | 4.48        | 3.88        |
| Space heating                     | Average climate water outlet 55°C  | General                     | SCOP                              | Seasonal space heating eff. class |         | 3.64        | 3.63        | 3.71              | 3.58        | 3.87        |
|                                   |                                    |                             |                                   |                                   |         |             |             |                   |             |             |
|                                   | Average climate water outlet 35°C  | General                     | SCOP                              | Seasonal space heating eff. class |         | 4.76        | 4.73        | 4.52              | 4.87        | 4.91        |
|                                   |                                    |                             |                                   |                                   |         |             |             |                   |             |             |
| Cooling capacity                  | Nom.                               |                             | kW                                |                                   |         | 12.09/13.25 | 19.87/23.89 | 28.90/30.47       | 39.35/47.15 | 57.84/61.00 |
| Heating capacity                  | Nom.                               |                             | kW                                |                                   |         | 14.98       | 27.30       | 34.74             | 54.13       | 69.51       |
| Power input                       | Cooling                            | Nom.                        | kW                                |                                   |         | 3.20/3.74   | 5.70/6.11   | 7.30/8.43         | 11.4/12.03  | 14.6/16.41  |
|                                   | Heating                            | Nom.                        | kW                                |                                   |         | 3.90        | 7.10        | 8.70              | 14.4        | 17.5        |
| Capacity control                  | Method                             |                             |                                   |                                   |         |             |             | Fixed             |             |             |
|                                   | Minimum capacity                   |                             | %                                 |                                   |         |             | 100         |                   | 50          |             |
| EER                               |                                    |                             |                                   |                                   |         | 3.237/4.20  | 3.254/4.18  | 3.429/4.16        | 3.27/4.13   | 3.524/4.18  |
| COP                               |                                    |                             |                                   |                                   |         | 3.84        | 3.83        | 3.98              | 3.77        | 3.98        |
| IPLV                              |                                    |                             |                                   |                                   |         | 4.68        | 4.85        | 4.28              | 4.97        | 4.44        |
| Dimensions                        | Unit                               | Height                      | mm                                |                                   |         |             |             | 600               |             |             |
|                                   |                                    | Width                       | mm                                |                                   |         |             |             | 600               |             |             |
|                                   |                                    | Depth                       | mm                                |                                   |         |             | 600         |                   | 1,200       |             |
| Weight                            | Unit                               |                             | kg                                |                                   |         | 68.0        | 132         | 141               | 257         | 265         |
|                                   | Operation weight                   |                             | kg                                |                                   |         | 70/74       | 129/136     | 135/145           | 247/266     | 258/282     |
| Water heat exchanger - evaporator | Type                               |                             |                                   |                                   |         |             |             | Brazed plate      |             |             |
|                                   | Water volume                       |                             | l                                 |                                   |         | 1.47        | 1.96        | 2.74              | 4.47        | 5.88        |
|                                   | Water flow rate                    | Cooling                     | Nom.                              | l/s                               |         | 0.63        | 1.14        | 1.45              | 2.25        | 2.91        |
|                                   |                                    | Heating                     | Nom.                              | l/s                               |         | 0.88        | 1.6         | 2.07              | 3.2         | 4.13        |
|                                   | Water pressure drop                | Cooling                     | Nom.                              | kPa                               |         | 9.71/11.7   | 16.4/28.7   | 21.3/21.6         | 20.5/27.6   | 34.8/44.8   |
|                                   |                                    | Heating                     | Nom.                              | kPa                               |         | 23.70       | 60.20       | 59.60             | 56.70       | 94.60       |
| Compressor                        | Type                               |                             |                                   |                                   |         |             |             | Scroll compressor |             |             |
|                                   | Quantity                           |                             |                                   |                                   |         |             | 1           |                   | 2           |             |
| Sound power level                 | Cooling                            | Nom.                        | dBA                               |                                   |         | 69          |             | 76                | 72          | 79          |
| Sound pressure level              | Cooling                            | Nom.                        | dBA                               |                                   |         | 55.2        |             | 62.1              | 57.6        | 64.6        |
| Operation range                   | Evaporator                         | Cooling                     | Min.~Max.                         | °CDB                              |         |             |             | -10 ~20           |             |             |
|                                   | Condenser                          | Heating                     | Min.~Max.                         | °CDB                              |         |             |             | 20 ~55            |             |             |
| Refrigerant                       | Type/GWP                           |                             |                                   |                                   |         |             |             | R-410A/2,088.0    |             |             |
|                                   | Charge                             |                             | kg                                |                                   |         | 0.0/1.30    | 0.0/1.90    | 0.0/2.70          | 0.0/4.60    | 0.0/6.80    |
|                                   | Circuits                           | Quantity                    |                                   |                                   |         |             | 1           |                   | 2           |             |
| Piping connections                | Evaporator water inlet/outlet (OD) |                             |                                   |                                   |         |             | G1"         |                   | G1" 1/2     |             |
| Space heating                     | Average climate water outlet 55°C  | General                     | SCOP                              |                                   |         | 3.64        | 3.63        | 3.71              | 3.58        | 3.87        |
|                                   | Average climate water outlet 55°C  | General                     | Seasonal space heating eff. class |                                   |         |             |             | A++               |             |             |
| Space heating                     | Average climate water outlet 55°C  | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating)         |                                   |         |             |             | 0.9               |             |             |
|                                   | Average climate water outlet 35°C  | General                     | Seasonal space heating eff. class |                                   |         |             | A+++        | A++               | A+++        |             |
|                                   | Average climate water outlet 35°C  | General                     | Seasonal space heating eff. class |                                   |         |             | A+++        | A++               | A+++        |             |
| Unit                              | Starting current                   | Max                         | A                                 |                                   |         | 57.4        | 109.3       | 124.3             | 124.8       | 143.6       |
|                                   | Running current                    | Cooling                     | Nom.                              | A                                 |         | 6.0/6.57    | 9.0/10.5    | 13.0/14.1         | 19.0/20.9   | 26.0/28.1   |
|                                   | Running current                    | Max                         | A                                 |                                   |         | 9.16        | 15.5/15.53  | 19.3/19.33        | 31.0/31.05  | 38.65/38.7  |
| Power supply                      | Phase/Frequency/Voltage            |                             | Hz/V                              |                                   |         |             |             | 3N~/50/400        |             |             |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more details, see operation range drawing

# Water to water screw heat pump, standard efficiency, standard sound

- Compact design to allow easy indoor installation or retrofit operations
- Daikin semi-hermetic single screw stepless compressor
- High energy efficiency both at full and part load conditions
- Chilled water temperatures down to -10°C on standard unit
- Optimised for use with R-134a
- MicroTech 4 controller with superior control logic and easy interface



EWWD-J-SS

| Cooling & Heating                                                                                 |                                   |          |           | EWWD-J-SS | 120                        | 140       | 150       | 180       | 210   | 250       | 280   |
|---------------------------------------------------------------------------------------------------|-----------------------------------|----------|-----------|-----------|----------------------------|-----------|-----------|-----------|-------|-----------|-------|
|  Space heating | Average climate water outlet 55°C | General  | SCOP      |           | 4.03                       | 4.11      | 4.16      | 4.17      | 4.17  | 4.23      | 3.83  |
| Cooling capacity                                                                                  | Nom.                              |          |           | kW        | 119.7                      | 145.7     | 154.3     | 177.3     | 207.3 | 255.3     | 284.1 |
| Heating capacity                                                                                  | Nom.                              |          |           | kW        | 144.2                      | 175.4     | 189.8     | 217.8     | 252.2 | 308.4     | 347.4 |
| Power input                                                                                       | Cooling                           | Nom.     |           | kW        | 28.0                       | 34.0      | 39.5      | 45.3      | 50.4  | 59.9      | 70.0  |
| Capacity control                                                                                  | Method                            |          |           |           | Stepless                   |           |           |           |       |           |       |
|                                                                                                   | Minimum capacity                  |          |           | %         | 25.0                       |           |           |           |       |           |       |
| EER                                                                                               |                                   |          |           |           | 4.28                       | 4.28      | 3.91      | 3.92      | 4.11  | 4.26      | 4.06  |
| COP                                                                                               |                                   |          |           |           | 5.20                       |           | 4.84      | 4.85      | 5.04  | 5.17      | 4.98  |
| IPLV                                                                                              |                                   |          |           |           | 5.18                       | 5.06      |           | 5.05      | 5.16  | 5.70      | 4.88  |
| Dimensions                                                                                        | Unit                              | Height   |           | mm        | 1,020                      |           |           |           |       |           |       |
|                                                                                                   |                                   | Width    |           | mm        | 913                        |           |           |           |       |           |       |
|                                                                                                   |                                   | Length   |           | mm        | 2,684                      |           |           |           |       |           |       |
| Weight                                                                                            | Unit                              |          |           | kg        | 1,177                      | 1,233     | 1,334     | 1,366     | 1,416 | 1,600     | 1,607 |
|                                                                                                   | Operation weight                  |          |           | kg        | 1,211                      | 1,276     | 1,378     | 1,415     | 1,473 | 1,663     | 1,675 |
| Water heat exchanger - evaporator                                                                 | Type                              |          |           |           | Plate heat exchanger       |           |           |           |       |           |       |
|                                                                                                   | Water volume                      |          |           | l         | 14                         | 18        | 14        | 17        | 20    | 26        |       |
|                                                                                                   | Water flow rate                   | Cooling  | Nom.      | l/s       | 5.7                        | 7.0       | 7.4       | 8.5       | 9.9   | 12.2      | 13.6  |
|                                                                                                   | Water flow rate                   | Heating  | Nom.      | l/s       | 9.3                        | 11.3      | 12        | 13.8      | 16.1  | 19.8      | 22.1  |
|                                                                                                   | Water pressure                    | Cooling  | Nom.      | kPa       | 15                         | 14        | 43        | 40        | 35    | 28        | 34    |
|                                                                                                   | Water pressure drop               | Heating  | Nom.      | kPa       | 36                         | 34        | 103       | 96        | 85    | 68        | 82    |
| Water heat exchanger - condenser                                                                  | Type                              |          |           |           | Single pass shell and tube |           |           |           |       |           |       |
|                                                                                                   | Water volume                      |          |           | l         | 20                         |           | 23        | 25        | 29    |           | 32    |
|                                                                                                   | Water flow rate                   | Cooling  | Nom.      | l/s       | 7.1                        | 8.64      | 9.32      | 10.7      | 12.4  | 15.2      | 17.0  |
|                                                                                                   | Water flow rate                   | Heating  | Nom.      | l/s       | 6.93                       | 8.44      | 9.13      | 10.5      | 12.1  | 14.8      | 16.7  |
|                                                                                                   | Water pressure                    | Cooling  | Nom.      | kPa       | 20                         | 13        | 11        |           | 15    | 17        | 27    |
|                                                                                                   | Water pressure drop               | Heating  | Nom.      | kPa       | 19                         | 12        | 11        |           | 15    | 16        | 26    |
| Compressor                                                                                        | Type                              |          |           |           | Single screw compressor    |           |           |           |       |           |       |
|                                                                                                   | Quantity                          |          |           |           | 1                          |           |           |           |       |           |       |
| Sound power level                                                                                 | Cooling                           | Nom.     |           | dBA       | 89                         |           |           |           |       |           |       |
| Sound pressure level                                                                              | Cooling                           | Nom.     |           | dBA       | 79                         |           |           |           |       |           |       |
| Operation range                                                                                   | Evaporator                        | Cooling  | Min.~Max. | °CDB      | -10~15                     |           |           |           |       |           |       |
|                                                                                                   | Condenser                         | Cooling  | Min.~Max. | °CDB      | 23~60                      |           |           |           |       |           |       |
| Refrigerant                                                                                       | Type/GWP                          |          |           |           | R-134a/1,430               |           |           |           |       |           |       |
|                                                                                                   | Circuits                          | Quantity |           |           | 1                          |           |           |           |       |           |       |
| Refrigerant charge                                                                                | Per circuit                       |          |           | kg/TCO2Eq | 18.0/25.7                  | 35.0/50.1 | 34.0/48.6 | 37.0/52.9 |       | 38.0/54.3 |       |
| Piping connections                                                                                |                                   |          |           | mm        | 76.2                       |           |           |           |       |           |       |
| Piping connections                                                                                | Condenser water inlet/outlet (OD) |          |           |           | 2" 1/2                     | 4"        |           |           |       |           |       |
| Unit                                                                                              | Starting current                  | Max      |           | A         | 153                        |           | 197       |           |       | 290       |       |
|                                                                                                   | Running current                   | Cooling  | Nom.      | A         | 48                         | 57        | 67        | 74        | 83    | 97        | 109   |
|                                                                                                   | Running current                   | Max      |           | A         | 85                         | 103       | 114       | 130       | 154   | 178       | 201   |
| Power supply                                                                                      | Phase/Frequency/Voltage           |          |           | Hz/V      | 3~/50/400                  |           |           |           |       |           |       |

Performances according to CSS software 10.34

Fluid: Water; Fouling factor = 0m 2°C/W

Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.

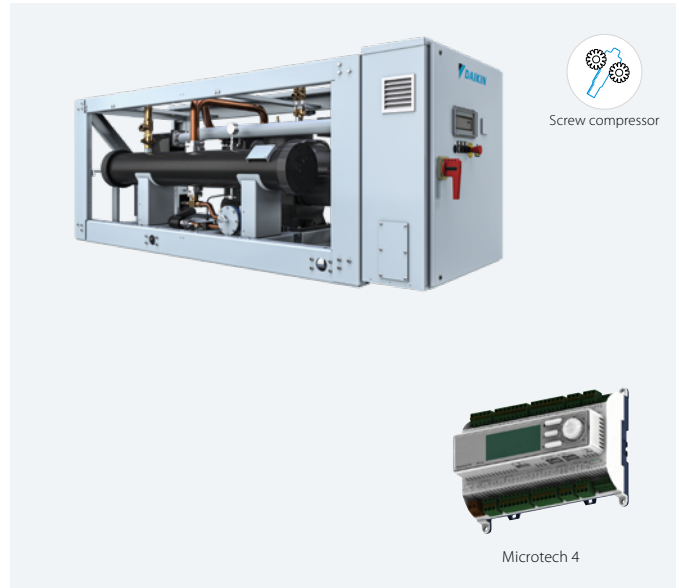






# Water to water screw heat pump, standard efficiency, standard sound

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Daikin semi-hermetic single screw compressor
- Direct expansion plate to plate evaporator
- Shell and tube condenser
- Silver efficiency and standard sound
- Upgrade to new MicroTech 4 controller



EWWH-J-SS

|                                                                                                                         |                                   |          |      | EWWH-J-SS | 090                        | 110   | 120   | 130   | 150   | 180   | 200   |  |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|------|-----------|----------------------------|-------|-------|-------|-------|-------|-------|--|
| <div>Space heating</div> <div></div> | Average climate water outlet 55°C | General  | SCOP |           | 3.91                       | 3.92  | 3.78  | 3.77  | 3.80  | 3.90  | 3.84  |  |
| Cooling capacity                                                                                                        | Nom.                              |          |      | kW        | 88.77                      | 107.1 | 115.1 | 133.5 | 150.1 | 181.6 | 200.6 |  |
| Heating capacity                                                                                                        | Nom.                              |          |      | kW        | 107.2                      | 129.2 | 140.9 | 162.3 | 182.2 | 220.5 | 245   |  |
| Power input                                                                                                             | Cooling                           | Nom.     |      | kW        | 30                         | 36.3  | 41.7  | 47.8  | 54.2  | 65.7  | 74.4  |  |
| Capacity control                                                                                                        | Method                            |          |      |           | Stepless                   |       |       |       |       |       |       |  |
|                                                                                                                         | Minimum capacity                  |          |      | %         | 25                         |       |       |       |       |       |       |  |
| EER                                                                                                                     |                                   |          |      |           | 3.85                       | 3.75  | 3.72  | 3.78  | 3.82  | 3.67  | 3.66  |  |
| COP                                                                                                                     |                                   |          |      |           | 4.69                       | 4.57  | 4.52  | 4.59  | 4.67  | 4.46  | 4.46  |  |
| IPLV                                                                                                                    |                                   |          |      |           | 4.1                        | 4.11  | 4.09  | 4.11  | 4.12  | 4.64  | 4.59  |  |
| Dimensions                                                                                                              | Unit                              | Height   |      | mm        | 1,020                      |       |       |       |       |       |       |  |
|                                                                                                                         |                                   | Width    |      | mm        | 913                        |       |       |       |       |       |       |  |
|                                                                                                                         |                                   | Length   |      | mm        | 2,684                      |       |       |       |       |       |       |  |
| Weight                                                                                                                  | Unit                              |          |      | kg        | 1,177                      | 1,233 | 1,334 | 1,366 | 1,416 | 1,600 | 1,607 |  |
|                                                                                                                         | Operation weight                  |          |      | kg        | 1,211                      | 1,276 | 1,378 | 1,415 | 1,473 | 1,663 | 1,675 |  |
| Water heat exchanger - evaporator                                                                                       | Type                              |          |      |           | Plate heat exchanger       |       |       |       |       |       |       |  |
|                                                                                                                         | Water volume                      |          |      | l         | 14                         | 18    | 14    | 17    | 20    | 26    |       |  |
|                                                                                                                         | Water flow rate                   | Cooling  | Nom. | l/s       | 4.24                       | 5.11  | 5.49  | 6.37  | 7.16  | 8.66  | 9.57  |  |
|                                                                                                                         |                                   | Heating  | Nom. | l/s       | 6.8                        | 8.3   | 8.9   | 10.2  | 11.8  | 13.9  | 15.4  |  |
|                                                                                                                         | Water pressure drop               | Cooling  | Nom. | kPa       | 10.7                       | 10.9  | 19.3  | 19.3  | 17.8  | 16.8  | 20.1  |  |
|                                                                                                                         |                                   | Heating  | Nom. | kPa       | 24.9                       | 25.9  | 45.6  | 44.9  | 43.7  | 39.2  | 47.4  |  |
| Water heat exchanger - condenser                                                                                        | Type                              |          |      |           | Single pass shell and tube |       |       |       |       |       |       |  |
|                                                                                                                         | Water volume                      |          |      | l         | 20                         | 20    | 23    | 25    | 29    |       | 32    |  |
|                                                                                                                         | Water flow rate                   | Cooling  | Nom. | l/s       | 5.18                       | 6.31  | 6.79  | 7.84  | 9.1   | 10.7  | 11.9  |  |
|                                                                                                                         |                                   | Heating  | Nom. | l/s       | 6.77                       | 8.27  | 8.86  | 10.2  | 11.8  | 13.9  | 15.4  |  |
|                                                                                                                         | Water pressure drop               | Cooling  | Nom. | kPa       | 9.1                        | 9.7   | 8.7   | 9.1   | 9.3   | 12.3  | 12.1  |  |
|                                                                                                                         |                                   | Heating  | Nom. | kPa       | 24.9                       | 25.9  | 45.6  | 44.9  | 43.7  | 39.2  | 47.4  |  |
| Compressor                                                                                                              | Type                              |          |      |           | Single screw compressor    |       |       |       |       |       |       |  |
|                                                                                                                         | Quantity                          |          |      |           | 1                          |       |       |       |       |       |       |  |
| Sound power level                                                                                                       | Cooling                           | Nom.     |      | dBA       | 89                         |       |       |       |       |       |       |  |
| Sound pressure level                                                                                                    | Cooling                           | Nom.     |      | dBA       | 79                         |       |       |       |       |       |       |  |
| Refrigerant                                                                                                             | Type                              |          |      |           | R-1234(ze)                 |       |       |       |       |       |       |  |
|                                                                                                                         | Charge                            |          |      | kg        | 18                         | 35    | 34    | 37    |       | 38    |       |  |
|                                                                                                                         | Circuits                          | Quantity |      |           | 1                          |       |       |       |       |       |       |  |
| Piping connections                                                                                                      |                                   |          |      | mm        | 76.2                       |       |       |       |       |       |       |  |
|                                                                                                                         | Condenser water inlet/outlet      |          |      | inch      | 2" 1/2                     | 4     |       |       |       |       |       |  |
| Unit                                                                                                                    | Starting current                  | Max      |      | A         | 153                        |       | 197   |       |       | 290   |       |  |
|                                                                                                                         | Running current                   | Cooling  | Nom. | A         | 39                         | 44    | 55    | 60    | 65    | 76    | 84    |  |
|                                                                                                                         |                                   | Max      |      | A         | 75                         | 90    | 100   | 114   | 143   | 158   | 178   |  |
| Power supply                                                                                                            | Phase/Frequency/Voltage           |          |      | Hz/V      | 3~/50/400                  |       |       |       |       |       |       |  |

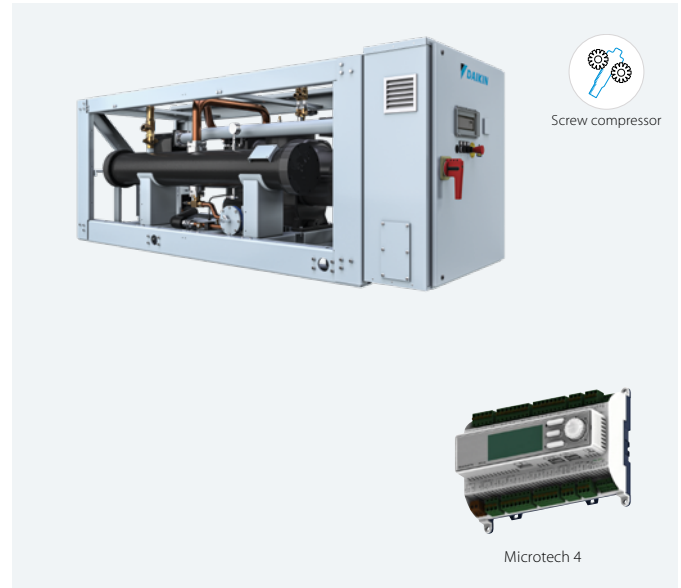
performances according to CSS software 10.34

Fluid: Water; Fouling factor = 0m 2°C/W

Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.

# Water to water screw heat pump, standard efficiency, standard sound

- Refrigerant R-513A
- Daikin semi-hermetic single screw compressor
- Direct expansion plate to plate evaporator
- Shell and tube condenser
- Silver efficiency and standard sound
- Upgrade to new MicroTech 4 controller



EWWS-J-SS

| EWWS-J-SS                                                                                                               |                                   |          |       | 120                        | 140   | 150   | 180   | 210   | 240   | 270   |      |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|-------|----------------------------|-------|-------|-------|-------|-------|-------|------|
| <div>Space heating</div> <div></div> | Average climate water outlet 55°C | General  | SCOP  | 3.63                       | 3.54  | 3.56  | 3.59  | 3.62  | 3.54  | 3.58  |      |
| Cooling capacity                                                                                                        | Nom.                              |          | kW    | 115.2                      | 136.3 | 154.7 | 180.6 | 207.3 | 241   | 272.2 |      |
| Heating capacity                                                                                                        | Nom.                              |          | kW    | 141.7                      | 167.5 | 191.3 | 223   | 256.9 | 297   | 338.2 |      |
| Power input                                                                                                             | Cooling                           | Nom.     | kW    | 30                         | 36.3  | 41.7  | 47.8  | 54.2  | 65.7  | 74.4  |      |
| Capacity control                                                                                                        | Method                            |          |       | Stepless                   |       |       |       |       |       |       |      |
|                                                                                                                         | Minimum capacity                  |          | %     | 25                         |       |       |       |       |       |       |      |
| EER                                                                                                                     |                                   |          |       | 3.85                       | 3.75  | 3.72  | 3.78  | 3.82  | 3.67  | 3.66  |      |
| COP                                                                                                                     |                                   |          |       | 4.69                       | 4.57  | 4.52  | 4.59  | 4.67  | 4.46  |       |      |
| IPLV                                                                                                                    |                                   |          |       | 4.1                        | 4.11  | 4.09  | 4.11  | 4.12  | 4.64  | 4.59  |      |
| Dimensions                                                                                                              | Unit                              | Height   | mm    | 1,020                      |       |       |       |       |       |       |      |
|                                                                                                                         |                                   | Width    | mm    | 913                        |       |       |       |       |       |       |      |
|                                                                                                                         |                                   | Length   | mm    | 2,684                      |       |       |       |       |       |       |      |
| Weight                                                                                                                  | Unit                              |          | kg    | 1,177                      | 1,233 | 1,334 | 1,366 | 1,416 | 1,600 | 1,607 |      |
|                                                                                                                         | Operation weight                  |          | kg    | 1,211                      | 1,276 | 1,378 | 1,415 | 1,473 | 1,663 | 1,675 |      |
| Water heat exchanger - evaporator                                                                                       | Type                              |          |       | Plate heat exchanger       |       |       |       |       |       |       |      |
|                                                                                                                         | Water volume                      |          | l     | 14                         | 18    | 14    | 17    | 20    | 26    |       |      |
|                                                                                                                         | Water flow rate                   | Cooling  | Nom.  | l/s                        | 5.5   | 6.5   | 7.38  | 8.62  | 9.89  | 11.5  | 13   |
|                                                                                                                         |                                   | Heating  | Nom.  | l/s                        | 8.8   | 10.8  | 12.1  | 13.8  | 15.5  | 19    | 21.1 |
|                                                                                                                         | Water pressure drop               | Cooling  | Nom.  | kPa                        | 17.1  | 16.8  | 32.8  | 33.4  | 31.8  | 27.9  | 34.8 |
|                                                                                                                         |                                   | Heating  | Nom.  | kPa                        | 40.1  | 41.7  | 79.4  | 78.1  | 71.5  | 68.9  | 83.3 |
| Water heat exchanger - condenser                                                                                        | Type                              |          |       | Single pass shell and tube |       |       |       |       |       |       |      |
|                                                                                                                         | Water volume                      |          | l     | 20                         | 20    | 23    | 25    | 29    |       | 32    |      |
|                                                                                                                         | Water flow rate                   | Cooling  | Nom.  | l/s                        | 6.87  | 8.38  | 9.39  | 10.8  | 12.1  | 14.8  | 16.5 |
|                                                                                                                         |                                   | Heating  | Nom.  | l/s                        | 6.72  | 8.2   | 9.2   | 10.6  | 11.9  | 14.5  | 16.2 |
|                                                                                                                         | Water pressure drop               | Cooling  | Nom.  | kPa                        | 15    | 16.1  | 15.4  | 15.9  | 15.4  | 22    | 21.6 |
|                                                                                                                         |                                   | Heating  | Nom.  | kPa                        | 14.4  | 15.5  | 14.8  | 15.3  | 14.8  | 21.2  | 20.8 |
| Compressor                                                                                                              | Type                              |          |       | Single screw compressor    |       |       |       |       |       |       |      |
|                                                                                                                         | Quantity                          |          |       | 1                          |       |       |       |       |       |       |      |
| Sound power level                                                                                                       | Cooling                           | Nom.     | dB(A) | 89                         |       |       |       |       |       |       |      |
| Sound pressure level                                                                                                    | Cooling                           | Nom.     | dB(A) | 79                         |       |       |       |       |       |       |      |
| Refrigerant                                                                                                             | Type                              |          |       | R-513A                     |       |       |       |       |       |       |      |
|                                                                                                                         | Charge                            |          | kg    | 18                         | 35    | 34    | 37    |       | 38    |       |      |
|                                                                                                                         | Circuits                          | Quantity |       | 1                          |       |       |       |       |       |       |      |
| Piping connections                                                                                                      |                                   |          | mm    | 76.2                       |       |       |       |       |       |       |      |
| Piping connections                                                                                                      | Condenser water inlet/outlet      |          | inch  | 2" 1/2                     | 4     |       |       |       |       |       |      |
| Unit                                                                                                                    | Starting current                  | Max      | A     | 154                        |       |       | 198   |       | 291   |       |      |
|                                                                                                                         | Running current                   | Cooling  | Nom.  | A                          | 50    | 60    | 70    | 78    | 87    | 104   | 117  |
|                                                                                                                         |                                   | Max      | A     | 81                         | 96    | 108   | 122   | 141   | 164   | 185   |      |
| Power supply                                                                                                            | Phase/Frequency/Voltage           |          | Hz/V  | 3~/50/400                  |       |       |       |       |       |       |      |

performances according to CSS software 10.34

Fluid: Water; Fouling factor = 0m 2°C/W

Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.



## The highest peak in chiller technology

The VZ chiller series was developed and manufactured to meet the growing market demand for highly efficient chillers. Thanks to continuous advancements in component technology, we are the first to achieve the highest levels of chiller efficiency and innovation.

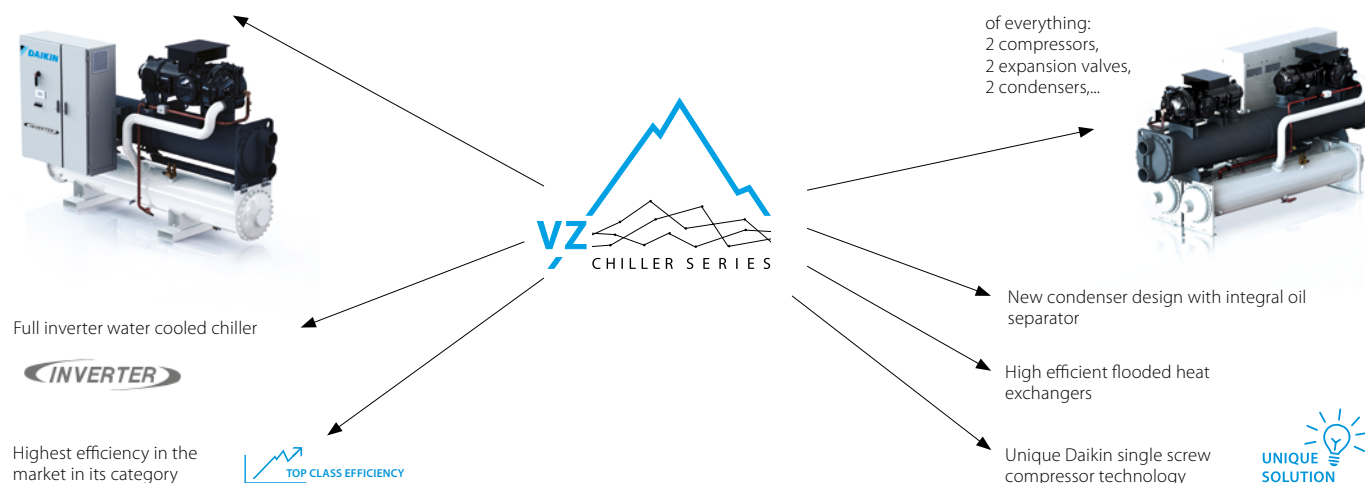
### EWV(H)(D)(S)-VZ at a glance

#### Single compressor

440kW - 1,050kW with R134a or R513A  
330kW - 790kW with R1234ze

#### Dual compressor & dual circuit unit

1,170kW - 2,070kW with R134a or R513A  
865kW - 1,540kW with R1234ze



#### Performance monitoring

With MT4, advanced algorithm implementation in the unit controller are possible, such as the **Performance Monitoring** (Option 186). This sensor-less algorithm

calculates the unit cooling capacity by using refrigerant pressure and temperature readings. Electrical power is calculated either from compressor VFD power and fan, or directly

measured through optional energy meter. As a standard(\*), **no extra-hardware is required.**

(\*) For TZ-B units an additional sub-cooling temperature sensor is required.

## Marketing material

All marketing material can be downloaded from the business portal.  
 Asset finder > Campaign > VZ chiller series



## Why choose EWW(H)(D)(S)-VZ at a glance chiller series?



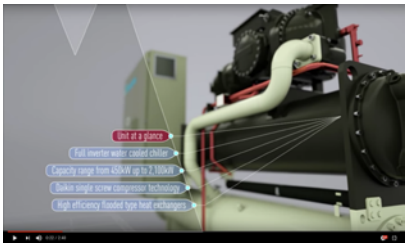
- 1 Top class efficiency**  
Thanks to:
  - New generation Daikin inverter screw compressors
  - New generation high efficiency heat exchangers
  - Variable volume ratio technology
  - Optimized refrigerant circuit design
- 2 Compact unit: 40% footprint reduction**  
Thanks to:
  - New single pass condenser technology
  - New integrated oil separator technology
  - Optional knock down panel which reduces the unit width
- 3 Application flexibility: widest operating envelope in its range**
- 4 Connectivity: Daikin on site cloud platform**
- 5 Future readiness: Choose today's best solution and be ready for the future**

## Product profile

Want to know more about this product?  
 Have a look at our website and download the product profile:  
[www.daikineurope.com/vzchillerseries](http://www.daikineurope.com/vzchillerseries)

### Supporting tools

#### Product video



YouTube

[www.youtube.com/DaikinEurope](https://www.youtube.com/DaikinEurope)



# Water cooled screw inverter chiller, standard efficiency, standard sound

- Optimised energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 65°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to y+our specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWD-VZSS

| Cooling only/Heating only         |                                   |           |      | EWWD-VZSS | 600                      | 700    | 760    | 890     | C10      | C12            | C13      | C14      | C16      | C17            | C19      | C21     |
|-----------------------------------|-----------------------------------|-----------|------|-----------|--------------------------|--------|--------|---------|----------|----------------|----------|----------|----------|----------------|----------|---------|
| Space cooling                     | A Condition Pdc<br>(35°C - 27/19) |           |      | kW        | 609.91                   | 704.22 | 756.52 | 894.23  | 1,039.49 | 1,173.02       | 1,288.02 | 1,381.01 | 1,552.02 | 1,722.02       | 1,875.55 | 2,051.2 |
|                                   | ηs,c                              |           |      | %         | 340                      |        | 337.2  | 331.6   | 332      | 337.2          | 331.6    | 331.2    | 320.8    | 338.8          | 322      | 338.8   |
| SEER                              |                                   |           |      |           | 8.7                      |        | 8.63   | 8.49    | 8.5      | 8.63           | 8.49     | 8.48     | 8.22     | 8.67           | 8.25     | 8.67    |
| Cooling capacity                  | Nom.                              |           |      | kW        | 610                      | 704    | 757    | 894     | 1,039    | 1,173          | 1,288    | 1,381    | 1,552    | 1,722          | 1,876    | 2,051   |
| Power input                       | Cooling                           | Nom.      |      | kW        | 110                      | 132    | 142    | 162     | 196      | 231            | 252      | 276      | 315      | 339            | 380      | 404     |
| Capacity control                  | Method                            |           |      |           | Variable                 |        |        |         |          |                |          |          |          |                |          |         |
|                                   | Minimum capacity                  |           |      | %         | 20                       |        |        |         |          | 10             |          |          |          |                |          |         |
| EER                               |                                   |           |      |           | 5.5                      | 5.31   | 5.3    | 5.52    | 5.29     | 5.07           | 5.11     | 5        | 4.93     | 5.08           | 4.93     | 5.08    |
| IPLV                              |                                   |           |      |           | 9.43                     | 9.36   | 9.4    | 9.37    | 9.4      | 9.52           | 9.56     | 9.57     | 9.36     | 9.7            | 9.38     | 9.65    |
| Dimensions                        | Unit                              | Height    |      | mm        | 2,123                    |        |        | 2,292   | 2,487    | 2,296          |          |          | 2,350    | 2,338          | 2,498    |         |
|                                   |                                   | Width     |      | mm        | 1,178                    | 1,179  |        | 1,233   | 1,303    | 1,484          | 1,487    |          | 1,484    | 1,580          | 1,627    | 1,753   |
|                                   |                                   | Length    |      | mm        | 3,722                    | 3,750  |        | 3,690   | 3,822    | 4,792          |          |          | 4,508    |                |          | 4,750   |
|                                   |                                   |           |      |           |                          |        |        |         |          |                |          |          |          |                |          |         |
| Weight                            | Unit                              |           |      | kg        | 2,892                    | 2,928  | 2,941  | 3,451   | 4,237    | 5,570          | 5,790    | 5,820    | 6,220    | 6,890          | 7,260    | 8,260   |
|                                   | Operation weight                  |           |      | kg        | 2,977                    | 3,033  | 3,053  | 3,611   | 4,488    | 5,980          | 6,220    | 6,290    | 6,690    | 7,480          | 7,830    | 9,070   |
| Water heat exchanger - evaporator | Type                              |           |      |           | Flooded shell and tube   |        |        |         |          |                |          |          |          |                |          |         |
|                                   | Water volume                      |           |      | l         | 88                       |        | 96     | 134     | 156      | 230            |          | 270      |          | 320            |          | 380     |
|                                   | Water flow rate                   | Cooling   | Nom. | l/s       | 29.2                     | 33.8   | 36.3   | 42.9    | 49.9     | 56.2           | 61.7     | 66.1     | 74.4     | 82.5           | 89.9     | 98.2    |
|                                   | Water pressure drop               | Cooling   | Nom. | kPa       | 79                       | 106    | 88     | 98      | 102      | 69             | 84       | 70       | 89       | 78             | 92       | 80      |
| Water heat exchanger - condenser  | Type                              |           |      |           | Shell and tube           |        |        |         |          |                |          |          |          |                |          |         |
|                                   | Water volume                      |           |      | l         | 81                       | 102    |        | 126     | 217      | 180            |          | 200      |          | 270            | 250      | 430     |
|                                   | Water flow rate                   | Cooling   | Nom. | l/s       | 35.3                     | 41     | 44.1   | 51.9    | 60.6     | 69.1           | 75.8     | 81.5     | 91.9     | 101            | 111      | 120     |
|                                   | Water pressure drop               | Cooling   | Nom. | kPa       | 31                       | 29     | 33     | 29      | 33       | 44             | 39       | 45       | 66       | 42             | 55       | 37      |
| Compressor                        | Type                              |           |      |           | Driven vapour compressor |        |        |         |          |                |          |          |          |                |          |         |
|                                   | Quantity                          |           |      |           | 1                        |        |        |         |          | 2              |          |          |          |                |          |         |
| Sound power level                 | Cooling                           | Nom.      |      | dB(A)     | 101                      | 105    |        |         | 107      | 106            |          | 107      |          | 108            |          | 110     |
| Sound pressure level              | Cooling                           | Nom.      |      | dB(A)     | 82                       | 86     |        |         | 88       | 87             |          | 88       |          | 89             |          | 90      |
| Operation range                   | Evaporator                        | Min.~Max. |      | °CDB      | -12~20                   |        |        |         |          |                |          |          |          |                |          |         |
|                                   | Condenser                         | Min.~Max. |      | °CDB      | 19~63                    |        |        |         |          |                |          |          |          |                |          |         |
| Refrigerant                       | Type/GWP                          |           |      |           | R-134a/1,430             |        |        |         |          |                |          |          |          |                |          |         |
|                                   | Charge                            |           |      | kg        | 125                      | 120    | 125    | 145     | 180      | 250            | 260      | 270      | 220      | 305            | 290      | 350     |
|                                   | Circuits                          | Quantity  |      |           | 1                        |        |        |         |          | 2              |          |          |          |                |          |         |
| Piping connections                |                                   |           |      | mm        | 139.7                    |        |        | 168.3   | 219.1    |                |          |          |          |                |          |         |
|                                   | Condenser water inlet/outlet (OD) |           |      |           | 168.3mm                  |        |        | 219.1mm |          | 168.3/168.3 mm |          |          |          | 219.1/219.1 mm |          |         |
| Unit                              | Running current                   | Cooling   | Nom. | A         | 171                      | 202    | 220    | 249     | 300      | 349            | 379      | 414      | 470      | 508            | 566      | 604     |
|                                   | Running current                   | Max       |      | A         | 235                      | 280    | 301    | 342     | 417      | 470            | 513      | 559      | 621      | 696            | 758      | 834     |
| Power supply                      | Phase/Frequency/Voltage           |           |      | Hz/V      | 3~/50/400                |        |        |         |          |                |          |          |          |                |          |         |

performances according to CSS software 10.33



# Water cooled screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 65°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWD-VZXS

| Cooling only/Heating only         |                                       |          |           | EWWD-VZXS |                          | 450    | 500     | 610    | 710    | 800    | 900            | C11      | C12            | C13      | C14      | C16      | C17      | C19      | C21   |
|-----------------------------------|---------------------------------------|----------|-----------|-----------|--------------------------|--------|---------|--------|--------|--------|----------------|----------|----------------|----------|----------|----------|----------|----------|-------|
| Space cooling                     | A Condition<br>(35°C - 27/19)<br>ηs,c | Pdc      |           | kW        | 448.83                   | 500.51 | 612.77  | 713.11 | 793.52 | 901.21 | 1,053.02       | 1,194.03 | 1,305.01       | 1,406.98 | 1,593.03 | 1,748.03 | 1,912.01 | 2,074.02 |       |
|                                   |                                       |          |           | %         | 324.8                    | 329.2  | 347.2   | 350    | 345.6  | 337.6  | 344.4          | 347.6    | 342.4          | 348      | 347.2    | 347.6    | 337.2    | 344.4    |       |
| SEER                              |                                       |          |           |           | 8.32                     | 8.43   | 8.88    | 8.95   | 8.84   | 8.64   | 8.81           | 8.89     | 8.76           | 8.9      | 8.88     | 8.89     | 8.63     | 8.81     |       |
| Cooling capacity                  | Nom.                                  |          |           | kW        | 449                      | 501    | 613     | 713    | 794    | 901    | 1,053          | 1,194    | 1,305          | 1,407    | 1,593    | 1,748    | 1,912    | 2,074    |       |
| Power input                       | Cooling                               | Nom.     |           | kW        | 81.2                     | 89.7   | 108     | 128    | 146    | 159    | 192            | 221      | 244            | 262      | 296      | 329      | 365      | 394      |       |
| Capacity control                  | Method                                |          |           |           | Variable                 |        |         |        |        |        |                |          |                |          |          |          |          |          |       |
|                                   | Minimum capacity                      |          |           | %         | 20                       |        |         |        |        |        |                | 10       |                |          |          |          |          |          |       |
| EER                               |                                       |          |           |           | 5.53                     | 5.58   | 5.64    | 5.54   | 5.43   | 5.67   | 5.46           | 5.38     | 5.34           | 5.36     | 5.38     | 5.31     | 5.23     | 5.25     |       |
| IPLV                              |                                       |          |           |           | 9.42                     | 9.59   | 9.52    | 9.66   | 9.64   | 9.48   | 9.58           | 9.66     | 9.67           | 9.76     | 9.74     | 9.82     | 9.68     | 9.7      |       |
| Dimensions                        | Unit                                  | Height   |           | mm        | 2,135                    |        | 2,123   | 2,235  |        | 2,487  |                | 2,296    |                | 2,301    |          | 2,350    | 2,500    | 2,469    | 2,493 |
|                                   |                                       | Width    |           | mm        | 1,178                    |        | 1,179   | 1,189  |        | 1,303  |                | 1,484    |                | 1,639    | 1,579    | 1,580    | 1,610    | 1,704    | 1,769 |
|                                   |                                       | Length   |           | mm        | 3,722                    |        | 3,750   | 3,690  |        | 3,822  |                | 4,792    |                | 4,508    |          | 4,750    | 4,874    |          |       |
|                                   |                                       |          |           |           |                          |        |         |        |        |        |                |          |                |          |          |          |          |          |       |
| Weight                            | Unit                                  |          |           | kg        | 2,968                    | 2,911  | 3,102   | 3,470  | 3,451  | 4,257  | 4,552          | 5,860    | 6,240          | 6,520    | 6,920    | 7,530    | 7,790    | 8,670    |       |
|                                   | Operation weight                      |          |           | kg        | 3,098                    | 3,006  | 3,274   | 3,648  | 3,611  | 4,518  | 4,860          | 6,370    | 6,760          | 7,130    | 7,530    | 8,300    | 8,560    | 9,630    |       |
| Water heat exchanger - evaporator | Type                                  |          |           |           | Flooded shell and tube   |        |         |        |        |        |                |          |                |          |          |          |          |          |       |
|                                   | Water volume                          |          |           | l         | 70                       | 88     | 136     | 134    |        | 168    | 199            | 270      |                | 320      |          | 380      | 480      |          |       |
|                                   | Water flow rate                       | Cooling  | Nom.      | l/s       | 21.5                     | 24     | 29.3    | 34.1   | 38     | 43.2   | 50.4           | 57.1     | 62.5           | 67.3     | 76.3     | 83.6     | 91.4     | 99.2     |       |
|                                   | Water pressure drop                   | Cooling  | Nom.      | kPa       | 89                       | 63     | 59      | 63     | 55     | 67     | 59             | 52       | 62             | 52       | 67       | 58       | 49       | 58       |       |
| Water heat exchanger - condenser  | Type                                  |          |           |           | Shell and tube           |        |         |        |        |        |                |          |                |          |          |          |          |          |       |
|                                   | Water volume                          |          |           | l         | 81                       | 92     | 126     | 145    | 126    | 217    | 241            | 240      | 250            | 290      |          | 390      | 290      | 480      |       |
|                                   | Water flow rate                       | Cooling  | Nom.      | l/s       | 26.4                     | 29.4   | 35.3    | 41.2   | 46.1   | 52     | 61             | 69.8     | 76.3           | 82.2     | 93.2     | 102      | 112      | 121      |       |
|                                   | Water pressure drop                   | Cooling  | Nom.      | kPa       | 31                       | 28     | 22      | 20     | 24     | 25     |                | 28       |                | 21       | 32       | 27       | 37       | 28       |       |
| Compressor                        | Type                                  |          |           |           | Driven vapour compressor |        |         |        |        |        |                |          |                |          |          |          |          |          |       |
|                                   | Quantity                              |          |           |           | 1                        |        |         |        |        |        |                | 2        |                |          |          |          |          |          |       |
| Sound power level                 | Cooling                               | Nom.     |           | dBA       | 97                       | 99     | 101     | 105    |        | 107    |                | 106      |                | 107      |          | 108      | 109      | 110      |       |
| Sound pressure level              | Cooling                               | Nom.     |           | dBA       | 78                       | 80     | 82      | 86     |        | 88     |                | 87       |                | 88       |          | 89       |          | 90       |       |
| Operation range                   | Evaporator                            |          | Min.~Max. | °CDB      | -12~20                   |        |         |        |        |        |                |          |                |          |          |          |          |          |       |
|                                   | Condenser                             |          | Min.~Max. | °CDB      | 19~65                    |        |         |        |        |        |                |          |                |          |          |          |          |          |       |
| Refrigerant                       | Type/GWP                              |          |           |           | R-134a/1,430             |        |         |        |        |        |                |          |                |          |          |          |          |          |       |
|                                   | Charge                                |          |           | kg        | 110                      |        | 125     | 140    | 160    | 200    | 185            | 270      | 260            | 230      | 290      | 290      | 320      | 370      |       |
|                                   | Circuits                              | Quantity |           |           | 1                        |        |         |        |        |        |                | 2        |                |          |          |          |          |          |       |
| Piping connections                |                                       |          |           | mm        | 139.7                    |        | 168.3   |        | 219.1  |        |                |          |                |          |          | 273      |          |          |       |
|                                   | Condenser water inlet/outlet (OD)     |          |           |           | 168.3mm                  |        | 219.1mm |        |        |        | 168.3/219.1 mm |          | 219.1/219.1 mm |          |          |          |          |          |       |
| Unit                              | Running current                       | Cooling  | Nom.      | A         | 126                      | 140    | 171     | 201    | 229    | 249    | 299            | 340      | 372            | 400      | 450      | 498      | 554      | 596      |       |
|                                   | Running current                       | Max      |           | A         | 172                      | 191    | 235     | 280    | 316    | 342    | 417            | 470      | 513            | 559      | 621      | 696      | 758      | 834      |       |
| Power supply                      | Phase/Frequency/Voltage               |          |           | Hz/V      | 3~/50/400                |        |         |        |        |        |                |          |                |          |          |          |          |          |       |

performances according to CSS software 10.33

# Water cooled screw inverter chiller, premium efficiency, standard sound

- Premium energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 65°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWD-VZPS

| Cooling only/ Heating only        |                                   |           |      | EWWD-VZPS | 505                      | 715    | 910    | C12            | C16      | C18      |
|-----------------------------------|-----------------------------------|-----------|------|-----------|--------------------------|--------|--------|----------------|----------|----------|
| Space cooling                     | A Condition Pdc (35°C - 27/19)    |           |      | kW        | 505.02                   | 717.71 | 908.11 | 1,201.02       | 1,604.03 | 1,757.01 |
|                                   | ηs,c                              |           |      | %         | 339.6                    | 355.2  | 344.4  | 353.6          | 354      | 350      |
| SEER                              |                                   |           |      |           | 8.69                     | 9.08   | 8.81   | 9.04           | 9.05     | 8.95     |
| Cooling capacity                  | Nom.                              |           |      | kW        | 505                      | 718    | 908    | 1,201          | 1,604    | 1,757    |
| Power input                       | Cooling                           | Nom.      |      | kW        | 85.1                     | 124    | 153    | 218            | 291      | 326      |
| Capacity control                  | Method                            |           |      |           | Variable                 |        |        |                |          |          |
|                                   | Minimum capacity                  |           |      | %         | 20                       |        |        | 10             |          |          |
| EER                               |                                   |           |      |           | 5.93                     | 5.77   | 5.91   | 5.49           | 5.5      | 5.39     |
| IPLV                              |                                   |           |      |           | 9.61                     | 9.68   | 9.57   | 9.79           | 9.82     | 9.92     |
| Dimensions                        | Unit                              | Height    |      | mm        | 2,108                    | 2,430  | 2,487  | 2,302          | 2,500    | 2,493    |
|                                   |                                   | Width     |      | mm        | 1,179                    | 1,287  | 1,303  | 1,579          | 1,610    | 1,769    |
|                                   |                                   | Length    |      | mm        | 3,750                    | 3,822  |        | 4,508          | 4,750    | 4,874    |
|                                   |                                   |           |      |           |                          |        |        |                |          |          |
| Weight                            | Unit                              |           |      | kg        | 3,247                    | 4,082  | 4,346  | 6,310          | 7,530    | 8,250    |
|                                   | Operation weight                  |           |      | kg        | 3,375                    | 4,349  | 4,660  | 6,900          | 8,300    | 9,200    |
| Water heat exchanger - evaporator | Type                              |           |      |           | Flooded shell and tube   |        |        |                |          |          |
|                                   | Water volume                      |           |      | l         | 96                       | 168    | 199    | 320            | 380      | 480      |
|                                   | Water flow rate                   | Cooling   | Nom. | l/s       | 24.2                     | 34.3   | 43.4   | 57.4           | 76.7     | 84       |
|                                   | Water pressure drop               | Cooling   | Nom. | kPa       | 55                       | 42     | 44     | 38             | 49       | 41       |
| Water heat exchanger - condenser  | Type                              |           |      |           | Shell and tube           |        |        |                |          |          |
|                                   | Water volume                      |           |      | l         | 126                      | 217    | 241    | 270            | 390      | 470      |
|                                   | Water flow rate                   | Cooling   | Nom. | l/s       | 29.4                     | 41.3   | 52.1   | 69.9           | 93.4     | 102      |
|                                   | Water pressure drop               | Cooling   | Nom. | kPa       | 16                       | 17     | 19     | 21             |          | 28       |
| Compressor                        | Type                              |           |      |           | Driven vapour compressor |        |        |                |          |          |
|                                   | Quantity                          |           |      |           | 1                        |        |        | 2              |          |          |
| Sound power level                 | Cooling                           | Nom.      |      | dBA       | 99                       | 105    |        | 106            | 107      | 109      |
| Sound pressure level              | Cooling                           | Nom.      |      | dBA       | 80                       | 86     |        | 87             | 88       | 89       |
| Operation range                   | Evaporator                        | Min.~Max. |      | °CDB      | -12~20                   |        |        |                |          |          |
|                                   | Condenser                         | Min.~Max. |      | °CDB      | 19~65                    |        |        |                |          |          |
| Refrigerant                       | Type/GWP                          |           |      |           | R-134a/1,430             |        |        |                |          |          |
|                                   | Charge                            |           |      | kg        | 120                      | 195    | 185    | 305            | 320      | 350      |
|                                   | Circuits                          | Quantity  |      |           | 1                        |        |        | 2              |          |          |
| Piping connections                |                                   |           |      | mm        | 139.7                    | 219.1  |        |                |          | 273      |
|                                   | Condenser water inlet/outlet (OD) |           |      |           | 219.1mm                  |        |        | 219.1/219.1 mm |          |          |
| Unit                              | Running current                   | Cooling   | Nom. | A         | 138                      | 200    | 247    | 338            | 447      | 497      |
|                                   | Running current                   | Max       |      | A         | 191                      | 280    | 342    | 470            | 621      | 696      |
| Power supply                      | Phase/Frequency/Voltage           |           |      | Hz/V      | 3~/50/400                |        |        |                |          |          |

performances according to CSS software 10.33





# Water cooled screw inverter chiller, standard efficiency, standard sound

- Optimised energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 75°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWH-VZSS

| Cooling only/Heating only         |                                   |          |      | EWWH-VZSS | 445                       | 515   | 550    | 660     | 770            | 860   | 940   | C10     | C12            | C13      | C14      | C15      |
|-----------------------------------|-----------------------------------|----------|------|-----------|---------------------------|-------|--------|---------|----------------|-------|-------|---------|----------------|----------|----------|----------|
| Space cooling                     | A Condition Pdc<br>(35°C - 27/19) |          |      | kW        | 443                       | 512   | 548.51 | 657.51  | 767.8          | 865.2 | 940.6 | 1,011.7 | 1,142.46       | 1,271.38 | 1,396.11 | 1,524.83 |
|                                   | ηs,c                              |          |      | %         | 336.4                     | 338.4 | 336.8  | 348.4   | 345.2          | 318.4 | 327.2 | 339.6   | 331.2          | 340      | 345.6    | 353.2    |
| SEER                              |                                   |          |      |           | 8.61                      | 8.66  | 8.62   | 8.91    | 8.83           | 8.16  | 8.38  | 8.69    | 8.48           | 8.7      | 8.84     | 9.03     |
| Cooling capacity                  | Nom.                              |          |      | kW        | 443                       | 512   | 549    | 658     | 768            | 865   | 941   | 1,012   | 1,142          | 1,271    | 1,396    | 1,525    |
| Power input                       | Cooling                           | Nom.     |      | kW        | 82.8                      | 98.1  | 107    | 123     | 149            | 172   | 188   | 205     | 235            | 254      | 282      | 302      |
| Capacity control                  | Method                            |          |      |           | Variable                  |       |        |         |                |       |       |         |                |          |          |          |
|                                   | Minimum capacity                  |          |      | %         | 20                        |       |        |         |                |       | 10    |         |                |          |          |          |
| EER                               |                                   |          |      |           | 5.35                      | 5.22  | 5.15   | 5.34    | 5.14           | 5.02  | 5     | 4.93    | 4.87           | 5.01     | 4.95     | 5.04     |
| IPLV                              |                                   |          |      |           | 9.25                      |       | 9.24   | 9.48    | 9.32           | 8.94  | 9.08  | 9.13    | 9.14           | 9.3      | 9.13     | 9.34     |
| Dimensions                        | Unit                              | Height   |      | mm        | 2,123                     |       |        | 2,292   | 2,487          | 2,296 |       |         |                | 2,350    | 2,338    | 2,498    |
|                                   |                                   | Width    |      | mm        | 1,178                     | 1,179 |        | 1,233   | 1,303          | 1,484 | 1,487 |         | 1,484          | 1,580    | 1,627    | 1,753    |
|                                   |                                   | Length   |      | mm        | 3,722                     | 3,750 |        | 3,690   | 3,822          | 4,792 |       |         |                | 4,508    |          | 4,750    |
| Weight                            | Unit                              |          |      | kg        | 2,892                     | 2,928 | 2,941  | 3,451   | 4,237          | 5,570 | 5,790 | 5,820   | 6,220          | 6,890    | 7,260    | 8,260    |
|                                   | Operation weight                  |          |      | kg        | 2,977                     | 3,033 | 3,053  | 3,611   | 4,488          | 5,980 | 6,220 | 6,290   | 6,690          | 7,480    | 7,830    | 9,070    |
| Water heat exchanger - evaporator | Type                              |          |      |           | Flooded shell and tube    |       |        |         |                |       |       |         |                |          |          |          |
|                                   | Water volume                      |          |      | l         | 88                        |       | 96     | 134     | 156            | 230   |       | 270     |                | 320      |          | 380      |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s       | 21.2                      | 24.5  | 26.2   | 31.5    | 36.8           | 41.4  | 45    | 48.4    | 54.6           | 60.8     | 66.8     | 72.9     |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa       | 46                        | 61    | 52     | 59      | 64             | 39    | 46    | 39      | 50             | 44       | 53       | 45       |
| Water heat exchanger - condenser  | Type                              |          |      |           | Shell and tube            |       |        |         |                |       |       |         |                |          |          |          |
|                                   | Water volume                      |          |      | l         | 81                        | 102   |        | 126     | 217            | 180   | 200   |         |                | 270      | 250      | 430      |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s       | 25.5                      | 29.6  | 31.8   | 38.1    | 44.8           | 50.3  | 54.8  | 59      | 66.8           | 74       | 81.4     | 88.7     |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa       | 19                        | 17    | 20     | 19      | 17             | 25    | 22    | 25      | 38             | 25       | 32       | 18       |
| Compressor                        | Type                              |          |      |           | Driven vapour compression |       |        |         |                |       |       |         |                |          |          |          |
|                                   | Quantity                          |          |      |           | 1                         |       |        |         |                |       | 2     |         |                |          |          |          |
| Sound power level                 | Cooling                           | Nom.     |      | dBA       | 101                       | 105   |        |         | 107            | 106   |       | 107     |                | 108      |          | 110      |
| Sound pressure level              | Cooling                           | Nom.     |      | dBA       | 82                        | 86    |        |         | 88             | 87    |       | 88      |                | 89       |          | 90       |
| Refrigerant                       | Type/GWP                          |          |      |           | R-1234(ze)/7              |       |        |         |                |       |       |         |                |          |          |          |
|                                   | Charge                            |          |      | kg        | 125                       | 124   | 105    | 145     | 190            | 210   | 230   | 250     | 220            | 280      |          | 320      |
|                                   | Circuits                          | Quantity |      |           | 1                         |       |        |         |                |       | 2     |         |                |          |          |          |
| Piping connections                |                                   |          |      | mm        | 139.7                     |       |        | 168.3   | 219.1          |       |       |         |                |          |          |          |
|                                   | Condenser water inlet/outlet (OD) |          |      |           | 168.3mm                   |       |        | 219.1mm | 168.3/168.3 mm |       |       |         | 219.1/219.1 mm |          |          |          |
| Unit                              | Running current                   | Cooling  | Nom. | A         | 131.0                     | 153.0 | 167.0  | 188.0   | 227.0          | 264.0 | 287.0 | 312.0   | 353.0          | 385.0    | 426.0    | 458.0    |
|                                   | Max                               |          |      | A         | 183                       | 226   | 235    | 268     | 324            | 374   | 402   | 451     | 493            | 549      | 591      | 647      |
| Power supply                      | Phase/Frequency/Voltage           |          |      | Hz/V      | 3~/50/400                 |       |        |         |                |       |       |         |                |          |          |          |

Performances according to CSS software 10.33



# Water cooled screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 75°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWH-VZXS

| Cooling only/Heating only         |                                   |          |      | EWWH-VZXS |                           |        | 335   | 365    | 450    | 525    | 580   | 670         | 800    | 875         | 950     | C11      | C12      | C13      | C14   | C15 |     |  |
|-----------------------------------|-----------------------------------|----------|------|-----------|---------------------------|--------|-------|--------|--------|--------|-------|-------------|--------|-------------|---------|----------|----------|----------|-------|-----|-----|--|
| Space cooling                     | A Condition Pdc<br>(35°C - 27/19) |          |      | kW        | 329.01                    | 364.52 | 448   | 520.61 | 579.19 | 665.41 | 788.2 | 877.36      | 952.01 | 1,028.81    | 1,169.3 | 1,288.48 | 1,421.75 | 1,540.03 |       |     |     |  |
|                                   | ηs,c                              |          |      | %         | 296                       | 307.2  | 343.6 | 347.2  | 343.2  | 356    | 354.4 | 326         | 334    |             | 346.8   |          |          | 358      | 356.8 |     |     |  |
| SEER                              |                                   |          |      |           | 7.6                       | 7.88   | 8.79  | 8.88   | 8.78   | 9.1    | 9.06  | 8.35        | 8.55   |             | 8.87    |          |          | 9.15     | 9.12  |     |     |  |
| Cooling capacity                  | Nom.                              |          |      | kW        | 329                       | 365    | 448   | 521    | 579    | 665    | 788   | 877         | 952    | 1,029       | 1,169   | 1,288    | 1,422    | 1,540    |       |     |     |  |
| Power input                       | Cooling                           | Nom.     |      | kW        | 60.5                      | 66.6   | 81    | 96     | 109    | 121    | 147   | 168         | 185    | 198         | 224     | 248      | 276      | 298      |       |     |     |  |
| Capacity control                  | Method                            |          |      |           | Variable                  |        |       |        |        |        |       |             |        |             |         |          |          |          |       |     |     |  |
|                                   | Minimum capacity                  |          |      | %         | 20                        |        |       |        |        |        |       | 10          |        |             |         |          |          |          |       |     |     |  |
| EER                               |                                   |          |      |           | 5.44                      | 5.48   | 5.53  | 5.42   | 5.29   | 5.49   | 5.37  | 5.23        | 5.16   | 5.19        | 5.22    | 5.19     | 5.16     |          |       |     |     |  |
| IPLV                              |                                   |          |      |           | 8.51                      | 8.79   | 9.46  | 9.51   | 9.47   | 9.63   | 9.65  | 9.19        | 9.27   | 9.46        | 9.37    | 9.52     | 9.23     | 9.5      |       |     |     |  |
| Dimensions                        | Unit                              | Height   | mm   |           | 2,135                     |        | 2,123 | 2,235  |        | 2,487  |       | 2,296       |        | 2,301       | 2,350   | 2,500    | 2,469    | 2,493    |       |     |     |  |
|                                   |                                   | Width    | mm   |           | 1,178                     |        | 1,179 | 1,189  |        | 1,303  |       | 1,484       | 1,639  | 1,579       | 1,580   | 1,610    | 1,704    | 1,769    |       |     |     |  |
|                                   |                                   | Length   | mm   |           | 3,722                     |        | 3,750 | 3,690  |        | 3,822  |       | 4,792       |        | 4,508       |         | 4,750    |          | 4,874    |       |     |     |  |
| Weight                            | Unit                              |          | kg   | 2,968     | 2,911                     | 3,102  | 3,470 | 3,451  | 4,257  | 4,552  | 5,860 | 6,240       | 6,520  | 6,920       | 7,530   | 7,790    | 8,670    |          |       |     |     |  |
|                                   | Operation weight                  |          | kg   | 3,098     | 3,006                     | 3,274  | 3,648 | 3,611  | 4,518  | 4,860  | 6,370 | 6,760       | 7,130  | 7,530       | 8,300   | 8,560    | 9,630    |          |       |     |     |  |
| Water heat exchanger - evaporator | Type                              |          |      |           | Flooded shell and tube    |        |       |        |        |        |       |             |        |             |         |          |          |          |       |     |     |  |
|                                   | Water volume                      |          |      | l         | 70                        | 88     | 136   | 134    |        | 168    | 199   | 270         |        | 320         |         | 380      | 480      |          |       |     |     |  |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s       | 15.8                      | 17.5   | 21.4  | 24.9   | 27.7   | 31.8   | 37.7  | 41.9        | 45.5   | 49.1        | 55.9    | 61.6     | 67.9     | 73.6     |       |     |     |  |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa       | 54                        | 38     | 35    | 37     | 31     | 39     | 36    | 29          | 34     | 28          | 37      | 32       | 28       | 33       |       |     |     |  |
| Water heat exchanger - condenser  | Water volume                      |          |      | l         | 81                        | 92     | 126   | 145    | 126    | 217    | 241   | 240         | 250    | 290         |         | 390      | 290      | 480      |       |     |     |  |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s       | 18.9                      | 20.9   | 25.7  | 30     | 33.5   | 38.4   | 45.7  | 50.7        | 55.1   | 59.6        | 67.6    | 74.6     | 82.3     | 89.3     |       |     |     |  |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa       | 19                        | 16     | 13    | 12     | 15     | 13     | 16    |             |        | 13          | 19      | 16       | 23       | 16       |       |     |     |  |
| Compressor                        | Type                              |          |      |           | Driven vapour compression |        |       |        |        |        |       |             |        |             |         |          |          |          |       |     |     |  |
|                                   | Quantity                          |          |      |           | 1                         |        |       |        |        |        |       | 2           |        |             |         |          |          |          |       |     |     |  |
| Sound power level                 | Cooling                           | Nom.     |      | dBA       | 97                        | 99     | 101   | 105    |        |        | 107   |             | 106    |             | 107     |          | 108      | 109      | 110   |     |     |  |
| Sound pressure level              | Cooling                           | Nom.     |      | dBA       | 78                        | 80     | 82    | 86     |        |        | 88    |             | 87     |             | 88      |          | 89       |          | 90    |     |     |  |
| Refrigerant                       | Type/GWP                          |          |      |           | R-1234(ze)/7              |        |       |        |        |        |       |             |        |             |         |          |          |          |       |     |     |  |
|                                   | Charge                            |          |      | kg        | 124                       | 110    | 125   | 140    | 130    | 200    | 185   | 250         | 220    | 270         | 255     | 305      | 320      | 346      |       |     |     |  |
|                                   | Circuits                          | Quantity |      |           | 1                         |        |       |        |        |        |       | 2           |        |             |         |          |          |          |       |     |     |  |
| Piping connections                |                                   |          |      | mm        | 139.7                     |        |       | 168.3  |        |        | 219.1 |             |        |             |         |          |          |          |       |     | 273 |  |
|                                   | Condenser water inlet/outlet (OD) |          |      |           | 168.3                     |        | 219.1 |        |        |        |       | 168.3/219.1 |        | 219.1/219.1 |         |          |          |          |       |     |     |  |
| Unit                              | Running current                   | Cooling  | Nom. | A         | 96.0                      | 106.0  | 129.0 | 151.0  | 173.0  | 187.0  | 226.0 | 259.0       | 284.0  | 304.0       | 341.0   | 379.0    | 421.0    | 454.0    |       |     |     |  |
|                                   |                                   | Max      |      | A         | 134                       | 149    | 183   | 226    | 247    | 268    | 324   | 374         | 402    | 451         | 493     | 549      | 591      | 647      |       |     |     |  |
| Power supply                      | Phase/Frequency/Voltage           |          |      | Hz/V      | 3~/50/400                 |        |       |        |        |        |       |             |        |             |         |          |          |          |       |     |     |  |

Performances according to CSS software 10.33



# Water cooled screw inverter chiller, premium efficiency, standard sound

- Premium energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 75°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWH-VZPS

| Cooling only/Heating only         |                                   |          |      | EWWH-VZPS | 370                       | 530   | 680    | 880            | C12      | C13      |
|-----------------------------------|-----------------------------------|----------|------|-----------|---------------------------|-------|--------|----------------|----------|----------|
| Space cooling                     | A Condition Pdc (35°C - 27/19)    |          |      | kW        | 369.3                     | 525.1 | 677.11 | 883.79         | 1,180.43 | 1,295.36 |
|                                   | ηs,c                              |          |      | %         | 316.8                     | 352.8 | 363.6  | 334.4          | 352.4    | 348.8    |
| SEER                              |                                   |          |      |           | 8.12                      | 9.02  | 9.29   | 8.56           | 9.01     | 8.92     |
| Cooling capacity                  | Nom.                              |          |      | kW        | 369                       | 525   | 677    | 884            | 1,180    | 1,295    |
| Power input                       | Cooling                           | Nom.     |      | kW        | 64.7                      | 94.9  | 119    | 166            | 221      | 247      |
| Capacity control                  | Method                            |          |      |           | Variable                  |       |        |                |          |          |
|                                   | Minimum capacity                  |          |      | %         | 20                        |       |        | 10             |          |          |
| EER                               |                                   |          |      |           | 5.71                      | 5.53  | 5.67   | 5.34           | 5.35     | 5.25     |
| IPLV                              |                                   |          |      |           | 9.13                      | 9.68  | 9.96   | 9.37           | 9.56     | 9.61     |
| Dimensions                        | Unit                              | Height   |      | mm        | 2,108                     | 2,430 | 2,487  | 2,302          | 2,500    | 2,493    |
|                                   |                                   | Width    |      | mm        | 1,179                     | 1,287 | 1,303  | 1,579          | 1,610    | 1,769    |
|                                   |                                   | Length   |      | mm        | 3,750                     | 3,822 |        | 4,508          | 4,750    | 4,874    |
|                                   |                                   |          |      |           |                           |       |        |                |          |          |
| Weight                            | Unit                              |          |      | kg        | 3,247                     | 4,082 | 4,346  | 6,310          | 7,530    | 8,250    |
|                                   | Operation weight                  |          |      | kg        | 3,375                     | 4,349 | 4,660  | 6,900          | 8,300    | 9,200    |
| Water heat exchanger - evaporator | Type                              |          |      |           | Flooded shell and tube    |       |        |                |          |          |
|                                   | Water volume                      |          |      | l         | 96                        | 168   | 199    | 320            | 380      | 480      |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s       | 17.7                      | 25.1  | 32.3   | 42.2           | 56.4     | 61.9     |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa       | 32                        | 25    | 27     | 20             | 26       | 23       |
| Water heat exchanger - condenser  | Type                              |          |      |           | Shell and tube            |       |        |                |          |          |
|                                   | Water volume                      |          |      | l         | 126                       | 217   | 241    | 270            | 390      | 470      |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s       | 21.1                      | 30.1  | 38.9   | 50.9           | 68       | 74.9     |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa       | 9                         |       | 12     | 13             | 12       | 16       |
| Compressor                        | Type                              |          |      |           | Driven vapour compression |       |        |                |          |          |
|                                   | Quantity                          |          |      |           | 1                         |       |        | 2              |          |          |
| Sound power level                 | Cooling                           | Nom.     |      | dBA       | 99                        | 105   |        | 106            | 107      | 109      |
| Sound pressure level              | Cooling                           | Nom.     |      | dBA       | 80                        | 86    |        | 87             | 88       | 89       |
| Refrigerant                       | Type/GWP                          |          |      |           | R-1234(ze)/7              |       |        |                |          |          |
|                                   | Charge                            |          |      | kg        | 120                       | 190   | 185    | 305            | 288      | 350      |
|                                   | Circuits                          | Quantity |      |           | 1                         |       |        | 2              |          |          |
| Piping connections                |                                   |          |      | mm        | 139.7                     | 219.1 |        |                | 273      |          |
|                                   | Condenser water inlet/outlet (OD) |          |      |           | 219.1mm                   |       |        | 219.1/219.1 mm |          |          |
| Unit                              | Running current                   | Cooling  | Nom. | A         | 104.0                     | 150.0 | 185.0  | 257.0          | 338.0    | 378.0    |
|                                   | Max                               |          |      | A         | 149                       | 226   | 268    | 374            | 493      | 549      |
| Power supply                      | Phase/Frequency/Voltage           |          |      | Hz/V      | 3~/50/400                 |       |        |                |          |          |

Performances according to CSS software 10.33





# Water to water screw inverter chiller, standard efficiency, standard sound

- Optimised energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 60°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWS-VZSS

| Cooling only/Heating only         |                                   |          |      | EWWS-VZSS                | 600    | 700    | 740    | 880    | C10      | C12      | C13      | C14      | C15      | C17      | C18      | C20      |  |
|-----------------------------------|-----------------------------------|----------|------|--------------------------|--------|--------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| Space cooling                     | A Condition Pdc<br>(35°C - 27/19) |          |      | kW                       | 599.51 | 693.51 | 743.53 | 879.64 | 1,020.09 | 1,148.76 | 1,263.41 | 1,351.54 | 1,514.87 | 1,689.58 | 1,831.98 | 2,013.41 |  |
|                                   | ηs,c                              |          |      | %                        | 316    | 314.4  | 313.2  | 320    | 313.2    | 321.2    | 314.8    | 312      | 297.6    | 313.6    | 304      | 318.4    |  |
| SEER                              |                                   |          |      |                          | 8.1    | 8.06   | 8.03   | 8.2    | 8.03     | 8.23     | 8.07     | 8        | 7.64     | 8.04     | 7.8      | 8.16     |  |
| Cooling capacity                  | Nom.                              |          |      | kW                       | 600    | 694    | 744    | 880    | 1,020    | 1,149    | 1,263    | 1,352    | 1,515    | 1,690    | 1,832    | 2,013    |  |
| Power input                       | Cooling                           | Nom.     |      | kW                       | 120.1  | 143.3  | 154.7  | 175.2  | 212.7    | 251.8    | 273.9    | 301      | 343      | 367.4    | 413.5    | 437.2    |  |
| Capacity control                  | Method                            |          |      | %                        | 20     |        |        |        |          | Variable |          |          |          |          |          |          |  |
|                                   | Minimum capacity                  |          |      |                          |        |        |        |        |          |          |          |          |          |          |          |          |  |
| EER                               |                                   |          |      |                          | 4.99   | 4.84   | 4.81   | 5.02   | 4.8      | 4.56     | 4.61     | 4.49     | 4.42     | 4.6      | 4.43     | 4.61     |  |
| IPLV                              |                                   |          |      |                          | 9.02   | 9.15   |        | 8.84   | 8.88     | 9.06     | 9.31     | 9.23     | 8.9      | 9.18     | 8.88     | 9.05     |  |
| Dimensions                        | Unit                              | Height   |      | mm                       | 2,123  |        |        | 2,292  | 2,487    | 2,296    |          |          | 2,350    |          | 2,338    | 2,498    |  |
|                                   |                                   | Width    |      | mm                       | 1,178  | 1,179  |        | 1,233  | 1,303    | 1,484    | 1,487    |          | 1,484    | 1,580    | 1,627    | 1,753    |  |
|                                   |                                   | Depth    |      | mm                       | 3,722  | 3,750  |        | 3,690  | 3,822    | 4,792    |          |          | 4,508    |          | 4,750    |          |  |
| Weight                            | Unit                              |          |      | kg                       | 2,892  | 2,928  | 2,941  | 3,451  | 4,237    | 5,570    | 5,790    | 5,820    | 6,220    | 6,890    | 7,260    | 8,260    |  |
|                                   | Operation weight                  |          |      | kg                       | 2,977  | 3,033  | 3,053  | 3,611  | 4,488    | 5,980    | 6,220    | 6,290    | 6,690    | 7,480    | 7,830    | 9,070    |  |
| Water heat exchanger - evaporator | Type                              |          |      | Flooded shell and tube   |        |        |        |        |          |          |          |          |          |          |          |          |  |
|                                   | Water volume                      |          |      | l                        | 88     |        | 96     | 134    | 156      | 230      |          | 270      |          | 320      |          | 380      |  |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s                      | 28.7   | 33.3   | 35.7   | 42.2   | 48.9     | 55       | 60.6     | 64.7     | 72.6     | 80.9     | 87.8     | 96.4     |  |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa                      | 80     | 108    | 89     | 100    | 103      | 69       | 85       | 70       | 89       | 79       | 92       | 81       |  |
| Water heat exchanger - condenser  | Type                              |          |      | Flooded Shell & Tube     |        |        |        |        |          |          |          |          |          |          |          |          |  |
|                                   | Water volume                      |          |      | l                        | 81     | 102    |        | 126    | 217      | 180      | 200      |          |          | 270      | 250      | 430      |  |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s                      | 34.5   | 40.1   | 43.2   | 50.6   | 59.3     | 67.1     | 73.7     | 79.2     | 89       | 98.7     | 107      | 117      |  |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa                      | 31     | 29     | 32     | 29     | 33       | 43       | 38       | 44       | 64       | 41       | 53       | 36       |  |
| Compressor                        | Type                              |          |      | Driven vapour compressor |        |        |        |        |          |          |          |          |          |          |          |          |  |
|                                   | Quantity                          |          |      | 1                        |        |        |        |        |          | 2        |          |          |          |          |          |          |  |
| Sound power level                 | Cooling                           | Nom.     |      | dBA                      | 101    | 105    |        |        | 107      | 106      |          | 107      |          | 108      |          | 110      |  |
| Sound pressure level              | Cooling                           | Nom.     |      | dBA                      | 82     | 86     |        |        | 88       | 87       |          | 88       |          | 89       |          | 90       |  |
| Refrigerant                       | Type/GWP                          |          |      | R-513A/631               |        |        |        |        |          |          |          |          |          |          |          |          |  |
|                                   | Charge                            |          |      | kg                       | 100    | 110    |        | 170    | 180      | 250      | 260      | 270      | 290      | 295      | 320      | 350      |  |
|                                   | Circuits                          | Quantity |      | 1                        |        |        |        |        |          | 2        |          |          |          |          |          |          |  |
| Piping connections                |                                   |          |      | mm                       | 139.7  |        |        | 168.3  | 219.1    |          |          |          |          |          |          |          |  |
|                                   |                                   |          |      | mm                       | 168.3  |        |        | 219.1  |          | 168.3    |          |          | 219.1    |          |          |          |  |

Performances according to CSS software 10.33

# Water to water screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 62°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWS-VZXS

| Cooling only/Heating only         |                                   |          |      | EWWS-VZXS |                          | 450   | 490    | 600    | 700    | 780    | 890      | C10         | C12      | C13      | C14      | C16     | C17      | C19      | C20 |  |
|-----------------------------------|-----------------------------------|----------|------|-----------|--------------------------|-------|--------|--------|--------|--------|----------|-------------|----------|----------|----------|---------|----------|----------|-----|--|
| Space cooling                     | A Condition Pdc<br>(35°C - 27/19) |          |      | kW        | 441.23                   | 493.3 | 605.32 | 704.66 | 783.15 | 888.89 | 1,038.67 | 1,178.53    | 1,287.26 | 1,390.42 | 1,570.18 | 1,725.3 | 1,876.17 | 2,045.66 |     |  |
|                                   | ηs,c                              |          |      | %         | 306.4                    | 313.6 | 328.4  | 329.2  | 328    | 328.4  | 328.8    | 331.2       | 326.4    | 329.2    | 331.2    | 326.4   | 323.2    | 326.8    |     |  |
| SEER                              |                                   |          |      |           | 7.86                     | 8.04  | 8.41   | 8.43   | 8.4    | 8.41   | 8.42     | 8.48        | 8.36     | 8.43     | 8.48     | 8.36    | 8.28     | 8.37     |     |  |
| Cooling capacity                  | Nom.                              |          |      | kW        | 441                      | 493   | 605    | 705    | 783    | 889    | 1,039    | 1,179       | 1,287    | 1,390    | 1,570    | 1,725   | 1,876    | 2,046    |     |  |
| Power input                       | Cooling                           | Nom.     |      | kW        | 87.8                     | 96.8  | 116.8  | 138.6  | 157.7  | 171.3  | 207.8    | 239.2       | 263.6    | 282.6    | 319.6    | 354.3   | 396.6    | 425.5    |     |  |
| Capacity control                  | Method                            |          |      |           | Variable                 |       |        |        |        |        |          |             |          |          |          |         |          |          |     |  |
|                                   | Minimum capacity                  |          |      | %         | 20                       |       |        |        |        |        |          | 10          |          |          |          |         |          |          |     |  |
| EER                               |                                   |          |      |           | 5.02                     | 5.1   | 5.18   | 5.09   | 4.97   | 5.19   | 5        | 4.93        | 4.88     | 4.92     | 4.91     | 4.87    | 4.73     | 4.81     |     |  |
| IPLV                              |                                   |          |      |           | 8.87                     | 9.01  | 9.29   | 9.43   | 9.39   | 8.96   | 9.27     | 9.24        | 9.48     | 9.43     | 9.39     | 9.29    | 9.15     |          |     |  |
| Dimensions                        | Unit                              | Height   | mm   |           | 2,135                    | 2,123 | 2,235  |        | 2,487  |        | 2,296    |             | 2,301    | 2,350    | 2,500    | 2,469   | 2,493    |          |     |  |
|                                   |                                   | Width    | mm   |           | 1,178                    | 1,179 | 1,189  |        | 1,303  |        | 1,484    |             | 1,639    | 1,579    | 1,580    | 1,610   | 1,704    | 1,769    |     |  |
|                                   |                                   | Depth    | mm   |           | 3,722                    | 3,750 | 3,690  |        | 3,822  |        | 4,792    |             | 4,508    |          | 4,750    | 4,874   |          |          |     |  |
| Weight                            | Unit                              |          |      | kg        | 2,968                    | 2,911 | 3,102  | 3,470  | 3,451  | 4,257  | 4,552    | 5,860       | 6,240    | 6,520    | 6,920    | 7,530   | 7,790    | 8,670    |     |  |
|                                   | Operation weight                  |          |      | kg        | 3,098                    | 3,006 | 3,274  | 3,648  | 3,611  | 4,518  | 4,860    | 6,370       | 6,760    | 7,130    | 7,530    | 8,300   | 8,560    | 9,630    |     |  |
| Water heat exchanger - evaporator | Type                              |          |      |           | Flooded shell and tube   |       |        |        |        |        |          |             |          |          |          |         |          |          |     |  |
|                                   | Water volume                      |          |      | l         | 70                       | 88    | 136    | 134    |        | 168    | 199      | 270         |          | 320      |          | 380     | 480      |          |     |  |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s       | 21.2                     | 23.6  | 29     | 33.7   | 37.5   | 42.6   | 49.7     | 56.4        | 61.6     | 66.5     | 75.2     | 82.6    | 89.7     | 97.9     |     |  |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa       | 91                       | 64    | 61     | 65     | 57     | 69     | 60       | 53          | 64       | 53       | 68       | 59      | 50       | 60       |     |  |
| Water heat exchanger - condenser  | Type                              |          |      |           | Flooded Shell & Tube     |       |        |        |        |        |          |             |          |          |          |         |          |          |     |  |
|                                   | Water volume                      |          |      | l         | 81                       | 92    | 126    | 145    | 126    | 217    | 241      | 240         | 250      | 290      |          | 390     | 290      | 480      |     |  |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s       | 25.8                     | 28.7  | 34.5   | 40.4   | 45.1   | 50.8   | 59.8     | 68          | 74.4     | 80.2     | 90.7     | 99.8    | 108      | 118      |     |  |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa       | 31                       | 27    | 22     | 20     | 24     | 25     |          | 28          |          | 21       | 32       | 27      | 36       | 27       |     |  |
| Compressor                        | Type                              |          |      |           | Driven vapour compressor |       |        |        |        |        |          |             |          |          |          |         |          |          |     |  |
|                                   | Quantity                          |          |      |           | 1                        |       |        |        |        |        |          | 2           |          |          |          |         |          |          |     |  |
| Sound power level                 | Cooling                           | Nom.     |      | dBA       | 97                       | 99    | 101    | 105    |        |        | 107      |             | 106      |          | 107      |         | 108      | 109      | 110 |  |
| Sound pressure level              | Cooling                           | Nom.     |      | dBA       | 78                       | 80    | 82     | 86     |        |        | 88       |             | 87       |          | 88       |         | 89       |          | 90  |  |
| Refrigerant                       | Type/GWP                          |          |      |           | R-513A/631               |       |        |        |        |        |          |             |          |          |          |         |          |          |     |  |
|                                   | Charge                            |          |      | kg        | 95                       |       | 130    | 110    | 170    | 210    | 185      | 250         | 260      | 290      |          | 320     |          | 350      |     |  |
|                                   | Circuits                          | Quantity |      |           | 1                        |       |        |        |        |        |          | 2           |          |          |          |         |          |          |     |  |
| Piping connections                |                                   |          |      | mm        | 139.7                    |       |        | 168.3  |        |        | 219.1    |             |          |          |          |         |          | 273      |     |  |
|                                   |                                   |          |      | mm        | 168.3                    |       |        | 219.1  |        |        |          | 168.3/219.1 |          | 219.1    |          |         |          |          |     |  |

Performances according to CSS software 10.33

# Water to water screw inverter chiller, premium efficiency, standard sound

- Premium energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 62°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability



EWWS-VZPS

| Cooling only/Heating only         |                     |          |      | EWWS-VZPS | 500                      | 710    | 900    | C12      | C16      | C17      |
|-----------------------------------|---------------------|----------|------|-----------|--------------------------|--------|--------|----------|----------|----------|
| Space cooling                     | A Condition         | Pdc      |      | kW        | 500.08                   | 710.08 | 898.24 | 1,187.65 | 1,585.78 | 1,735.47 |
|                                   | (35°C - 27/19)      |          |      | %         | 321.6                    | 334    | 335.2  | 336.4    |          | 330      |
| SEER                              |                     |          |      |           | 8.24                     | 8.55   | 8.58   | 8.61     |          | 8.45     |
| Cooling capacity                  | Nom.                |          |      | kW        | 500                      | 710    | 898    | 1,188    | 1,586    | 1,735    |
| Power input                       | Cooling             | Nom.     |      | kW        | 91.3                     | 133.8  | 165.1  | 235.4    | 313.7    | 350.7    |
| Capacity control                  | Method              |          |      |           | Variable                 |        |        |          |          |          |
|                                   | Minimum capacity    |          |      | %         | 20                       |        |        | 10       |          |          |
| EER                               |                     |          |      |           | 5.48                     | 5.31   | 5.44   | 5.05     |          | 4.95     |
| IPLV                              |                     |          |      |           | 9.13                     | 9.48   | 9.17   | 9.36     | 9.48     | 9.4      |
| Dimensions                        | Unit                | Height   |      | mm        | 2,108                    | 2,430  | 2,487  | 2,302    | 2,500    | 2,493    |
|                                   |                     | Width    |      | mm        | 1,179                    | 1,287  | 1,303  | 1,579    | 1,610    | 1,769    |
|                                   |                     | Depth    |      | mm        | 3,750                    | 3,822  |        | 4,508    | 4,750    | 4,874    |
| Weight                            | Unit                |          |      | kg        | 3,247                    | 4,082  | 4,346  | 6,310    | 7,530    | 8,250    |
|                                   | Operation weight    |          |      | kg        | 3,375                    | 4,349  | 4,660  | 6,900    | 8,300    | 9,200    |
| Water heat exchanger - evaporator | Type                |          |      |           | Flooded shell and tube   |        |        |          |          |          |
|                                   | Water volume        |          |      | l         | 96                       | 168    | 199    | 320      | 380      | 480      |
|                                   | Water flow rate     | Cooling  | Nom. | l/s       | 23.9                     | 34     | 43     | 56.8     | 75.8     | 83       |
|                                   | Water pressure drop | Cooling  | Nom. | kPa       | 57                       | 44     | 46     | 39       | 50       | 42       |
| Water heat exchanger - condenser  | Type                |          |      |           | Flooded Shell & Tube     |        |        |          |          |          |
|                                   | Water volume        |          |      | l         | 126                      | 217    | 241    | 270      | 390      | 470      |
|                                   | Water flow rate     | Cooling  | Nom. | l/s       | 28.9                     | 40.6   | 51.1   | 68.3     | 91.1     | 100      |
|                                   | Water pressure drop | Cooling  | Nom. | kPa       | 16                       | 17     | 19     | 21       |          | 27       |
| Compressor                        | Type                |          |      |           | Driven vapour compressor |        |        |          |          |          |
|                                   | Quantity            |          |      |           | 1                        |        |        | 2        |          |          |
| Sound power level                 | Cooling             | Nom.     |      | dBA       | 99                       | 105    |        | 106      | 107      | 109      |
| Sound pressure level              | Cooling             | Nom.     |      | dBA       | 80                       | 86     |        | 87       | 88       | 89       |
| Refrigerant                       | Type/GWP            |          |      |           | R-513A/631               |        |        |          |          |          |
|                                   | Charge              |          |      | kg        | 130                      | 180    |        | 190      | 320      | 350      |
|                                   | Circuits            | Quantity |      |           |                          | 1      |        |          | 2        |          |
| Piping connections                |                     |          |      | mm        | 139.7                    | 219.1  |        |          |          | 273      |
|                                   |                     |          |      | mm        |                          | 219.1  |        |          |          |          |

Performances according to CSS software 10.33





# Water cooled scroll heat pump

- One of the most compact units on the market:  
600mm x 600mm x 600mm
- Low energy consumption
- Low operating sound level
- Easy installation and maintenance
- Stainless steel plate heat exchanger
- Low refrigerant volume
- Standard integrated: pressure ports, flow switch, filter, shut-off valves and air purge
- Advanced  $\mu C^2SE$  controller for direct connection to a Modbus based BMS or to a remote user interface

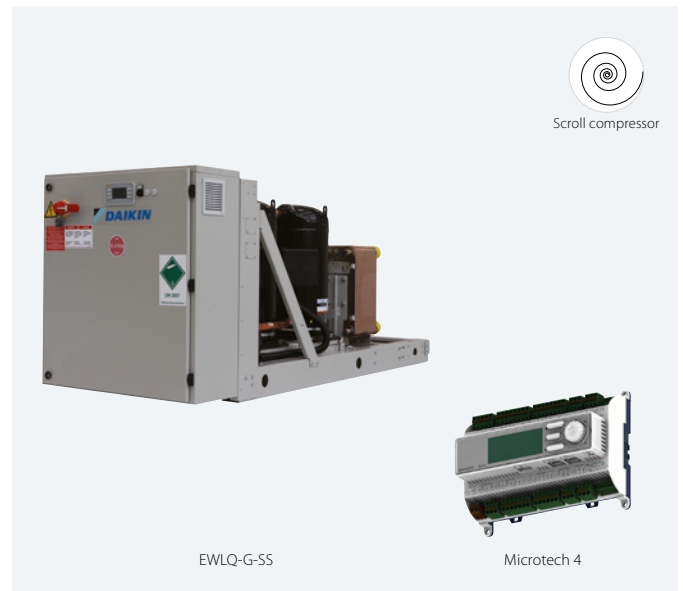


EWLQ-KC

| Cooling Only                      |                                    |           |      | EWLQ-KC | 014               | 025   | 033   | 049     | 064   |
|-----------------------------------|------------------------------------|-----------|------|---------|-------------------|-------|-------|---------|-------|
| Cooling capacity                  | Nom.                               |           |      | kW      | 12.09             | 19.87 | 28.90 | 39.35   | 57.84 |
| Power input                       | Cooling                            | Nom.      |      | kW      | 3.74              | 6.11  | 8.43  | 12.03   | 16.41 |
| Capacity control                  | Method                             |           |      | %       | Fixed             |       |       |         |       |
|                                   | Minimum capacity                   |           |      |         | 100               |       | 50    |         |       |
| EER                               |                                    |           |      |         | 3.237             | 3.254 | 3.429 | 3.27    | 3.524 |
| Dimensions                        | Unit                               | Height    |      | mm      | 600               |       |       |         |       |
|                                   |                                    | Width     |      | mm      | 600               |       |       |         |       |
|                                   |                                    | Depth     |      | mm      | 600               |       | 1,200 |         |       |
| Weight                            | Unit                               |           |      | kg      | 62                | 124   | 130   | 238     | 249   |
|                                   | Operation weight                   |           |      | kg      | 70                | 129   | 135   | 247     | 258   |
| Water heat exchanger - evaporator | Type                               |           |      |         | Brazen plate      |       |       |         |       |
|                                   | Water volume                       |           |      | l       | 1.47              | 1.96  | 2.74  | 4.47    | 5.88  |
|                                   | Water flow rate                    | Cooling   | Nom. | l/s     | 0.576             | 0.947 | 1.378 | 1.876   | 2.757 |
|                                   | Water pressure drop                | Cooling   | Nom. | kPa     | 9.71              | 16.4  | 21.6  | 20.5    | 34.8  |
| Compressor                        | Type                               |           |      |         | Scroll compressor |       |       |         |       |
|                                   | Quantity                           |           |      |         | 1                 |       |       | 2       |       |
| Sound power level                 | Cooling                            | Nom.      |      | dBA     | 69.0              |       | 76.0  | 72.0    | 79.0  |
| Sound pressure level              | Cooling                            | Nom.      |      | dBA     | 55.2              |       | 62.1  | 57.6    | 64.6  |
| Operation range                   | Evaporator Cooling                 | Min.~Max. |      | °CDB    | -10 ~20           |       |       |         |       |
|                                   | Condenser Heating                  | Min.~Max. |      | °CDB    | 20 ~55            |       |       |         |       |
| Refrigerant                       | Type/GWP                           |           |      |         | R-410A/2,088.0    |       |       |         |       |
|                                   | Charge                             |           |      | kg      | 0.0               |       |       |         |       |
|                                   | Circuits                           | Quantity  |      |         | 1                 |       |       | 2       |       |
| Piping connections                | Evaporator water inlet/outlet (OD) |           |      |         | G1"               |       |       | G1" 1/2 |       |
| Unit                              | Starting current                   | Max       |      | A       | 57.4              | 109.3 | 124.3 | 124.8   | 143.6 |
|                                   | Running current                    | Cooling   | Nom. | A       | 6.57              | 10.5  | 14.1  | 20.9    | 28.1  |
|                                   |                                    | Max       |      | A       | 9.16              | 15.5  | 19.3  | 31.0    | 38.7  |
| Power supply                      | Phase/Frequency/Voltage            |           |      | Hz/V    | 3N~/50/400        |       |       |         |       |

# Condenserless multi-scroll chiller, standard efficiency, standard sound

- Single refrigerant circuit (2 scroll compressors) with single evaporator
- For chilled water production, to be combined with a remote condensing unit
- Compact design to allow easy indoor installation or retrofit operations
- Conceived for stacked installation of two single circuit units to reduce the footprint
- High efficiency and reliable scroll compressor
- Stainless steel plate heat exchanger



EWLQ-G-SS

| Cooling only                      |                                    |          |           | EWLQ-G-SS | 090                  | 100  | 120    | 130  | 150  | 170  | 190  | 210  | 240   | 300   | 360   |
|-----------------------------------|------------------------------------|----------|-----------|-----------|----------------------|------|--------|------|------|------|------|------|-------|-------|-------|
| Cooling capacity                  | Nom.                               |          |           | kW        | 86.5                 | 98.4 | 110    | 125  | 139  | 160  | 181  | 206  | 231   | 290   | 346   |
| Power input                       | Cooling                            | Nom.     |           | kW        | 22.4                 | 25.8 | 29.2   | 33.0 | 36.8 | 42.0 | 47.0 | 54.2 | 59.9  | 75.6  | 91.8  |
| Capacity control                  | Method                             |          |           |           | Step                 |      |        |      |      |      |      |      |       |       |       |
|                                   | Minimum capacity                   |          |           | %         | 50.0                 | 43.0 | 50.0   | 44.0 | 50.0 | 45.0 | 50.0 | 43.0 | 50.0  | 40.0  | 50.0  |
| EER                               |                                    |          |           |           | 3.86                 | 3.81 | 3.78   | 3.79 |      | 3.80 | 3.86 | 3.80 | 3.85  | 3.84  | 3.77  |
| Dimensions                        | Unit                               | Height   |           | mm        | 1,066                |      |        |      |      |      |      |      |       |       |       |
|                                   |                                    | Width    |           | mm        | 928                  |      |        |      |      |      |      |      |       |       |       |
|                                   |                                    | Length   |           | mm        | 2,743                |      |        |      |      |      |      |      |       |       |       |
| Weight                            | Unit                               |          |           | kg        | 494                  | 578  | 686    | 714  | 742  | 773  | 807  | 838  | 852   | 967   | 1,046 |
|                                   | Operation weight                   |          |           | kg        | 525                  | 615  | 729    | 760  | 791  | 826  | 863  | 901  | 916   | 1,044 | 1,134 |
| Water heat exchanger - evaporator | Type                               |          |           |           | Plate heat exchanger |      |        |      |      |      |      |      |       |       |       |
|                                   | Water volume                       |          |           | l         | 6                    | 8    | 10     | 12   | 13   | 15   | 17   | 27   | 34    |       |       |
|                                   | Water flow rate                    | Nom.     |           | l/s       | 4.2                  | 4.7  | 5.3    | 6.0  | 6.7  | 7.7  | 8.7  | 9.8  | 11.1  | 13.9  | 16.6  |
|                                   | Water pressure drop                | Cooling  | Nom.      | kPa       | 44                   | 35   | 29     | 31   | 33   | 30   | 38   | 41   |       |       |       |
| Compressor                        | Type                               |          |           |           | Scroll compressor    |      |        |      |      |      |      |      |       |       |       |
|                                   | Quantity                           |          |           |           | 2                    |      |        |      |      |      |      |      |       |       |       |
| Sound power level                 | Cooling                            | Nom.     |           | dBA       | 80.0                 | 83.0 | 85.0   | 87.0 | 88.0 | 90.0 | 92.0 | 93.0 |       |       |       |
| Sound pressure level              | Cooling                            | Nom.     |           | dBA       | 64.0                 | 67.0 | 69.0   | 70.0 | 72.0 | 74.0 | 76.0 | 77.0 |       |       |       |
| Operation range                   | Evaporator                         | Cooling  | Min.~Max. | °CDB      | -10~15               |      |        |      |      |      |      |      |       |       |       |
|                                   | Condenser                          | Cooling  | Min.~Max. | °CDB      | 30~60                |      |        |      |      |      |      |      |       |       |       |
| Refrigerant                       | Type / GWP                         |          |           |           | R-410A/2,087.5       |      |        |      |      |      |      |      |       |       |       |
|                                   | Circuits                           | Quantity |           |           | 1                    |      |        |      |      |      |      |      |       |       |       |
| Piping connections                | Evaporator water inlet/outlet (OD) |          |           |           | 1" 1/2               |      | 2" 1/2 |      |      |      |      |      |       | 3"    |       |
| Unit                              | Starting current                   | Max      |           | A         | 204                  | 255  | 261    | 308  | 316  | 354  | 368  | 466  | 481.0 | 640   | 677   |
|                                   | Running current                    | Cooling  | Nom.      | A         | 39                   | 42   | 45     | 51   | 57   | 64   | 70   | 81   | 88    | 111   | 135   |
|                                   |                                    | Max      |           | A         | 59                   | 66   | 72     | 80   | 88   | 102  | 116  | 131  | 145   | 183   | 221   |
| Power supply                      | Phase/Frequency/Voltage            |          |           | Hz/V      | 3~/50/400            |      |        |      |      |      |      |      |       |       |       |



# Condenserless multi-scroll chiller, standard efficiency, standard sound

- Dual refrigerant circuit (4 scroll compressors) with single evaporator
- For chilled water production, to be combined with a remote condensing unit
- Compact design to allow easy indoor installation or retrofit operations
- High efficiency and reliable scroll compressor
- Stainless steel plate heat exchanger

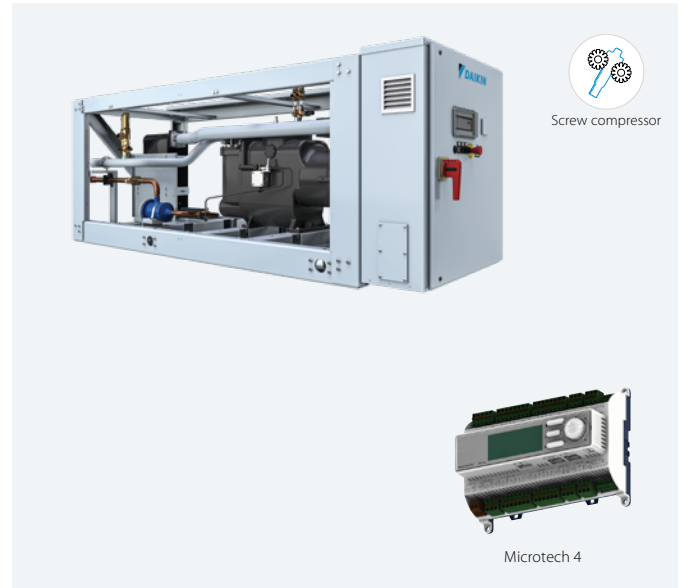


EWLQ-L-SS

| Cooling only                      |                                    |          |           | EWLQ-L-SS            |           |       |       | 180   | 205   | 230   | 260   | 290   | 330   | 380   | 430   | 480   | 540 | 600 | 660 | 720 |  |
|-----------------------------------|------------------------------------|----------|-----------|----------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|--|
| Cooling capacity                  | Nom.                               |          | kW        | 173                  | 197       | 224   | 249   | 279   | 317   | 361   | 409   | 459   | 511   | 571   | 624   | 676   |     |     |     |     |  |
| Power input                       | Cooling                            | Nom.     | kW        | 44.3                 | 51.1      | 57.9  | 65.6  | 73.2  | 83.8  | 93.5  | 108   | 119   | 135   | 152   | 168   | 184   |     |     |     |     |  |
| Capacity control                  | Method                             |          |           | Step                 |           |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
|                                   | Minimum capacity                   |          | %         | 25.0                 | 21.0      | 25.0  | 22.0  | 25.0  | 23.0  | 25.0  | 21.0  | 25.0  | 22.0  | 20.0  | 18.0  | 25.0  |     |     |     |     |  |
| EER                               |                                    |          |           | 3.91                 | 3.86      | 3.87  | 3.79  | 3.81  | 3.78  | 3.86  | 3.79  | 3.84  | 3.78  | 3.76  | 3.71  | 3.67  |     |     |     |     |  |
| Dimensions                        | Unit                               | Height   | mm        | 1,970                |           |       |       |       |       |       |       |       |       | 2,090 |       | 2,210 |     |     |     |     |  |
|                                   |                                    | Width    | mm        | 928                  |           |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
|                                   |                                    | Length   | mm        | 2,801                |           |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
| Weight                            | Unit                               |          | kg        | 832                  | 1,007     | 1,202 | 1,252 | 1,333 | 1,380 | 1,432 | 1,511 | 1,560 | 1,609 | 1,694 | 1,833 | 1,957 |     |     |     |     |  |
|                                   | Operation weight                   |          | kg        | 894                  | 1,081     | 1,292 | 1,345 | 1,436 | 1,486 | 1,547 | 1,638 | 1,690 | 1,741 | 1,844 | 1,990 | 2,120 |     |     |     |     |  |
| Water heat exchanger - evaporator | Type                               |          |           | Plate heat exchanger |           |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
|                                   | Water volume                       |          | l         | 19                   | 22        | 29    |       | 35    |       | 41    | 49    |       |       |       | 62    |       |     |     |     |     |  |
|                                   | Water flow rate                    | Nom.     | l/s       | 8.3                  | 9.5       | 10.7  | 11.9  | 13.4  | 15.2  | 17.3  | 19.6  | 21.9  | 24.5  | 27.3  | 29.9  | 32.4  |     |     |     |     |  |
|                                   | Water pressure drop                | Cooling  | Nom.      | kPa                  | 25        |       | 20    | 25    | 22    | 29    |       |       | 36    | 45    | 44    | 52    | 62  |     |     |     |  |
| Compressor                        | Type                               |          |           | Scroll compressor    |           |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
|                                   | Quantity                           |          |           | 4                    |           |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
| Sound power level                 | Cooling                            | Nom.     | dBA       | 83.0                 | 86.0      | 88.0  | 90.0  | 91.0  |       |       | 93.0  |       | 95.0  |       |       | 96.0  |     |     |     |     |  |
| Sound pressure level              | Cooling                            | Nom.     | dBA       | 65.0                 | 68.0      | 70.0  | 72.0  | 74.0  |       | 73.0  | 76.0  | 77.0  |       | 78.0  |       |       |     |     |     |     |  |
| Operation range                   | Evaporator                         | Cooling  | Min.~Max. | °CDB                 | -10~15    |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
|                                   | Condenser                          | Cooling  | Min.~Max. | °CDB                 | 30~60     |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
| Refrigerant                       | Type / GWP                         |          |           | R-410A/2,087.5       |           |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
|                                   | Circuits                           | Quantity |           | 2                    |           |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
| Piping connections                | Evaporator water inlet/outlet (OD) |          |           | 3"                   |           |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |
| Unit                              | Starting current                   | Max      | A         | 263                  | 320       | 333   | 388   | 403   | 456   | 484   | 597   | 626   | 785   | 822   | 860   | 898   |     |     |     |     |  |
|                                   | Running current                    | Cooling  | Nom.      | A                    | 78        | 84    | 90    | 102   | 114   | 128   | 141   | 161   | 176   | 199   | 223   | 246   | 269 |     |     |     |  |
|                                   |                                    | Max      | A         | 118                  | 131       | 144   | 160   | 175   | 205   | 232   | 262   | 290   | 328   | 366   | 403   | 441   |     |     |     |     |  |
| Power supply                      | Phase/Frequency/Voltage            |          |           | Hz/V                 | 3~/50/400 |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |  |

# Condenserless screw chiller, standard efficiency, standard sound

- Compact design to allow easy indoor installation or retrofit operations
- Daikin semi-hermetic single screw stepless compressor
- **High energy efficiency both at full and part load conditions**
- Chilled water temperatures **down to -10°C** on standard unit
- Optimised for use with **R-134a**
- MicroTech 4 controller with superior control logic and easy interface



Screw compressor

Microtech 4



EWLD-J-SS

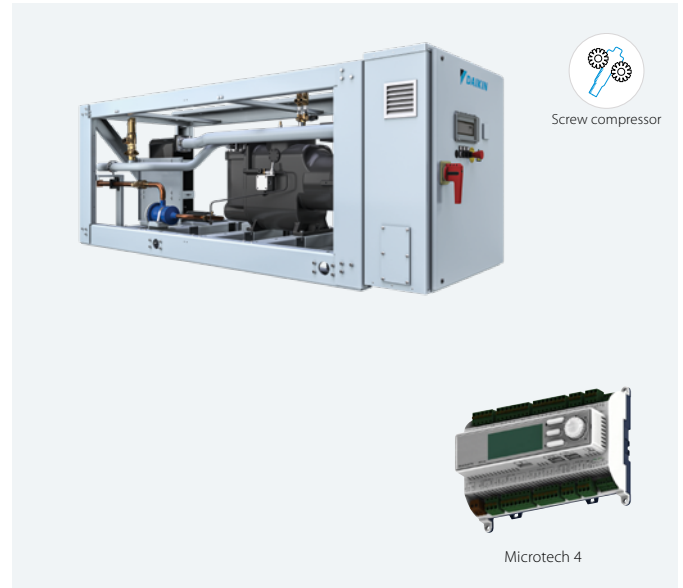
| Cooling only                      |                                    |          |           | EWLD-J-SS | 110                     | 130   | 145   | 165   | 195   | 235   | 265   |
|-----------------------------------|------------------------------------|----------|-----------|-----------|-------------------------|-------|-------|-------|-------|-------|-------|
| Cooling capacity                  | Nom.                               |          |           | kW        | 110                     | 128   | 142   | 163   | 191   | 236   | 264   |
| Power input                       | Cooling                            | Nom.     |           | kW        | 31.2                    | 38.4  | 43.8  | 50.4  | 56.0  | 66.0  | 75.3  |
| Capacity control                  | Method                             |          |           |           | Stepless                |       |       |       |       |       |       |
|                                   | Minimum capacity                   |          |           | %         | 25.0                    |       |       |       |       |       |       |
| EER                               |                                    |          |           |           | 3.51                    | 3.33  | 3.25  | 3.24  | 3.42  | 3.58  | 3.51  |
| Dimensions                        | Unit                               | Height   |           | mm        | 1,020                   |       |       |       |       |       |       |
|                                   |                                    | Width    |           | mm        | 913                     |       |       |       |       |       |       |
|                                   |                                    | Length   |           | mm        | 2,684                   |       |       |       |       |       |       |
| Weight                            | Unit                               |          |           | kg        | 1,124                   | 1,141 | 1,237 | 1,263 | 1,305 | 1,489 | 1,489 |
|                                   | Operation weight                   |          |           | kg        | 1,138                   | 1,159 | 1,253 | 1,281 | 1,327 | 1,518 | 1,518 |
| Water heat exchanger - evaporator | Type                               |          |           |           | Plate heat exchanger    |       |       |       |       |       |       |
|                                   | Water volume                       |          |           | l         | 14                      | 18    | 14    | 17    | 20    | 26    | 26    |
|                                   | Water flow rate                    | Nom.     |           | l/s       | 5.2                     | 6.1   | 6.8   | 7.8   | 9.2   | 11.3  | 12.6  |
|                                   | Water pressure drop                | Cooling  | Nom.      | kPa       | 14                      | 13    | 39    | 37    | 33    | 26    | 32    |
| Compressor                        | Type                               |          |           |           | Single screw compressor |       |       |       |       |       |       |
|                                   | Quantity                           |          |           |           | 1                       |       |       |       |       |       |       |
| Sound power level                 | Cooling                            | Nom.     |           | dBA       | 89.0                    |       |       |       |       |       |       |
| Sound pressure level              | Cooling                            | Nom.     |           | dBA       | 79.0                    |       |       |       |       |       |       |
| Operation range                   | Evaporator                         | Cooling  | Min.~Max. | °CDB      | -10~-15                 |       |       |       |       |       |       |
|                                   | Condenser                          | Cooling  | Min.~Max. | °CDB      | 25~60                   |       |       |       |       |       |       |
| Refrigerant                       | Type / GWP                         |          |           |           | R-134a/1,430            |       |       |       |       |       |       |
|                                   | Circuits                           | Quantity |           |           | 1                       |       |       |       |       |       |       |
| Piping connections                | Evaporator water inlet/outlet (OD) |          |           |           | 76.2 mm                 |       |       |       |       |       |       |
| Unit                              | Maximum Starting current           |          |           | A         | 153                     |       | 197   |       | 197   | 290   | 290   |
|                                   | Nominal running current (RLA)      | Cooling  |           | A         | 52                      | 62    | 72    | 81    | 91    | 107   | 120   |
|                                   | Maximum running current            |          |           | A         | 85                      | 103   | 114   | 130   | 154   | 168   | 201   |
| Power supply                      | Phase/Frequency/Voltage            |          |           | Hz/V      | 3~/50/400               |       |       |       |       |       |       |

Performances according to CSS software 10.34



# Condenserless screw chiller, standard efficiency, standard sound

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Daikin semi-hermetic single screw compressor
- Direct expansion plate to plate evaporator
- Shell and tube condenser
- Silver efficiency and standard sound
- Upgrade to new MicroTech 4 controller



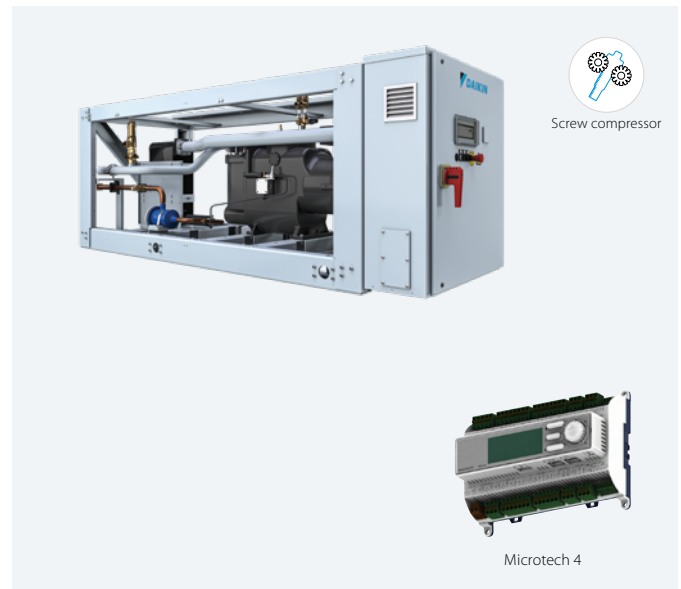
EWLH-J-SS

| EWLH-J-SS                         |                         |          |       | 080                     | 100   | 110   | 130   | 140   | 170   | 190  |
|-----------------------------------|-------------------------|----------|-------|-------------------------|-------|-------|-------|-------|-------|------|
| Cooling capacity                  | Nom.                    |          | kW    | 84                      | 102   | 109   | 127   | 143   | 174   | 193  |
| Power input                       | Cooling                 | Nom.     | kW    | 23.3                    | 28.1  | 31.8  | 37    | 41.5  | 49.6  | 56.3 |
| Capacity control                  | Method                  |          |       | Stepless                |       |       |       |       |       |      |
|                                   | Minimum capacity        |          | %     | 25                      |       |       |       |       |       |      |
| EER                               |                         |          |       | 3.62                    | 3.43  | 3.42  | 3.43  | 3.51  | 3.43  |      |
| Dimensions                        | Unit                    | Height   | mm    | 1,020                   |       |       |       |       |       |      |
|                                   |                         | Width    | mm    | 913                     |       |       |       |       |       |      |
|                                   |                         | Length   | mm    | 2,684                   |       |       |       |       |       |      |
| Weight                            | Unit                    |          | kg    | 1,124                   | 1,141 | 1,237 | 1,263 | 1,305 | 1,489 |      |
|                                   | Operation weight        |          | kg    | 1,138                   | 1,159 | 1,253 | 1,281 | 1,327 | 1,518 |      |
| Water heat exchanger - evaporator | Type                    |          |       | Plate heat exchanger    |       |       |       |       |       |      |
|                                   | Water volume            |          | l     | 14                      | 18    | 14    | 17    | 20    | 26    |      |
|                                   | Water flow rate         | Cooling  | Nom.  | l/s                     | 4     | 4.9   | 5.2   | 6     | 8.3   | 9.2  |
|                                   | Water pressure drop     | Cooling  | Nom.  | kPa                     | 9.7   | 9.9   | 17.5  | 17.6  | 15.5  | 18.7 |
| Compressor                        | Type                    |          |       | Single screw compressor |       |       |       |       |       |      |
|                                   | Quantity                |          |       | 1                       |       |       |       |       |       |      |
| Sound power level                 | Cooling                 | Nom.     | dB(A) | 88.9                    |       |       |       |       |       |      |
| Sound pressure level              | Cooling                 | Nom.     | dB(A) | 79                      |       |       |       |       |       |      |
| Refrigerant                       | Type                    |          |       | R-1234(ze)              |       |       |       |       |       |      |
|                                   | Circuits                | Quantity |       | 1                       |       |       |       |       |       |      |
| Piping connections                |                         |          | mm    | 76.2                    |       |       |       |       |       |      |
| Unit                              | Starting current        | Max      | A     | 153                     |       |       | 197   |       | 290   |      |
|                                   | Running current         | Cooling  | Nom.  | A                       | 42    | 48    | 59    | 65    | 72    | 84   |
|                                   | Running current         | Max      | A     | A                       | 75    | 90    | 100   | 114   | 143   | 158  |
| Power supply                      | Phase/Frequency/Voltage |          | Hz/V  | 3~/50/400               |       |       |       |       |       |      |

Performances according to CSS software 10.34

# Condenserless screw chiller, standard efficiency, standard sound

- Refrigerant R-513A
- Daikin semi-hermetic single screw compressor
- Direct expansion plate to plate evaporator
- Shell and tube condenser
- Silver efficiency and standard sound
- Upgrade to new MicroTech 4 controller



EWLS-J-SS

| EWLS-J-SS                         |                         |          |      | 110  | 130                     | 150   | 170   | 200   | 240   | 270   |      |     |
|-----------------------------------|-------------------------|----------|------|------|-------------------------|-------|-------|-------|-------|-------|------|-----|
| Cooling capacity                  | Nom.                    |          |      | kW   | 111                     | 132   | 150   | 175   | 200   | 268   |      |     |
| Power input                       | Cooling                 | Nom.     |      |      | kW                      | 32.2  | 38.7  | 44.8  | 51.2  | 78.8  |      |     |
| Capacity control                  | Method                  |          |      |      | Stepless                |       |       |       |       |       |      |     |
|                                   | Minimum capacity        |          |      | %    | 25                      |       |       |       |       |       |      |     |
| EER                               |                         |          |      |      | 3.44                    | 3.4   | 3.35  | 3.41  | 3.44  | 3.4   |      |     |
| Dimensions                        | Unit                    | Height   | mm   |      |                         | 1,020 |       |       |       |       |      |     |
|                                   |                         | Width    | mm   |      |                         | 913   |       |       |       |       |      |     |
|                                   |                         | Length   | mm   |      |                         | 2,684 |       |       |       |       |      |     |
| Weight                            | Unit                    |          |      | kg   | 1,124                   | 1,141 | 1,237 | 1,263 | 1,305 | 1,489 |      |     |
|                                   | Operation weight        |          |      | kg   | 1,138                   | 1,159 | 1,253 | 1,281 | 1,327 | 1,518 |      |     |
| Water heat exchanger - evaporator | Type                    |          |      |      | Plate heat exchanger    |       |       |       |       |       |      |     |
|                                   | Water volume            |          |      | l    | 14                      | 18    | 14    | 17    | 20    | 26    |      |     |
|                                   | Water flow rate         | Cooling  | Nom. | l/s  | 5.3                     | 6.3   | 7.2   | 8.4   | 9.6   | 11.3  | 12.8 |     |
|                                   | Water pressure drop     | Cooling  | Nom. | kPa  | 16                      | 15.8  | 31.1  | 31.5  | 30    | 27    | 33.8 |     |
| Compressor                        | Type                    |          |      |      | Single screw compressor |       |       |       |       |       |      |     |
|                                   | Quantity                |          |      |      | 1                       |       |       |       |       |       |      |     |
| Sound power level                 | Cooling                 | Nom.     |      |      | dBA                     | 88.9  |       |       |       |       |      |     |
| Sound pressure level              | Cooling                 | Nom.     |      |      | dBA                     | 79    |       |       |       |       |      |     |
| Refrigerant                       | Type                    |          |      |      | R-513A                  |       |       |       |       |       |      |     |
|                                   | Circuits                | Quantity |      |      |                         | 1     |       |       |       |       |      |     |
| Piping connections                |                         |          |      | mm   | 76.2                    |       |       |       |       |       |      |     |
| Unit                              | Starting current        | Max      | A    |      |                         | 154   |       | 198   |       | 291   |      |     |
|                                   | Running current         | Cooling  | Nom. |      | A                       | 54    | 65    | 75    | 84    | 94    | 111  | 125 |
|                                   |                         | Max      | A    |      |                         | 81    | 96    | 108   | 122   | 141   | 164  | 185 |
| Power supply                      | Phase/Frequency/Voltage |          |      | Hz/V | 3~/50/400               |       |       |       |       |       |      |     |

Performances according to CSS software 10.34

# Condenserless screw chiller, standard efficiency, standard sound

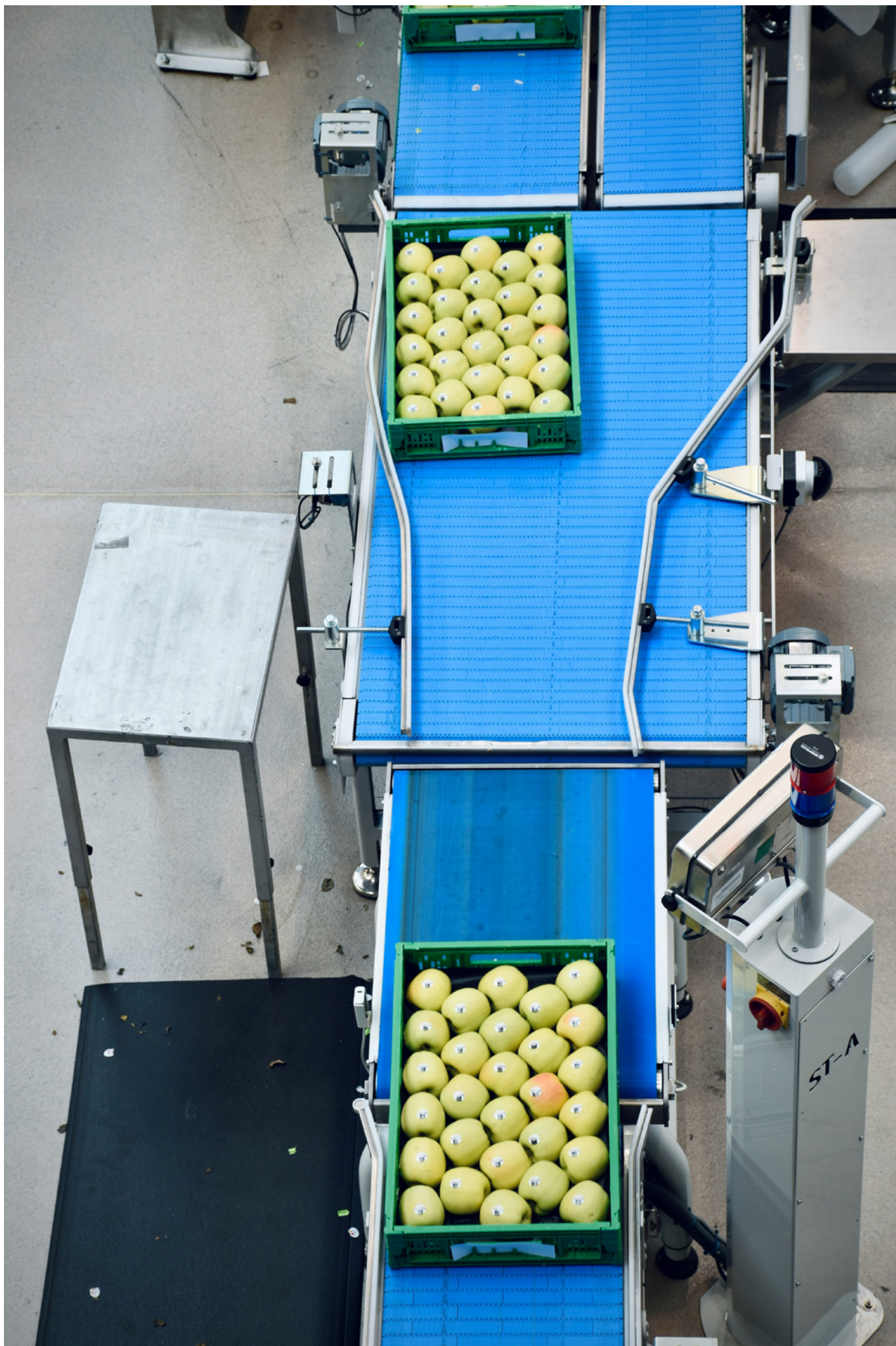
- DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- Stepless single-screw compressor
- Standard electronic expansion valve
- Optimised for use with R-134a



EWLD-I-SS

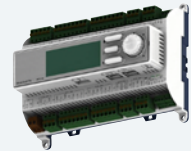
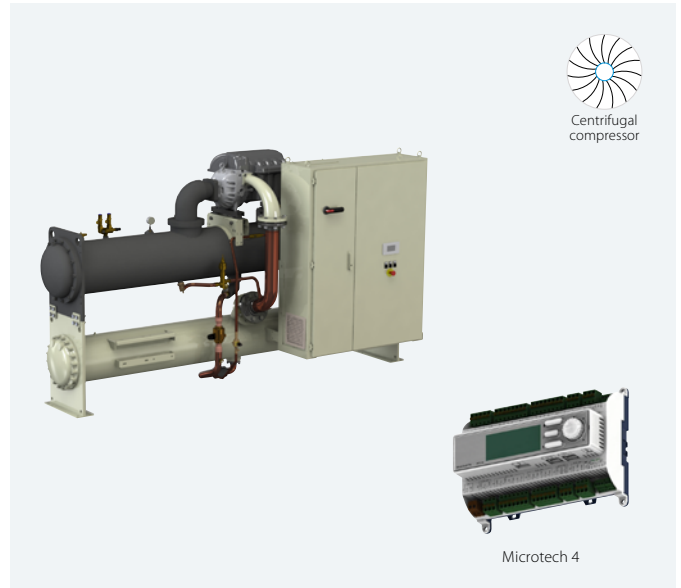
| Cooling only                      |                                    |          |           | EWLD-I-SS | 320                        | 400   | 420   | 500   | 600   | 650   | 750   | 800   | 850   | 900   | 950   | C10   | C11   | C12   | C13   | C14   | C15   | C16   | C17   |  |
|-----------------------------------|------------------------------------|----------|-----------|-----------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Cooling capacity                  | Nom.                               |          |           | kW        | 315                        | 374   | 437   | 509   | 607   | 670   | 740   | 802   | 865   | 935   | 975   | 1,029 | 1,097 | 1,144 | 1,210 | 1,278 | 1,330 | 1,381 | 1,433 |  |
| Power input                       | Cooling                            | Nom.     |           | kW        | 80.3                       | 96.0  | 113   | 134   | 160   | 175   | 192   | 208   | 224   | 246   | 264   | 283   | 286   | 302   | 318   | 336   | 356   | 375   | 395   |  |
| Capacity control                  | Method                             |          |           |           | Stepless                   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                                   | Minimum capacity                   |          |           | %         | 25.0                       |       |       |       | 12.5  |       |       |       |       |       | 8.3   |       |       |       |       |       |       |       |       |  |
| EER                               |                                    |          |           |           | 3.93                       | 3.89  | 3.88  | 3.79  | 3.80  | 3.82  | 3.86  |       |       | 3.81  | 3.69  | 3.64  | 3.83  | 3.79  | 3.80  |       | 3.74  | 3.68  | 3.63  |  |
| Dimensions                        | Unit                               | Height   |           | mm        | 1,899                      |       |       |       | 2,325 |       |       |       |       |       | 2,415 |       |       |       |       |       |       |       |       |  |
|                                   |                                    | Width    |           | mm        | 1,464                      |       |       |       |       |       |       |       | 2,135 |       |       |       |       |       |       |       |       |       |       |  |
|                                   |                                    | Length   |           | mm        | 3,114                      |       |       |       | 4,391 |       |       |       |       |       | 4,426 |       |       |       |       |       |       |       |       |  |
| Weight                            | Unit                               |          |           | kg        | 1,861                      | 1,869 | 1,884 | 3,331 | 3,339 | 3,347 | 3,356 | 3,364 | 3,412 |       | 5,146 | 5,167 |       | 5,188 | 5,208 |       |       |       |       |  |
|                                   | Operation weight                   |          |           | kg        | 2,054                      | 2,052 | 2,056 | 3,602 |       |       | 3,603 | 3,604 | 3,605 | 3,645 |       | 5,667 | 5,671 |       | 5,677 | 5,680 |       |       |       |  |
| Water heat exchanger - evaporator | Type                               |          |           |           | Single pass shell and tube |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                                   | Water volume                       |          |           | l         | 193                        |       | 183   | 172   | 271   | 263   | 256   | 248   | 241   | 233   |       | 504   |       | 489   | 472   | 504   |       | 489   | 472   |  |
|                                   | Water flow rate                    | Nom.     |           | l/s       | 15.1                       | 17.9  | 20.9  | 24.4  | 29.1  | 32.1  | 35.4  | 38.4  | 41.4  | 44.8  | 46.7  | 49.3  | 52.5  | 54.8  | 57.9  | 61.2  | 63.7  | 66.1  | 68.6  |  |
|                                   | Water pressure drop                | Cooling  | Total     | kPa       | 34                         | 46    | 49    | 56    | 50    | 40    | 52    | 49    | 40    | 49    | 36    | 54    | 47    | 51    | 43    | 53    | 57    | 61    | 65    |  |
| Compressor                        | Type                               |          |           |           | Single screw compressor    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                                   | Quantity                           |          |           |           | 1                          |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       | 3     |       |       |       |  |
| Sound power level                 | Cooling                            | Nom.     |           | dBA       | 94.0                       | 97.0  |       |       |       |       | 98.0  | 99.0  | 100.0 |       |       |       | 101.0 |       |       | 103.0 |       |       |       |  |
| Sound pressure level              | Cooling                            | Nom.     |           | dBA       | 75.0                       | 76.0  | 78.0  |       |       |       | 79.0  | 80.0  | 81.0  |       |       | 80.0  |       | 81.0  |       | 83.0  |       |       |       |  |
| Operation range                   | Evaporator                         | Cooling  | Min.~Max. | °CDB      | -8~15                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                                   | Condenser                          | Cooling  | Min.~Max. | °CDB      | 25~60                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| Refrigerant                       | Type / GWP                         |          |           |           | R-134a/1,430               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                                   | Circuits                           | Quantity |           |           | 1                          |       |       |       | 2     |       |       |       |       |       | 3     |       |       |       |       |       |       |       |       |  |
| Piping connections                | Evaporator water inlet/outlet (OD) |          |           |           | 42mm                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| Unit                              | Maximum Starting current           |          |           | A         | 330                        | 464   |       | 493   | 627   | 650   | 681   |       | 703   |       | 836   |       | 867   | 898   |       | 920   | 942   |       |       |  |
|                                   | Nominal running current (RLA)      |          | Cooling   | A         | 131                        | 157   | 181   | 214   | 260   | 287   | 313   | 338   | 361   | 391   | 420   | 448   | 470   | 493   | 517   | 542   | 571   | 601   | 631   |  |
|                                   | Maximum running current            |          |           | A         | 204                        | 233   | 271   | 299   | 407   | 436   | 465   | 504   | 542   | 570   | 597   | 670   | 698   | 737   | 775   | 814   | 841   | 868   | 896   |  |
| Power supply                      | Phase/Frequency/Voltage            |          |           | Hz/V      | 3~/50/400                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |





# Water cooled centrifugal chiller, high efficiency, standard sound

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design
- Optimised for highly efficient R134a refrigerant and compatible with next generation refrigerants



Microtech 4



EWWD-DZXS

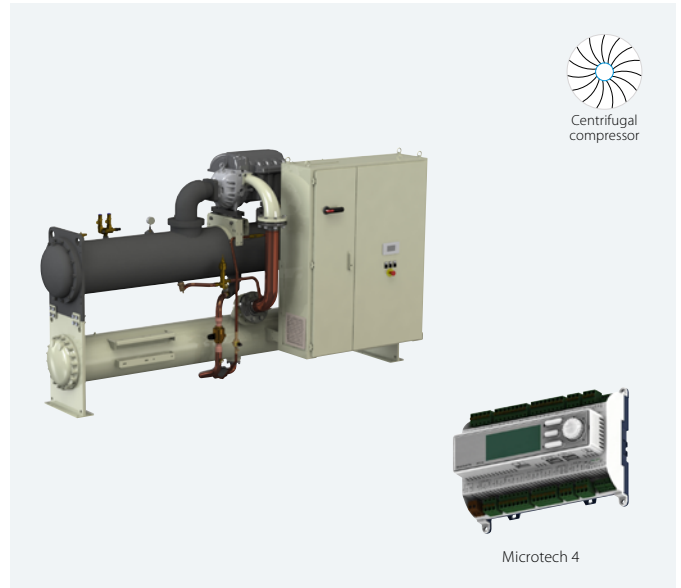
| Cooling Only                      |                         | EWWD-DZXS    |                | 320                      | 440    | 530    | 610    | 640    | 700    | 880    | C10    | C13      | C14    | C15      | C21      |
|-----------------------------------|-------------------------|--------------|----------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|--------|----------|----------|
| Space cooling                     | A Condition Pdc         | kW           | (35°C - 27/19) | 320.01                   | 443.01 | 528    | 610.02 | 638.01 | 699.97 | 883.01 | 1,056  | 1,325.26 | 1,402  | 1,564.57 | 2,070.42 |
|                                   | ηs,c                    |              |                | %                        | 334    | 314    | 324    | 344    | 349    | 342    | 350    | 363      | 349.8  | 362      | 360.6    |
| SEER                              |                         |              |                | %                        | 8.72   | 8.65   | 9.08   | 8.91   | 8.95   | 8.79   | 8.99   | 9.31     | 8.86   | 9.32     | 9.13     |
| Cooling capacity                  | Nom.                    | kW           |                | 320                      | 443    | 528    | 610    | 638    | 700    | 883    | 1,056  | 1,325    | 1,402  | 1,565    | 2,070    |
| Power input                       | Cooling Nom.            | kW           |                | 66.5                     | 88.5   | 102    | 124.7  | 131    | 126    | 176    | 205    | 272      | 256    | 310      | 391      |
| Capacity control                  | Method                  |              |                | Variable                 |        |        |        |        |        |        |        |          |        |          |          |
|                                   | Minimum capacity        | %            |                | 30                       | 21     | 16     | 15     | 18     | 11     | 7      | 9      | 8        | 6      |          |          |
| EER                               |                         |              |                | 4.81                     | 5      | 5.14   | 4.89   | 4.85   | 5.53   | 5.01   | 5.15   | 4.88     | 5.46   | 5.04     | 5.3      |
| ESEER                             |                         |              |                | 7.94                     | 7.92   | 8.2    | 7.78   | 8.16   | 8.08   | 8.09   | 8.39   | -        | 8.29   | -        | -        |
| IPLV                              |                         |              |                | 9.38                     | 9.33   | 9.7    | 9.41   | 9.5    | 9.86   | 9.52   | 9.91   | 9.18     | 10.1   | 9.5      | 9.42     |
| Dimensions                        | Unit                    | Height       | mm             | 1,865                    |        |        | 1,985  |        |        | 2,200  |        |          | 2,083  | 2,200    | 2,290    |
|                                   |                         | Width        | mm             | 1,055                    |        |        | 1,160  |        |        | 1,270  |        |          | 1,510  | 1,270    | 1,510    |
|                                   |                         | Length       | mm             | 3,625                    |        |        | 3,585  |        |        | 3,580  |        |          | 4,793  | 3,580    | 4,768    |
| Weight                            | Unit                    | kg           |                | 1,700                    | 1,900  | 2,000  | 2,850  | 2,600  | 2,900  | 3,600  | 4,350  | 3,800    | 4,750  | 5,500    | 5,500    |
|                                   | Operation weight        | kg           |                | 1,973                    | 2,216  | 2,347  | 3,197  | 3,344  | 3,102  | 3,458  | 4,292  | 5,020    | 4,579  | 5,540    | 6,570    |
| Water heat exchanger - evaporator | Type                    |              |                | Flooded shell and tube   |        |        |        |        |        |        |        |          |        |          |          |
|                                   | Water volume            | l            |                | 70                       | 96     | 107    | 134    | 156    | 199    | 271.8  | 229    | 317.4    | 444.3  |          |          |
|                                   | Water flow rate         | Nom.         | l/s            | 15.3                     | 21.2   | 25.3   | 29.1   | 30.5   | 33.5   | 42.3   | 50.6   | -        | 67.2   | -        | -        |
|                                   | Water flow rate         | Cooling Nom. | l/s            | -                        |        |        |        |        |        |        |        | 63.4     | -      | 74.9     | 99.1     |
|                                   | Water pressure drop     | Cooling Nom. | kPa            | 47.4                     | 40.6   | 45     | 59.1   | 51     | 61.3   | 64     | 60.4   | 60.1     | 74     | 61.1     | 71.9     |
| Water heat exchanger - condenser  | Type                    |              |                | Shell and tube           |        |        |        |        |        |        |        |          |        |          |          |
|                                   | Water volume            | l            |                | 83                       | 100    | 120    | 170    | 188    | 211    | 263    | 359.9  | 320      | 442.6  | 603.6    |          |
|                                   | Water flow rate         | Nom.         | l/s            | 18.3                     | 25.3   | 30.1   | 35.1   | 36.7   | 39.4   | 50.5   | 60.1   | -        | 79.1   | -        | -        |
|                                   | Water flow rate         | Cooling Nom. | l/s            | -                        |        |        |        |        |        |        |        | 76.1     | -      | 89.5     | 117      |
|                                   | Water pressure drop     | Cooling Nom. | kPa            | 49.2                     | 59.5   | 54.5   | 74     | 46.2   | 41.6   | 50.9   | 50.3   | 56       | 52.9   | 43       | 57       |
| Compressor                        | Type                    |              |                | Driven vapour compressor |        |        |        |        |        |        |        |          |        |          |          |
|                                   | Quantity                |              |                | 1                        | 2      | 1      | 2      | 3      | 2      | 3      |        |          |        |          |          |
| Sound power level                 | Cooling Nom.            | dBA          |                | 87.9                     | 88.9   | 89.9   | 91.1   | 91.1   | 92     | 93.3   | 99     | 94.3     | 100    | 101      |          |
| Sound pressure level              | Cooling Nom.            | dBA          |                | 69.6                     | 70.6   | 71.6   | 72.6   | 73.6   | 74.6   | 80     | 75.6   | 81       | 82     |          |          |
| Operation range                   | Evaporator Cooling      | Min.~Max.    | °CDB           | 4~20                     |        |        |        |        |        |        |        |          |        |          |          |
|                                   | Condenser Cooling       | Min.~Max.    | °CDB           | 20~55                    | 20~42  | 20~55  | 20~42  | 20~55  | 20~42  | 20~55  | 20~42  | 20~55    | 20~42  |          |          |
| Refrigerant                       | Type/GWP                |              |                | R-134a/1,430             |        |        |        |        |        |        |        |          |        |          |          |
|                                   | Charge                  | kg           |                | 120                      | 180    | 230    | 320    | 230    | 340    | 390    |        |          |        |          |          |
|                                   | Circuits                | Quantity     |                | 1                        |        |        |        |        |        |        |        |          |        |          |          |
| Refrigerant charge                | TCO2Eq                  |              |                | 172                      | 257    | 329    | -      | 329    | -      |        |        |          |        |          |          |
| Piping connections                | mm                      |              |                | 139.7                    | 168.3  | 219.1  |        |        |        |        |        |          |        |          |          |
| Piping connections                | mm                      |              |                | 139.7                    | 168.3  | 219.1  |        |        |        |        |        |          |        |          |          |
| Unit                              | Running current         | Cooling Nom. | A              | 100.55                   | 138.22 | 155.23 | 203.41 | 200.56 | 190.23 | 274.86 | 309.17 | 445      | 383.87 | 471.7    | 588      |
|                                   | Max                     | A            |                | 134                      | 208    | 166    | 267    | 196    | 417    | 331    | 631    | 392      | 511    | 589      |          |
| Power supply                      | Phase/Frequency/Voltage | Hz/V         |                | 3~/50/400                |        |        |        |        |        |        |        |          |        |          |          |

Performances according to CSS software 10.27

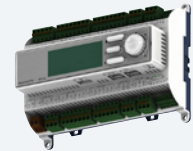


# Water cooled centrifugal chiller, high efficiency, standard sound

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design
- Optimised for highly efficient R134a refrigerant and compatible with next generation refrigerants



Centrifugal compressor



Microtech 4



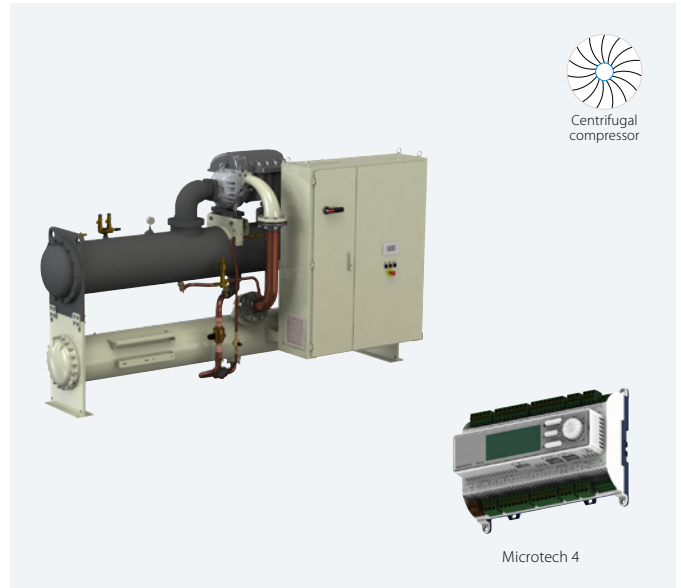
EWWD-DZXE

| Cooling Only                      |                         |          |           | EWWD-DZXE |                          |        |        | 340   | 470    | 570    | 670    | 680                  | 740            | 950                  | C10            | C11                  | C14      | C15 | C17 | C22 |  |  |  |  |  |  |
|-----------------------------------|-------------------------|----------|-----------|-----------|--------------------------|--------|--------|-------|--------|--------|--------|----------------------|----------------|----------------------|----------------|----------------------|----------|-----|-----|-----|--|--|--|--|--|--|
| Space cooling                     | A Condition             | Pdc      |           | kW        | 341.01                   | 474.02 | 566    | 670   | 682    | 741.96 | 946    | 1,038.18             | 1,130          | 1,436.52             | 1,477.93       | 1,684.76             | 2,172.91 |     |     |     |  |  |  |  |  |  |
|                                   | (35°C - 27/19)<br>ηs,c  |          |           | %         | 335                      | 316    | 326    | 345   | 349    | 346    | 352    | 339.8                | 365            | 350.6                | 366            | 359                  | 370.2    |     |     |     |  |  |  |  |  |  |
| SEER                              |                         |          |           |           | 8.67                     | 8.7    | 9.14   | 8.89  | 8.99   | 8.9    | 9.06   | 8.83                 | 9.39           | 8.91                 | 9.43           | 9.14                 | 9.41     |     |     |     |  |  |  |  |  |  |
| Cooling capacity                  | Nom.                    |          |           | kW        | 341                      | 474    | 566    | 670   | 682    | 742    | 946    | 1,038                | 1,130          | 1,437                | 1,478          | 1,685                | 2,173    |     |     |     |  |  |  |  |  |  |
| Power input                       | Cooling                 | Nom.     |           | kW        | 69.9                     | 93.5   | 108    | 138.4 | 138    | 131    | 186    | 210                  | 216            | 288                  | 263            | 329                  | 393      |     |     |     |  |  |  |  |  |  |
| Capacity control                  | Method                  |          |           |           | Variable                 |        |        |       |        |        |        |                      |                |                      |                |                      |          |     |     |     |  |  |  |  |  |  |
|                                   | Minimum capacity        |          |           | %         | 29                       | 20     | 15     | 17    | 10     |        |        |                      | 7              | 9                    | 7              | 6                    |          |     |     |     |  |  |  |  |  |  |
| EER                               |                         |          |           |           | 4.88                     | 5.07   | 5.22   | 4.84  | 4.91   | 5.65   | 5.08   | 4.94                 | 5.23           | 4.98                 | 5.6            | 5.12                 | 5.53     |     |     |     |  |  |  |  |  |  |
| ESEER                             |                         |          |           |           | 7.81                     | 7.83   | 8.11   | 7.52  | 8      | 8.09   | 7.96   | -                    | 8.26           | -                    | 8.22           | -                    |          |     |     |     |  |  |  |  |  |  |
| IPLV                              |                         |          |           |           | 9.29                     | 9.3    | 9.71   | 9.22  | 9.37   | 9.9    | 9.46   | 9.33                 | 9.86           | 9.2                  | 10.1           | 9.49                 | 9.52     |     |     |     |  |  |  |  |  |  |
| Dimensions                        | Unit                    | Height   |           | mm        | 1,865                    |        |        | 1,985 |        |        | 2,082  | 2,200                | 2,083          | 2,200                | 2,225          | 2,290                |          |     |     |     |  |  |  |  |  |  |
|                                   |                         | Width    |           | mm        | 1,055                    |        |        | 1,160 |        |        | 1,510  | 1,270                | 1,510          | 1,270                | 1,510          |                      |          |     |     |     |  |  |  |  |  |  |
|                                   |                         | Length   |           | mm        | 3,625                    |        |        | 3,585 |        |        | 4,688  | 3,580                | 4,793          | 3,580                | 4,768          | 4,812                |          |     |     |     |  |  |  |  |  |  |
| Weight                            | Unit                    |          |           | kg        | 1,750                    | 1,950  | 2,050  | 2,850 | 2,650  | 3,000  | 4,400  | 3,700                | 4,700          | 3,900                | 5,100          | 5,900                |          |     |     |     |  |  |  |  |  |  |
|                                   | Operation weight        |          |           | kg        | 2,033                    | 2,276  | 2,407  | 3,197 | 3,354  | 3,162  | 3,568  | 4,970                | 4,412          | 5,370                | 4,699          | 5,890                | 6,920    |     |     |     |  |  |  |  |  |  |
| Water heat exchanger - evaporator | Type                    |          |           |           | Flooded shell and tube   |        |        |       |        |        |        |                      |                |                      |                |                      |          |     |     |     |  |  |  |  |  |  |
|                                   | Water volume            |          |           | l         | 70                       | 96     | 107    | 134   | 156    | 207.3  | 199    | 317.4                | 229            | 317.4                | 444.3          |                      |          |     |     |     |  |  |  |  |  |  |
|                                   | Water flow rate         | Nom.     |           | l/s       | 16.4                     | 22.7   | 27.1   | 32    | 32.7   | 35.6   | 45.3   | -                    | 54.1           | -                    | 70.9           | -                    |          |     |     |     |  |  |  |  |  |  |
|                                   | Water flow rate         | Cooling  | Nom.      | l/s       | -                        |        |        |       |        |        |        | 49.1                 | -              | 68                   | -              | 80.4                 | 103      |     |     |     |  |  |  |  |  |  |
| Water heat exchanger - condenser  | Water pressure drop     | Cooling  | Nom.      | kPa       | 54.2                     | 46.5   | 51.5   | 71.4  | 58.3   | 68.7   | 73.2   | 61.4                 | 68.9           | 70.7                 | 82             | 70.7                 | 78.9     |     |     |     |  |  |  |  |  |  |
|                                   | Type                    |          |           |           | Shell and tube           |        |        |       |        |        |        | Flooded Shell & Tube | Shell and tube | Flooded Shell & Tube | Shell and tube | Flooded Shell & Tube |          |     |     |     |  |  |  |  |  |  |
|                                   | Water volume            |          |           | l         | 83                       | 100    | 120    | 170   | 188    | 211    | 326.4  | 263                  | 359.9          | 320                  | 442.6          | 603.6                |          |     |     |     |  |  |  |  |  |  |
|                                   | Water flow rate         | Nom.     |           | l/s       | 19.6                     | 27     | 32.1   | 38.6  | 39.1   | 41.6   | 53.9   | -                    | 64.1           | -                    | 83             | -                    |          |     |     |     |  |  |  |  |  |  |
| Compressor                        | Water flow rate         | Cooling  | Nom.      | l/s       | -                        |        |        |       |        |        |        | 58.9                 | -              | 81.4                 | -              | 95.8                 | 121      |     |     |     |  |  |  |  |  |  |
|                                   | Water pressure drop     | Cooling  | Nom.      | kPa       | 56.4                     | 68.4   | 62.4   | 90    | 52.9   | 46.7   | 58.3   | 44                   | 57.6           | 66                   | 58.5           | 50                   | 62       |     |     |     |  |  |  |  |  |  |
|                                   | Type                    |          |           |           | Driven vapour compressor |        |        |       |        |        |        |                      |                |                      |                |                      |          |     |     |     |  |  |  |  |  |  |
|                                   | Quantity                |          |           |           | 1                        |        |        | 2     |        | 1      | 2      | 3                    | 2              | 3                    | 2              | 3                    |          |     |     |     |  |  |  |  |  |  |
| Sound power level                 | Cooling                 | Nom.     |           | dB(A)     | 87.9                     | 88.9   | 89.9   | 91.1  | 91     | 91.1   | 92     | 98                   | 93.3           | 99                   | 94.3           | 100                  | 101      |     |     |     |  |  |  |  |  |  |
| Sound pressure level              | Cooling                 | Nom.     |           | dB(A)     | 69.6                     | 70.6   | 71.6   | 72.6  |        |        | 73.6   | 79                   | 74.6           | 80                   | 75.6           | 81                   | 82       |     |     |     |  |  |  |  |  |  |
| Operation range                   | Evaporator              | Cooling  | Min.~Max. | °CDB      | 4~20                     |        |        |       |        |        |        |                      |                |                      |                |                      |          |     |     |     |  |  |  |  |  |  |
|                                   | Condenser               | Cooling  | Min.~Max. | °CDB      | 20~55                    | 20~42  | 20~55  | 20~42 | 20~55  |        |        |                      | 20~42          | 20~55                | 20~42          |                      |          |     |     |     |  |  |  |  |  |  |
| Refrigerant                       | Type/GWP                |          |           |           | R-134a/1,430             |        |        |       |        |        |        |                      |                |                      |                |                      |          |     |     |     |  |  |  |  |  |  |
|                                   | Charge                  |          |           | kg        | 130                      |        |        | 120   | 200    | 190    | 200    | 350                  | 250            | 400                  | 250            | 420                  | 470      |     |     |     |  |  |  |  |  |  |
|                                   | Circuits                | Quantity |           |           | 1                        |        |        |       |        |        |        |                      |                |                      |                |                      |          |     |     |     |  |  |  |  |  |  |
| Refrigerant charge                |                         |          |           | TCO2Eq    | 186                      |        |        | 172   | 286    | 272    | 286    | -                    | 358            | -                    | 358            | -                    |          |     |     |     |  |  |  |  |  |  |
| Piping connections                |                         |          |           | mm        | 139.7                    |        |        | 168.3 |        |        |        | 219.1                |                |                      |                |                      |          |     |     |     |  |  |  |  |  |  |
| Piping connections                |                         |          |           | mm        | 139.7                    |        |        | 168.3 |        |        |        | 219.1                |                |                      |                |                      |          |     |     |     |  |  |  |  |  |  |
| Unit                              | Running current         | Cooling  | Nom.      | A         | 105.42                   | 144.7  | 162.48 | 212.9 | 210.15 | 196    | 287.44 | 318.3                | 323.53         | 425.9                | 392            | 496                  | 588      |     |     |     |  |  |  |  |  |  |
|                                   |                         | Max      |           | A         | 134                      | 208    | 166    | 267   | 196    | 417    | 406    | 331                  | 631            | 392                  | 511            | 589                  |          |     |     |     |  |  |  |  |  |  |
| Power supply                      | Phase/Frequency/Voltage |          |           | Hz/V      | 3~/50/400                |        |        |       |        |        |        |                      |                |                      |                |                      |          |     |     |     |  |  |  |  |  |  |

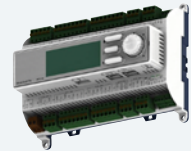
Performances according to CSS software 10.27

# Water cooled centrifugal chiller, high efficiency, standard sound

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design



Centrifugal compressor



Microtech 4



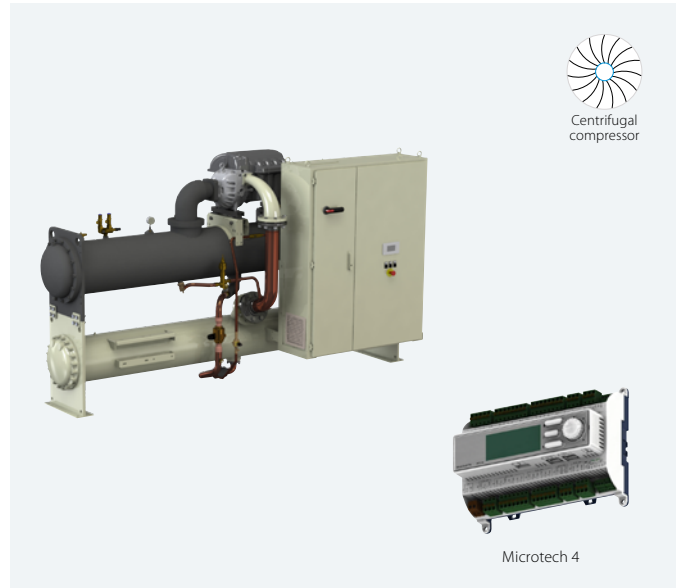
EWWH-DZXS

| Cooling Only                      |                         |                               |           | EWWH-DZXS                | 230       | 320    | 380    | 430    | 455    | 460    | 640    | 755    | 920                  | 945   | C11   | C13   |
|-----------------------------------|-------------------------|-------------------------------|-----------|--------------------------|-----------|--------|--------|--------|--------|--------|--------|--------|----------------------|-------|-------|-------|
| Space cooling                     | A Condition             | PdC<br>(35°C - 27/19)<br>ηs,c | kW        | 227.08                   | 318.33    | 376.33 | 455.13 | 454.66 | 474.48 | 637.15 | 752.27 | 917.79 | 945.8                | 1,126 | 1,352 |       |
|                                   | %                       |                               |           | 330                      | 346       | 342    | 339    | 352    | 354    | 353    | 360.2  | 359.4  | 364.2                |       |       |       |
| SEER                              |                         |                               |           | 8.78                     | 8.66      | 8.67   | 8.8    | 8.78   | 8.32   | 9.04   | 9.07   | 9.06   | 9.02                 | 9.04  | 9.13  |       |
| Cooling capacity                  | Nom.                    |                               | kW        | 227                      | 318       | 376    | 455    |        | 461    | 637    | 752    | 918    | 945.8                | 1,126 | 1,352 |       |
| Power input                       | Cooling                 | Nom.                          | kW        | 45.6                     | 60.5      | 71.4   | 93.3   | 90.6   | 79.3   | 120.5  | 142.1  | 158.8  | 181                  | 216.5 | 237.7 |       |
| Capacity control                  | Method                  |                               |           | Variable                 |           |        |        |        |        |        |        |        | Stepless             |       |       |       |
|                                   | Minimum capacity        |                               | %         | 24                       | 21        | 20     | 13     | 12     | 20     | 11     | 10     |        | 11                   |       | 16    |       |
| EER                               |                         |                               |           | 4.98                     | 5.27      |        | 4.88   | 5.02   | 5.81   | 5.29   |        | 5.78   | 5.22                 | 5.2   | 5.69  |       |
| ESEER                             |                         |                               |           | 7.78                     | 7.97      | 7.98   | 7.89   | 8.06   | 7.76   | 8.26   | 8.3    | 8.16   |                      | -     |       |       |
| IPLV                              |                         |                               |           | 9.37                     | 9.52      | 9.56   | 9.44   |        | 9.5    | 9.74   | 9.78   | 9.74   | 9.54                 | 9.57  | 9.71  |       |
| Dimensions                        | Unit                    | Height                        | mm        | 1,865                    |           |        | 1,985  |        |        | 2,200  |        |        | 2,083                | 2,225 | 2,290 |       |
|                                   |                         | Width                         | mm        | 1,055                    |           |        | 1,160  |        |        | 1,270  |        |        | 1,510                |       |       |       |
|                                   |                         | Length                        | mm        | 3,625                    |           |        | 3,585  |        |        | 3,580  |        |        | 4,793                | 4,768 | 4,812 |       |
| Weight                            | Unit                    |                               | kg        | 1,700                    | 1,900     | 2,000  | 2,850  |        | 2,600  | 2,900  | 3,600  | 3,800  | 4,350                | 4,750 | 5,500 |       |
|                                   | Operation weight        |                               | kg        | 1,973                    | 2,216     | 2,347  | 3,197  | 3,344  | 3,102  | 3,458  | 4,292  | 4,579  | 5,020                | 5,540 | 6,570 |       |
| Water heat exchanger - evaporator | Type                    |                               |           | Flooded shell and tube   |           |        |        |        |        |        |        |        |                      |       |       |       |
|                                   | Water volume            |                               | l         | 70                       | 96        | 107    | 134    |        |        | 156    | 199    | 229    | 271.8                | 317.4 | 444.3 |       |
|                                   | Water flow rate         | Cooling                       | Nom.      | l/s                      | 10.8      | 15.2   | 18     | 20.5   | 21.7   | 22     | 30.4   | 35.9   | 43.9                 | 45.2  | 53.8  | 64.6  |
|                                   | Water pressure drop     | Cooling                       | Nom.      | kPa                      | 28.2      | 24.6   | 26.8   | 31.7   | 27.8   | 28.6   | 35.9   | 33     | 34.3                 | 30    | 31    |       |
| Water heat exchanger - condenser  | Type                    |                               |           | Shell and tube           |           |        |        |        |        |        |        |        | Flooded Shell & Tube |       |       |       |
|                                   | Water volume            |                               | l         | 83                       | 100       | 120    | 170    |        | 188    | 211    | 263    | 320    | 359.9                | 442.6 | 603.6 |       |
|                                   | Water flow rate         | Cooling                       | Nom.      | l/s                      | 13        | 18.1   | 21.4   | 24.5   | 26.1   | 25.8   | 36.2   | 42.7   | 51.4                 | 53.8  | 64.2  | 76    |
|                                   | Water pressure drop     | Cooling                       | Nom.      | kPa                      | 24        | 30     | 27     | 35     | 23     | 17     | 25     | 22     | 27                   | 26    | 24    |       |
| Compressor                        | Type                    |                               |           | Driven vapour compressor |           |        |        |        |        |        |        |        |                      |       |       |       |
|                                   | Quantity                |                               |           | 1                        |           |        | 2      |        | 1      | 2      |        |        | 3                    |       |       |       |
| Sound power level                 | Cooling                 | Nom.                          | dBA       | 87.9                     | 88.9      | 89.9   | 91.1   | 91     | 91.1   | 92     | 93.3   | 94.3   | 99                   | 100   | 101   |       |
| Sound pressure level              | Cooling                 | Nom.                          | dBA       | 69.6                     | 70.6      | 71.6   | 72.6   |        |        | 73.6   | 74.6   | 75.6   | 80                   | 81    | 82    |       |
| Operation range                   | Evaporator              | Cooling                       | Min.~Max. | °CDB                     | 4~20      |        |        |        |        |        |        |        |                      |       |       |       |
|                                   | Condenser               | Cooling                       | Min.~Max. | °CDB                     | 20~55     | 20~42  | 20~55  | 20~42  | 20~55  | 20~42  | 20~42  | 20~55  | 20~42                |       |       |       |
| Refrigerant                       | Type/GWP                |                               |           | R-1234(ze)/7             |           |        |        |        |        |        |        |        |                      |       |       |       |
|                                   | Charge                  |                               | kg        | 120                      |           |        |        | 180    |        |        | 230    |        | 320                  | 340   | 390   |       |
|                                   | Circuits                | Quantity                      |           | 1                        |           |        |        |        |        |        |        |        |                      |       |       |       |
| Refrigerant charge                |                         |                               | TCO2Eq    | 1                        |           |        |        |        | 2      |        |        | -      |                      |       |       |       |
| Piping connections                |                         |                               | mm        | 139.7                    |           |        |        | 168.3  |        |        | 219.1  |        |                      |       |       |       |
|                                   |                         |                               | mm        | 139.7                    |           |        |        | 168.3  |        |        | 219.1  | 168.3  | 219.1                |       |       |       |
| Unit                              | Running current         | Cooling                       | Nom.      | A                        | 72        | 99     | 112    | 133    | 144    | 125    | 198    | 222    | 249                  | 297.8 | 339.2 | 374.1 |
| Unit                              | Running current         | Max                           |           | A                        | 95        | 150    | 123    | 190    |        | 142    | 300    | 246    | 284                  | 451   | 370   | 448   |
| Power supply                      | Phase/Frequency/Voltage |                               | Hz/V      |                          | 3~/50/400 |        |        |        |        |        |        |        |                      |       |       |       |

Performances according to CSS software 10.27

# Water cooled centrifugal chiller, high efficiency, standard sound

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design



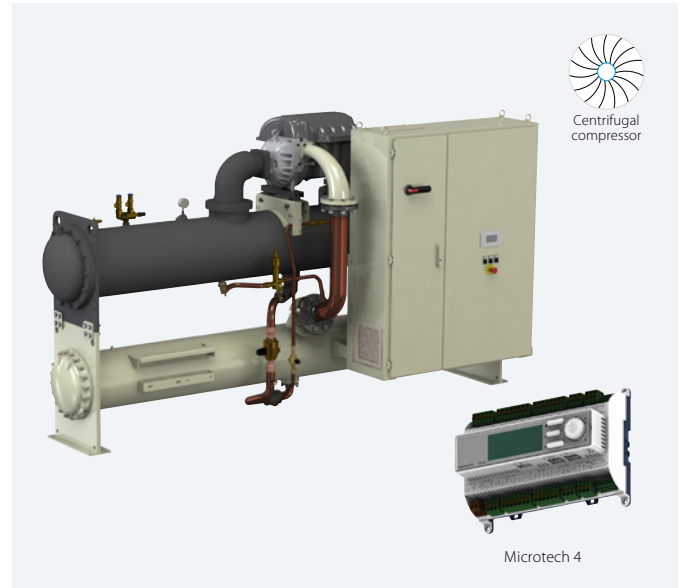
EWWH-DZXE

| Cooling Only                      |                         |          |           | EWWH-DZXE | 245                      | 345    | 405    | 470    | 480    | 490    | 685    | 740                  | 810            | 955    | C10                  | C12   | C14   |
|-----------------------------------|-------------------------|----------|-----------|-----------|--------------------------|--------|--------|--------|--------|--------|--------|----------------------|----------------|--------|----------------------|-------|-------|
| Space cooling                     | A Condition             | Pdc      |           | kW        | 241.98                   | 339.33 | 401.93 | 460.88 | 483.83 | 486.57 | 678.69 | 741                  | 802.77         | 944.73 | 1,033                | 1,226 | 1,417 |
|                                   | ηs,c                    |          |           | %         | 331                      | 350    |        | 335    | 345    | 344    | 356    | 344.6                | 358            | 356    | 364.2                |       | 371.8 |
| SEER                              |                         |          |           |           | 8.85                     | 8.75   | 8.79   | 8.94   | 8.4    | 8.9    | 9.18   | 8.8                  | 9.22           | 9.15   | 9.17                 |       | 9.35  |
| Cooling capacity                  | Nom.                    |          |           | kW        | 242                      | 339    | 402    | 487    | 474    | 484    | 679    | 741                  | 803            | 945    | 1,033                | 1,226 | 1,417 |
| Power input                       | Cooling                 | Nom.     |           | kW        | 47.9                     | 63.4   | 75.1   | 98.7   | 79.5   | 95.1   | 126.3  | 144.6                | 149.4          | 159.2  | 192.9                | 229.5 | 238.3 |
| Capacity control                  | Method                  |          |           |           | Variable                 |        |        |        |        |        |        | Stepless             | Variable       |        | Stepless             |       |       |
|                                   | Minimum capacity        |          |           | %         | 24                       | 20     | 19     | 12     | 20     | 12     | 10     | 12                   | 9              | 10     | 11                   |       | 17    |
| EER                               |                         |          |           |           | 5.05                     | 5.35   |        | 4.93   | 5.97   | 5.09   | 5.37   | 5.13                 | 5.37           | 5.93   | 5.35                 | 5.34  | 5.94  |
| ESEER                             |                         |          |           |           | 7.78                     | 8.02   | 8      | 7.75   | 7.83   | 8.04   | 8.22   | -                    | 8.27           | 8.23   | -                    |       |       |
| IPLV                              |                         |          |           |           | 9.33                     | 9.54   | 9.58   | 9.36   | 9.56   | 9.43   | 9.74   | 9.44                 | 9.79           | 9.8    | 9.62                 | 9.65  | 9.72  |
| Dimensions                        | Unit                    | Height   |           | mm        | 1,865                    |        |        | 1,985  |        |        | 2,082  |                      | 2,200          |        | 2,083                | 2,225 | 2,290 |
|                                   |                         | Width    |           | mm        | 1,055                    |        |        | 1,160  |        |        | 1,510  |                      | 1,270          |        | 1,510                |       |       |
|                                   |                         | Length   |           | mm        | 3,625                    |        |        | 3,585  |        |        | 4,688  |                      | 3,580          |        | 4,793                | 4,768 | 4,812 |
| Weight                            | Unit                    |          |           | kg        | 1,750                    | 1,950  | 2,050  | 2,850  | 2,650  | 2,850  | 3,000  | 4,400                | 3,700          | 3,900  | 4,700                | 5,100 | 5,900 |
|                                   | Operation weight        |          |           | kg        | 2,033                    | 2,276  | 2,407  | 3,197  | 3,162  | 3,354  | 3,568  | 4,970                | 4,412          | 4,699  | 5,370                | 5,890 | 6,920 |
| Water heat exchanger - evaporator | Type                    |          |           |           | Flooded shell and tube   |        |        |        |        |        |        |                      |                |        |                      |       |       |
|                                   | Water volume            |          |           | l         | 70                       | 96     | 107    |        | 134    |        | 156    | 207.3                | 199            | 229    | 317.4                |       | 444.3 |
|                                   | Water flow rate         | Cooling  | Nom.      | l/s       | 11.6                     | 16.2   | 19.2   | 22.4   | 22.6   | 23.1   | 32.4   | 34.9                 | 38.4           | 45.2   | 48.7                 | 57.9  | 67    |
|                                   | Water pressure drop     | Cooling  | Nom.      | kPa       | 29.7                     | 28.4   |        | 37.8   | 30.8   | 32     | 41.3   | 31                   | 38.1           | 36.9   | 37                   | 38    | 33    |
| Water heat exchanger - condenser  | Type                    |          |           |           | Shell and tube           |        |        |        |        |        |        | Flooded Shell & Tube | Shell and tube |        | Flooded Shell & Tube |       |       |
|                                   | Water volume            |          |           | l         | 83                       | 100    | 120    |        | 188    | 170    | 211    | 326.4                | 263            | 320    | 359.9                | 442.6 | 603.6 |
|                                   | Water flow rate         | Cooling  | Nom.      | l/s       | 13.9                     | 19.2   | 22.8   | 26.7   | 26.4   | 27.7   | 38.5   | 41.8                 | 45.5           | 52.8   | 57.8                 | 68.8  | 78.4  |
|                                   | Water pressure drop     | Cooling  | Nom.      | kPa       | 28                       | 34     | 31     | 42     | 18     | 26     | 29     | 21                   | 28             | 23     | 33                   | 30    | 26    |
| Compressor                        | Type                    |          |           |           | Driven vapour compressor |        |        |        |        |        |        |                      |                |        |                      |       |       |
|                                   | Quantity                |          |           |           | 1                        |        |        | 2      | 1      | 2      | 3      | 2                    |                | 3      |                      |       |       |
| Sound power level                 | Cooling                 | Nom.     |           | dBA       | 87.9                     | 88.9   | 89.9   | 91.1   |        | 91     | 92     | 98                   | 93.3           | 94.3   | 99                   | 100   | 101   |
| Sound pressure level              | Cooling                 | Nom.     |           | dBA       | 69.6                     | 70.6   | 71.6   | 72.6   |        | 73.6   |        | 79                   | 74.6           | 75.6   | 80                   | 81    | 82    |
| Operation range                   | Evaporator              | Cooling  | Min.~Max. | °CDB      | 4~20                     |        |        |        |        |        |        |                      |                |        |                      |       |       |
|                                   | Condenser               | Cooling  | Min.~Max. | °CDB      | 20~55                    |        | 20~42  | 20~55  | 20~42  | 20~55  |        |                      | 20~42          |        | 20~55                | 20~42 |       |
| Refrigerant                       | Type/GWP                |          |           |           | R-1234(ze)/7             |        |        |        |        |        |        |                      |                |        |                      |       |       |
|                                   | Charge                  |          |           | kg        | 130                      |        |        | 120    | 190    | 200    | 350    | 250                  |                | 400    | 420                  | 470   |       |
|                                   | Circuits                | Quantity |           |           | 1                        |        |        |        |        |        |        |                      |                |        |                      |       |       |
| Refrigerant charge                |                         |          |           | TCO2Eq    | 1                        |        |        |        |        |        |        | -                    | 2              |        | -                    |       |       |
| Piping connections                |                         |          |           | mm        | 139.7                    |        |        |        | 168.3  |        |        |                      | 219.1          |        |                      |       |       |
|                                   |                         |          |           | mm        | 139.7                    |        |        |        | 168.3  |        |        |                      | 219.1          |        | 168.3                | 219.1 |       |
| Unit                              | Running current         | Cooling  | Nom.      | A         | 75                       | 103    | 117    | 142    | 125    | 150    | 205    | 277                  | 232            | 249    | 311                  | 249   |       |
| Unit                              | Running current         | Max      |           | A         | 95                       | 150    | 123    | 190    | 142    | 190    | 300    | 286                  | 246            | 284    | 451                  | 370   | 448   |
| Power supply                      | Phase/Frequency/Voltage |          |           | Hz/V      | 3~/50/400                |        |        |        |        |        |        |                      |                |        |                      |       |       |

Performances according to CSS software 10.27

# Water cooled centrifugal chiller, high efficiency, standard sound

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design
- Optimised for highly efficient R-513A refrigerant and compatible with next generation refrigerants

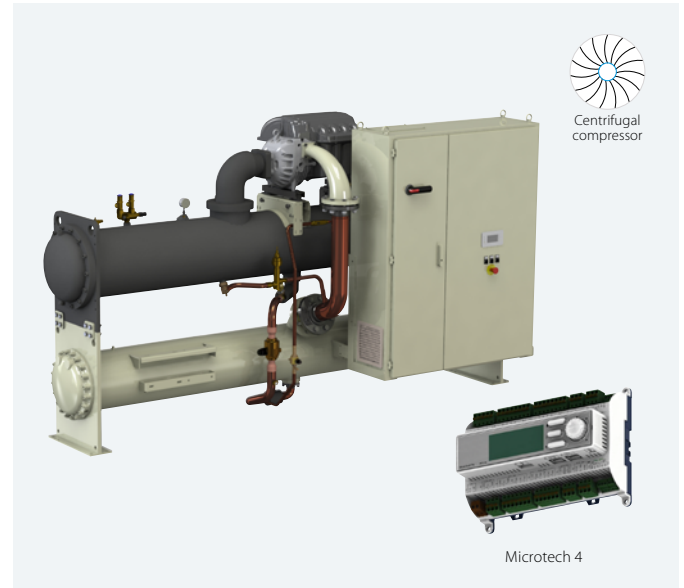


EWWS-DZXS

| Cooling Only                      |                                | EWWS-DZXS    |     | 320                      | 440    | 530    | 610    | 640    | 700    | 880    | C10      | C13      | C14      | C15      | C21      |
|-----------------------------------|--------------------------------|--------------|-----|--------------------------|--------|--------|--------|--------|--------|--------|----------|----------|----------|----------|----------|
| Space cooling                     | A Condition Pdc (35°C - 27/19) | kW           |     | 315.85                   | 438.98 | 520.21 | 629.71 | 630.64 | 694.46 | 875.77 | 1,043.15 | 1,304.67 | 1,390.46 | 1,549.85 | 2,027.16 |
|                                   | ηs,c                           | %            |     | 3.416                    | 3.376  | 3.54   | 3.448  | 3.508  | 3.428  | 3.508  | 3.636    | 3.448    | 3.624    | 3.552    | 3.608    |
| SEER                              |                                |              |     | 8.74                     | 8.64   | 9.05   | 8.82   | 8.97   | 8.77   | 8.97   | 9.29     | 8.82     | 9.26     | 9.08     | 9.22     |
| Cooling capacity                  | Nom.                           | kW           |     | 316                      | 439    | 520    | 609    | 631    | 694    | 876    | 1,043    | 1,305    | 1,390    | 1,550    | 2,027    |
| Power input                       | Cooling Nom.                   | kW           |     | 67.1                     | 90     | 103    | 126    | 132    | 127    | 177    | 205      | 270      | 257      | 312      | 384      |
| Capacity control                  | Method                         |              |     | Variable                 |        |        |        |        |        |        |          |          |          |          |          |
|                                   | Minimum capacity               | %            |     | 30                       | 21     | 16     | 15     | 18     | 11     | 7      | 9        | 8        | 6        |          |          |
| EER                               |                                |              |     | 4.71                     | 4.88   | 5.05   | 4.82   | 4.77   | 5.44   | 4.92   | 5.08     | 4.82     | 5.4      | 4.96     | 5.27     |
| IPLV                              |                                |              |     | 9.31                     | 9.25   | 9.61   | 9.29   | 9.44   | 9.77   | 9.45   | 9.83     | 9.1      | 9.96     | 9.38     | 9.34     |
| Dimensions                        | Unit                           | Height       | mm  | 1,865                    |        | 1,985  |        | 2,200  |        | 2,083  |          | 2,200    |          | 2,225    |          |
|                                   |                                | Width        | mm  | 1,055                    |        | 1,160  |        | 1,270  |        | 1,510  |          | 1,270    |          | 1,510    |          |
|                                   |                                | Depth        | mm  | 3,625                    |        | 3,585  |        | 3,580  |        | 4,793  |          | 3,580    |          | 4,768    |          |
| Weight                            | Unit                           | kg           |     | 1,700                    | 1,900  | 2,000  | 2,850  | 2,600  | 2,900  | 3,600  | 4,350    | 3,800    | 4,750    | 5,500    |          |
|                                   | Operation weight               | kg           |     | 1,973                    | 2,216  | 2,347  | 3,197  | 3,344  | 3,102  | 3,458  | 4,292    | 5,020    | 4,579    | 5,540    | 6,570    |
| Water heat exchanger - evaporator | Type                           |              |     | Flooded shell and tube   |        |        |        |        |        |        |          |          |          |          |          |
|                                   | Water volume                   | l            |     | 70                       | 96     | 107    | 134    | 156    | 199    | 272    | 229      | 317      | 444      |          |          |
|                                   | Water flow rate                | Cooling Nom. | l/s | 15.3                     | 21.3   | 25.2   | 29.1   | 30.6   | 33.7   | 42.5   | 50.5     | 63.1     | 67.4     | 75       | 98.1     |
|                                   | Water pressure drop            | Cooling Nom. | kPa | 47.3                     | 40.9   | 44.8   | 59.1   | 51.1   | 61.7   | 64.5   | 59.3     | 59.5     | 74.4     | 61.3     | 70.4     |
| Water heat exchanger - condenser  | Type                           |              |     | Flooded Shell & Tube     |        |        |        |        |        |        |          |          |          |          |          |
|                                   | Water volume                   | l            |     | 83                       | 100    | 120    | 170    | 188    | 211    | 263    | 360      | 320      | 443      | 604      |          |
|                                   | Water flow rate                | Cooling Nom. | l/s | 18.4                     | 25.4   | 30.1   | 34.9   | 36.8   | 39.6   | 50.8   | 60.2     | 75.9     | 79.5     | 89.9     | 116      |
|                                   | Water pressure drop            | Cooling Nom. | kPa | 49.4                     | 60.4   | 54.5   | 74.2   | 46.5   | 42.1   | 51.5   | 50.4     | 56.1     | 53.4     | 43.7     | 55.7     |
| Compressor                        | Type                           |              |     | Driven vapour compressor |        |        |        |        |        |        |          |          |          |          |          |
|                                   | Quantity                       |              |     | 1                        | 2      | 1      | 2      | 3      | 2      | 3      |          |          |          |          |          |
| Sound power level                 | Cooling Nom.                   | dBA          |     | 87.9                     | 88.9   | 89.9   | 91.1   | 91.0   | 91.1   | 92.0   | 93.3     | 93.5     | 94.3     | 94.8     | 95.8     |
| Sound pressure level              | Cooling Nom.                   | dBA          |     | 69.6                     | 70.6   | 71.6   | 72.6   | 73.6   | 74.6   | 73.9   | 75.6     | 75.2     | 76.2     |          |          |
| Refrigerant                       | Type/GWP                       |              |     | R-513A/631               |        |        |        |        |        |        |          |          |          |          |          |
|                                   | Charge                         | kg           |     | 120                      | 150    | 120    | 140    | 190    | 180    | 200    | 230      | 240      | 230      | 270      |          |
|                                   | Circuits                       | Quantity     |     | 1                        |        |        |        |        |        |        |          |          |          |          |          |
| Piping connections                |                                | mm           |     | 139.7                    |        | 168.3  |        | 219.1  |        |        |          |          |          |          |          |
|                                   |                                | mm           |     | 139.7                    |        | 168.3  |        | 219.1  |        |        |          |          |          |          |          |

# Water cooled centrifugal chiller, high efficiency, standard sound

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design
- Optimised for highly efficient R-513A refrigerant and compatible with next generation refrigerants



Centrifugal compressor

Microtech 4



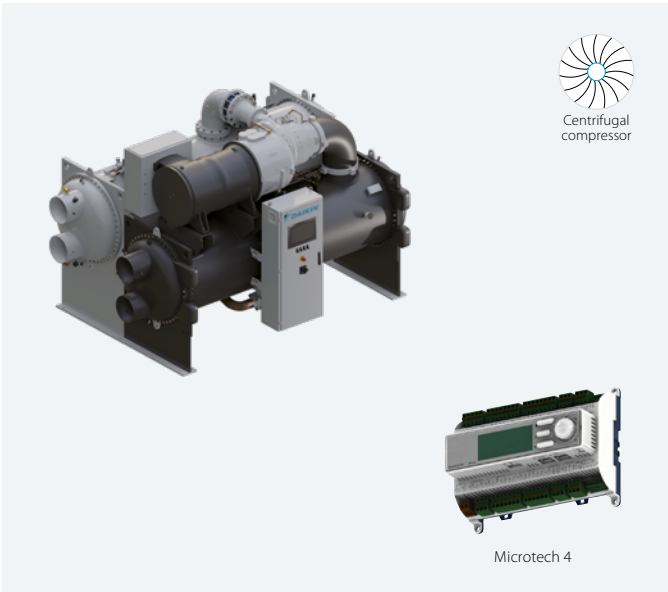
EWWS-DZXE

| Cooling Only                      |                                   |          |      | EWWS-DZXE                |        | 340    | 470    | 570    | 670    | 680    | 740    | 950      | C10      | C11      | C14      | C15      | C17      | C22  |
|-----------------------------------|-----------------------------------|----------|------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|----------|----------|----------|------|
| Space cooling                     | A Condition Pdc<br>(35°C - 27/19) |          |      | kW                       | 336.72 | 471.24 | 558.03 | 676.76 | 674.49 | 728.69 | 941.72 | 1,024.55 | 1,117.07 | 1,419.67 | 1,450.66 | 1,652.82 | 2,128.56 |      |
|                                   | ηs,c                              |          |      | %                        | 3.428  | 3.396  | 3.568  | 3.452  | 3.52   | 3.464  | 3.532  | 3.444    | 3.664    | 3.464    | 3.668    | 3.556    | 3.656    |      |
| SEER                              |                                   |          |      |                          | 8.77   | 8.69   | 9.12   | 8.83   | 9      | 8.86   | 9.03   | 8.81     | 9.36     | 8.86     | 9.37     | 9.09     | 9.34     |      |
| Cooling capacity                  | Nom.                              |          |      | kW                       | 337    | 471    | 558    | 671    | 674    | 729    | 942    | 1,025    | 1,117    | 1,420    | 1,451    | 1,653    | 2,129    |      |
| Power input                       | Cooling                           | Nom.     |      | kW                       | 70.2   | 95.1   | 108    | 139    |        | 129    | 188    | 209      | 215      | 287      | 259      | 324      | 385      |      |
| Capacity control                  | Method                            |          |      | Variable                 |        |        |        |        |        |        |        |          |          |          |          |          |          |      |
|                                   | Minimum capacity                  |          |      | %                        | 29     | 20     |        | 15     |        | 17     | 10     |          |          | 7        | 9        | 7        | 6        |      |
| EER                               |                                   |          |      |                          | 4.8    | 4.96   | 5.15   | 4.8    | 4.85   | 5.61   | 5.01   | 4.89     | 5.18     | 4.94     | 5.6      | 5.1      | 5.52     |      |
| IPLV                              |                                   |          |      |                          | 9.22   | 9.2    | 9.59   | 9.11   | 9.31   | 9.78   | 9.38   | 9.25     | 9.81     | 9.12     | 9.98     | 9.4      | 9.41     |      |
| Dimensions                        | Unit                              | Height   |      | mm                       | 1,865  |        |        | 1,985  |        |        |        | 2,082    | 2,200    | 2,083    | 2,200    | 2,225    | 2,290    |      |
|                                   |                                   | Width    |      | mm                       | 1,055  |        |        | 1,160  |        |        |        | 1,510    | 1,270    | 1,510    | 1,270    | 1,510    |          |      |
|                                   |                                   | Depth    |      | mm                       | 3,625  |        |        | 3,585  |        |        | 4,688  | 3,580    | 4,793    | 3,580    | 4,768    | 4,812    |          |      |
| Weight                            | Unit                              |          |      | kg                       | 1,750  | 1,950  | 2,050  | 2,850  |        | 2,650  | 3,000  | 4,400    | 3,700    | 4,700    | 3,900    | 5,100    | 5,900    |      |
|                                   | Operation weight                  |          |      | kg                       | 2,033  | 2,276  | 2,407  | 3,197  | 3,354  | 3,162  | 3,568  | 4,970    | 4,412    | 5,370    | 4,699    | 5,890    | 6,920    |      |
| Water heat exchanger - evaporator | Type                              |          |      | Flooded shell and tube   |        |        |        |        |        |        |        |          |          |          |          |          |          |      |
|                                   | Water volume                      |          |      | l                        | 70     | 96     | 107    |        | 134    |        | 156    | 207      | 199      | 272      | 229      | 317      | 444      |      |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s                      | 16.3   | 22.9   | 27     | 32     | 32.7   | 35.3   | 45.6   | 49.6     | 54.1     | 68.8     | 70.3     | 80.1     | 102      |      |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa                      | 54.1   | 47.2   | 51.3   | 71.4   | 58.3   | 67.8   | 74.1   | 61.2     | 67.7     | 70.6     | 80.8     | 69.7     | 77.4     |      |
| Water heat exchanger - condenser  | Type                              |          |      | Flooded Shell & Tube     |        |        |        |        |        |        |        |          |          |          |          |          |          |      |
|                                   | Water volume                      |          |      | l                        | 83     | 100    | 120    |        | 170    | 188    | 211    | 326      | 263      | 360      | 320      | 443      | 604      |      |
|                                   | Water flow rate                   | Cooling  | Nom. | l/s                      | 19.6   | 27.3   | 32.1   | 38.4   | 39.2   | 41.4   | 54.4   | 59.5     | 64.2     | 82.3     | 82.5     | 95.5     | 121      |      |
|                                   | Water pressure drop               | Cooling  | Nom. | kPa                      | 56.5   | 69.8   | 62.4   | 90.8   | 53.2   | 46.1   | 59.4   | 43.6     | 57.7     | 66.4     | 57.7     | 49.5     | 60.7     |      |
| Compressor                        | Type                              |          |      | Driven vapour compressor |        |        |        |        |        |        |        |          |          |          |          |          |          |      |
|                                   | Quantity                          |          |      |                          | 1      |        |        | 2      |        | 1      | 2      | 3        | 2        | 3        | 2        | 3        |          |      |
| Sound power level                 | Cooling                           | Nom.     |      | dBA                      | 87.9   | 88.9   | 89.9   | 91.1   | 91.0   | 91.1   | 92.0   | 92.6     | 93.3     | 93.5     | 94.3     | 94.8     | 95.8     |      |
| Sound pressure level              | Cooling                           | Nom.     |      | dBA                      | 69.6   | 70.6   | 71.6   | 72.6   |        |        | 73.6   |          | 73       | 74.6     | 73.9     | 75.6     | 75.2     | 76.2 |
| Refrigerant                       | Type/GWP                          |          |      | R-513A/631               |        |        |        |        |        |        |        |          |          |          |          |          |          |      |
|                                   | Charge                            |          |      | kg                       | 160    | 130    |        | 200    |        | 190    | 200    | 270      | 250      | 270      | 250      | 300      | 355      |      |
|                                   | Circuits                          | Quantity |      |                          | 1      |        |        |        |        |        |        |          |          |          |          |          |          |      |
| Piping connections                |                                   |          |      | mm                       | 139.7  |        |        | 168.3  |        |        |        | 219.1    |          |          |          |          |          |      |
|                                   |                                   |          |      | mm                       | 139.7  |        |        | 168.3  |        |        |        | 219.1    |          |          |          |          |          |      |



# Water cooled centrifugal chiller, high efficiency, standard sound

- Single Compressor chiller
- High part load efficiency with Daikin VFD Unit Mounted - Refrigerant Cooled
- Low Harmonics VFD option
- Excellent Full Load performance
- Unloading down to 10% without Hot Gas By Pass
- Refrigerant flexibility with R-134a, R-1234ze and R-513A
- Reduced refrigerant quantity
- Touch screen operator panel
- Unit mounted control panel
- Rapid restart for fast start-up after power loss
- Heat pump mode



**Daikin Centrifugal Compressor**  
No compromises in application flexibility

- Proven compressor technology (Daikin centrifugal compressor design)



### Rapid restart for fast start-up after power loss

The UPS keeps the controller switched on enabling the unit to quickly reach the full load. Focused on data centre and all applications where the cooling capacity supply is crucial.



**Reduced refrigerant quantity**  
Thanks to the new high efficiency tubes and more compact heat exchanger design.



**Heat pump mode**  
With reversibility on water side whenever a heating load is demanded thus improving suitability for applications with changing load during the year.



| Cooling Only     |           | DWSC C | DWSC C                              | DWSC C                              |
|------------------|-----------|--------|-------------------------------------|-------------------------------------|
| Cooling capacity | Min./Max. | kW     | 1,050 (1)/4,500 (1)                 | 700 (1)/3,300 (1)                   |
| Compressor       | Type      |        | Single stage centrifugal compressor | Single stage centrifugal compressor |
| Refrigerant      | Type      |        | R-134a/R-513A                       | R-1234(ze)                          |
| Power supply     | Frequency | Hz     | 50/60                               | 50/60                               |

(1) AHRI conditions

# Water cooled centrifugal chiller, high efficiency, standard sound

- Lower equipment, installation and annual operating costs than two single compressor chillers
- Main components can be removed or repaired without shutting down the unit as the chiller has two of everything (compressors, lubrication systems, control systems and starters)
- Compact design for small footprint and minimised installation space
- Unloading to 5% of full load provides improved stability of the chilled water temperature and less harmful cycling of compressors
- High efficiency flooded type shell and tube evaporator/condensers



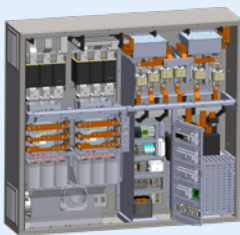
**Free cooling operation**  
Allows to reduce the power consumption generated by traditional mechanical cooling.

Touch screen operator panel



The touch screen operator panel is visually intuitive and easy to use, improving operator productivity. Key status updates and control information are accessible instantly at a glance.

Unit mounted control panel



DWDC-C

| Cooling Only     |           | DWDC C | DWDC C                              | DWDC C                              |
|------------------|-----------|--------|-------------------------------------|-------------------------------------|
| Cooling capacity | Min./Max. | kW     | 2,100 (1)/9,000 (1)                 | 1,400 (1)/6,700 (1)                 |
| Compressor       | Type      |        | Single stage centrifugal compressor | Single stage centrifugal compressor |
| Refrigerant      | Type      |        | R-134a/R-513A                       | R-1234(ze)                          |
| Power supply     | Frequency | Hz     | 50/60                               | 50/60                               |

(1) AHRI conditions

# Accessories - Chillers

|             |             |                                                          | Air-cooled chillers  |                    |         |         |         |              |              |           |
|-------------|-------------|----------------------------------------------------------|----------------------|--------------------|---------|---------|---------|--------------|--------------|-----------|
| Panels      |             |                                                          | EWAA~BVP<br>EWYA~BVP | EWAA~DA<br>EWYA~DA | EWYD~BZ | EWYD~4Z | EWYT~B- | EWAH~TZB & C | EWAD~TZB & C | EWAD~T- C |
| EKDICMPAB   | (a) (b) (c) | iCM Primary Basic                                        |                      |                    |         |         |         |              |              | •         |
| EKDICMPAL   | (a) (b) (c) | iCM Primary for evaporator peripherals Light             |                      |                    |         |         |         | •            | •            | •         |
| EKDICMPAF   | (a) (b) (c) | iCM Primary for evaporator peripherals Full              |                      |                    |         |         |         | •            | •            | •         |
| EKDICMPWL   | (a) (b) (c) | iCM primary Evaporator/Condenser Light                   |                      |                    |         |         |         |              |              |           |
| EKDICMPWF   | (a) (b) (c) | iCM primary Evaporator/Condenser Full                    |                      |                    |         |         |         |              |              |           |
| EKDICMCTL   | (a) (b)     | iCM Cooling towers Light                                 |                      |                    |         |         |         |              |              |           |
| EKDICMCTF   | (a) (b)     | iCM Cooling towers Full                                  |                      |                    |         |         |         |              |              |           |
| EKDICMPABIO | (a) (b)     | iCM Primary Basic with IO third party chiller            |                      |                    |         |         |         | •            | •            | •         |
| EKDICMPALIO | (a) (b)     | iCM Primary Evaporator Light with IO third party chiller |                      |                    |         |         |         | •            | •            | •         |
| EKTSMS      |             | Temperature sensor for master/slave configuration        |                      |                    |         |         | •       |              |              |           |
| EKRUMCL1    |             | User Interface                                           | •                    |                    |         |         |         |              |              |           |

|                                      |                                                                  | Air-cooled chillers  |                    |         |         |         |              |              |           |
|--------------------------------------|------------------------------------------------------------------|----------------------|--------------------|---------|---------|---------|--------------|--------------|-----------|
| Serial Cards & Communication Modules |                                                                  | EWAA~BVP<br>EWYA~BVP | EWAA~DA<br>EWYA~DA | EWYD~BZ | EWYD~4Z | EWYT~B- | EWAH~TZB & C | EWAD~TZB & C | EWAD~T- C |
| EKAC200J                             | Serial Card RS485/Modbus                                         |                      |                    | ●       |         |         |              |              |           |
| EKACBAC                              | Ethernet Card BACnet                                             |                      |                    | ●       |         |         |              |              |           |
| EKACLONP                             | Serial Card LON FTT 10                                           |                      |                    | ●       |         |         |              |              |           |
| EKACRS232                            | Serial Card RS232 Modem Interface (single unit only)             |                      |                    | ●       |         |         |              |              |           |
| EKACWEB                              | Web Server Card                                                  |                      |                    | ●       |         |         |              |              |           |
| EKACBACMSTP                          | Serial Card BACnet MSTP                                          |                      |                    | ●       |         |         |              |              |           |
| EKACBACCERT                          | Serial Card BACnet pre-loaded IP/Ethernet (centrifugal chillers) |                      |                    |         |         |         |              |              |           |
| EKACMSTPCERT                         | Serial Card BACnet pre-loaded MSTP (centrifugal chillers)        |                      |                    |         |         |         |              |              |           |
| EKCM200J                             | ModBus RTU communication module                                  |                      |                    |         | ●       |         |              |              |           |
| EKCM LON                             | LON communication module                                         |                      |                    |         | ●       | ●       | ●            | ●            | ●         |
| EKCMBACMSTP                          | BACnet/MSTP communication module                                 |                      |                    |         | ●       |         |              |              |           |
| EKCMBACIP                            | BACnet/IP communication module                                   |                      |                    |         | ●       | ●       | ●            | ●            | ●         |
| EKDOSMWO                             | Daikin on Site Modem without M2M card                            |                      |                    | ●       | ●       | ●       | ●            | ●            | ●         |

|                             |                                                                | Air-cooled chillers  |                    |         |         |         |              |              |           |
|-----------------------------|----------------------------------------------------------------|----------------------|--------------------|---------|---------|---------|--------------|--------------|-----------|
| Other Systems & Accessories |                                                                | EWAA~BVP<br>EWYA~BVP | EWAA~DA<br>EWYA~DA | EWYD~BZ | EWYD~4Z | EWYT~B- | EWAH~TZB & C | EWAD~TZB & C | EWAD~T- C |
| EKCON                       | Converter RS485 to RS232                                       |                      |                    | ●       |         |         |              |              |           |
| EKCONUSB                    | Converter RS485 to USB                                         |                      |                    | ●       |         |         |              |              |           |
| EKMODEM                     | Fixed modem                                                    |                      |                    | ●       |         |         |              |              |           |
| EKGSMOD                     | GSM modem                                                      |                      |                    | ●       |         |         |              |              |           |
| EKRUPCJ                     | Remote display kit                                             |                      |                    | ●       |         |         |              |              |           |
| EKRUPCS                     | Local/remote display HMI                                       |                      |                    |         | ●       | ●       | ●            | ●            | ●         |
| EKPWPPOEXT                  | PlantWatchPro I/O extension module for hardwiring and retrofit |                      |                    | ●       |         |         |              |              |           |
| EKGWWEB                     | Gateway web (Ethernet LAN SNMP)                                |                      |                    | ●       |         |         |              |              |           |
| EKGWMODEM                   | Gateway for modem                                              |                      |                    | ●       |         |         |              |              |           |
| EKAC10C                     | Address card for connection to BMS or Remote user interface    |                      |                    |         |         |         |              |              |           |
| EKRUMCA                     | Remote installed user interface                                |                      |                    |         |         |         |              |              |           |
| EKLS2                       | (d) Low noise kit 22/28/35/45/55/65 Hp-units                   |                      |                    |         |         |         |              |              |           |
| ECB2MUCW                    | (e) Controller kit                                             |                      |                    |         |         |         |              |              |           |
| ECB3MUCW                    | (e) Controller kit                                             |                      |                    |         |         |         |              |              |           |
| EKRPIAHT                    | (g) Digital input/output PCB                                   |                      |                    |         |         |         |              |              |           |
| EKRUAHTB                    | (g) Remote user interface                                      |                      |                    |         |         |         |              |              |           |
| DTA104A62                   | (f) External control adapter                                   |                      |                    |         |         |         |              |              |           |
| BHGP26A1                    | (f) Digital pressure gauge kit                                 |                      |                    |         |         |         |              |              |           |
| EKQDP2M016                  | (g) Differential Pressure Sensor 4-20 mA 0-160 kPa             |                      |                    |         |         | ●       | ●            | ●            | ●         |
| EKQDP2M020                  | (g) Differential Pressure Sensor 4-20 mA 0-250 kPa             |                      |                    |         |         | ●       | ●            | ●            | ●         |
| EKQDP2M040                  | (g) Differential Pressure Sensor 4-20 mA 0-400 kPa             |                      |                    |         |         | ●       | ●            | ●            | ●         |
| EKQDP2M060                  | (g) Differential Pressure Sensor 4-20 mA 0-600 kPa             |                      |                    |         |         | ●       | ●            | ●            | ●         |
| EKDAPCONT                   | Containerization of one unit                                   |                      |                    | ●       | ●       | ●       | ●            | ●            | ●         |
| EKDAPSTF                    | Containerization of additional units in the same container     |                      |                    | ●       | ●       | ●       | ●            | ●            | ●         |

## Notes:

- (a) Price **does not** include commissioning of panel; if commissioning is required please refer to RN17-041
- (b) iCM panels work in **cooling mode only**; heat pump versions, total heat recovery and Free cooling options on A/C and W/C chillers **are not compatible**
- (c) In case you are ordering iCM panels please add corresponding modbus RTU communication module (EKCM200J or EKAC200J) for each chiller unit controller
- (d) For 45/55/65 Hp-units 2 pieces are needed
- (e) Only available for modular units (EWWP~KAW1M)
- (f) Price available in SAP system
- (g) Differential pressure sensor are specific for iCM panels in variable primary flow management

