



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

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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.

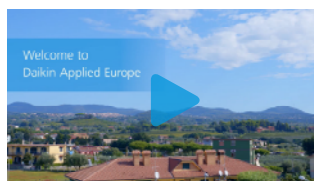
Staff who understand you

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

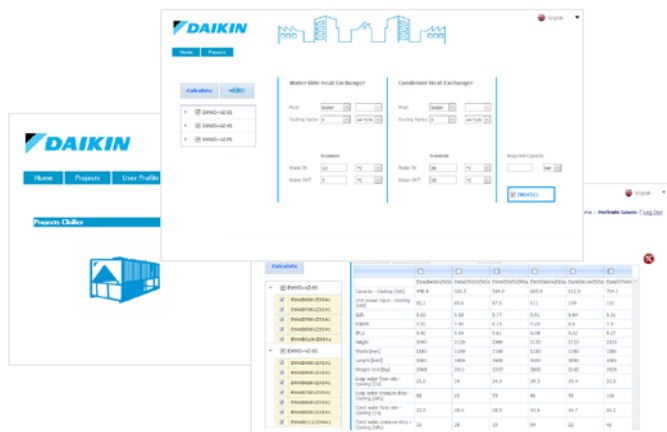
Daikin Europe offers you a variety of building modelling, selection, simulation and quotation software tools to support your sales.

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/>



Online support

Business portal

Experience our extranet, designed to support you proactively:

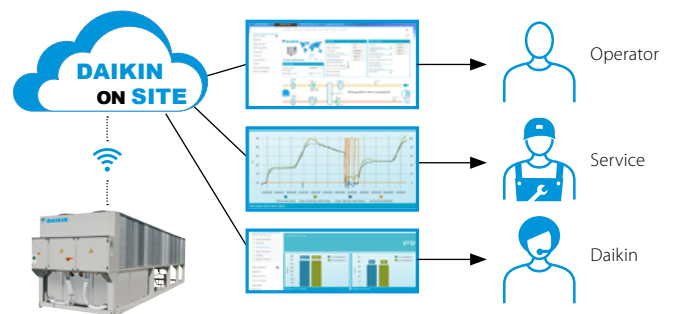
- find what you need in seconds with a powerful search
- customise options to see only the info relevant to you
- access on mobile or desktop at **my.daikin.eu**

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



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.



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

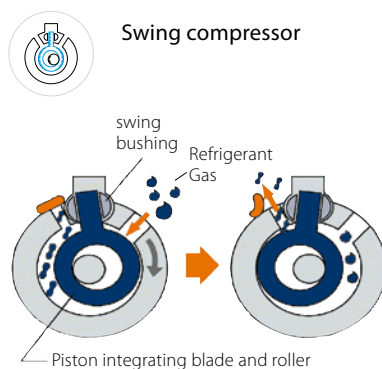
To drastically reduce your energy consumption and CO₂ emissions, it's not enough to simply make your equipment more efficient. You also need to manage how and when it's used.



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.

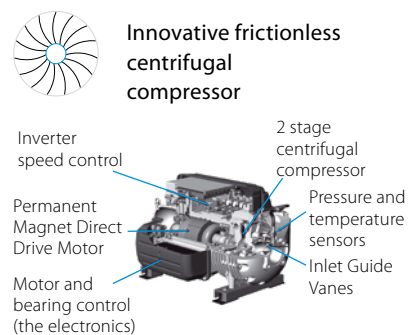


The mini chiller series is equipped with a swing inverter compressor. This innovative Daikin design has fewer moving parts, ensuring smoother, more reliable operation with low vibration and reduced noise levels. The high-efficiency motor lowers energy consumption, leading to energy cost savings.

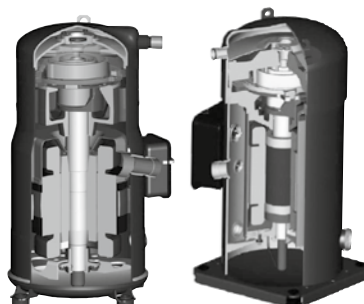


Characteristics:

- 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.

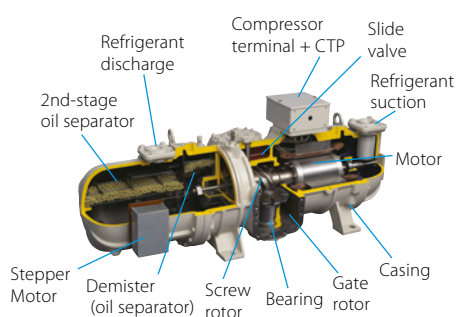


The single-screw stepless compressor for high capacity

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.



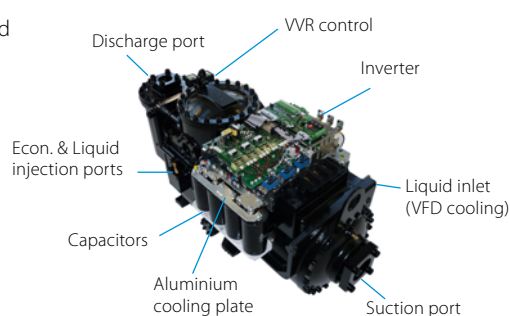
Screw compressor with integrated inverter

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
Chillers
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
- 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

Website

- 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



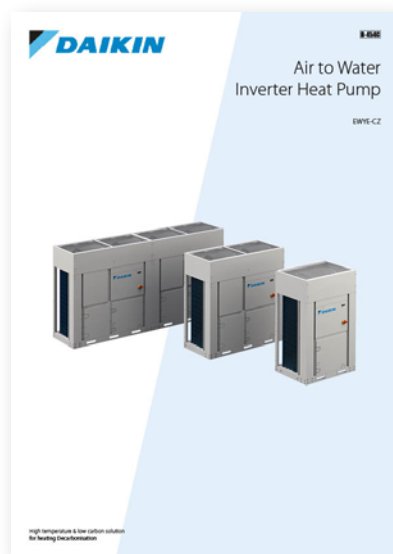
www.daikin.eu/en_us/product-group/chillers



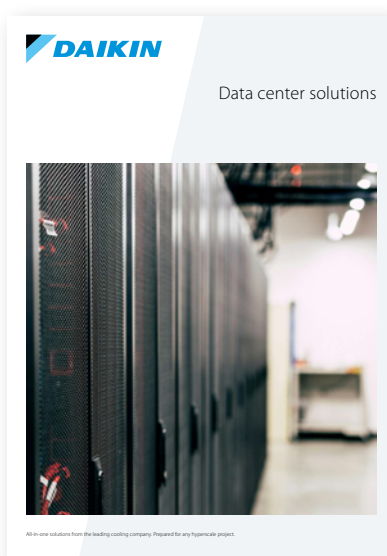
<https://catalogues.daikin.eu>

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
 Water-To-Water	 Screw compressor		400 - 2,100 kW	+90°C
			106 - 243 kW	+75°C
	 Scroll compressor		100 - 1,280 kW	+60°C
			1,580 - 9,000 kW	+46°C
	 Centrifugal compressor		790 - 4,500 kW	+46°C
			300 - 1,900 kW	+55°C
 Air-To-Water	 Scroll compressor		100 - 2,000 kW	+75°C
			16 - 70 kW	+70°C
	 Screw compressor		82 - 1,275 kW	+60°C
			400 - 800 kW	+60°C
			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
Large Systems		330 - 16,000 kW	+90°C
Small Systems		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
 Water cooled	 Screw compressor	EWWH-VZ 	330 - 2,000 kW	-8°C
		EWWH-J- 	89 - 284 kW	-10°C
	 Scroll compressor	EWWT-Q- 	200 - 1,280 kW	-15°C
	 Centrifugal compressor	DWDC 	1,500 - 9,000 kW	-9°C
		DWSC 	790 - 4,500 kW	-9°C
 Air cooled	 Screw compressor	EWYS-4Z 	400 - 800 kW	-8°C
		EWA/FH-TZ 	171 - 2,312 kW	-12°C
	 Scroll compressor	EWYT-B- 	82- 1,275 kW	-13°C
		 Centrifugal compressor	EWWH-DZ 	227 - 2,100 kW

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		

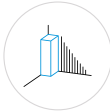


Integrated Active Harmonic Filter

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
 EWYE-CZ	16 - 70 kW	+70°C	 EWYK-QZ	100 - 2,000 kW	+75°C
 EWYT-CZ	16 - 90 kW	+60°C	 EWYT-B-	82 - 1,275 kW	+60°C
 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 CO₂ 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°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°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	Inverter	Free cooling	Compressor			Water heat exchanger		Efficiency version				Sound version		
						Swing	Scroll	Screw	Plate **	Single pass shell and tube	Blue	Silver	Gold	Platinum	Standard	Low	Reduced
Cooling only																	
EWAA-DV3P		R-32	1														
EWAA-DV3P-H/ DW1P-H		R-32	1														
EWAT~CZN/P/H		R-32	1-2														
EWAT-B B		R-32	1-2														
EWAT-B C		R32	1-2														
EWFT-B C		R32	1-2														
EWAH-TZ D		R32	1-2														
EFWH-TZ D		R1234ze(E)	1-2														
EWAS-TZ D		R-513A	1-2														
EWFS-TZ D		R-513A	1-2														
EWAD-TZ D		R-143a	1-2														
EWFD-TZ D		R-134a	1-2														
Heat pump																	
EWYA-DV3P		R-32	1														
EWYA-DV3P-H/ DW1P-H		R-32	1														
EWYT~CZN/P/H		R-32	1-2														
EWYT-B		R-32	1-2														
EWYT-CZI EWYT-CZO		R-32	1-2														
EWYE-CZ		R-454C	2														
EWYD~BZ		R-134a	2-3														
Condensing unit																	
ERAD~E-		R-134a	1														
Multipurpose unit																	
EWYS-4Z		R-513A	2														

* (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)														
EWWQ-KCW1N		R-410a	1-2		•			•			•			•
EWWD~J-		R-134a	1			•		•			•			•
EWWH-J-		R1234ze	1			•		•			•			•
EWWS-J-		R-513A	1			•		•			•			•
EWWD-VZ		R-134a	1-2	•		•				Flooded	•	•	•	•
EWWH-VZ		R-1234ze(E)	1-2	•		•				Flooded	•	•	•	•
EWWS-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				•			•		•		•
EWWH-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: Brazed plate heat exchanger

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	Pdc	kW		4.52	5.09	5.44
	35°C						
	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	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 ³ /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	Pdc	kW		4.52	5.09	5.44
	35°C						
	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



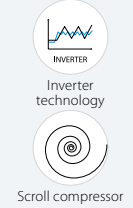
EWAA-DWIP-H

Cooling Only				EWAA	011	014	016
Space cooling	A Condition	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 ³ /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			%	197		200	205	201	213	210	205	198	
SEER	ηs,c				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	
	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
	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				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	400
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		2			
	Type				Direct propeller					
	Quantity				8		12			
Air flow rate	Cooling	Nom.	l/s		50,990		76,470			
	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		2			
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm		168.3mm		219.1mm	
Unit	Starting current				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.			dB(A)	100	100.7	101	101.8	103.7 104.8
Sound pressure level	Cooling	Nom.			dB(A)	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			A	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 1,120
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.			dB(A)	106.2	104.1	104.9	105.8 106.6	
Sound pressure level	Cooling	Nom.			dB(A)	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			A	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.

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- 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	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								
Fan	Quantity			1							2	1
	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								
Piping connections	Charge			kg	40	45	50	60	65	70	75	
	Circuits			Quantity	1				2			1
Unit	Evaporator water inlet/outlet (OD)			88.9mm				139.7mm		168.3mm	139.7mm	
	Starting current			Max	A	0						
	Running	Cooling	Nom.	A	182.7	211.5	234.4	261.8	296.6	349.9	314.5	
Power supply	current			Max	A	231	272	294	357	372	421	411
	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	
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								
Fan	Quantity			2		1	2	1	2			
	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								
Piping connections	Charge			kg	75	80		90		95	105	
	Circuits			Quantity	2		1	2	1	2		
Unit	Evaporator water inlet/outlet (OD)			168.3mm		139.7mm		168.3mm	139.7mm	168.3mm		
	Starting current			Max	A	0						
	Running	Cooling	Nom.	A	378.9	409.6	358.4	427.8	404.3	472.9	461.3	
Power supply	current			Max	A	450	481	467	523	474	566	610
	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	1,359					
Power input	Cooling	Nom.				kW	274.7	321.4	354.4	375	408.9	477.3					
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										
							2,238										
							7,960										
Weight	Unit	Height				mm	9,040										
							11,200										
							12,280										
Operation weight	kg				kg	6,151		6,623		6,816		7,297		8,260		8,742	
						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															
Air flow rate	Cooling	Nom.				l/s	89,233				16		20		22		
							101,908				127,467		140,213				
Sound power level	Cooling	Nom.				dB(A)	100.2	99.6	100.2	100.5	101	102.5	104.2				
Sound pressure level	Cooling	Nom.				dB(A)	78.7	78	78.7	78.9	79.1	79.9	81.3				
Operation range	Air side	Cooling	Min.~Max.				°CDB	-20 ~42									
Refrigerant	Type/GWP	R-513A/630															
	Charge				kg	115	135	140	145	160	175	190					
	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	948	1,187				
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	695.5			
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							
							2,238							
							12,280							
Weight	Unit	Height				kg	9,920		10,323		13,360			
							11,136		11,549		11,564		12,066	
Air heat exchanger	Type	Microchannel												
Compressor	Type	Screw compressor												
Fan	Quantity	2												
	Type	Direct propeller												
	Quantity	22												
Air flow rate	Cooling	Nom.				l/s	140,213				24		152,960	
							105.3				103.3		104.1	
Sound power level	Cooling	Nom.				dB(A)	82.5	80.5	81.2	81.8	82.7	83.5		
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	1,475	1,608		
Power supply	Phase/Frequency/Voltage					Hz/V	3~/50/400							

Inverter screw with GOLD efficiency. Standard sound.

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- 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
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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			
Unit	Evaporator water inlet/outlet (OD)	88.9mm										139.7mm	168.3mm	139.7mm
Unit	Starting current	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	
	Type	Direct propeller												
	Quantity	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			
Unit	Evaporator water inlet/outlet (OD)	168.3mm										139.7mm	168.3mm	139.7mm
Unit	Starting current	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				

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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			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.	I/s	75,540			84,983		94,425	
Sound power level	Cooling	Nom.	dB(A)	93.7	89.9	90.9	91.5	92.3	92.8	94.4	
Sound pressure level	Cooling	Nom.	dB(A)	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
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.	I/s	94,425	103,868	113,320				
Sound power level	Cooling	Nom.	dB(A)	96.3	95.2	92.6	93.1	93.6	94.2		
Sound pressure level	Cooling	Nom.	dB(A)	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						

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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	97.7
Sound pressure level	Cooling	Nom.			dBA	78.2	81	81.9	74.2	74.5	74.9
Operation range	Air side	Cooling	Min.~Max.		°CDB				-20 ~42		
Refrigerant	Type/GWP					R-513A/630					
	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	181.1	212.7	238.2	242	258.8	280
	current	Max			A	220	258	285	293	352	404
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	732.9	
Power input	Cooling	Nom.			kW	150.8	167.7	180.9	205.7	223.4	
Capacity control	Method					Stepless					
	Minimum capacity				%	13	12	11	10		
EER						3.526	3.42	3.428	3.292	3.281	
IPLV						6.4	6.3		6.1	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				-20 ~42		
Refrigerant	Type/GWP					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				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	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 Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm					
Unit	Starting current Max A				0					
	Running	Cooling	Nom. A		485.2	511.9	559.9	581.2	630.4	653.8
	current	Max A			573	616	672	709	761	796
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				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			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 Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm		273mm			
Unit	Starting current Max A				0					
	Running	Cooling	Nom. A		748.1	756.2	796.3	798.5	882	
	current	Max A			845	893	951	1,039	1,135	
Power supply	Phase/Frequency/Voltage Hz/V				3~/50/400					

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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						
Refrigerant	Type/GWP				R-134a/630						
	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 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						
Refrigerant	Type/GWP				R-134a/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 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	Max		current	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	Max		current	A	845	893		951		1,039
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 Cooling drop			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

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- 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
	35°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				Step							
	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
	current	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
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- 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 Cooling drop			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															
	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	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										
Fan	Type	Quantity				3	4		3	4		5		6		
		Quantity				Direct propeller										
		Air flow rate	Nom.	l/s		6		7	8	9	10	12	13	14		
	Speed			rpm				35,535	40,612	45,688	50,765	60,918	65,994	71,071		
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
		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

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Cooling Only				EWAT-B-XRB	085	115	145	180	185	200	220	230	250	280
Space cooling	A Condition Pdc 35°C ηs,c			kW	81.86	108.59	135.62	168.03	166.16	187.56	208.44	224.52	238.22	264.73
				%	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	3,247	
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

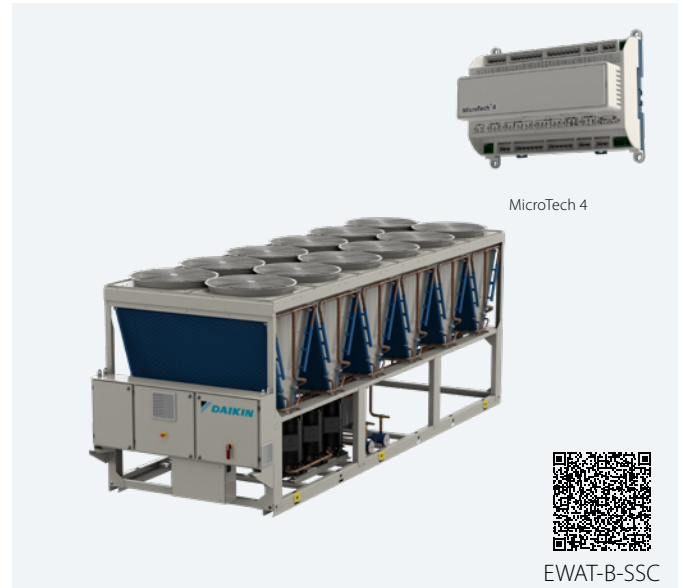
Cooling Only				EWAT-B-XRB	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition	Pdc		kW	284.94	284.65	301.84	328.88	346.48	394.41	439.5	501.51	571.63	621.1	659.28
	ηs,c			%	185.8	183	173.8	180.6	176.2	181.8	179	183	187.4		185.4
SEER					4.72	4.65	4.42	4.59	4.48	4.62	4.55	4.65	4.76		4.71
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							
	Quantity				3	4	3	4		5		
Fan	Type				Direct propeller							
	Quantity				4				6			8
	Air flow rate	Cooling	Nom.	l/s	25,490	25,500	25,490	38,240			50,980	
Sound power level	Cooling	Nom.		dBA	94.0	93.8	94.5	95.1	95.6	95.9	96.7	
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				
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm							139.7mm
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							

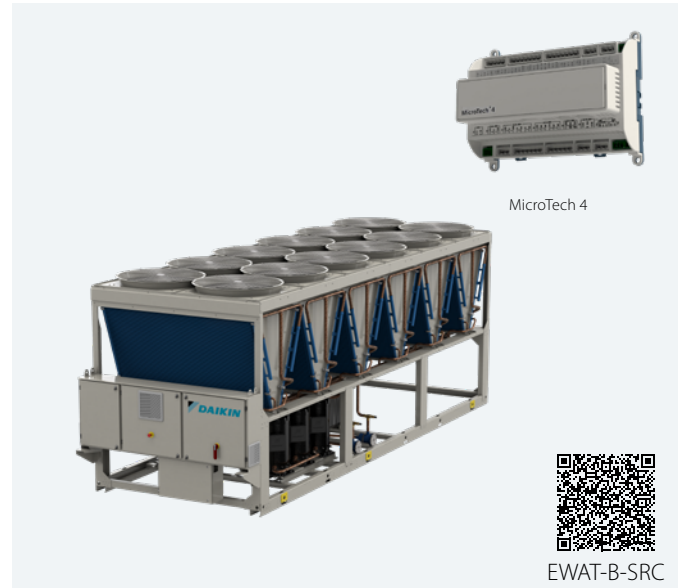
Cooling Only				EWAT-B-SS	620	670	730	790	860	960	
Space cooling	A Condition 35°C Pdc			kW	622.34	668.92	734.97	791.18	857.22	961.63	
	ηs,c			%	188.9	188.1	190.4	190.8	192.6	189.0	
SEER					4.797	4.778	4.834	4.844	4.889	4.801	
Cooling capacity	Nom.			kW	622.34	668.92	734.97	791.18	857.22	961.63	
Power 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						
	Quantity				6		7		8		
Fan	Type				Direct propeller						
	Quantity				8		10		12		
	Air flow rate	Cooling	Nom.	l/s	50,980		63,730		76,480		
Sound power level	Cooling	Nom.		dBA	97.0	97.3	97.9	98.1	98.6	99.0	
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	
Piping connections	Circuits			Quantity	2						
	Evaporator water inlet/outlet (OD)				139.7mm						
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	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

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- Performance monitoring;
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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 ηs,c			kW	240.1	259.9	297.62	308.38	334.14	373.60	415.25	463.29
SEER				%	201.4	187.4	197.5	185.0	189.2	192.8	193.5	193.1
					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		mm	2,535							
		Width		mm	2,238							
		Depth		mm	2,514					3,594		
Weight	Unit			kg	2,107	2,151	2,076	2,206	2,200	2,618	2,801	2,924
	Operation weight			kg	2,127	2,171	2,099	2,234	2,228	2,646	2,837	2,960
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				4		3		4		5	
Fan	Type				Direct propeller							
	Quantity				5	6	4			6		
	Air flow rate	Cooling	Nom.	l/s	21,460		21,470	21,460	21,470	32,200		
Sound power level	Cooling	Nom.		dBA	88		87.9	87.8	88.1	89.5	89.6	89.7
Sound pressure level	Cooling	Nom.		dBA	68	69	68.8		69.0	69.8	69.9	70.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52							
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	18		22	25	30	31	35	39
	Circuits	Quantity			2		1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm							
Unit	Starting current	Max		A	464	482	693	697	735	750	792	838
	Running current	Cooling	Nom.	A	151	165	195	210	236	232	272	319
	current	Max		A	199	216	245	249	287	302	344	390
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400							

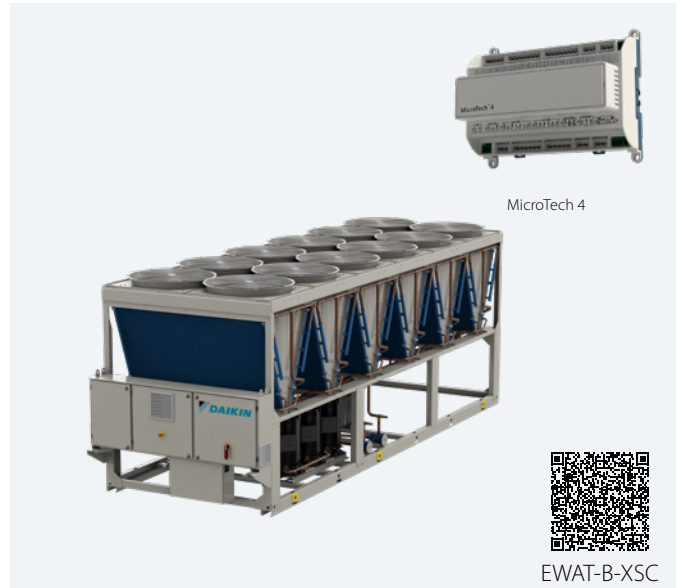
Cooling Only				EWAT	570B-SRC2	620B-SRC2	670B-SRC2	730B-SRC2	790B-SRC2	860B-SRC2	960B-SRC2
Space cooling	A Condition 35°C Pdc ηs,c			kW	553.35	605.02	647.77	714.95	768.57	835.75	933.57
				%	202.0	200.3	197.9	205.2	206.3	208.4	201.8
SEER					5.124	5.083	5.022	5.206	5.232	5.284	5.121
Cooling capacity	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.		dB(A)	90.8	90.9	91.0	91.9	91.9	92.6	92.7
Sound pressure level	Cooling	Nom.		dB(A)	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	77
	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
	Running	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

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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														
Weight	Unit			kg	1,877	1,939	2,002	2,046	1,963	2,488	2,664	2,466	2,666	2,585	9,088	
	Operation weight			kg	1,891	1,959	2,030	2,074	1,986	2,516	2,692	2,489	2,694	2,610	6,350	
Air heat exchanger	Type			Microchannel												
Compressor	Type			Scroll compressor												
Fan	Quantity			4												
	Type			Direct propeller												
	Quantity			4												
	Air flow rate	Cooling	Nom.	l/s	25,500											
					25,490											
Sound power level	Cooling	Nom.		dBA	91		92		93.5	94		94.8		95.3	99.5	
Sound pressure level	Cooling	Nom.		dBA	72		73		74.4	74		75.1		75.6	77.6	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52											
Refrigerant	Type/GWP				R-32/675											
	Charge			kg	19.2											
	Circuits	Quantity			2											
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm										139.7mm	
Unit	Starting current	Max		A	304	429	468	464	647	492	532	703	540	746	1,240	
	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											

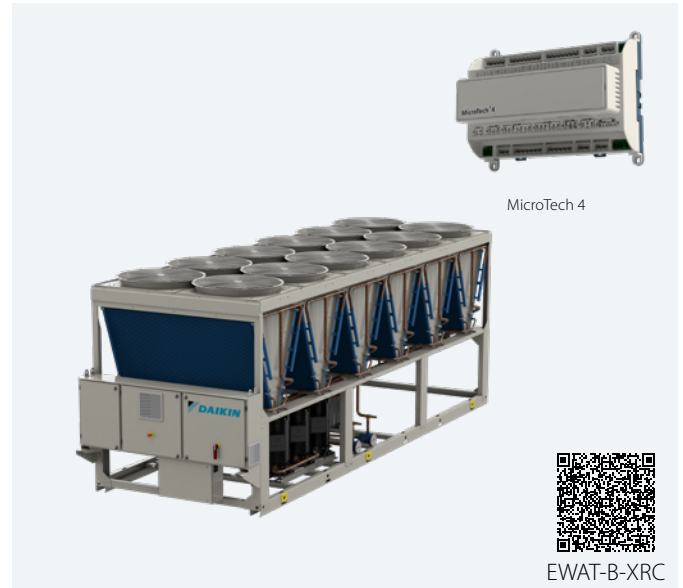
Cooling Only				EWAT	390B-XSC2	450B-XSC2	510B-XSC2	540B-XSC2	590B-XSC2	630B-XSC2	720B-XSC2	760B-XSC2	830B-XSC2	880B-XSC2		
Space cooling	A Condition 35°C Pdc			kW	387.85	448.05	512.31	539.39	586.74	631.42	716.56	762.50	834.45	880.39		
	ηs,c			%	184.9	187.4	189.4	192.5	192.4	192.6	193.9	194.2	193.8	193.5		
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			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												
	Type			Direct propeller												
	Quantity			6												
	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											

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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 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										
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										
Fan	Type				Direct propeller										
		Quantity			4										
	Air flow rate	Cooling	Nom.	l/s	18,900										
Sound power level	Cooling	Nom.		dBA	83										
Sound pressure level	Cooling	Nom.		dBA	64										
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52										
Refrigerant	Type/GWP				R-32/675										
	Charge			kg	19.2										
	Circuits			Quantity	2										
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm										
Unit	Starting current	Max		A	304	429	446	464	647	492	703	523	540	746	1,240
		Running		A	103	119	131	152	143	164	178	205	205	213	570
		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 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									
Fan	Type				Direct propeller									
		Quantity			6									
	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		A	225	249	286	287	322	356	393	428	463	498
		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.

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- 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	520.7		
Power input	Cooling	Nom.			kW	91.31	100.1	115.5	136.4	159.9	167.6		
Capacity control	Method			Stepless									
Minimum capacity				%	22	19	17	22	23	11	22		
EER					3	3.2	3	3.1	2.9	3	3.1		
IPLV					4.4	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	4,032		
	Operation weight			kg	2,677	3,169		3,583.7	3,593.7	4,552	4,160.1		
Air heat exchanger	Type			Microchannel									
Compressor	Type			Screw compressor									
Quantity				1							2	1	
Fan	Type			Direct propeller									
	Quantity			4	6				8				
	Air flow rate	Cooling	Nom.	l/s	25,490	38,240				50,980	50,990		
Sound power level	Cooling	Nom.	dBA		97	98	100	97	99	98			
Sound pressure level	Cooling	Nom.	dBA		78		80	78	77	79	77		
Operation range	Air side	Cooling	Min.~Max.	°CDB	5~46								
Refrigerant	Type/GWP			R-134a/1,430									
Charge				kg	35	45		55	65	70			
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				Cooling	Nom.	A	179.1	196.2	217.6	248.4	283.5	336.9	298.8
current				Max	A	220	262	284	346	362	411	400	
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	674	753.1		
Power input	Cooling	Nom.			kW	188.4	206	198.2	230.6	216.2	231.7		
Capacity control	Method			Stepless									
Minimum capacity				%	10		19	17	10		13		
EER					2.9	2.8	2.9	2.7	2.9	2.8	3.3		
IPLV					4.4		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	6,055		
Air heat exchanger	Type			Microchannel									
Compressor	Type			Screw compressor									
Quantity				2							1		2
Fan	Type			Direct propeller									
	Quantity			8				10		12			
	Air flow rate	Cooling	Nom.	l/s	50,980		50,990		63,730		76,480		
Sound power level	Cooling	Nom.	dBA		99	100	98	101	102	99			
Sound pressure level	Cooling	Nom.	dBA		79	80	78	80	82	78			
Operation range	Air side	Cooling	Min.~Max.	°CDB	5~46								
Refrigerant	Type/GWP			R-134a/1,430									
Charge				kg	75	80		85		95	105		
Circuits				Quantity	2			1		2			
Piping connections	Evaporator water inlet/outlet (OD)			168.3mm			139.7mm			168.3mm			
Unit	Starting current	Max	A		0								
Running				Cooling	Nom.	A	367.3	392.4	344.2	392.3	412.1	450	434.7
current				Max	A	440	471	457	464	512	556	600	
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				
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	5,670	6,142		6,816	7,297	7,779	8,260	
	Operation weight				kg	6,065	6,748	6,763	7,523	8,014	8,506	9,002	
Air heat exchanger	Type	Microchannel											
Compressor	Type	Screw compressor											
					2								
Fan	Type	Direct propeller											
	Quantity	12							14	16	18	20	
Sound power level	Air flow rate	Cooling	Nom.		l/s	76,480			89,230	101,980	114,720	127,460	
Sound pressure level	Cooling	Nom.				dBA	100	99	100	101		102	104
Sound pressure level	Cooling	Nom.				dBA	79	78	79			80	81
Operation range	Air side	Cooling	Min.~Max.				°CDB	5 ~46					
Refrigerant	Type/GWP	R-134a/1,430											
Charge					kg	115	125	140	150	160	170	185	
Circuits					2								
Piping connections	Evaporator water inlet/outlet (OD)	219.1mm											
Unit	Starting current	Max				A	0						
					A	488.5	536.5	610.2	645.8	674.8	710.6	767.8	
					A	668		751	817	884	930	948	
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	1,954		
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	2.7	
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	12,086	
Air heat exchanger	Type	Microchannel										
Compressor	Type	Screw compressor										
					2							
Fan	Type	Direct propeller										
	Quantity	20				22				24		
Sound power level	Air flow rate	Cooling	Nom.		l/s	127,460	140,210			152,960		
Sound pressure level	Cooling	Nom.				dBA	105	106	104	105	106	107
Sound pressure level	Cooling	Nom.				dBA	82	83	81	82	83	84
Operation range	Air side	Cooling	Min.~Max.				°CDB	5 ~46				
Refrigerant	Type/GWP	R-134a/1,430										
Charge					kg	195	215	230	245	260	270	
Circuits					2							
Piping connections	Evaporator water inlet/outlet (OD)	273mm										
Unit	Starting current	Max				A	0					
					A	837.3	899.1	919.5	1,011	1,088	1,193	
					A	1,120	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.

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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	490.9	522.4	530.6	
Power input	Cooling	Nom.	kW	84.44	98.36	112.8	131	151.7	162.1	161	
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	706.1	760.3	
Power input	Cooling	Nom.	kW	177.6	194.1	188.4	202.9	218.2	235.4	225.2	
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	5.3	6	
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							
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	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	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	2								
	Piping connections	Evaporator water inlet/outlet (OD)			168.3mm	219.1mm					
Unit	Starting current	Max		A	0						
	Running	Cooling	Nom.	A	489.7	555	601.4	630.5	683.6	733.8	796.2
	current	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	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	140,210				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	2							
	Piping connections	Evaporator water inlet/outlet (OD)			273mm					
Unit	Starting current	Max		A	0					
	Running	Cooling	Nom.	A	871.1	848	931.7	1,005	1,101	1,206
	current	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.

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- Premium energy efficiency both at full and part load conditions
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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	146.6	
Capacity control	Method	Stepless										
Minimum capacity					%	22	19	17	28	23	13	
						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	
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	
	Operation weight				kg	3,335	3,868	3,873	4,687	4,697	5,673	
Air heat exchanger	Type	Microchannel										
Compressor	Type	Screw compressor										
Quantity					1						2	1
					Direct propeller							
Fan	Type					6	8		10		12	
	Quantity											
Air flow rate	Cooling	Nom.				l/s	33,930	45,240		56,540		
Sound power level	Cooling	Nom.				dBA	97	98	103	96	97	100
Sound pressure level	Cooling	Nom.				dBA	80	82	83	75	76	79
Operation range	Air side	Cooling	Min.~Max.				°CDB	-20 ~46				
Refrigerant	Type/GWP	R-134a/1,430										
	Charge				kg	40	45	50	60	70		
	Circuits	Quantity					1					2
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	188.5	216.8	235.8	247.6	
	current	Max				A	224	261	289	314	342	
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	
Capacity control	Method	Stepless										
Minimum capacity					%	12	11	19	10	30	10	
						3.5		3.3		3.4	3.3	3.2
IPLV						6.1	6.2	6.5	6.1	5.7	6.2	
Dimensions	Unit	Height				mm	2,553					
		Width				mm	2,238					
		Depth				mm	6,880	7,960	6,880	7,960	6,880	7,960
Weight	Unit				kg	5,348	5,829	5,136	5,829	5,805	5,946	
	Operation weight				kg	5,683	6,169	5,297.3	6,174	5,976.3	6,344	
Air heat exchanger	Type	Microchannel										
Compressor	Type	Screw compressor										
Quantity					2						1	1
					Direct propeller							
Fan	Type					12	14	12	14	12	14	
	Quantity											
Air flow rate	Cooling	Nom.				l/s	67,860	79,170	68,280	79,170	68,280	
Sound power level	Cooling	Nom.				dBA	100	101	105	101	99	
Sound pressure level	Cooling	Nom.				dBA	80	81	77	83	78	
Operation range	Air side	Cooling	Min.~Max.				-20 ~46					
Refrigerant	Type/GWP	R-134a/1,430										
Charge				kg	80	85		90	95	100	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	348.1	378.7	359.4	420.8	
	current	Max				A	429	457	452	498	520	
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	1,129	1,194	
Power input	Cooling	Nom.				kW		233.2	250.8	282.1	292.3	325.1	336.7	370.1
Capacity control	Method				Stepless									
Minimum capacity					%		10	14	13	12	11		10	
							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	105		
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				2								
	Evaporator water inlet/outlet (OD)				219.1mm									
Unit	Starting current	Max		A		0								
	Running	Cooling	Nom.	A		470.4	496.7	543.6	565	613.9	637.5	687		
	current	Max		A		573	626	683	720	782	744	803		
Power supply	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	472.2	528.4	590.4
Capacity control	Method				Stepless							
Minimum capacity					%		10	15	14	13	12	
							3.2	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		12,061		
	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	105	
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				2						
	Evaporator water inlet/outlet (OD)				219.1mm		273mm					
Unit	Starting current	Max		A		0						
	Running	Cooling	Nom.	A		737.2	777.9	774.1	852	934.8	1,026	
	current	Max		A		851	899	997	1,103	1,217	1,330	
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50/400					

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EWAD-TZXR					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
IPLV					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							
Fan	Quantity				1					2	1	
	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		90		
Sound pressure level	Cooling	Nom.		dBA	68		71	67	68	69		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46							
Refrigerant	Type/GWP				R-134a/1,430							
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							
Unit	Running	Cooling	Nom.	A	193.6	221.9	241.5	252.5	299.5	326	323.5	
	current	Max		A	224	261	289	314	342	389	404	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400							

EWAD-TZXR					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			
IPLV					6.2		6.6	6.1	5.8	6.2	5.8	
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							
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	56,660	66,100	56,660	66,100	56,660	66,100	56,660	
Sound power level	Cooling	Nom.		dBA	90	91	93	91	90	92	90	
Sound pressure level	Cooling	Nom.		dBA	69		72	69	68	70	69	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46							
Refrigerant	Type/GWP				R-134a/1,430							
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							
Unit	Running	Cooling	Nom.	A	356.7	387.5	368.6	431.6	396.2	454.1	436.4	
	current	Max		A	429	457	452	498	520	535	568	
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	1,117	1,179
Power input	Cooling	Nom.				kW	231.9	250.8	283.9	292.8	327.6	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				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.		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	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		15	14	13	12	
EER						3.2	3.1	3.4	3.2	3	2.9	
IPLV						6.4		6.1	5.9	6.2	5.8	
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	94,420	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						

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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
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
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
Fan	Quantity				1					
	Type				Direct propeller					
	Quantity				8	10		12		
	Air flow rate	Cooling	Nom.	l/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 current	Cooling	Nom.	A	174	204	229	233	249	269
	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					
Fan	Quantity				2					
	Type				Direct propeller					
	Quantity				14		16			
	Air flow rate	Cooling	Nom.	l/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 current	Cooling	Nom.	A	318	345	374	414	442	
	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
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
Air heat exchanger	Type	Microchannel								
Compressor	Type	Screw compressor								
Fan	Quantity	2								
	Type	Direct propeller								
	Quantity	18						20		22
	Air flow rate	Cooling	Nom.		l/s	101,780		113,080		140,200
Sound power level	Cooling	Nom.				dBA	105	99	100	101
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								
Piping connections	Charge				kg	110	120	130	140	150
	Circuits	Quantity								
	Evaporator water inlet/outlet (OD)	2								
Unit	Starting current	Max				A	219.1mm			
Power supply	Running	Cooling	Nom.		A	466	490	534	555	601
	current	Max				A	573	616	672	709
	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	
Power input	Cooling	Nom.				kW	357.4	387.4	409.1	
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	
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	140,200		152,940		
Sound power level	Cooling	Nom.				dBA	105	108	106	102
Sound pressure level	Cooling	Nom.				dBA	78		79	
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46				
Refrigerant	Type/GWP	R-134a/1,430								
Piping connections	Charge				kg	165	180	190	205	220
	Circuits	Quantity								
	Evaporator water inlet/outlet (OD)						2			
Unit	Starting current	Max				A	273mm			
Power supply	Running	Cooling	Nom.		A	674	721	759		837
	current	Max				A	845	893	951	1,039
	Phase/Frequency/Voltage				Hz/V	3~/50/400				

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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	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	47,210		56,660		
Sound power level	Cooling	Nom.				dBA	88	89	90	88	89
Sound pressure level	Cooling	Nom.				dBA	68		69	67	68
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	176.6	207.4	232.7	236.3	253.2	273.8
	current	Max				A	220	258	285	293	352
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	6.5	
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	66,100		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	422.7	448	
	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		
IPLV					6.8		7.1		6.9		
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		
Sound power level	Air flow rate	Cooling	Nom.		l/s	84,980			94,420		
	Cooling	Nom.				dB(A)	94	90	91	92	103,870
Sound pressure level	Cooling	Nom.				dB(A)	72	68	69	70	93
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
Piping connections	Circuits				2						
	Quantity				219.1mm						
Unit	Evaporator water inlet/outlet (OD)				0						
	Starting current	Max				A	475.1	501.2	547.7	568.5	616.6
Power supply	Running	Cooling	Nom.		A	573	616	672	709	761	643
	current	Max				A	573	616	672	709	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	1,544	
Power input	Cooling	Nom.				kW	357.7	389.9	410.4	469.4	
Capacity control	Method				Stepless						
	Minimum capacity				%	10			15	14	
EER					3.3			3.5			
IPLV					6.7			6.6			
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	12,156	
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	220	
Piping connections	Circuits				2						
	Quantity				273mm						
Unit	Evaporator water inlet/outlet (OD)				219.1mm						
	Starting current	Max				A	0				
Power supply	Running	Cooling	Nom.		A	692.2	742.3	780.3	784.9	867	
	current	Max				A	845	893	951	1,039	1,135

Inverter screw cooling only with BLU efficiency. Standard sound.

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- 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
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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	417.2
Power input				Cooling	Nom.	kW	79.49	92.42	117.9	140.7
Capacity control				Method			Stepless			
				Minimum capacity	%	19	17	14	23	12
EER						2.961	2.766	2.552	3.052	2.832
IPLV						4.484	4.419	4.369	4.683	4.411
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	3,486
				Operation weight		kg	2,589	2,594	2,629	3,536
Air heat exchanger				Type			Microchannel			
Compressor				Type			Screw compressor			
				Quantity			1	2	1	
Fan				Type			Direct propeller			
				Quantity			4	6	8	6
				Air flow rate	Cooling	Nom.	l/s	25,490	25,493	38,240
Sound power level				Cooling	Nom.		dBA	97.5	99.8	101.2
Sound pressure level				Cooling	Nom.		dBA	78.41	80.65	82.11
Operation range				Air side	Cooling	Min.~Max.	°CDB	5~46		
Refrigerant				Type/GWP				R-1234(ze)/7		
				Charge		kg	30	35	40	50
				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
				current	Max	A	204	227	268	291
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
Power input				Cooling	Nom.	kW	135.6	176.2	162	204.3
Capacity control				Method			Stepless			
				Minimum capacity	%	11	17	10	15	10
EER						3.137	2.547	3.009	2.447	2.658
IPLV						4.407	4.537	4.451	4.523	4.492
Dimensions				Unit	Height	mm	2,553			
					Width	mm	2,238			
					Depth	mm	4,720	3,640	4,720	5,800
Weight				Unit		kg	3,751	3,486	3,941	3,871
				Operation weight		kg	3,811	3,546	4,006	3,941
Air heat exchanger				Type			Microchannel			
Compressor				Type			Screw compressor			
				Quantity			2	1	2	2
Fan				Type			Direct propeller			
				Quantity			8	6	8	10
				Air flow rate	Cooling	Nom.	l/s	50,987	38,240	50,987
Sound power level				Cooling	Nom.		dBA	100.4	100.3	100.6
Sound pressure level				Cooling	Nom.		dBA	80.12	80.61	80.29
Operation range				Air side	Cooling	Min.~Max.	°CDB	5~46		
Refrigerant				Type/GWP				R-1234(ze)/7		
				Charge		kg	60	65	70	75
				Circuits	Quantity		2	1	2	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
				current	Max	A	358	396	406	435
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	302.2	350.9	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		
	Air flow rate	Cooling	Nom.		l/s	63,733	76,480			89,233		101,980		
Sound power level	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						2							
	Quantity													
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	801	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	
	Air flow rate	Cooling	Nom.		l/s	101,980	114,720		127,467		140,213		
Sound power level	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						2						
	Quantity												
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.

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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.	I/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.	I/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	1,113
Power input	Cooling	Nom.		kW	236.7	254.1	278.9	294	322.6	341.1	365.2
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		mm	2,553						
		Width		mm	2,238						
		Depth		mm	6,880	7,960		9,040	10,120	11,200	
Weight	Unit			kg	5,370	5,852	6,096	6,577	7,059	7,629	8,315
	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						
	Quantity				2						
Fan	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	104.1	104.8
Sound pressure level	Cooling	Nom.		dBA	78.52	78.95	79.25	79.73	80.8	81.53	82.27
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	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	456.1	483.2	520.7	547.3	594.5	627.5	665.5
	current	Max		A	581	634	677	729	802	852	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	1,542	1,606
Power input	Cooling	Nom.		kW	416.6	409.9	455.3	495.6	512.4	566.3
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		mm	2,553					
		Width		mm	2,238					
		Depth		mm	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					
	Quantity				2					
Fan	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	107.1	107.5
Sound pressure level	Cooling	Nom.		dBA	84.42	81.86	82.7	83.33	83.98	84.4
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
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- New single screw compressor geometry allowing performance optimisation
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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	348.7	397.5		
Power input	Cooling	Nom.	kW		67.79	74.71	82.02	92.55	99.59	122.1		
Capacity control	Method		Stepless									
Minimum capacity					%	22	20	18	16	25	22	
EER					3.243	3.111	3.354	3.234	3.501	3.256		
IPLV					6.035	5.988	6.156	6.085	6.684	6.588		
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	4,078
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	22,620		33,930		45,240		
Sound power level	Cooling	Nom.	dBA		97.3	97.5	100.2	100.8	97.3	99.8		
Sound pressure level	Cooling	Nom.	dBA		78.13	78.36	80.42	81.11	77.01	79.55		
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	Quantity	1									
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm						139.7mm	
Unit	Starting current		Max		A		0					
	Running	Cooling	Nom.	A		145.1	157.4	175.8	194.2	211.3	243.1	
	current	Max	A		172	183	214	236	269	310		
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	543.9	602.4		
Power input	Cooling	Nom.	kW		135.2	139.9	159.8	152.6	155.1	178.4		
Capacity control	Method		Stepless									
Minimum capacity					%	10	19	17	30	10		
EER					3.488	3.331	3.156	3.503	3.508	3.376		
IPLV					6.223	6.632	6.422	5.95	6.381	6.28		
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	5,242
Air heat exchanger	Type		Microchannel									
Compressor	Type		Screw compressor									
Fan	Quantity		2									
	Type		Direct propeller									
	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	100.9	105.5		
Sound pressure level	Cooling	Nom.	dBA		79.43	83.77	80.97	78.1	79.75	84.34		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46							
Refrigerant	Type/GWP		R-1234(ze)/7									
	Charge		kg		65		70	75	85			
	Circuits	Quantity	2									
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm						168.3mm	
Unit	Starting current		Max		A		0					
	Running	Cooling	Nom.	A		299	276.8	306.6	296.2	334.4	375.7	
	current	Max	A		364	357	394	414	406	448		
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
Sound pressure level	Cooling	Nom.	dBA		79.81	76.91	78.9	79.3		79.61
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP		R-1234(ze)/7							
Charge					kg	85	90	95	105	110
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	9,913	
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
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.

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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									
					Quantity			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		
		current	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									
					Quantity	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		
		current	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	780.8	831.9
Power input	Cooling	Nom.	kW		194.4	186.7	211.1	220	225.2	250.2
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	
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
Fan	Quantity				1		2			
	Type				Direct propeller					
	Quantity				10		12		14	
Air flow rate					Cooling	Nom.	l/s	47,213	56,660	
Sound power level	Cooling	Nom.	dBA		90.2	89.1	90.2	91	91.6	92.4
Sound pressure level	Cooling	Nom.	dBA		69.5	67.94	69.04	69.4	69.68	70.53
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
Charge					kg	85	90	95	105	110
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	366.7	401.1	433.8
current					Max	A	491	472	517	527
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	11
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					
	Type				Direct propeller					
	Quantity				16		18		20	
Air flow rate					Cooling	Nom.	l/s	75,540	84,983	94,425
Sound power level	Cooling	Nom.	dBA		94.1	95.6	94.1	92.7	93.4	94.2
Sound pressure level	Cooling	Nom.	dBA		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					
Charge					kg	125	135	150	165	175
Circuits					Quantity	2				
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm		273mm			
Unit	Starting current				Max	A	0			
Running					Cooling	Nom.	A	547.1	592.9	642.8
current					Max	A	655	702	787	902
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				

Inverter screw with PLATINUM efficiency. Standard sound.

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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	23	22	
						3.6	3.618	3.499	3.853	3.651	3.612	
IPLV						6.688	6.689	6.595	7.437	7.042		
Dimensions	Unit	Height				mm	2,553					
		Width				mm	2,238					
		Depth				mm	3,640	4,720		5,800		
Weight	Unit				kg	3,212	3,724		4,569			
		Operation weight			kg	3,242	3,759	3,764	4,614	4,624	5,110	
Air heat exchanger	Type				Microchannel							
Compressor	Type				Screw compressor							
Fan	Quantity				1							
	Type				Direct propeller							
	Quantity				6	8		10		12		
Sound power level	Cooling	Nom.				l/s	33,930	45,240		56,540	67,848	
				dBA	97.5	98.1	102.6	95.7	98.7	100.1		
Sound pressure level	Cooling	Nom.				dBA	77.74	77.83	82.3	75	77.94	
Operation range	Air side	Cooling	Min.~Max.				°CDB	-20 ~46				
Refrigerant	Type/GWP				R-1234(ze)/7							
	Charge				kg	30	35	40	45	55	60	
	Circuits				Quantity							
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm						139.7mm	
Unit	Starting current				Max	A	0					
	Running	Cooling	Nom.				A	142.3	166.7	184.7	196.1	
	current	Max				A	183	214	235	258	301	
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	15	
						3.561	3.737	3.721	3.736	3.843	
IPLV						7.093	6.797	6.932	6.385		
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	6,151	
		Operation weight			kg	5,201	5,227	5,714	5,880	6,236	
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
Fan	Quantity				1	2		1		2	
	Type				Direct propeller						
	Quantity				12		14		12	14	
Sound power level	Cooling	Nom.				l/s	67,848		79,170	67,848	
				dBA	104.6	100.6	100.9	99	96.6		
Sound pressure level	Cooling	Nom.				dBA	83.39	79.43	79.35	77.82	
Operation range	Air side	Cooling	Min.~Max.				°CDB	-20 ~46			
Refrigerant	Type/GWP				R-1234(ze)/7						
	Charge				kg	65	70	75		85	
	Circuits				Quantity						
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm		168.3mm		139.7mm		
Unit	Starting current				Max	A	0				
	Running	Cooling	Nom.				A	278	298.6	322.3	
	current	Max				A	367	375	406	425	
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
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		6,241	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		Max		A				
	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		Max		A				
	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				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	89.1	90.2	
Sound pressure level	Cooling	Nom.		dBA	67.73	68.06		71.23	66.88	68.33	69.04	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46							
Refrigerant	Type/GWP				R-1234(ze)/7							
	Charge			kg	30	35		40	45	55	60	
Circuits Quantity					1							
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm							
Unit	Starting current		Max		A	0						
	Running	Cooling	Nom.		A	145.5	169.8		188.1	199.8	235.9	
	current	Max				A	183	214	235	258	301	
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	156.8	
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				12		14		12		14
Air flow rate	Cooling	Nom.		l/s	56,660		66,098		56,660		66,098
Sound power level	Cooling	Nom.		dBA	93.4	90.5		91	89.6	88.9	
Sound pressure level	Cooling	Nom.		dBA	72.28	69.38		69.43	68.42		67.29
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
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	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			
		Width				mm			
		Depth				mm			
Weight	Unit				kg	8,080		9,160	10,240
	Operation weight				kg	6,271		6,842	7,376
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				14		16		18
	Air flow rate	Cooling	Nom.		I/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			70.02	71.3
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	Cooling	Nom.		A	374.4	414.8	449.1	484.8
	current	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	1,204
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			
		Width				mm			
		Depth				mm			
Weight	Unit				kg	11,320		12,400	13,480
	Operation weight				kg	8,170		8,693	9,843
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				20		22		24
	Air flow rate	Cooling	Nom.		I/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			69.81	69.96
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	Cooling	Nom.		A	552.9	584.1	617.4	631.3
	current	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	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	2,535											
				Width	mm	2,238											
				Depth	mm	2,514											
Weight		Unit			kg	2,245	2,288	2,373	2,852	3,594	3,012	3,155	3,774	4,674	5,754		
		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				Microchannel											
Compressor		Type				Scroll compressor											
		Quantity				3	4	3	4	5	6						
Fan		Type				Direct propeller											
		Quantity				4			6			8			10		
		Air flow rate		Cooling	Nom.	I/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	-20 ~46											
Refrigerant		Type/GWP				R-32/675.0											
		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	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	3~/50/400											

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				Step					
		Minimum capacity		%		15		14		25	
EER					3.222		3.422		3.188		
IPLV					5.307		5.381		5.312		
Dimensions		Unit	Height	mm			2,535				
			Width	mm			2,238				
			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					Microchannel				
Compressor		Type					Scroll compressor				
		Quantity			7				8		
Fan		Type					Direct propeller				
		Quantity			10		12				
		Air flow rate	Cooling	Nom.	I/s	56,275		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			-20 ~46			
Refrigerant		Type/GWP					R-32/675.0				
		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	Cooling	Nom.	A	559		581.8		683.6	
		current	Max	A	631		684		772		
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 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;
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- Scroll compressors;
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- 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									
		Width		mm	2,238									
		Depth		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		561.6	
		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	Height		mm	2,535									
		Width		mm	2,238									
		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				
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 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	mm	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 Nom.	Max	A	490.5		536.1		577.5			
				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 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
$\eta_{s,c}$ (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
$\eta_{s,c}$ (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 $\eta_{s,c}$ 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.



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 _{s,c} (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 _{s,c} (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_{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°; 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
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- Refrigerant-cooled inverter mounted on the compressor across the entire range
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- 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 _{s,c} (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 _{s,c} (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_{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. ±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
η _{s,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	dB(a)	99	100	100	101	101	102
	Lw with + OP76b	dB(a)			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	6,427	6,936	7,956
	Operating weight (8)	kg	6,916	6,926	7,404	7,409	7,601	8,191
							935	9,356
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
η _{s,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	dB(a)	104	105	103	104	105	106
	Lw with + OP76b	dB(a)				102		107
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
								12,150
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 η_{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. ±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.

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- New single screw compressor geometry allowing performance optimisation
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- 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	190	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	780	
				A	782	720	744	851	803	899	997	
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	27.5	
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	60	
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	235	
				A	1,103	1,217	1,330	224	261	289	314	
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	
Power input	Cooling	Nom.				kW	183.64	172.98	192.57	190.54	203.72	
Capacity control	Method				Stepless							
Minimum capacity					%	23	12.5	11.5	21.5	10.5	19	
EER						3.79	4.2	4.05	3.91	4.01	3.64	
IPLV						6.548	6.305	6.193	6.747	6.275	6.544	
Dimensions	Unit	Height				mm	2,553					
						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	
	Operation weight				kg	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	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
Sound power level	Cooling	Nom.				dBA	97.5	100.1	100.3	100.1	100.6	
Sound pressure level	Cooling	Nom.				dBA	75.8	78.9	80.2	76.2	81.2	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46							
Refrigerant	Type/GWP				R-134A/1,430							
	Charge				kg	70		80	75		85	
	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	
	A				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	
Power input	Cooling	Nom.				kW	236.46	257.52	284.2	284.08	
Capacity control	Method				Stepless						
Minimum capacity					%	30	10	27.5	10	13.5	
EER						3.94	3.73	3.54	3.85	3.86	
IPLV						5.859	6.225	5.769	6.482	6.614	
Dimensions	Unit	Height				mm	2,553				
						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	
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	
Sound power level	Cooling	Nom.				dBA	99	102.3	99.8	104.6	
Sound pressure level	Cooling	Nom.				dBA	77.8	83.8	78.6	83.9	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134A/1,430						
	Charge				kg	95	100	105	110	120	
	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	
	A				520	535	568	573	626		
Power supply	Phase/Hz/V				3/50/400						

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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		2		2		1			
Piping connections	Evaporator water inlet/outlet (OD)					219.1		273		219.1	273		88.9		
Unit	Starting current				A	0									
	Running current				A	637	685	605	757	687	812	766	891	145	
	Cooling				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		1		2		2		
Piping connections	Evaporator water inlet/outlet (OD)					88.9		139.7		168.3				
Unit	Starting current				A	0								
	Running current				A	169	197	201	226		277	307	308	357
	Cooling				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
ηs,c (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		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
Dimensions		Length	2,560		3,640		4,720	3,640
		Width	2,238					
		Height	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	4,510
Water Connection Size		Ø mm	88.9			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	
ηs,c (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	232	
Minimum Water flow rate (10)		l/s	8.7	5.94	8.6	10.2	10.7	
Dimensions		Length	4,720	3,640	4,720	3,640	4,720	
		Width	2,238					
		Height	2,553					
Weight (8)	Unit (8)	kg	3,874	3,581	4,064	3,966	4,093	
	Operating weight (8)	kg	4,515	3,937.7	4,915	4,364.1	4,909	
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					497

(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_{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. ±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_{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°; 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 _{s,c} (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
Minimum Water flow rate (10)	l/s		7.6	7.6	8.5	5.94	8.7	5.94
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	4,090
	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 _{s,c} (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
Minimum Water flow rate (10)	l/s		8.7	10.2	8.6	10.2	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_{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. ±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 _{s,c} (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 _{s,c} (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_{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. ±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	97	100
	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		492

(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 _{s,c} (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	445
	Max Running Current (7)(8)(11)	A	491	472	517	527	579
	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 _{s,c} (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_{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°; 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.

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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-TZPSD



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 _{s,c} (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 _{s,c} (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	106	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_{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. ±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.

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- Refrigerant-cooled inverter mounted on the compressor across the entire range
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- 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	5.168	5.095			
Cooling capacity	Nom.				kW	1,244.3	1,343.45	1,446.68	1,570.26	1,721.26	1,797.14	1,969.93	2,035.59		
Power input	Cooling	Nom.				kW	442.65	453.87	475.26	520.64	574.33	633.02	687.1	679.21	
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	3			
IPLV					5.281	5.468	5.513	5.558	5.543	5.454	5.411	5.86			
Dimensions	Unit	Height				mm	2,553								
		Width				mm	2,238								
		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	9,561		
	Operation weight				kg	6,834	7,606	8,191	8,776	9,366	9,697	11,117	11,535		
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	104.1	
Sound pressure level	Cooling	Nom.				dBA	78.9	79.1		79.6	81.2	82.3	83.4	81.2	
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	230		
	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	1,060		
	current	Max				A	751	817	884	930	948	1,120	1,200	1,227	
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	4.921			
Cooling capacity	Nom.				kW	2,107.09	2,314.18	2,312.53	353.32	412.41	447.62	528.72	571.33		
Power input	Cooling	Nom.				kW	739.85	872.62	887.73	116.76	124.07	144.81	172.62	194.86	
Capacity control	Method				Stepless										
	Minimum capacity				%	11.5	10.5	10	21.5	19	16.5	21.5	23		
EER					2.85	2.65	2.61	3.03	3.32	3.09	3.06	2.93			
IPLV					5.754	5.648	5.583	5.084	5.463	5.375	5.565	5.295			
Dimensions	Unit	Height				mm	2,553								
		Width				mm	2,238								
		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	3,917		
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	96.7	
Sound pressure level	Cooling	Nom.				dBA	82	82.7	83.5	78.3	78.2	80.3	77.6	77	
Operation range	Air side	Cooling	Min.~Max.		°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630										
	Charge				kg	245	260	270	35	45		55	65		
	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	311		
	current	Max				A	1,340	1,475	1,608	220	262	284	346	362	
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				1			2			
Fan	Type				Direct propeller						
	Quantity				8			12			
	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						

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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.		dB(A)	100.2	100.5	101	102.5	104.2	105.3	103.3	104.1	104.9	105.8
Sound pressure level	Cooling	Nom.		dB(A)	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)				219.1				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	1					2	1	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.		dB(A)	106.6	97.8	98.3	100.2	97.7	97.1	99.3	98	99.5	100.7
Sound pressure level	Cooling	Nom.		dB(A)	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								
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.	I/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								

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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	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	100.3
Sound pressure level	Cooling	Nom.				dBA	83.3	77.8	83.8	78.6	83.9	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	569
					A	498	520	535	568	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

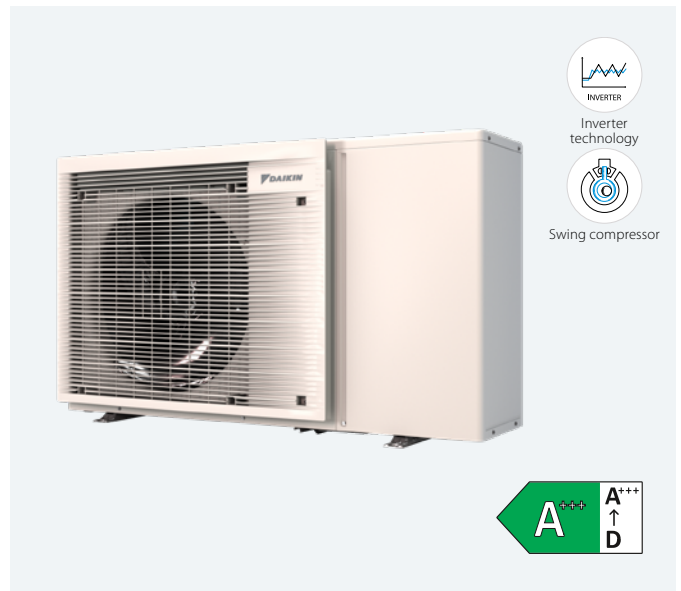


EWFS-TZPSD

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

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- 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

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- 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			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	Seasonal space heating eff. class	4.82	4.73	4.70	4.69
					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.	Nom.	m³/min	63	70	85	
				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				3.80			
Unit	Running				30.8			
	Max current							
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.	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			
	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			
Unit	Running				TCCO2Eq			
	Max current				A			
Power supply					Hz/V			
	Phase/Frequency/Voltage				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-DWIP-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	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			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			kW	9.35	11.6	12.8	14.0	
	35°C			%	222	229	226	221	
	ηs,c								
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	Seasonal space heating eff. class	3.89	4.00	4.07	4.06	4.07	4.02	4.00	3.98	4.00
			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



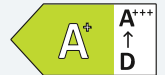
EWYT-CZH

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.



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			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

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.

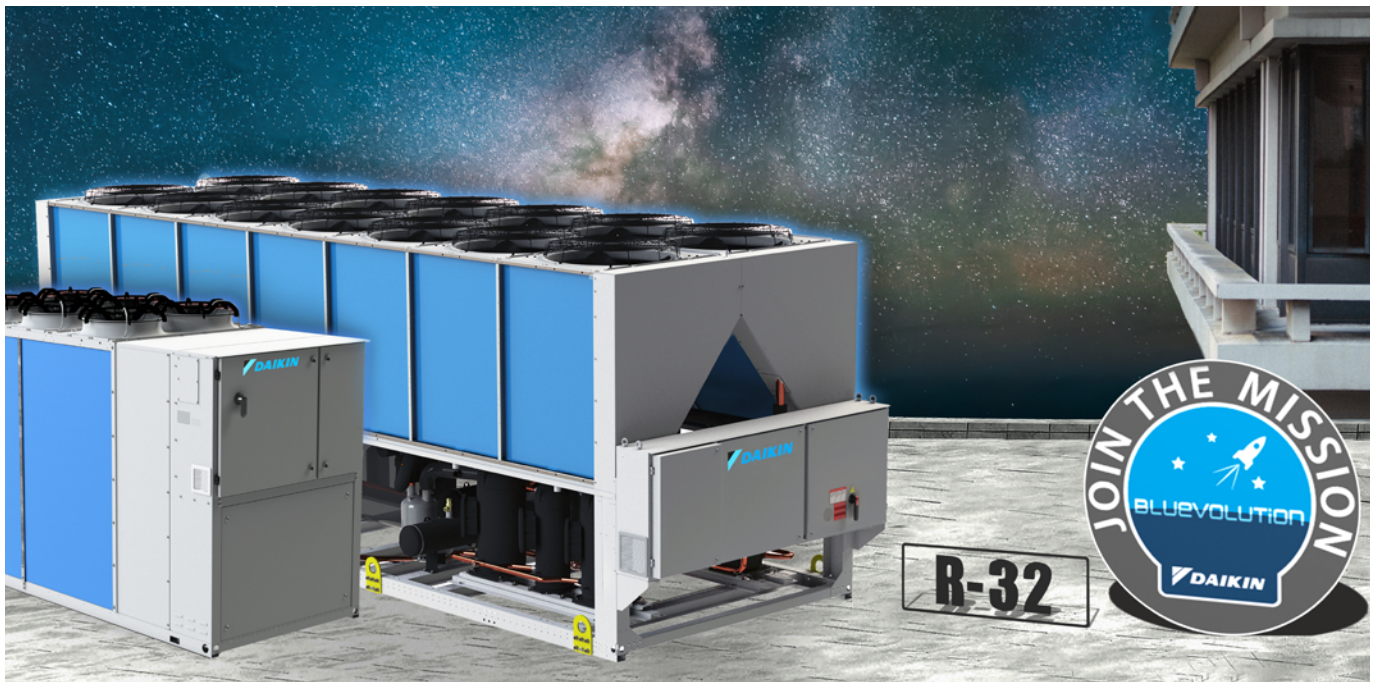


EWYE-CZP

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				Brazed 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 82-213 kW	1 circuit
Gold Efficiency	80-206 kW 86-218 kW	
Silver Efficiency	189-230 kW 209-256 kW	2 circuits
Gold Efficiency	206-250 kW 215-261 kW	

Double-V coils



Silver Efficiency	270-570 kW 300-627 kW	2 circuits
Gold Efficiency	294-630 kW 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

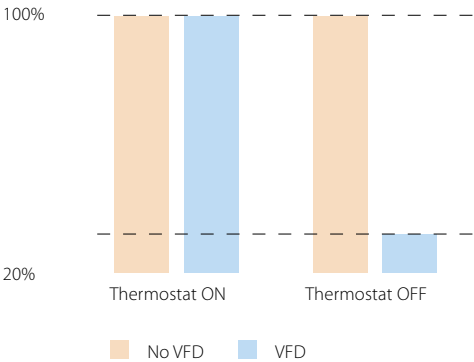
Buffer tank
Unit mounted buffer tank available all across the range for plug and play solution.

- VFD pumps and variable flow control**
- Variable pump speed control via external 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					
	Running current	Cooling Nom.	A	54	66	76	99	125	123	133	146	174	198	227	253	291	328	353	372					
	Running current	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-VVDFAN		340-VVDFAN		390-VVDFAN		430-VVDFAN		490-VVDFAN		540-VVDFAN		590-VVDFAN		630-VVDFAN			
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			3.38		3.39		3.46		3.44		3.47		3.46		3.50		3.47			
	Seasonal space heating eff. class																						
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		207		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	mm	2,224																		
			Length	mm	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			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

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- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
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- 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 Seasonal space heating eff. class		3.35	3.40	3.37	3.42	3.44	3.43	3.32	3.33
				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							



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
Space heating	Average climate water outlet 35°C	General	SCOP	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
Heating capacity	Nom.				kW	295.81	335.24	384.62	426.79	477.49	528.73	581.03
Power input	Cooling	Nom.			kW	102	117	131	147	172	195	207
	Heating	Nom.			kW	101.89	113.31	131.71	144.34	160.28	178.33	194.13
Capacity control	Method					Step						
	Minimum capacity				%	22	19	17	25	22	19	18
EER						2.59	2.64	2.61	2.5	2.46	2.41	2.5
COP						2.903	2.959	2.92	2.957	2.979	2.965	2.993
IPLV						4.29	4.69	4.58	4.61	4.78	4.89	4.91
Dimensions	Unit	Height	Width	Length	mm	2,516						
					mm	2,224						
					mm	3,418		4,316				5,211
Weight	Unit				kg	2,627	2,978	3,390	3,427	3,614	3,815	4,218
	Operation weight				kg	2,640	2,997	3,409	3,446	3,641	3,542	4,253
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
	Water pressure drop	Cooling	Nom.		kPa	58.1	47.6	57	64.4	56.3	67.8	56
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
	Speed				rpm	780						
Sound power level	Cooling	Nom.			dBA	87	88	89	89.3	89.4	89.5	90.4
Sound pressure level	Cooling	Nom.			dBA	68		69	69.3	69.4	69.5	70
Refrigerant	Type					R-32						
	Charge				kg	40.3	47.2	50.4	79	89	68.8	77.6
	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
		Cooling	Nom.		A	173	196	224	251	292	330	353
					A	232	266	304	334	379	425	463
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	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	mm	1,801										2,516										
				1,211										2,224										
		Length	mm	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	201	229	262	297	327	377	423	458	488	509				
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
 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	Nom.		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								
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	170	193	216	237	277	313	339	359	362
				Max	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		
Space heating	Average climate water outlet 35°C	General	SCOP	Seasonal space heating eff. class	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				1,801								
		Width				1,211								
		Length				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								



MicroTech 4



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	4.06	4.01	3.95	4.03	3.99	4.04	4.00	3.98	3.88	
			Seasonal space heating eff. class	-									
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
	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



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	700x1,120x830			
Weight	Unit		kg	133	144		172
Operation range	Heating	Ambient	Min.~Max.	-20 ~35			
		Water side	Min.~Max.	20 ~60			
	Cooling	Ambient	Min.~Max.	-20 ~45			
		Water side	Min.~Max.	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



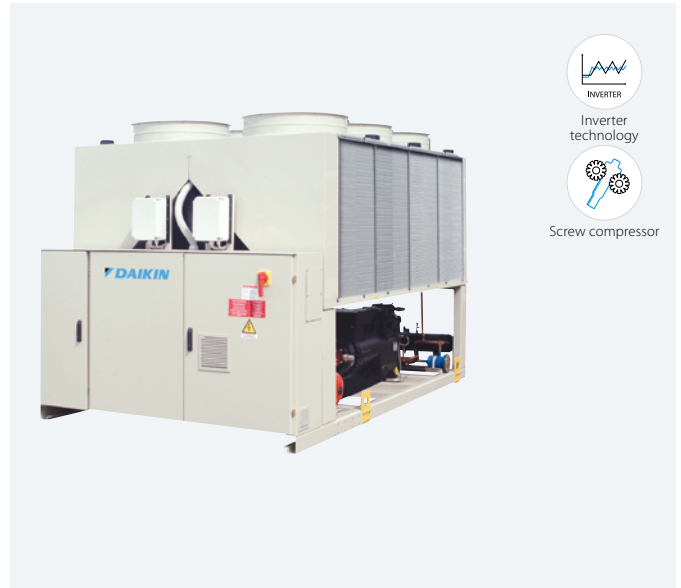
EWYT-CZO



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



Screw compressor

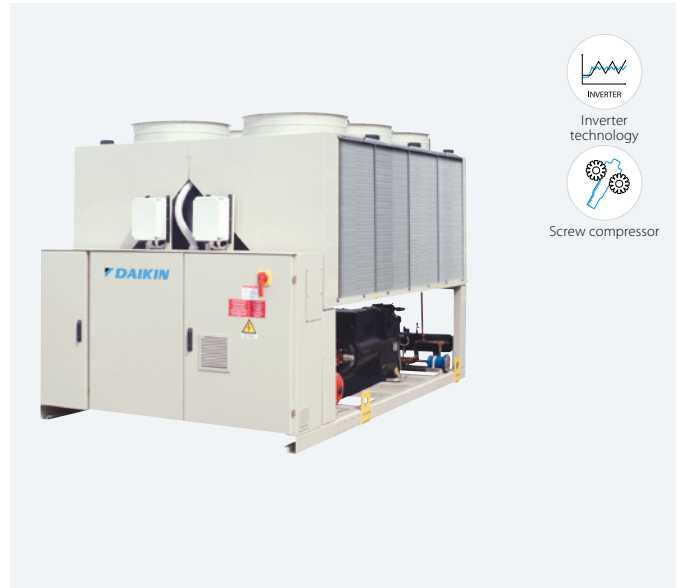


EWYD-BZSS

Heating & Cooling				EWYD-BZSS	250	270	290	320	340	370	380	410	440	460	510	530	570	
SEER					-										4.57		4.55	
 Space heating	Average climate water outlet 35°C	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/-	
	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	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			Hz/V	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			
 Space heating	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		
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		



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)									
Unit					219.1								
	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)	Cooling		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

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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
	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 μC^2SE controller for direct connection to a Modbus based BMS or to a remote user interface

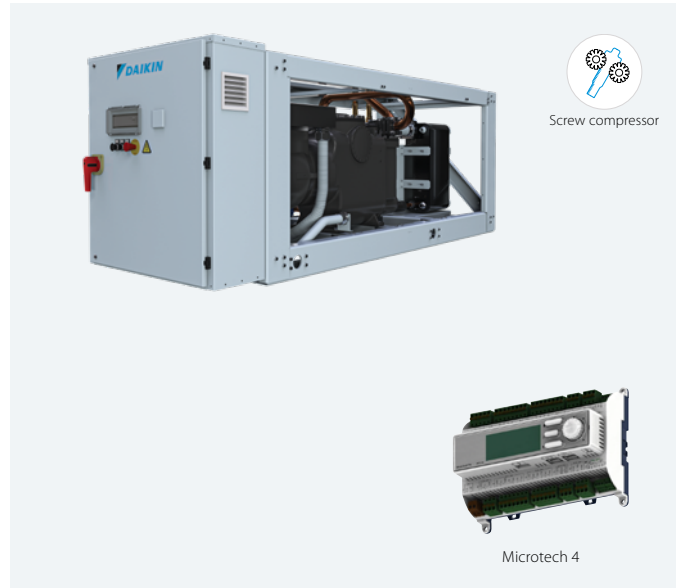


Cooling & Heating only					EWWQ-KC		014	025	033	049	064
SEER							4.02	4.23	3.63	4.48	3.88
 Space heating	Average climate water outlet 55°C	General	SCOP			3.64	3.63	3.71	3.58	3.87	
		Seasonal space heating eff. class					A++				
	Average climate water outlet 35°C	General	SCOP			4.76	4.73	4.52	4.87	4.91	
		Seasonal space heating eff. class			A+++		A++	A+++			
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					Braze 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	
		Seasonal space heating eff. class					A++				
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			0.9					
 Space heating	Average climate water outlet 55°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	
		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

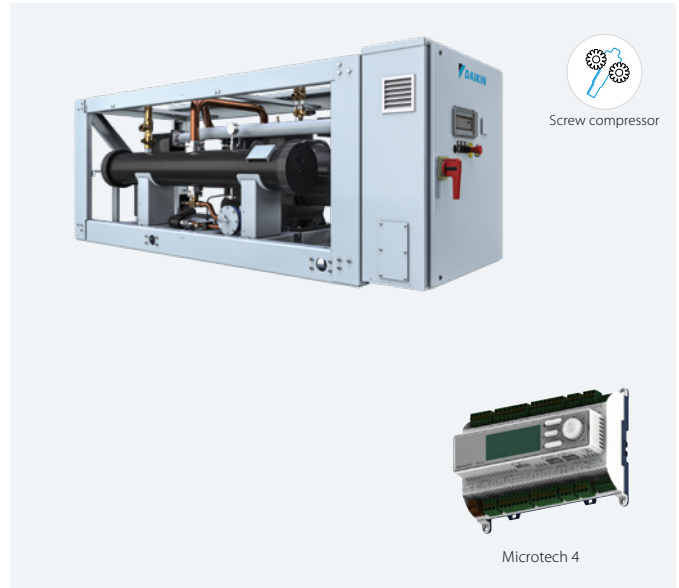
Fluid: Water; Fouling factor = 0m 2°C/W

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
Space heating		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						
Unit	Condenser water inlet/outlet			inch	2" 1/2	4			290		
	Starting current	Max		A	153		197				
	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						

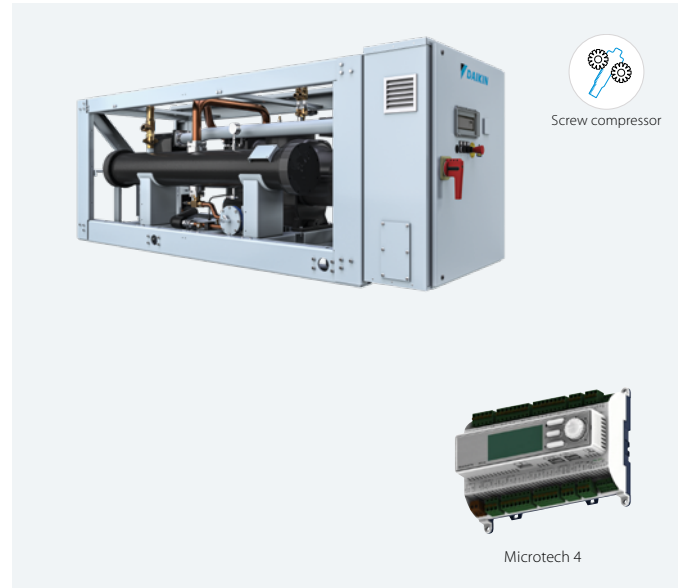
performances according to CSS software 10.34

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	
Space heating 	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	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.

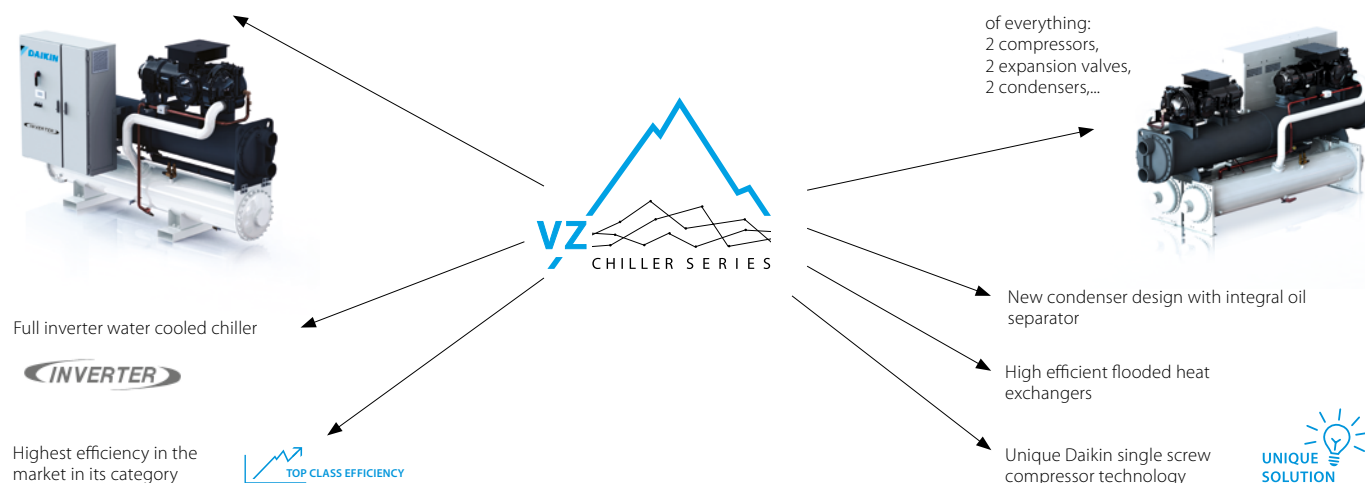
EWV(H)(D)(S)-VZ at a glance

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?



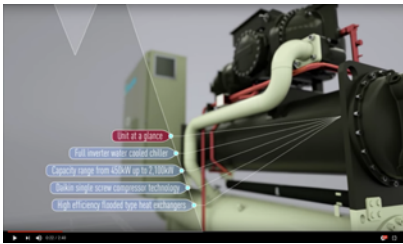
- 1 Top class efficiency**
Thanks to:
 - New generation Daikin inverter screw compressors
 - New generation high efficiency heat exchangers
 - Variable volume ratio technology
 - Optimized refrigerant circuit design
- 2 Compact unit: 40% footprint reduction**
Thanks to:
 - New single pass condenser technology
 - 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

Supporting tools

Product video



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 (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.		dBA	101	105			107	106		107		108		110
Sound pressure level	Cooling	Nom.		dBA	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	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	
	(35°C - 27/19)			%	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	ηs,c				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
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EWWD-VZPS

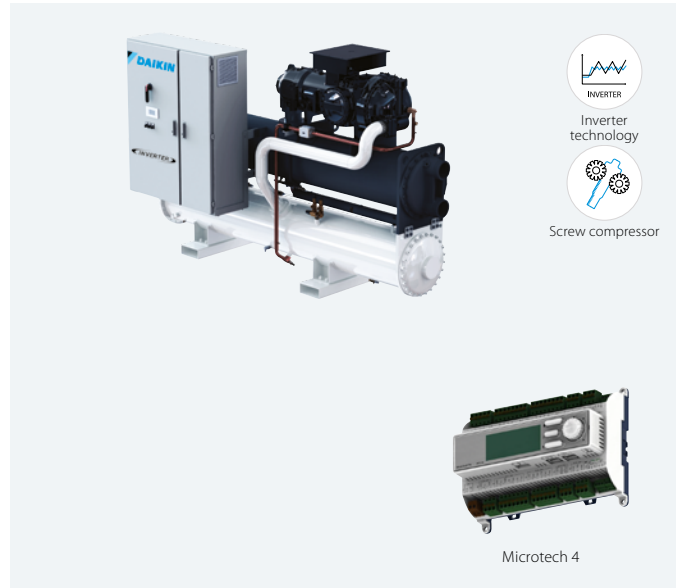
Cooling only/ Heating only				EWWD-VZPS	505	715	910	C12	C16	C18
Space cooling	A Condition Pdc (35°C - 27/19)			kW	505.02	717.71	908.11	1,201.02	1,604.03	1,757.01
	ηs,c			%	339.6	355.2	344.4	353.6	354	350
SEER					8.69	9.08	8.81	9.04	9.05	8.95
Cooling capacity	Nom.			kW	505	718	908	1,201	1,604	1,757
Power 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		
			mm	139.7	219.1				273	
Piping connections	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
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- Heat pump version with reversibility on water side (up to 75°C hot water production)
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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 (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

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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 (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

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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
Unit	Condenser water inlet/outlet (OD)				219.1mm			219.1/219.1 mm		
	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 (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				Variable														
	Minimum capacity			%	20						10								
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 (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 μC^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										1,186	
		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	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

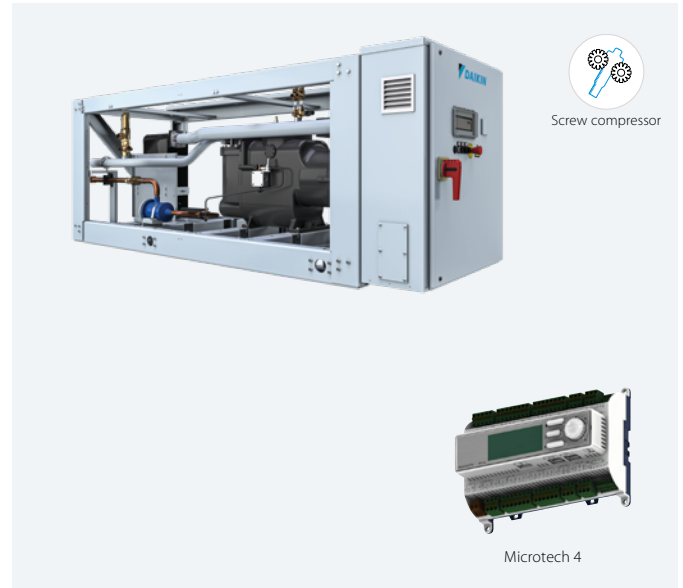


EWLQ-L-SS

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



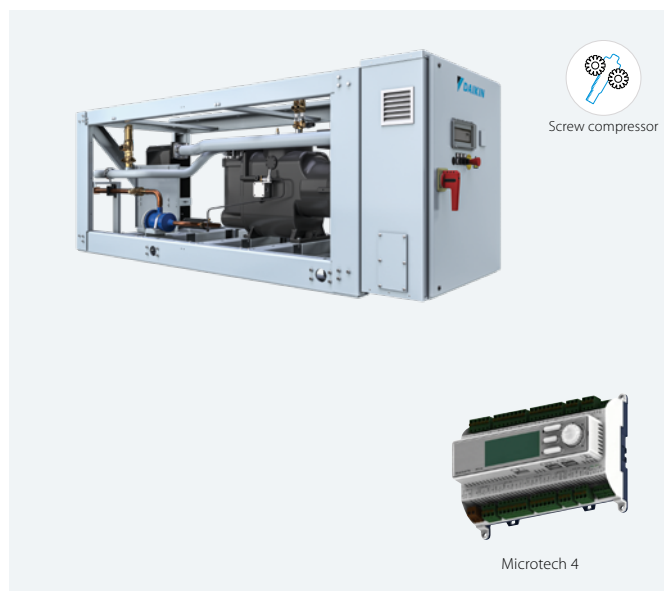
EWLD-J-SS

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



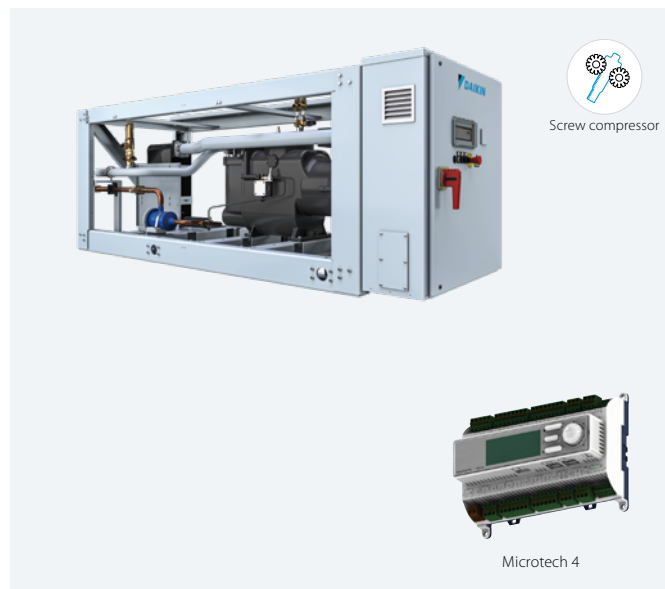
EWLH-J-SS

				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	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	6.8	8.3	9.2		
	Water pressure drop	Cooling	Nom.	kPa	9.7	9.9	17.5	17.6	16.2	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	92
		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

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	236	268		
Power input	Cooling	Nom.			kW	32.2	38.7	44.8	51.2	58.2	69.4	78.8	
Capacity control	Method				Stepless								
	Minimum capacity			%	25								
EER					3.44	3.4	3.35	3.41	3.44	3.41	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

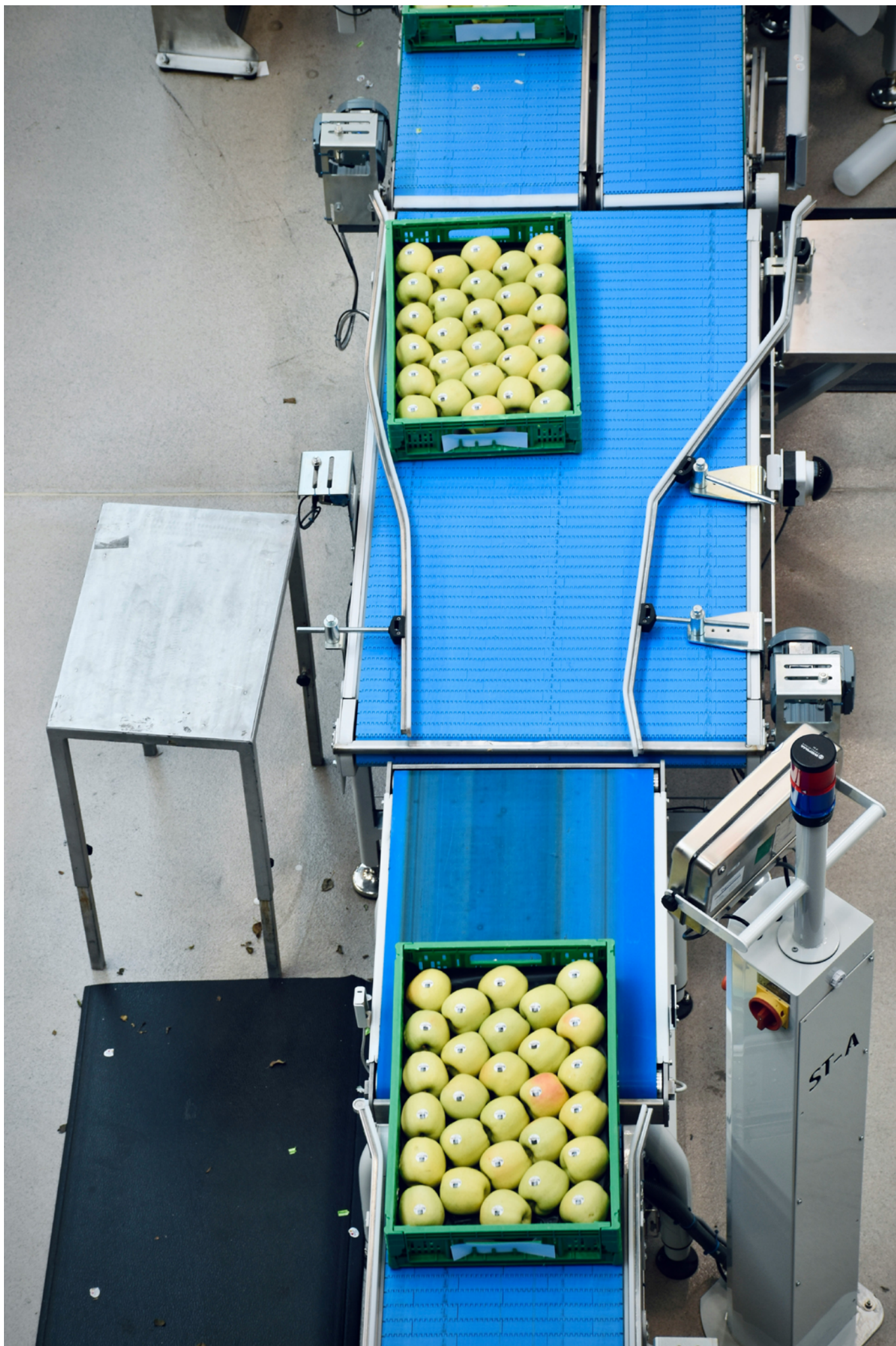
Condenserless screw chiller, standard efficiency, standard sound

- 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



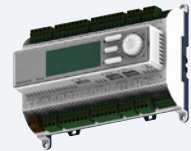
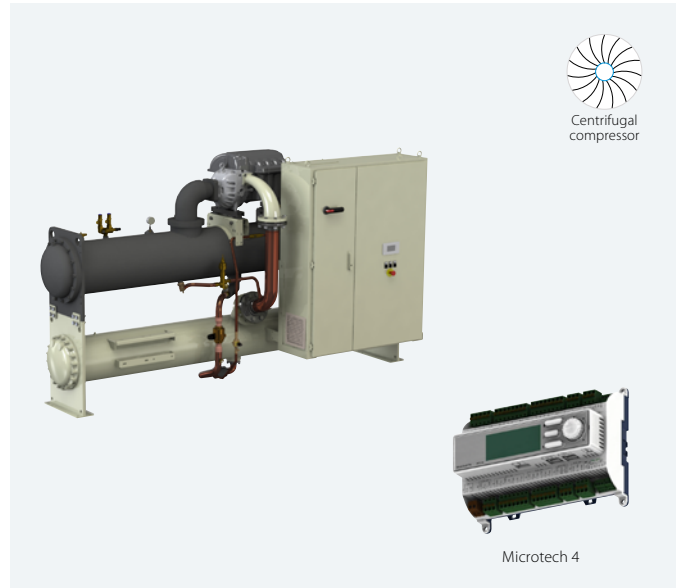
EWLD-I-SS

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



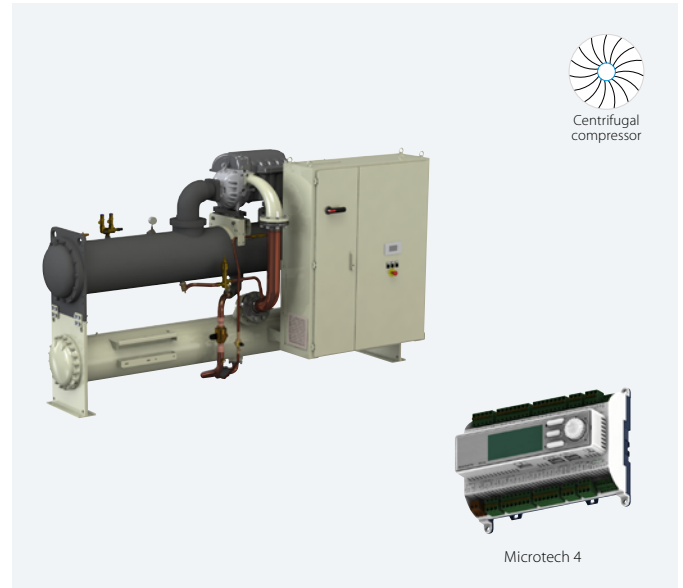
EWWD-DZXS

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	350	363	349.8	362	360.6	365.4
SEER				%	8.72	8.65	9.08	8.91	8.95	8.79	9.31	8.86	9.32	9.13	9.28
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			2,200		
		Width	mm	1,055			1,160			1,270			1,270		
		Length	mm	3,625			3,585			3,580			4,793		
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	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								Flooded Shell & Tube	Shell and tube	Flooded Shell & 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	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											

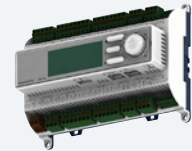
Performances according to CSS software 10.27

Water cooled centrifugal chiller, high efficiency, standard sound

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Centrifugal compressor



Microtech 4



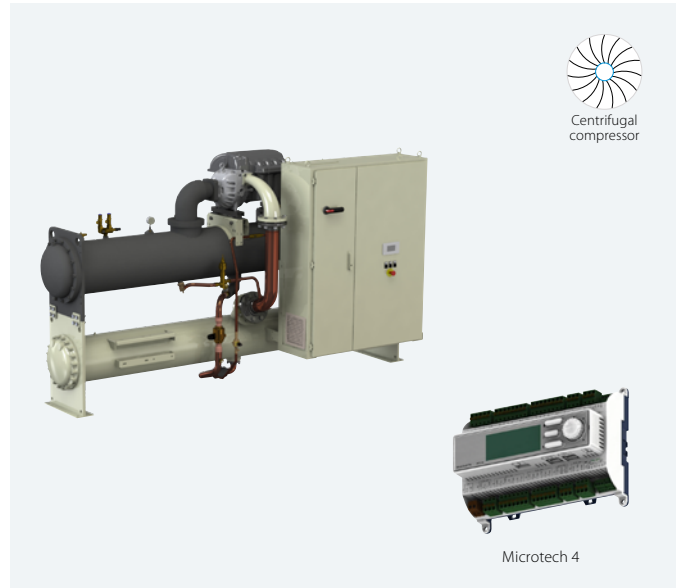
EWWD-DZXE

Cooling Only				EWWD-DZXE				340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition (35°C - 27/19) ηs,c	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			
				%	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	2	3					
Sound power level	Cooling	Nom.		dBA	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.		dBA	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	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		A	134	208	166	267	196	417	406	331	631	392	511	589				
Power supply	Phase/Frequency/Voltage	Hz/V			3~/50/400															

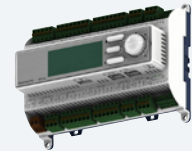
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Water cooled centrifugal chiller, high efficiency, standard sound

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- 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
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Centrifugal compressor



Microtech 4



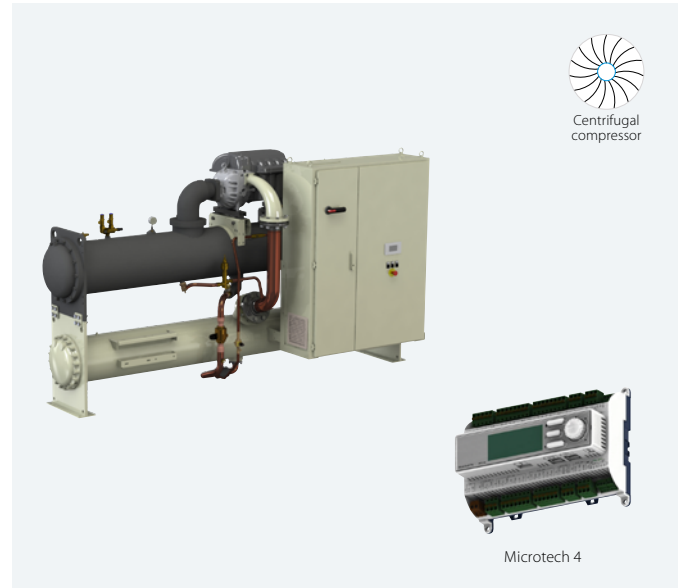
EWWH-DZXS

Cooling Only				EWWH-DZXS	230	320	380	430	455	460	640	755	920	945	C11	C13		
Space cooling	A Condition	Pdc		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		
	ηs,c			%	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		20~55	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



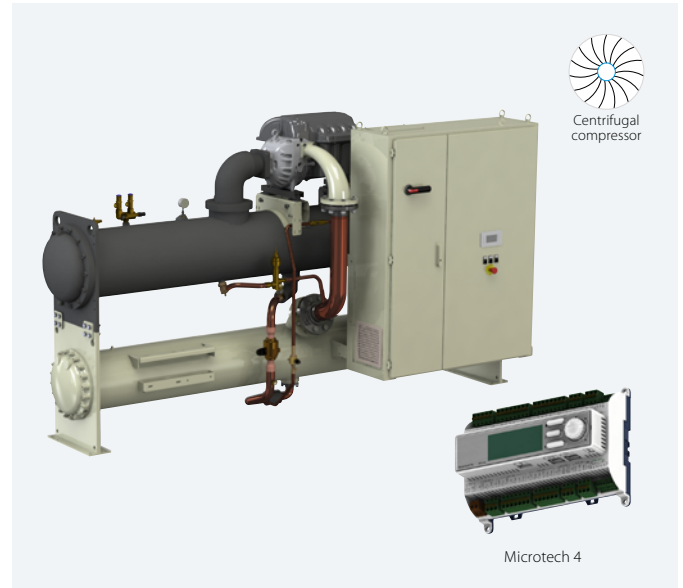
EWWH-DZXE

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													

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- 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

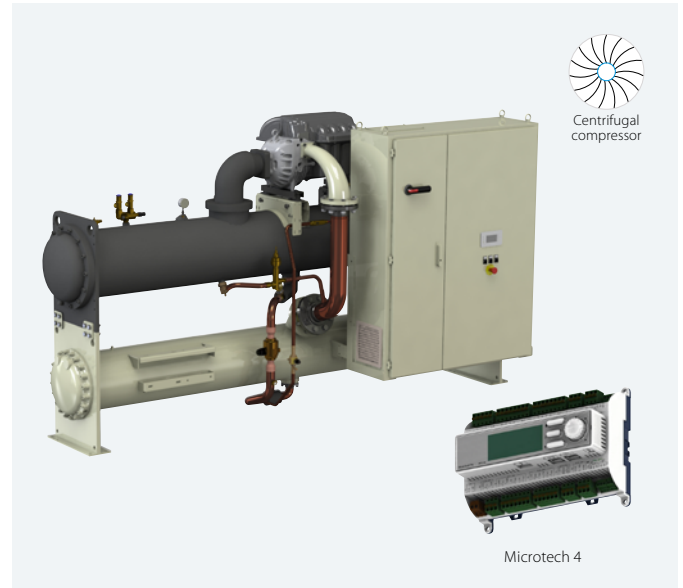


EWWS-DZXS

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							

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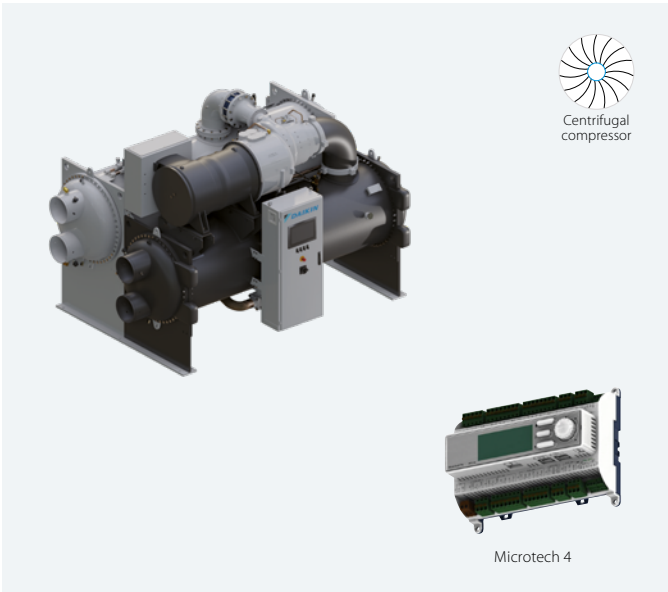


EWWS-DZXE

Cooling Only				EWWS-DZXE		340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition Pdc (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



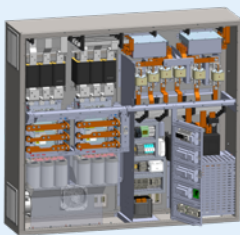
Free cooling operation
Allows to reduce the power consumption generated by traditional mechanical cooling.

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 EWYA~BVP	EWAA~DA 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 EWYA~BVP	EWAA~DA 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 EWYA~BVP	EWAA~DA 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

