



Chillers

The ultimate in
reliability and flexibility

2025
NEW





Daikin chillers offer the ultimate in reliability and flexibility — a reflection of the advanced technology inherent within them. Daikin chillers represent the sure and safe route to a comfortable environment and a process cooling solution that is clean and consistent.

Chillers

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Forged under severe conditions around the world, Daikin chillers, fan coil units & air handling units provide high quality, operation efficiency and energy savings. Various applications are possible including air conditioning applications, industry-type process cooling and heating, and large-scale district cooling and heating.



A partner of choice

Daikin is Europe's leading manufacturer and global n°1 of highly energy-efficient heating, cooling, ventilation and refrigeration solutions for residential, commercial and industrial applications. Daikin is a leader in using technologies that help preserve the environment, such as those that conserve energy and deliver high reliability to its customers. Daikin's flexible applied systems deliver high efficiency for commercial, institutional and industrial buildings.

The comfort of reliability

Nobody is really looking for complexity in business. Because complexity often leads to mistakes, delays or losses. Unfortunately, the world we are all doing business in, is sometimes quite complex. When looking for further business development, we all expand our national and international operations. And that doesn't make things easy. As a small scale business or multinational company, you deserve the best partners. Partners that can take away the headaches and make you feel comfortable again. With Daikin, you have found such a partner. Because Daikin would like things to be easy ... for you.

Daikin quality

Daikin's much envied quality quite simply stems from the close attention paid to design, production and testing as well as aftersales support. To this end, every component is carefully selected and rigorously tested to verify its contribution to product quality and reliability.

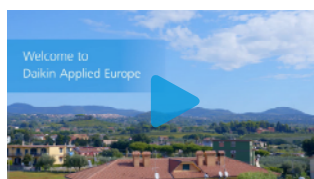
Staff who understands you

Daikin and its staff of devoted engineers, consultants and analysts are ready to assist you on a daily basis in setting up nationwide or international agreements, providing advice on equipment selection and monitoring regulations. Our goal is to help you carry out your plans with confidence, using custom-designed systems that meet your needs (for comfort, performance levels, support and service).

Daikin Applied Development Center

Opened in May 2009, the Daikin Applied Development Center is the world's most advanced facility for heating, ventilation and air conditioning (HVAC) research and development. The purpose of the center is to develop and test advanced chiller, compressor and other HVAC technologies to reduce energy consumption and, ultimately the carbon footprint of the buildings where they will be used.

Find out more about the 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. Our performance in each condition can be shared through witness tests.

During witness testing even the toughest design conditions can be simulated. Customers and consultants can appreciate product performance before its delivery, ensuring "peace of mind" chiller integration in the whole project.

We have specific competencies and state of the art testing facilities to pursue 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, looking for specific software applications, need detailed product information or looking for any other marketing tools? This overview gives you an idea of what we can offer.

Selection software

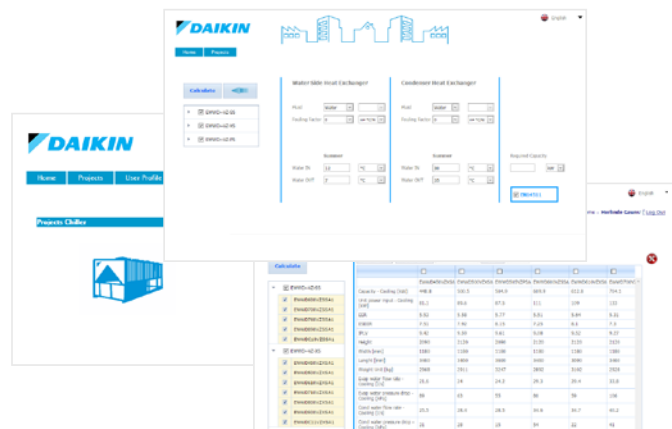
Daikin Europe offers you a variety of building modelling, selection, simulation and quotation software tools to support your sales.

Web-based chiller selection software

A user-friendly interface allows users to quickly create new projects, open and change existing projects or simply do a quick selection. Technical selection reports can be printed or downloaded in several formats.

To make life easier, the tool is accessible everywhere, via any device. No matter where you are, projects can be consulted.

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



Online support

Business portal

Experience our new extranet that thinks with you

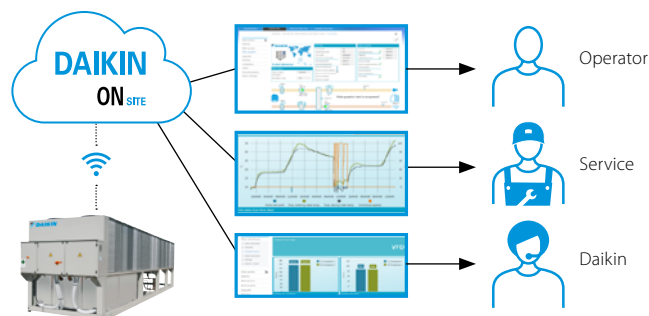
- Find information in seconds via a powerful search
- Customize the options so you see only info relevant for you
- Access via mobile or desktop via **my.daikin.eu**

Daikin on Site

A new remote monitoring and control for chillers and air handling units has been developed by Daikin to give peace of mind to the end-customer.

Using this new tool results in optimum use and costs over the system's entire lifetime:

- enhanced control and measuring
- monitors the system
- reduces risks at the earliest possible moment
- keeps the system running as it was intended to



ASTRA Web

- Quick AHU selection that will save you precious time, drastically reducing selection time through the new software interface.
- Very competitive solution available within the Wizard thanks to pre-uploaded parameters.
- High selection quality, thanks to the intelligence embedded within the software core.



Daikin, the best partner for your green project

From 2015 onwards the majority of new building projects in Europe are expected to be green.

93% percent of developers & investors consider green certification important. BREEAM and LEED green building programmes are the two most important sustainable building certificates in Europe, 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 choose an HVAC-R partner with the knowledge and portfolio to achieve your BREEAM or LEED objectives, and other green needs. Daikin has successfully participated in many green and sustainable projects. Helping builders achieve BREEAM Excellent, LEED Gold, NZEB and similar certificates has become one of our specialities.

We have a team of BREEAM accredited professionals (APs) at your service!

- Over 17 APs across Europe
- Assisting you to achieve 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 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 put the strongest focus on energy efficiency. This is exactly why it's so important to choose Daikin.
- **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.

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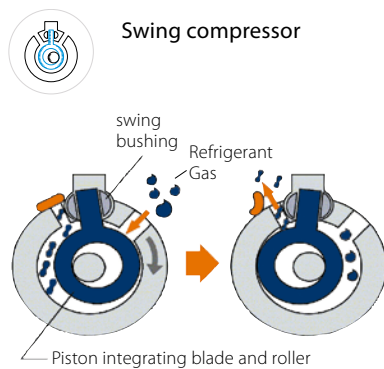


Day-to-day reliability and efficiency

Inhouse development and manufacturing of compressors

Unlike many other air conditioning manufacturers, Daikin manufactures its own compressors.

This is important because the compressor is the very heart of the air conditioning system, increasing the pressure and temperature of the refrigerant vapour, effectively concentrating the heat as it passes around the system. Daikin has always been at the forefront of developing compressor technology and now offers a comprehensive range of swing, scroll, screw and centrifugal compressors. As a result, inverter compressor control is applied throughout our product range, delivering enhanced comfort and system efficiency.

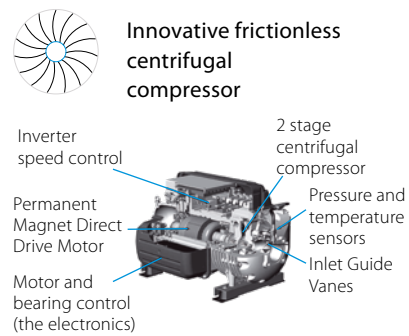


The mini chiller series EWAQ005-007ADVP & EWYQ005-007ADVP are equipped with a swing inverter compressor. This innovative design by Daikin has fewer moving parts allowing a smoother, more reliable operation with low vibration and low noise levels. The high-efficiency motor reduces energy consumption, resulting in energy cost savings.

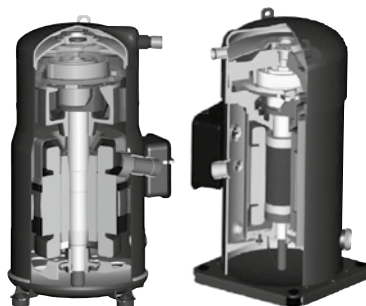


Characteristics:

- 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.



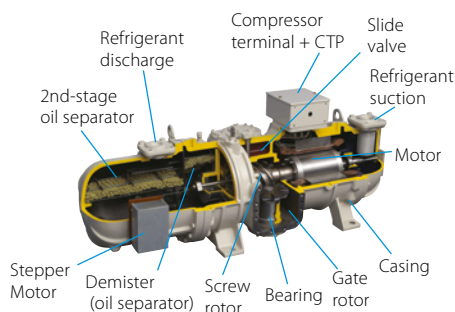


Whatever the requirements of the customer - large systems requiring constant capacity or small systems for flexibility - Daikin always provides a reliable and efficient solution.



The single-screw stepless compressor for high capacity

At the heart 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. The unit capacity is infinitely variable from 30 - 100% on single circuit units and 15 -100 % on dual circuit units.
- 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.
- Star-Delta starter with low starting current as standard.



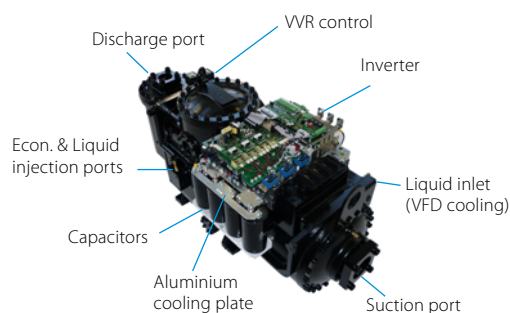
Screw compressor with integrated inverter

Characteristics:

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

Main benefits:

- Better ESEER & EER values
- 30% more compact than single-screw compressor
- 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 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 Milan and Ostend

The highest efficiency for every installation

- Inverter technology over the whole capacity range
- The lowest total cost of ownership and fast payback time

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.

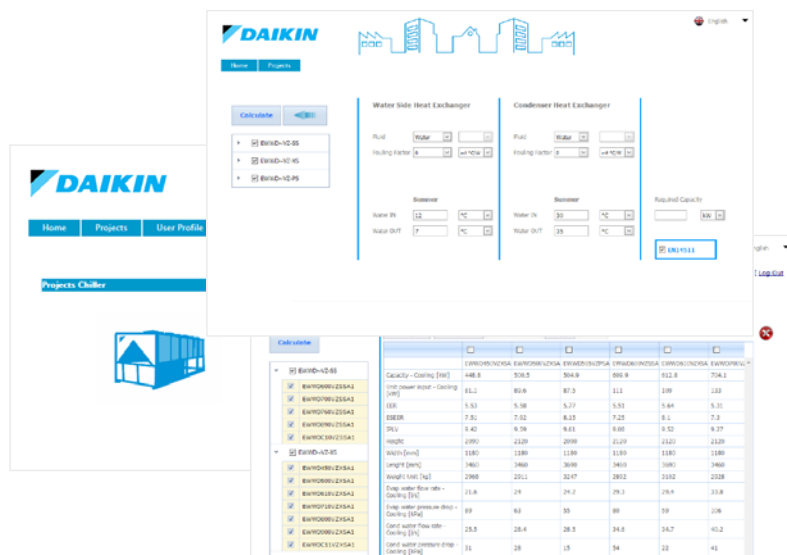
Web-based chiller selection software

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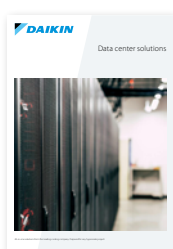
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EWYE-CZ - Air to Water Inverter Heat Pump



Water to Water Modular Heat Pumps



Data center solutions

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

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

Literature

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

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		R1234ze(E)	1-2														
EWFS-TZ D		R513A	1-2														
EWAD-TZ D		R513A	1-2														
EWFD-TZ D		R134a	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														
EWYD~BZ		R-134a	2-3														
Condensing unit																	
ERAD~E-		R-134a	1														
Multipurpose unit																	
EWYS-4Z		R-513A	2														

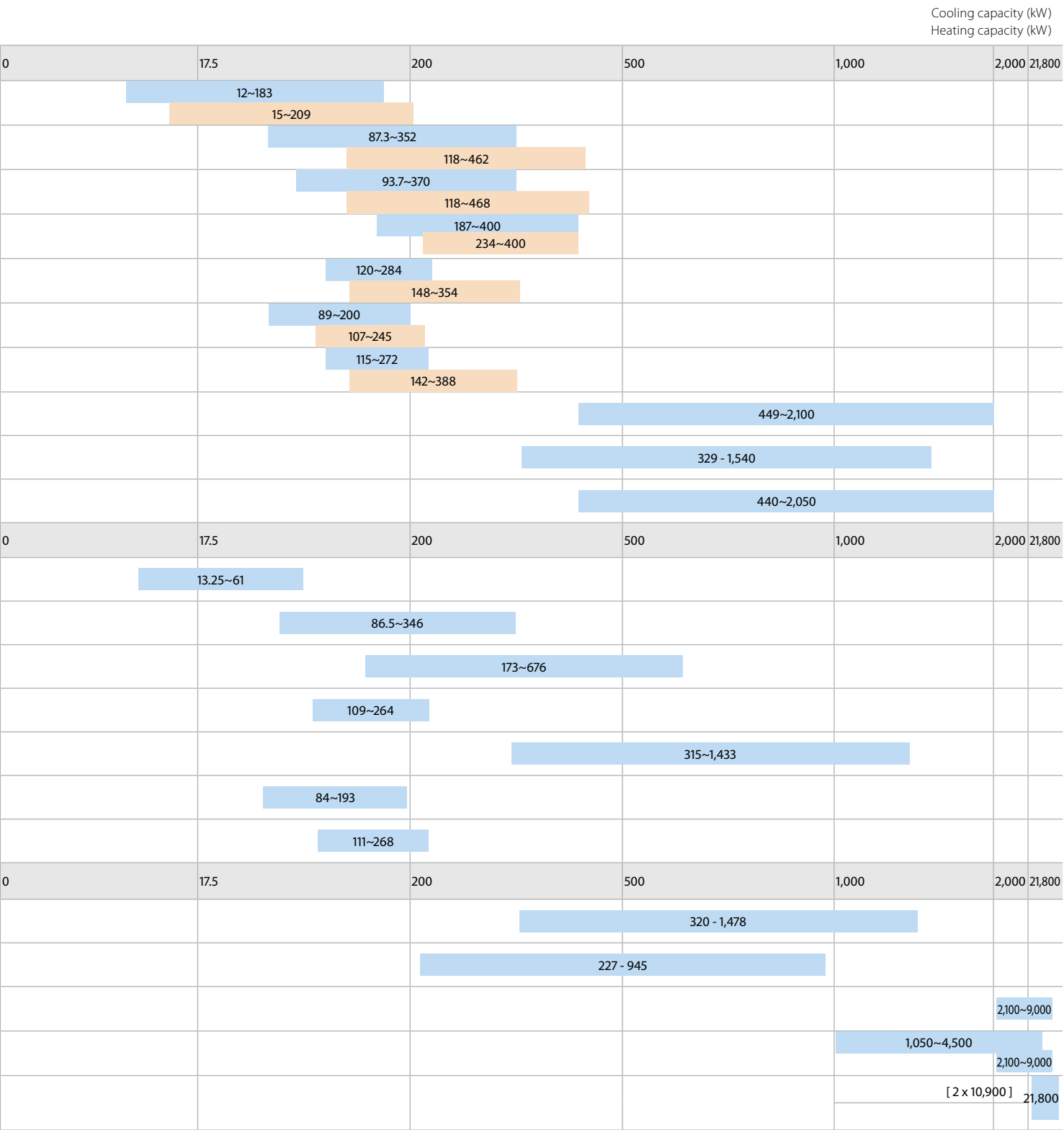
* (GWP): R-410A (2,087.5), R-134a (1,430) - ** BPHE: Brazed plate heat exchanger

		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					
21.1~64.4					
19.9~61.8					
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											
EWHQ~G-		R-410A	1											
EWWQ~G-		R-410A	1											
EWWQ~L-		R-410A	2											
EWWD~J-		R-134a	1											
EWWH-J-		R1234ze	1											
EWWS-J-		R-513A	1											
EWWD-VZ		R-134a	1-2											
EWWH-VZ		R-1234ze(E)	1-2											
EWWS-VZ		R-513A	1-2											
Condenserless chillers														
EWLQ-KCW1N		R-410A	1-2					BPHE						
EWLQ~G-		R-410A	1											
EWLQ~L-		R-410A	2											
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										
DWSC C / DWDC C		R-134a, R-513A and R-1234ze	1	optional										
6,000 RT CENTRIFUGAL		R-134a	2 per chiller											

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





Air cooled mini inverter chiller

- 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
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWAA-DV3P

Cooling Only					EWAA-D	004DV3P	006DV3P	008DV3P	011DV3P	014DV3P	016DV3P
Space cooling	A Condition Pdc				kW				11.6	12.8	14.0
	35°C ηs,c				%				229	226	221
SEER									5.79(6)	5.71(6)	5.59(6)
Cooling capacity	Nom.				kW	4.86(1)/4.52(2)	5.83(1)/5.09(2)	6.18(1)/5.44(2)	11.6(4)/11.5(5)	12.8(4)/12.7(5)	14.0(4)/15.3(5)
Power input	Cooling	Nom.			kW	0.820(1)/1.36(2)	1.08(1)/1.55(2)	1.19(1)/1.73(2)	3.56(4)/2.17(5)	4.06(4)/2.51(5)	4.58(4)/3.24(5)
	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)	3.26(4)/5.31(5)	3.16(4)/5.04(5)	3.06(4)/4.74(5)
Dimensions	Unit	Height			mm	770			870		
		Width			mm	1,250			1,380		
		Depth			mm	362			460		
Weight	Unit				kg	88.0			147		
Water heat exchanger	Type					Plate heat exchanger					
	Water volume			l		1			2		
Air heat exchanger	Type					-			High efficiency fin and tube type with integral subcooler		
Compressor	Type					Hermetically sealed swing compressor			Hermetically sealed swing inverter compressor		
	Quantity					1					
Fan	Type					Propeller fan					
	Quantity					1					
	Air flow rate	Cooling	Nom.	m³/min		-			70	85	
Sound power level	Cooling	Nom.			dBA	61.0(1)	62.0(1)		67.0	69.0	
Sound pressure level	Cooling	Nom.			dBA	48.0(1)	49.0(1)	50.0(1)	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB		10(3)~43			10~43		
Refrigerant	Type/GWP					R-32/675.0					
	Charge			kg		1.35			-		
	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 +/-10%			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) 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.

Air cooled mini inverter chiller

- 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
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWAA-EWYA-D_R



EWAA-DW1P

Cooling Only				EWAA	011DW1P	014DW1P	016DW1P
Space cooling	A Condition Pdc			kW	11.6	12.8	14.0
	35°C						
	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 (inverte-r)		
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.	m³/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 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
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EW(A-Y)A004-008DV3P-H_R



EWAA-DV3P-H

Cooling Only				EWAA-D	004DV3P-H	006DV3P-H	008DV3P-H	011DV3P-H	014DV3P-H	016DV3P-H
Space cooling	A Condition Pdc 35℃			kW	-			11.6	12.8	14.0
	ηs,c			%	-			229	226	221
SEER					-			5.79(6)	5.71(6)	5.59(6)
Cooling capacity	Nom.			kW	4.86(1)/4.52(2)	5.83(1)/5.09(2)	6.18(1)/5.44(2)	11.6(4)/11.5(5)	12.8(4)/12.7(5)	14.0(4)/15.3(5)
Power input	Cooling	Nom.		kW	0.820(1)/1.36(2)	1.08(1)/1.55(2)	1.19(1)/1.73(2)	3.56(4)/2.17(5)	4.06(4)/2.51(5)	4.58(4)/3.24(5)
	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)	3.26(4)/5.31(5)	3.16(4)/5.04(5)	3.06(4)/4.74(5)
Dimensions	Unit	Height		mm	770			870		
		Width		mm	1,250			1,380		
		Depth		mm	362			460		
Weight	Unit			kg	88.0			147		
Water heat exchanger	Type				Plate heat exchanger					
	Water volume			l	1			2		
Air heat exchanger	Type				-			High efficiency fin and tube type with integral subcooler		
Compressor	Type				Hermetically sealed swing compressor			Hermetically sealed swing inverter compressor		
	Quantity				1					
Fan	Type				Propeller fan					
	Quantity				1					
	Air flow rate	Cooling	Nom.	m³/min	-			70	85	
Sound power level	Cooling	Nom.		dBA	61.0(1)	62.0(1)		67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	48.0(1)	49.0(1)	50.0(1)	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10(3)~43			10~43		
Refrigerant	Type/GWP				R-32/675.0					
	Charge			kg	1.35			-		
	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 +/-10%			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) 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.

Air cooled mini inverter chiller

- 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
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWAA-DW1P-H

Cooling Only				EWAA	011DW1P-H-	014DW1P-H-	016DW1P-H-
Space cooling	A Condition Pdc			kW	11.6	12.8	14.0
	35°C			%	229	226	221
SEER	ηs,c				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.	m³/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

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request



EWAT-CZ_R



EWAT-CZN

Cooling Only				EWAT	016CZN-A1	021CZN-A1	025CZN-A1	032CZN-A1	040CZN-A1	040CZN-A2	050CZN-A2	064CZN-A2	090CZN-A2	
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	
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

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request



EWAT-CZP

Cooling Only				EWAT	016CZP-A1	021CZP-A1	025CZP-A1	032CZP-A1	040CZP-A1	040CZP-A2	050CZP-A2	064CZP-A2	090CZP-A2
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
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

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request



EWAT-CZH

Cooling Only				EWAT	016CZH-A1	021CZH-A1	025CZH-A1	032CZH-A1	040CZH-A1	040CZH-A2	050CZH-A2	064CZH-A2	090CZH-A2	
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	
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									R-32/675.0
	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

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request
- Dedicated controller extension (EKRSCIOH) for Heating applications



EWYT-CZN

Heating & Cooling				EWYT	016CZN-A1	021CZN-A1	025CZN-A1	032CZN-A1	040CZN-A1	040CZN-A2	050CZN-A2	064CZN-A2	090CZN-A2	
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				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

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request
- Dedicated controller extension (EKRSCIOH) for Heating applications



EWYT-CZP

Heating & Cooling				EWYT	016CZP-A1	021CZP-A1	025CZP-A1	032CZP-A1	040CZP-A1	040CZP-A2	050CZP-A2	064CZP-A2	090CZP-A2	
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 Seasonal space heating eff. class	4.03	4.19		4.18		4.19	4.12	4.01	4.04	
					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				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

- Inverter chiller
- High part load efficiency for low running cost
- Minimal starting currents
- No buffertank required for standard applications
- Daikin scroll compressor
- Wide operation range
- Integrated hydronic module on request
- Dedicated controller extension (EKRSCIOH) for Heating applications



EWYT-CZH

Heating & Cooling				EWYT	016CZH-A1	021CZH-A1	025CZH-A1	032CZH-A1	040CZH-A1	040CZH-A2	050CZH-A2	064CZH-A2	090CZH-A2
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				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



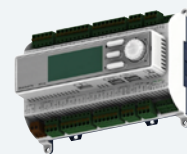
Inverter screw cooling only with BLU efficiency. Standard sound.

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

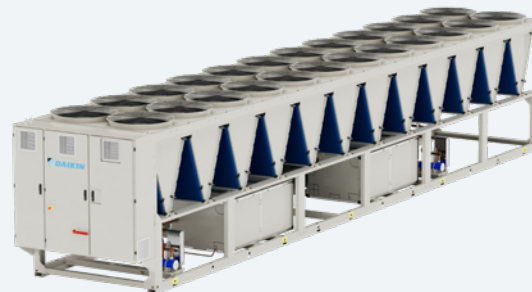
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAD-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								



MicroTech 4



EWAD_H_S-TZ-D



EWAD-TZBSD

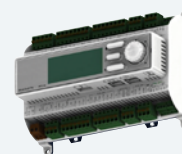
EWAD-TZBSD				830	915	C10	H10	H11	C12	C13
SEER				4.879	4.901	4.855	4.797	4.936	4.942	4.906
Cooling capacity	Nom.		kW	825.6	916.8	997.9	1,092	1,168	1,238	1,332
Power input	Cooling	Nom.	kW	267.5	298.4	347.8	369.7	387.5	409.9	447
Capacity control	Method			Stepless						
	Minimum capacity		%	11	13	11	10			
EER				3.1		2.9	3			
IPLV				4.8	4.9	4.8	4.9			4.8
Dimensions	Unit	Height	mm	2,553						
		Width	mm	2,238						
		Depth	mm	6,880			7,960	9,040	10,120	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						
	Quantity			2						
Fan	Type			Direct propeller						
	Quantity			12			14	16	18	20
	Air flow rate	Cooling	Nom.	I/s	76,480		89,230	101,980	114,720	127,460
Sound power 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	Quantity		2						
Piping connections	Evaporator water inlet/outlet (OD)			168.3mm	219.1mm					
Unit	Starting current	Max	A	0						
	Running	Cooling	Nom.	A	488.5	536.5	610.2	645.8	674.8	710.6
	current	Max	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	1,876	1,954	
Power input	Cooling	Nom.	kW	494.1	531.7	546.3	608.6	659.1	730.3	
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						
	Quantity			2						
Fan	Type			Direct propeller						
	Quantity			20	22			24		
	Air flow rate	Cooling	Nom.	I/s	127,460	140,210		152,960		
Sound power 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	Quantity		2						
Piping connections	Evaporator water inlet/outlet (OD)			219.1mm	273mm					
Unit	Starting current	Max	A	0						
	Running	Cooling	Nom.	A	837.3	899.1	919.5	1,011	1,088	1,193
	current	Max	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.

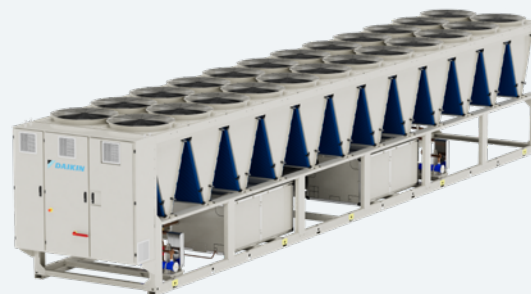
- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization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

EWAD-TZSSD				285	325	380	430	495	520	535		
SEER				5.551	5.737	5.636	5.741	5.434	5.281	5.659		
Cooling capacity	Nom.			kW	283.6	327.3	360.3	426.8	490.9	530.6		
Power input	Cooling	Nom.		kW	84.44	98.36	112.8	131	151.7	161		
Capacity control	Method			Stepless								
Minimum capacity				%	22	19	17	22	23	11	22	
EER					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								
	Charge			kg	40	45	50	60	65	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			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	
EER					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	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							
	Charge			kg	75	80	90	95	105	105	
	Circuits	Quantity			2		1	2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)			168.3mm		139.7mm	168.3mm	139.7mm	168.3mm		
Unit	Starting current			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						



MicroTech 4



EWAD_H_S-TZ-D



EWAD-TZSSD

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	1,372
Power input	Cooling	Nom.				kW	258.7	301.2	332.2	351.6	384.5
Capacity control	Method	Stepless									
Minimum capacity					%	11	12	11	10		
EER					3.2	3.1			3		3
IPLV					5.8	5.7	5.6			5.7	
Dimensions	Unit	Height				mm	2,553				
		Width				mm	2,238				
		Depth				mm	7,960			9,040	11,200
Weight	Unit				kg	6,151	6,623	6,816	7,297	8,260	8,742
	Operation weight				kg	6,546	7,239	7,244	7,518	8,014	8,992
Air heat exchanger	Type	Microchannel									
Compressor	Type	Screw compressor									
					Quantity	2					
Fan	Type	Direct propeller									
	Quantity	14							16	20	22
Air flow rate					Cooling	Nom.	l/s		89,230		
Sound power level	Cooling	Nom.				dBA	100	101		101,908	127,460
Sound pressure level	Cooling	Nom.				dBA	79	78	79	102	104
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
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
	current	Max	A			679	706	761	789	884	948
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

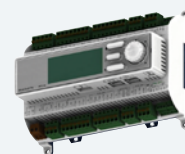
EWAD-TZSSD					H14	H15	H16	H17	H18	H19
SEER					5.529	5.707	5.633	5.608	5.527	5.445
Cooling capacity	Nom.				kW	1,482	1,562	1,665	1,787	1,954
Power input	Cooling	Nom.				kW	500.2	485.4	542.2	589.4
Capacity control	Method	Stepless								
Minimum capacity					%	10	14	13	12	11
EER					3	3.2	3.1	3	2.9	2.7
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			13,360
Weight	Unit				kg	9,920	10,323	12,066		12,086
	Operation weight				kg	11,136	11,549	11,564	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		140,210	
Sound power level	Cooling	Nom.				dBA	105	103	104	105
Sound pressure level	Cooling	Nom.				dBA	82	80	81	82
Operation range	Air side	Cooling	Min.~Max.	°CDB			-20 ~46			
Refrigerant	Type/GWP	R-134a/1,430								
Charge					kg	205	215	230	250	260
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
	current	Max	A			1,156	1,124	1,227	1,351	1,475
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				

Inverter screw with GOLD efficiency. Standard sound.

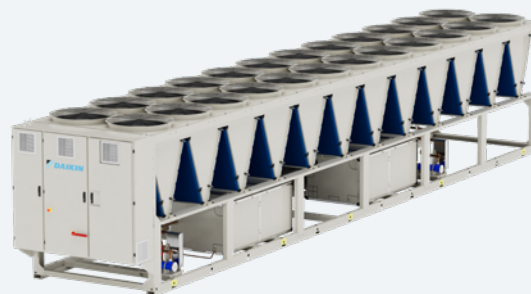
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- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAD-TZXSD				295	345	380	440	515	525	565	
SEER					5.605	6.007	5.961	6.165	6.019	6.002	6.251
Cooling capacity	Nom.			kW	294.4	344.4	378	434.8	507.9	524.3	560.5
Power input	Cooling	Nom.		kW	89.4	102.5	116.8	120.6	150	146.6	162
Capacity control	Method				Stepless						
Minimum capacity				%	22	19	17	28	23	13	22
EER					3.3	3.4	3.2	3.6	3.4	3.6	3.5
IPLV					6	6.3	6.1	6.6	6.5	6.3	6.7
Dimensions	Unit	Height	mm	2,553							
		Width	mm	2,238							
		Depth	mm	3,640	4,720			5,800		6,880	
Weight	Unit			kg	3,255	3,775		4,569		5,348	5,136
	Operation weight			kg	3,335	3,868	3,873	4,687.1	4,697.1	5,673	5,287.3
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	33,930	45,240		56,540		67,860	68,280
Sound power level	Cooling	Nom.		dBA	97	98	103	96	97	100	
Sound pressure level	Cooling	Nom.		dBA	80	82	83	75	76	79	76
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134a/1,430						
Charge				kg	40	45	50	60	70		75
Circuits Quantity					1					2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current Max			A	0						
Running Cooling Nom.				A	188.5	216.8	235.8	247.6	291.7	319.1	316.3
current Max				A	224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAD-TZXSD				565	610	635	670	705	725	760	
SEER					5.937	5.999	6.146	5.891	5.552	5.94	5.308
Cooling capacity	Nom.			kW	565.9	610.7	629	668.1	701	724	757.3
Power input	Cooling	Nom.		kW	163.3	177	190.8	201.3	207.2	219.5	233.1
Capacity control	Method				Stepless						
Minimum capacity				%	12	11	19	10	30	10	28
EER					3.5		3.3		3.4	3.3	3.2
IPLV					6.1	6.2	6.5	6.1	5.7	6.2	5.6
Dimensions	Unit	Height	mm	2,553							
		Width	mm	2,238							
		Depth	mm	6,880	7,960	6,880	7,960	6,880	7,960	6,880	
Weight	Unit			kg	5,348	5,829	5,136	5,829	5,805	5,946	5,805
	Operation weight			kg	5,683	6,169	5,297.3	6,174	5,976.3	6,344	5,986.3
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
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	67,860	79,170	68,280	79,170	68,280	79,170	68,280
Sound power level	Cooling	Nom.		dBA	100	101	105	101	99	102	100
Sound pressure level	Cooling	Nom.		dBA	80	81	77	83	78	84	79
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134a/1,430						
Charge				kg	80	85		90	95	100	105
Circuits Quantity					2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current Max			A	0						
Running Cooling Nom.				A	348.1	378.7	359.4	420.8	383.5	443	421.6
current Max				A	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						



MicroTech 4



EWAD_H_S-TZ-D



EWAD-TZXSD

EWAD-TZXSD					805	880	950	C10	H10	H11	C12		
SEER					6.088	6.355	6.192	6.365	6.186	6.313	6.217		
Cooling capacity	Nom.				kW	802.3	877.7	949.4	993.6	1,062	1,194		
Power input	Cooling	Nom.				kW	233.2	250.8	282.1	292.3	325.1	370.1	
Capacity control	Method	Stepless											
Minimum capacity					%	10	14	13	12	11	10		
EER					3.4	3.5	3.4	3.3	3.4	3.2			
IPLV					6.4	6.6	6.4	6.5	6.4	6.5	6.4		
Dimensions	Unit	Height				mm	2,553						
		Width				mm	2,238						
		Depth				mm	9,040						
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	9,038	
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	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											
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						
	Running					Cooling	Nom.	A					
	current					Max	A	470.4	496.7	543.6	565	613.9	637.5
Power supply					Phase/Frequency/Voltage	Hz/V	573	626	683	720	782	744	803
					3~/50/400								

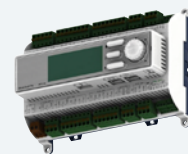
EWAD-TZXSD					H12	H13	H14	H15	H16	H17			
SEER					6.126	6.14	5.896	5.807	5.723	5.629			
Cooling capacity	Nom.				kW	1,286	1,359	1,454	1,567	1,671	1,770		
Power input	Cooling	Nom.				kW	402.4	425.5	419.5	472.2	528.4	590.4	
Capacity control	Method	Stepless											
Minimum capacity					%	10		15	14	13	12		
EER					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					
	Operation weight				kg	9,053	10,856	12,016	12,031	12,046	12,061		
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	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											
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						
	Running					Cooling	Nom.	A					
	current					Max	A	737.2	777.9	774.1	852	934.8	1,026
Power supply					Phase/Frequency/Voltage	Hz/V	851	899	997	1,103	1,217	1,330	
					3~/50/400								

Inverter screw with GOLD efficiency. Reduced sound.

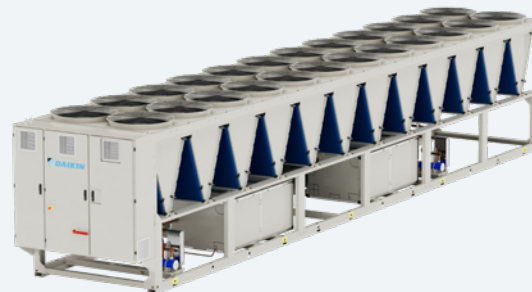
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EWAD-TZXRD					295	345	380	440	515	525	565	
SEER					5.507	5.938	5.866	6.042	5.901	6.037	6.159	
Cooling capacity	Nom.			kW	290.7	340.9	373.4	431	502.3	518.8	555.4	
Power input	Cooling	Nom.		kW	89.12	101.1	116.3	118.5	149.8	144.1	160.2	
Capacity control	Method				Stepless							
Minimum capacity					%	22	19	17	28	23	13	22
						3.3	3.4	3.2	3.6	3.4	3.6	3.5
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							
	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-TZXRD					565	610	635	670	705	725	760	
SEER					5.944	6.029	6.039	5.922	5.418	5.964	5.358	
Cooling capacity	Nom.			kW	559.5	604.2	622.3	660.4	691.7	714.9	745.6	
Power input	Cooling	Nom.		kW	161.7	174.5	190.5	200.1	209.3	219.2	236.6	
Capacity control	Method				Stepless							
Minimum capacity					%	12	11	19	10	30	10	28
						3.5			3.3			3.2
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							
	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							



MicroTech 4



EWAD_H_S-TZ-D



EWAD-TZXR

EWAD-TZXR					805	880	950	C10	H10	H11	C12		
SEER					6.169	6.363	6.179	6.354	6.217	6.34	6.191		
Cooling capacity	Nom.				kW	792.9	867.7	937.7	982.6	1,049	1,179		
Power input	Cooling	Nom.				kW	231.9	250.8	283.9	292.8	327.6	338	373.2
Capacity control	Method	Stepless											
Minimum capacity					%	10	14	13	12	11		10	
EER					3.4	3.5	3.3	3.4	3.2	3.3	3.2		
IPLV					6.4	6.6	6.4	6.6	6.4	6.6	6.4		
Dimensions	Unit	Height				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	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					2								
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm								
Unit	Starting current	Max			A	0							
Running					A	481.4	509.6	559.3	580.3	632.1	655.3	707.6	
Cooling					A	573	626	683	720	782	744	803	
current					A								
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400							

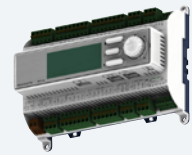
EWAD-TZXR					H12	H13	H14	H15	H16	H17		
SEER					6.12	6.181	5.883	5.764	5.704	5.537		
Cooling capacity	Nom.				kW	1,268	1,341	1,434	1,543	1,641	1,729	
Power input	Cooling	Nom.				kW	408	430.2	424.5	480.3	603.9	
Capacity control	Method	Stepless										
Minimum capacity					%	10	3.1	15	14	13	12	
EER					3.2		3.4	3.2	3	2.9		
IPLV					6.4		6.1	5.9	6.2	5.8		
Dimensions	Unit	Height				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					2							
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm	273mm						
Unit	Starting current	Max			A	0						
Running					A	761.7	802.5	800.7	883.2	970.5	1,066	
Cooling					A	851	899	997	1,103	1,217	1,330	
current					A							
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400						

Inverter screw with PLATINUM efficiency. Standard sound.

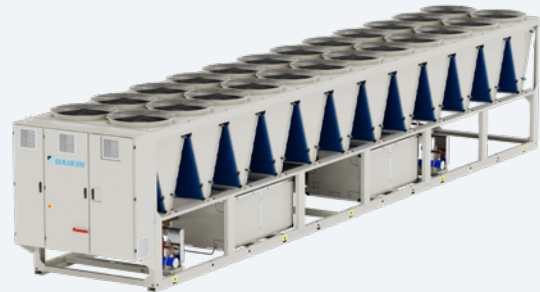
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EWAD-TZPSD					285	330	370	405	450	490	
SEER					6.29	6.465	6.389	6.687	6.64	6.567	
Cooling capacity	Nom.	kW			285.8	330.4	367.9	401.5	447	486.1	
Power input	Cooling	Nom.	kW			77.75	92.02	106	105.2	117.3	
Capacity control	Method				Stepless						
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

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



MicroTech 4



EWAD_H_S-TZ-D



EWAD-TZPSD

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

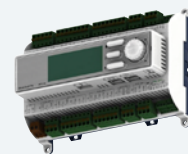
EWAD-TZPSD					C12	H12	H13	H14	H15		
SEER					6.398	6.263	6.31	5.978	5.928		
Cooling capacity	Nom.				kW	1,203	1,298	1,372	1,455	1,568	
Power input	Cooling	Nom.				kW	357.4	387.4	409.1	409.5	462.1
Capacity control	Method	Stepless									
Minimum capacity					%	10	15		14		
EER					3.4	3.6		3.4			
IPLV					6.7	6.6		6.2	6.5		
Dimensions	Unit	Height				mm	2,553				
		Width				mm	2,238				
		Depth				mm	12,280				
Weight	Unit				kg	8,798	9,655	10,136	10,805		
	Operation weight				kg	9,520	10,846	11,337	12,021	12,036	
Air heat exchanger	Type	Microchannel									
Compressor	Type	Screw compressor									
					Quantity	2					
Fan	Type	Direct propeller									
	Quantity						22	24			
	Air flow rate	Cooling	Nom.		l/s	140,200	152,940				
Sound power level	Cooling	Nom.				dBA	105	108	106	102	103
Sound pressure level	Cooling	Nom.				dBA	78		79		80
Operation range	Air side	Cooling	Min.~Max.	°CDB			-20 ~46				
Refrigerant	Type/GWP	R-134a/1,430									
Charge					kg	165	180	190	205	220	
Circuits					Quantity	2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm				
Unit	Starting current	Max				A	0				
Running					Cooling	Nom.	A	674	721	759	837
current					Max	A	845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

Inverter screw with PLATINUM efficiency. Reduced sound.

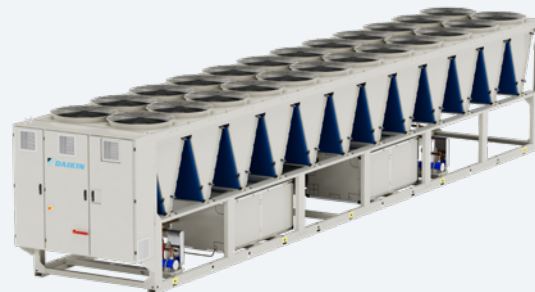
- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization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

EWAD-TZPRD					285	330	370	405	450	490	
SEER					6.232	6.448	6.358	6.622	6.542	6.467	
Cooling capacity	Nom.			kW	283.7	328.4	365	398.8	443.9	482.4	
Power input	Cooling	Nom.		kW	75.13	88.51	103.1	101	113.6	127.2	
Capacity control	Method				Stepless						
	Minimum capacity				23	20	18	30	28	25	
EER					3.8	3.7	3.5	4	3.9	3.8	
IPLV					6.7	6.8	6.6	7.2	7.5	7.4	
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	404	
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	726	
Power input	Cooling	Nom.		kW	139	155.2	166.8	190.7	208.2	
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		
	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					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	535	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				



MicroTech 4



EWAD_H_S-TZ-D



EWAD-TZPRD

EWAD-TZPRD					810	890	960	C10	H10	H11	
SEER					6.51	6.771	6.598	6.661	6.515	6.683	
Cooling capacity	Nom.				kW	801.7	876.7	948.2	993	1,061	
Power input	Cooling	Nom.				kW	222.8	240.2	271.1	312.2	
Capacity control	Method	Stepless									
Minimum capacity					%	10	14	13	12	11	
EER					3.6		3.5		3.4	3.5	
IPLV					6.8	7.1	6.9		6.7	7	
Dimensions	Unit	Height				2,553					
		Width				2,238					
		Depth				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									
	Quantity	2									
Fan	Type	Direct propeller									
	Quantity				l/s	18		20		22	
Sound power level	Cooling	Nom.				94	90	91	94,420	103,870	
Sound pressure level	Cooling	Nom.				72	68	69	92	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	
	Circuits				Quantity	2					
Piping connections	Evaporator water inlet/outlet (OD)	219.1mm									
Unit	Starting current	Max				A	0				
	Running	Cooling	Nom.	A	475.1	501.2	547.7	568.5	616.6	643	
	current	Max				A	573	616	672	709	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400					

EWAD-TZPRD					C12	H12	H13	H14	H15	
SEER					6.555	6.433	6.432	6.055	5.932	
Cooling capacity	Nom.				kW	1,190	1,282	1,356	1,435	
Power input	Cooling	Nom.				kW	357.7	389.9	410.4	
Capacity control	Method	Stepless								
Minimum capacity					%	10		15	14	
EER					3.3			3.5	3.3	
IPLV					6.7		6.6	6.3	6.1	
Dimensions	Unit	Height				2,553				
		Width				2,238				
		Depth				12,280				
Weight	Unit				kg	8,918	9,775	10,256	10,925	
	Operation weight				kg	9,640	10,966	11,457	12,141	
Air heat exchanger	Type	Microchannel								
Compressor	Type	Screw compressor								
	Quantity	2								
Fan	Type	Direct propeller								
	Quantity				l/s	22		24		
Sound power level	Cooling	Nom.				95	96	95	93	
Sound pressure level	Cooling	Nom.				72	74	72	70	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP	R-134a/1,430								
	Charge				kg	165	180	190	205	
	Circuits				Quantity	2				
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm	273mm				
Unit	Starting current	Max				A	0			
	Running	Cooling	Nom.	A	692.2	742.3	780.3	784.9	867	
	current	Max				A	845	893	951	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				

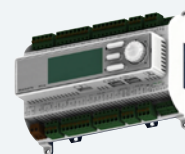
Inverter screw cooling only with BLU efficiency. Standard sound.

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

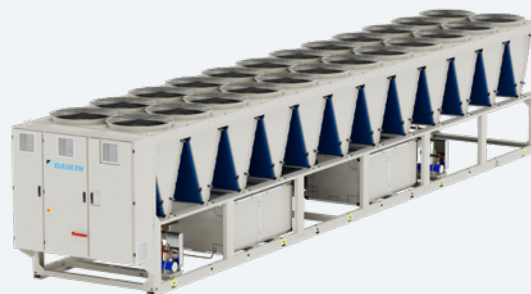
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

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

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



MicroTech 4



EWAH_H_S-TZ-D



EWAH-TZBSD

				EWAH-TZBSD		635	745	785	845	900	985	C11	
SEER						4.612	4.792	4.758	4.774	4.766	4.72	4.71	
Cooling capacity	Nom.			kW		633.2	742.7	786.2	842.9	899	983.8	1,104	
Power input	Cooling	Nom.		kW		226.9	238.6	261.4	287.6	302.2	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							
	Quantity					2							
Fan	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	Quantity				2							
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm				219.1mm			273mm
Unit	Starting current	Max		A		0							
	Running	Cooling	Nom.	A	425	445	480	519	544	617	682		
	current	Max		A	536	581	624	667	719	801	889		
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400							

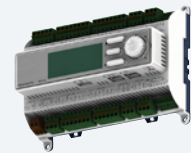
				EWAH-TZBSD		H11	C13	H13	H14	C15	H15
SEER						4.65	5.062	5.043	5.041	4.983	4.984
Cooling capacity	Nom.			kW		1,177	1,315	1,386	1,474	1,535	1,586
Power input	Cooling	Nom.		kW		436	423.5	471	508.7	563.3	580.5
Capacity control	Method					Stepless					
	Minimum capacity			%		10	12	11	10		
EER						2.699	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					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					16	18			20	
	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	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					273mm					
Unit	Starting current	Max		A		0					
	Running	Cooling	Nom.	A	748	733	804	862	943	971	
	current	Max		A	927	1,015	1,106	1,383	1,330	1,400	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with SILVER efficiency. Standard sound.

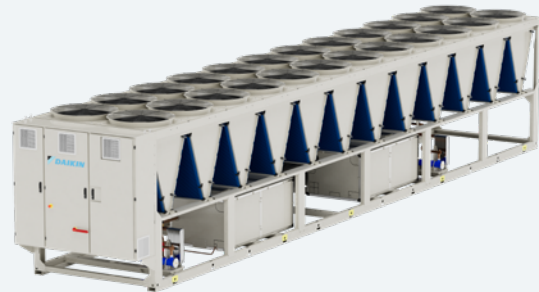
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization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

EWAH-TZSSD					240	265	295	370	400	415	450				
SEER					5.606		5.489	5.354	5.624	5.379	5.498	5.506			
Cooling capacity	Nom.				kW		242.1	264.9	296.5	366.7	402.3	447.1			
Power input	Cooling	Nom.				kW		75.33	86.23	98.15	112.9	121.5			
Capacity control	Method				Stepless										
Minimum capacity					%		19	17	15	23	12	20	19		
EER							3.214	3.072	3.021	3.248	3.312	3.062	3.094		
IPLV							5.624	5.53	5.387	5.92	5.48	5.755	5.738		
Dimensions	Unit	Height				mm		2,553							
		Width				mm		2,238							
		Depth				mm		3,640		4,720	5,800	4,720			
Weight	Unit				kg		3,041		3,071	3,968	4,233	3,968	4,032		
	Operation weight				kg		3,076		3,111	4,018	4,288	4,023	4,092		
Air heat exchanger	Type				Microchannel										
Compressor	Type				Screw compressor										
Fan	Quantity				1				2		1				
	Type				Direct propeller										
	Quantity				6		8		10		8				
Sound power level	Air flow rate	Cooling	Nom.		l/s		38,240		50,990	63,733	50,990				
	Cooling	Nom.				dBA		97.9	100	102.3	97.1	97.8	98	98.1	
Sound pressure level	Cooling	Nom.				dBA		78.18	80.27	82.57	76.87	77.09	77.71	77.82	
Operation range	Air side	Cooling	Min.~Max.				°CDB		-20 ~46						
Refrigerant	Type/GWP				R-1234(ze)/7										
	Charge				kg		35		40	50	55		60		
	Circuits	Quantity				1				2		1			
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm				139.7mm						
Unit	Starting current				A		0		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	696.4			
Power input	Cooling	Nom.				kW		149.2	166.9	162.3	183.6	188.6			
Capacity control	Method				Stepless										
Minimum capacity					%		10	17	10	15	10	13			
EER							3.143	2.911	3.134	2.906	3.141	3.037	3.252		
IPLV							5.317	5.593	5.351	5.607	5.392	5.316	5.64		
Dimensions	Unit	Height				mm		2,553							
		Width				mm		2,238							
		Depth				mm		5,800	4,720	5,800		6,880			
Weight	Unit				kg		4,233		4,032	4,422	4,834	4,934	5,370		
	Operation weight				kg		4,298		4,097	4,492	4,909	5,014	5,019	5,465	
Air heat exchanger	Type				Microchannel										
Compressor	Type				Screw compressor										
Fan	Quantity				2		1		2		1		2		
	Type				Direct propeller										
	Quantity				10		8		10		12				
Sound power level	Air flow rate	Cooling	Nom.		l/s		63,733		50,990	63,733	76,480				
	Cooling	Nom.				dBA		100.7	100.5	101.3	102.2	104.3	105.1	99	
Sound pressure level	Cooling	Nom.				dBA		79.96	80.28	80.56	81.47	83.15	83.92	77.8	
Operation range	Air side	Cooling	Min.~Max.				°CDB		-20 ~46						
Refrigerant	Type/GWP				R-1234(ze)/7										
	Charge				kg		65		70	75	80	85	95		
	Circuits	Quantity				2		1		2		1		2	
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm		168.3mm		139.7mm		168.3mm				
Unit	Starting current				A		0		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								



MicroTech 4



EWAH_H_S-TZ-D



EWAH-TZSSD

				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						
Fan	Quantity				2						
	Type				Direct propeller						
	Quantity				12	14		16	18	20	
	Air flow rate	Cooling	Nom.	l/s	76,480	89,233		101,908	114,714	127,460	
Sound power level	Cooling	Nom.		dBA	99.7	100.5	100.8	101.6	103	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						
Piping connections	Charge		kg	100	110	120	125	135	145	155	
	Circuits	Quantity			2						
	Evaporator water inlet/outlet (OD)				168.3mm		219.1mm			273mm	
Unit	Starting current	Max		A	0						
Unit	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						

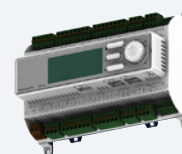
				EWAH-TZSSD	C12	H12	H13	C14	C15	H15
SEER					5.339	5.735	5.652	5.723	5.774	5.686
Cooling capacity	Nom.			kW	1,211	1,331	1,406	1,492	1,542	1,606
Power input	Cooling	Nom.		kW	416.6	409.9	455.3	495.6	512.4	566.3
Capacity control	Method				Stepless					
Minimum capacity				%	10	12	11	10		
EER					2.906	3.248	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					
Fan	Quantity				2					
	Type				Direct propeller					
	Quantity				20		22		24	
	Air flow rate	Cooling	Nom.	l/s	127,460		140,206		152,952	
Sound power level	Cooling	Nom.		dBA	107	104.4	105.2	106.2	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					
Piping connections	Charge		kg	170	185	195	205	215	225	
	Circuits	Quantity			2					
	Evaporator water inlet/outlet (OD)				273mm					
Unit	Starting current	Max		A	0					
Unit	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.

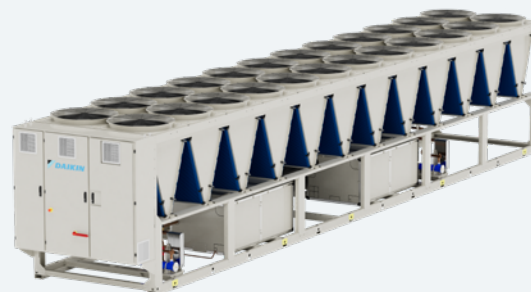
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EWAH-TZXSD				220	230	275	300	350	400	
SEER				5.528	5.478	5.899	5.78	6.259	6.127	
Cooling capacity	Nom.			kW	219.8	323.4	275.1	299.3	348.7	
Power input	Cooling	Nom.		kW	67.79	74.71	82.02	92.55	99.59	
Capacity control	Method			Stepless						
Minimum capacity				%	22	20	18	16	25	
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	
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	
	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
	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	
Power input	Cooling	Nom.		kW	135.2	139.9	159.8	152.6	155.1	
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	
	Operation weight			kg	4,951	4,634		5,398	5,180	
Air heat exchanger	Type			Microchannel						
Compressor	Type			Screw compressor						
Fan	Quantity			2		1		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	
	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	299	276.8	306.6	296.2	334.4
	current	Max		A	364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					



MicroTech 4



EWAH_H_S-TZ-D



EWAH-TZXSD

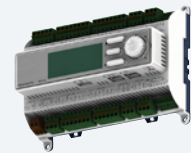
EWAH-TZXSD					620	645	700	750	790	840		
SEER					5.558	6.211	6.102	6.362	6.407	6.296		
Cooling capacity	Nom.				kW	617	641.9	697.1	752.7	788.8	841.2	
Power input	Cooling	Nom.				kW	191	186	209.1	225.9	249.4	
Capacity control	Method	Stepless										
	Minimum capacity				%	25	14	13	12		11	
EER					3.231	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			
Sound power level	Air flow rate	Cooling	Nom.		l/s	56,540	67,860	79,170	90,480			
					dBA	100.5	98.1	100.1	100.9	101.5	102.8	
Sound pressure level	Cooling	Nom.				dBA	79.81	76.91	78.9	79.3	79.61	80.92
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46						
Refrigerant	Type/GWP	R-1234(ze)/7										
	Charge				kg	85	90	95	105	110	115	
	Circuits	Quantity					1		2			
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm	168.3mm		219.1mm			
Unit	Starting current	Max				A		0				
	Running	Cooling	Nom.		A	353.5	388.6	428.2	445.5	457.9	493.4	
	current	Max				A	491	472	517	527	579	618
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400						
EWAH-TZXSD					900	975	H10	H11	H12	H13		
SEER					6.195	6.234	6.183	5.865	5.933	5.988		
Cooling capacity	Nom.				kW	897.2	972.1	1,082	1,184	1,275	1,383	
Power input	Cooling	Nom.				kW	273.7	299.9	326.1	346.2	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	
Sound power level	Air flow rate	Cooling	Nom.		l/s	90,480	101,772	113,080		124,388	135,696	
					dBA	105.1	106.8	104.7	102.7	103.6	104.5	
Sound pressure level	Cooling	Nom.				dBA	83.2	84.61	82.17	80.14	80.78	81.43
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46						
Refrigerant	Type/GWP	R-1234(ze)/7										
	Charge				kg	125	135	150	165	175	190	
	Circuits	Quantity							2			
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm		273mm				
Unit	Starting current	Max				A		0				
	Running	Cooling	Nom.		A	530.6	575.7	623.9	651.9	708.1	768.7	
	current	Max				A	655	702	787	902	992	1,090
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400						

Inverter screw with GOLD efficiency. Reduced sound.

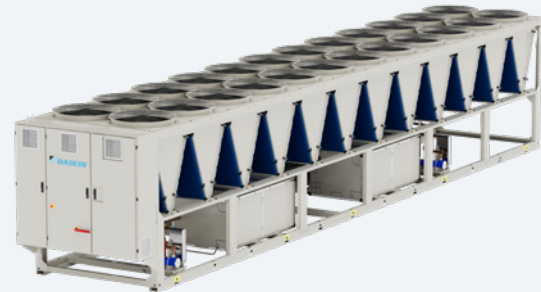
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EWAH-TZXRD				220	230	275	300	350	400
SEER				5.404	5.363	5.942	5.775	6.188	6.026
Cooling capacity	Nom.			kW	216.3	228.3	271.7	295.3	345.2
Power input	Cooling	Nom.		kW	68.5	75.92	81.59	92.45	98.6
Capacity control	Method			Stepless					
Minimum capacity				%	22	20	18	16	25
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
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	18,890		28,330		37,770
Sound power level	Cooling	Nom.		dBA	86.7	86.9	89.3	89.9	87.9
Sound pressure level	Cooling	Nom.		dBA	67.62	67.78	69.6	70.14	67.59
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			A	0				
	Running	Cooling	Nom.	A	150.2	163.3	180.6	199.6	216.9
	current	Max		A	172	183	214	236	269
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	
Power input	Cooling	Nom.		kW	132.7	139.1	159.9	153.8	153.6	
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	4,639	5,398	5,180	
Air heat exchanger	Type			Microchannel						
Compressor	Type			Screw compressor						
Fan	Quantity			2	1				2	
	Type			Direct propeller						
	Quantity			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	
Sound pressure level	Cooling	Nom.		dBA	69.38	72.53	70.32	68.42	69.59	
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			A	0					
	Running	Cooling	Nom.	A	305.9	283.6	314.9	306.1	343.5	
	current	Max		A	364	357	394	414	406	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					



MicroTech 4



EWAH-TZXRD



EWAH-TZXRD

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

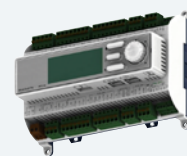
EWAH-TZXRD					900	975	H10	H11	H12	H13
SEER					6.216	6.252	6.226	5.875	5.942	5.987
Cooling capacity	Nom.				kW	886	959.8	1,066	1,167	1,363
Power input	Cooling	Nom.				kW	276	301.6	327.9	351.2
Capacity control	Method				Stepless					
Minimum capacity					%		10		14	13
EER					3.21	3.182	3.251	3.323	3.268	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
Weight	Unit				kg	6,842	7,323	8,211	8,880	9,362
	Operation weight				kg	6,847	7,338	8,241	8,925	9,417
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
Fan	Quantity					2				
	Type				Direct propeller					
	Quantity				16	18	20	22	24	
	Air flow rate	Cooling	Nom.	l/s	75,540	84,983	94,425	103,868	113,320	
Sound power level	Cooling	Nom.			dBA	94.1	95.6	94.1	92.7	94.2
Sound pressure level	Cooling	Nom.			dBA	72.22	73.4	71.53	70.14	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							2		
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm		273mm		
Unit	Starting current				A	0				
	Running	Cooling	Nom.		A	547.1	592.9	642.8	675.5	732.6
	current	Max				A	655	702	787	902
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				

Inverter screw with PLATINUM efficiency. Standard sound.

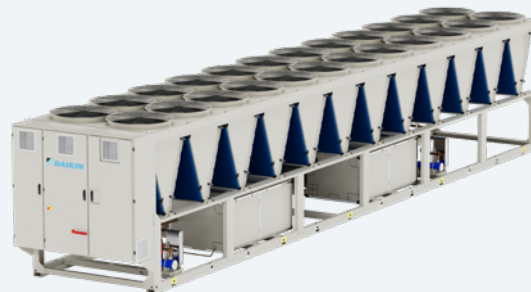
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization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

EWAH-TZPSD					225	265	295	340	395	420	
SEER					6.234	6.353	6.334	6.977	6.709	6.849	
Cooling capacity	Nom.				kW	227.3	266.6	293.6	336.7	421.5	
Power input	Cooling	Nom.				kW	61.76	71.25	81.63	84.16	
Capacity control	Method				Stepless						
Minimum capacity					%	22	19	17	28	23	
						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	
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.			I/s	33,930	45,240		56,540		
					dBA	97.5	98.1	102.6	95.7	98.7	
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	
	Circuits				Quantity	1					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm						
Unit	Starting current				Max	A	0				
	Running current	Cooling	Nom.			A	142.3	166.7	184.7	196.1	
						A	183	214	235	258	
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	
						3.561	3.737	3.721	3.736	
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
Weight	Unit				kg	5,136	5,157	5,639	5,805	
		Operation weight			kg	5,201	5,227	5,714	5,880	
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
Fan	Quantity				1	2		1	2	
	Type				Direct propeller					
	Quantity				12		14		12	
Sound power level	Cooling	Nom.			I/s	67,848		79,170		
					dBA	104.6	100.6	100.9	99	
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	1	2		1	
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm	168.3mm		139.7mm	219.1mm	
Unit	Starting current				Max	A	0			
	Running current	Cooling	Nom.			A	278	298.6	322.3	
						A	367	375	406	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				



MicroTech 4



EWAH_H_S-TZ-D



EWAH-TZPSD

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	
Power input	Cooling	Nom.				kW	167.4	190.8	209.2	
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				
		Width				mm				
		Depth				mm				
Weight	Unit				kg					
		Operation weight								
Air heat exchanger	Type				kg					
Compressor	Type					Microchannel				
	Quantity				Screw compressor					
Fan	Type				2					
	Quantity				Direct propeller					
	Air flow rate	Cooling	Nom.		I/s	14	16	18		
Sound power level	Cooling	Nom.				dBA	97.5	99.3	90,480	
Sound pressure level	Cooling	Nom.				dBA	75.95	77.76	101	
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46				
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge				kg	90	95	105	115	
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm					
Unit	Starting current	Max				A	0			
	Running current	Cooling	Nom.		A	365	403.1	437.5	473.2	
		Max				A	458	505	558	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				

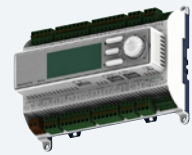
EWAH-TZPSD					960	C10	H10	H11	C12	
SEER					6.596	6.52	6.564	6.262	6.327	
Cooling capacity	Nom.				kW	958.2	1,006	1,068	1,216	
Power input	Cooling	Nom.				kW	268.9	289.6	305.9	
Capacity control	Method				Stepless					
	Minimum capacity				%	10		14		
EER					3.54	3.462	3.469	3.7	3.712	
IPLV					6.912	6.746	6.815	6.562	7.068	
Dimensions	Unit	Height				mm				
		Width				mm				
		Depth				mm				
Weight	Unit				kg					
		Operation weight								
Air heat exchanger	Type				kg					
Compressor	Type					Microchannel				
	Quantity				Screw compressor					
Fan	Type				2					
	Quantity				Direct propeller					
	Air flow rate	Cooling	Nom.		I/s	20	22		24	
Sound power level	Cooling	Nom.				dBA	106.5	106.9	105.5	
Sound pressure level	Cooling	Nom.				dBA	83.96	84.32	82.67	
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46				
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge				kg	130	140	150	160	
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)				273mm					
Unit	Starting current	Max				A	0			
	Running current	Cooling	Nom.		A	539.6	569.4	603	612	
		Max				A	694	731	779	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				

Inverter screw with PLATINUM efficiency. Reduced sound.

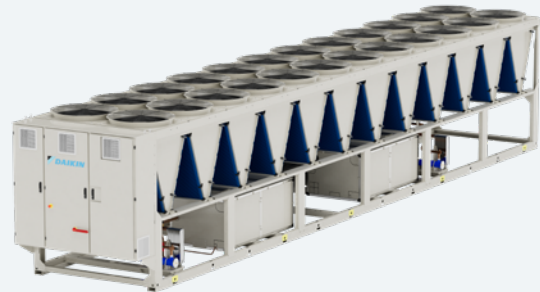
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization
- 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	113.2	
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		139.7mm			
Unit	Starting current			Max	A	0				
	Running	Cooling	Nom.	A	145.5	169.8	188.1	199.8	235.9	252.3
	current	Max	A	183	214	235	258	301	330	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAH-TZPRD				490	500	540	545	615	
SEER				6.728	6.458	6.426	6.091	6.484	
Cooling capacity	Nom.		kW	481.2	497.4	533.5	536.5	604.9	
Power input	Cooling	Nom.	kW	133.4	132.3	141.6	143.6	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				



MicroTech 4



EWAH_H_S-TZ-D



EWAH-TZPRD

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	892.3	
Power input	Cooling	Nom.	kW		167.4	190.8	209.2	230.4	254.6	
Capacity control	Method		Stepless							
	Minimum capacity		%		14	13	12	11	10	
EER					3.783	3.612	3.636	3.646	3.504	
IPLV					7.162	7.001	6.458	7.118	6.974	
Dimensions	Unit	Height	mm		2,553					
		Width	mm		2,238					
		Depth	mm		8,080		9,160		10,240	
Weight	Unit	kg		6,271		6,842		7,376		
	Operation weight		kg		6,241	6,246	6,827	7,371	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		66,098		75,540		84,983	
Sound power level	Cooling	Nom.	dBA		89.2	90.1	91.2	92.3	93.5	
Sound pressure level	Cooling	Nom.	dBA		67.65	68.52	69.33	70.02	71.3	
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		0			
	Running	Cooling	Nom.	A		374.4	414.8	449.1	484.8	521.2
	current	Max	A		458	505	558	609	647	
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400					

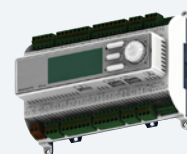
EWAH-TZPRD					960	C10	H10	H11	C12	
SEER					6.665	6.53	6.577	6.262	6.255	
Cooling capacity	Nom.		kW		949.1	994.9	1,056	1,150	1,204	
Power input	Cooling	Nom.	kW		268.9	289.6	305.9	315.5	327.6	
Capacity control	Method		Stepless							
	Minimum capacity		%		10		14			
EER					3.53	3.435	3.452	3.644	3.675	
IPLV					6.918	6.794	6.863	6.451	6.947	
Dimensions	Unit	Height	mm		2,553					
		Width	mm		2,238					
		Depth	mm		11,320		12,400		13,480	
Weight	Unit	kg		8,170		8,693		9,362		9,843
	Operation weight		kg		8,180	8,190	8,723	9,402	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		94,425		103,868		113,320	
Sound power level	Cooling	Nom.	dBA		95.4	95.7	94.8	92.6	93.1	
Sound pressure level	Cooling	Nom.	dBA		72.9	73.2	71.92	69.81	69.96	
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		0			
	Running	Cooling	Nom.	A		552.9	584.1	617.4	631.3	656.9
	current	Max	A		694	731	779	875	923	
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400					

Inverter screw cooling only with BLU efficiency. Standard sound.

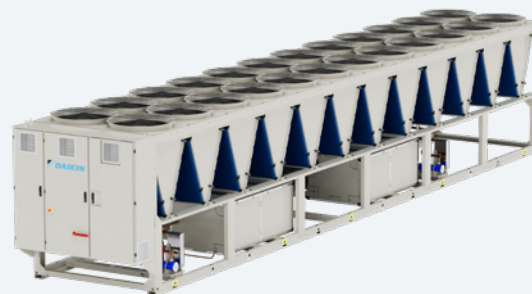
- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
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EWAS-TZBSD					275	320	345	400	470	525
SEER					4.3	4.4			4.6	
Cooling capacity	Nom.	kW			258.8	310.6	338.2	405.8	451.2	505.5
Power input	Cooling	kW			97.8	106.4	122.7	145.2	170.8	178.3
Capacity control	Method	Stepless								
	Minimum capacity	%			22	19	17	22	23	22
EER					2.646	2.919	2.756	2.795	2.642	2.835
IPLV					4.3	4.5	4.4	4.7	4.6	
Dimensions	Unit	Height	mm			2,553				
		Width	mm			2,238				
		Depth	mm			2,560	3,640			4,720
Weight	Unit	kg			2,602	3,084		3,486		4,032
	Operation weight	kg			2,677	3,169		3,583.7	3,593.7	4,160.1
Air heat exchanger	Type	Microchannel								
Compressor	Type	Screw compressor								
Fan	Quantity	1								
	Type	Direct propeller								
	Quantity				4	6				8
Air flow rate	Cooling	Nom.	l/s		25,490	38,235				50,990
	Sound power level	Cooling	Nom.	dBA	97.4	97.9	100	97.3	96.7	97.7
Sound pressure level	Cooling	Nom.	dBA		78.3	78.2	80.3	77.6	77	77.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~42					
Refrigerant	Type/GWP	R-513A/630								
	Charge	kg			35	45		55	65	70
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		
Unit	Starting current	Max			A	0				
	Running	Cooling	Nom.	A	190.1	207.1	228.7	262	300.2	315.2
	current	Max	A		220	262	284	346	362	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								
	Type	Direct propeller								
	Quantity				8	12				
Air flow rate	Cooling	Nom.	l/s		50,990	76,470				
	Sound power level	Cooling	Nom.	dBA	98.1	100.5	99	100	99	
Sound pressure level	Cooling	Nom.	dBA		77.8	80.3	77.8	78.8	77.8	
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~42					
Refrigerant	Type/GWP	R-513A/630								
	Charge	kg			80	85	105	115	125	
	Circuits	Quantity			1		2			
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm			168.3mm		219.1mm
Unit	Starting current	Max			A	0				
	Running	Cooling	Nom.	A	362.8	413.9	457.4	515.3	568.4	
	current	Max	A		457	464	600	668		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					



MicroTech 4



EWAD_H_S-TZ-D



EWAS-TZBSD

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
Power input	Cooling			kW	371.96	393.3	411.8	434.6	472.69
Capacity control	Method				Stepless				
	Minimum capacity			%	11		10		
EER					2.565	2.67	2.737	2.754	2.735
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
	Operation weight			kg	6,763	7,523	8,014	8,506	9,002
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				12	14	16	18	20
	Air flow rate	Cooling	Nom.	l/s	76,470	89,233	101,980	114,705	127,450
Sound power level	Cooling	Nom.		dBA	100	100.7	101	101.8	103.7
Sound pressure level	Cooling	Nom.		dBA	78.8	79.1		79.6	81.2
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~42				
Refrigerant	Type/GWP				R-513A/630				
	Charge			kg	140	150	160	170	185
	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
	current	Max		A	751	817	884	930	948
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				

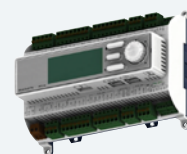
EWAS-TZBSD				C15	H16	H17	H18	H19
SEER				4.6	4.9	4.8	4.7	4.8
Cooling capacity	Nom.			kW	1,483.5	1,606	1,688	1,799.6
Power input	Cooling			kW	558.77	581.2	647.2	699.02
Capacity control	Method				Stepless			
	Minimum capacity			%	10	13	12	11
EER					2.655	2.763	2.608	2.574
IPLV					4.6	5.2		5.1
Dimensions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

Inverter screw with SILVER efficiency. Standard sound.

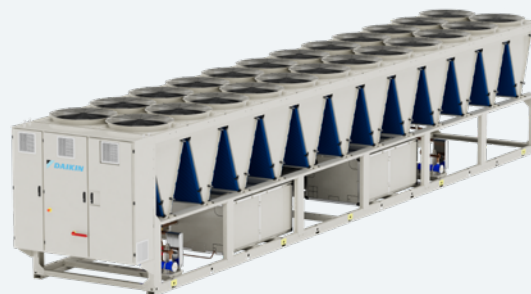
- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency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

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

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



MicroTech 4



EWAD_H_S-TZ-D



EWAS-TZSSD

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	1,359			
Power input	Cooling	Nom.				kW	274.7	321.4	354.4	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			
IPLV					5.6	5.5	5.4		5.5	5.4	5.5			
Dimensions	Unit	Height				mm	2,553							
		Width				mm	2,238							
		Depth				mm	7,960							
Weight	Unit				kg	6,151	6,623		6,816	7,297	8,260			
	Operation weight				kg	6,546	7,239	7,244	7,518	8,014	8,992			
Air heat exchanger	Type	Microchannel												
Compressor	Type	Screw compressor												
					Quantity	2								
Fan	Type	Direct propeller												
	Quantity					14			16		20	22		
Air flow rate					Cooling	Nom.	I/s		89,233		101,908	127,467	140,213	
Sound power level	Cooling	Nom.				dBA	100.2	99.6	100.2	100.5	101	102.5	104.2	
Sound pressure level	Cooling	Nom.				dBA	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								

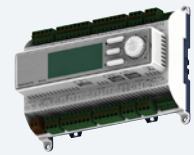
EWAS-TZSSD					H14	H15	H16	H17	H18	H19		
SEER					5.2	5.5	5.4		5.3	5.1		
Cooling capacity	Nom.				kW	1,465	1,542	1,638	1,756	1,837		
Power input	Cooling	Nom.				kW	526.1	516.5	577.2	627.5	695.5	
Capacity control	Method	Stepless										
Minimum capacity					%	10	14	13	12	11	10	
EER					2.785	2.985	2.838		2.798	2.641		
IPLV					5.4	6.1	5.9		5.8	5.7	5.5	
Dimensions	Unit	Height				mm	2,553					
		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										
					Quantity	2						
Fan	Type	Direct propeller										
	Quantity					22			24			
Air flow rate					Cooling	Nom.	I/s		140,213			
Sound power level	Cooling	Nom.				dBA	105.3	103.3	104.1	104.9	105.8	106.6
Sound pressure level	Cooling	Nom.				dBA	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.

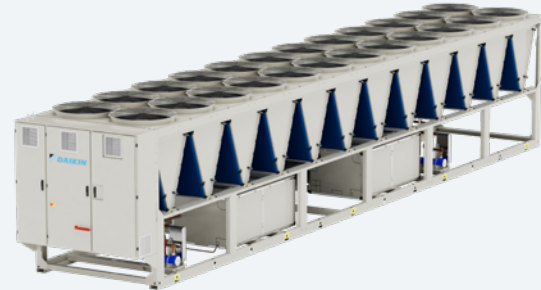
- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency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

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

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



MicroTech 4



EWAD_H_S-TZ-D



EWAS-TZXSD

				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		1,122		1,183					
Power input		Cooling		kW		246.2		266.2		300.2		310.7		346.2		357.9		393.7					
Capacity control		Method				Stepless																	
		Minimum capacity		%		10		14		13		12		11				10					
EER						3.229		3.28		3.137		3.18		3.039		3.135		3.005					
IPLV						6		6.4		6.2		6.3		6.1		6.3		6.1					
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																	
		Quantity				2																	
Fan		Type				Direct propeller																	
		Quantity				16				18				20									
		Air flow rate		Cooling		Nom.		l/s		90,480				101,772				113,080					
Sound power level		Cooling		Nom.		dBA		104.6		98.4		100.3		101		102.3		102.9		105.2			
Sound pressure level		Cooling		Nom.		dBA		83.9		76.1		76.5		76.8		77.5		77.6		77.9			
Operation range		Air side		Cooling		Min.~Max.		°CDB		-20 ~42													
Refrigerant		Type/GWP				R-513A/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		Cooling		Nom.		A		466.5		520.3		571.1		592.9		645.8		669.5		722.6	
		current		Max		A		573		626		683		720		782		744		803			
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		1,645		1,734									
Power input		Cooling		kW		426.7		452.1		446.3		503.1		562.8		628.6									
Capacity control		Method				Stepless																			
		Minimum capacity		%		10				15				14				13				12			
EER						2.97		2.973		3.231		3.083		2.923		2.759									
IPLV						6				6.1		6.2		6.1		5.9									
Dimensions		Unit		Height		mm		2,553																	
				Width		mm		2,238																	
				Depth		mm		11,200				12,280				13,360									
Weight		Unit		kg		8,316		9,655				10,805													
		Operation weight		kg		9,053		10,856		12,016		12,031		12,046		12,061									
Air heat exchanger		Type				Microchannel																			
Compressor		Type				Screw compressor																			
		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		104.5							
Sound pressure level		Cooling		Nom.		dBA		78		79.1		78.9		79.7		80.5		81.4							
Operation range		Air side		Cooling		Min.~Max.		°CDB		-20 ~42															
Refrigerant		Type/GWP				R-513A/630																			
		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		744.2		817.8		814.6		898.5		986.3		1,083					
		current		Max		A		851		899		997		1,103		1,217		1,330							
Power supply		Phase/Frequency/Voltage		Hz/V		3~/50/400																			

Inverter screw with GOLD efficiency. Reduced sound.

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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						



EWAS-TZXRD

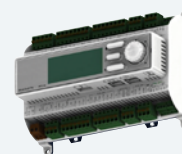
EWAS-TZXRD					805	880	950	C10	H10	H11	C12	
Capacity control	Method				Stepless							
	Minimum capacity				%	10	14	13	12	11	10	
Dimensions	Unit	Height	mm		2,553							
		Width	mm		2,238							
		Depth	mm		9,040			10,120		11,200		
Weight	Unit	kg		7,024	7,280		7,762		8,436			
	Operation weight		kg	7,615	7,881	7,891	8,378	8,388	9,148	9,158		
Air heat exchanger	Type				Microchannel							
Compressor	Type				Screw compressor							
	Quantity				2							
Fan	Type				Direct propeller							
	Quantity				16			18		20		
	Air flow rate	Cooling	Nom.	l/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 current	Max		A	573	626	683	720	782	744	803	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400						
EWAS-TZXRD					H12	H13	H14	H15	H16	H17		
Capacity control	Method				Stepless							
	Minimum capacity				%	10		15	14	13	12	
Dimensions	Unit	Height	mm		2,553							
		Width	mm		2,238							
		Depth	mm		11,200	12,280	13,360					
Weight	Unit	kg		8,436	9,775	12,136		12,151	12,166	12,181		
	Operation weight		kg	9,173	10,976	12,136		12,151	12,166	12,181		
Air heat exchanger	Type				Microchannel							
Compressor	Type				Screw compressor							
	Quantity				2							
Fan	Type				Direct propeller							
	Quantity				20	22	24					
	Air flow rate	Cooling	Nom.	l/s	94,425	103,868	113,320					
Sound power level	Cooling	Nom.	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 current	Max		A		899	997	1,103	1,217	1,330		
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400						

Inverter screw with PLATINUM efficiency. Standard sound.

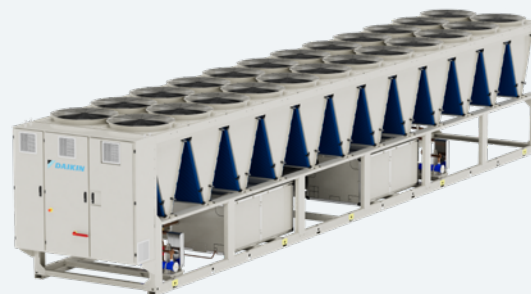
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EWAS-TZPSD 285				330	370	405	450	490
SEER				5.9	6	5.9	6.3	6.2
Cooling capacity	Nom.			287.6	333.2	370.2	405.1	488.4
Power input	Cooling	Nom.		81.89	96.83	111.6	110.6	123.5
Capacity control	Method			Stepless				
	Minimum capacity			23	20	18	30	25
EER				3.512	3.441	3.317	3.663	3.552
IPLV				6.5		6.4	7	7.2
Dimensions	Unit	Height	mm	2,553				
		Width	mm	2,238				
		Depth	mm	4,720	5,800		6,880	
Weight	Unit			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
Sound pressure level	Cooling	Nom.		dBA	78.2	81	81.9	74.2
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42			
Refrigerant	Type/GWP			R-513A/630				
	Charge			kg	40	45	50	55
	Circuits	Quantity			1			
Piping connections	Evaporator water inlet/outlet (OD)			88.9mm				
Unit	Starting current			Max	A	0		
	Running	Cooling	Nom.	A	181.1	212.7	238.2	242
	current	Max	A	220	258	285	293	352
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

EWAS-TZPSD 530				575	615	675	735	
SEER				6	5.9	5.8		
Cooling capacity	Nom.			531.7	573.6	620.2	677.1	732.9
Power input	Cooling	Nom.		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			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
Sound pressure level	Cooling	Nom.		dBA	78.6	79.9	80.9	83
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42			
Refrigerant	Type/GWP			R-513A/630				
	Charge			kg	75	80	85	95
	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
	current	Max	A	399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			



MicroTech 4



EWAD_H_S-TZ-D



EWAS-TZPSD

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	1,110	
Power input	Cooling	Nom.				kW	238.8	256.7	288.7	343.6	
Capacity control	Method	Stepless									
	Minimum capacity				%	10	14	13	12	11	
EER						3.392	3.444	3.304	3.349	3.231	
IPLV						6.5	6.8	6.6		6.5	
Dimensions	Unit	Height				mm	2,553				
		Width				mm	2,238				
		Depth				mm	10,120				12,280
Weight	Unit				kg	7,385	7,642	8,123		8,798	
	Operation weight				kg	7,976	8,243	8,253	8,744	9,515	
Air heat exchanger	Type	Microchannel									
Compressor	Type	Screw compressor									
	Quantity	2									
Fan	Type	Direct propeller									
	Quantity	18									
	Air flow rate	Cooling	Nom.		I/s	101,772		20		22	
Sound power level	Cooling	Nom.				dBA	104.6	98.6	100.4	101.1	102.4
Sound pressure level	Cooling	Nom.				dBA	83.6	75.9	76.3	76.6	77.3
Operation range	Air side	Cooling	Min.~Max.				-20 ~42				
Refrigerant	Type/GWP	R-513A/630									
	Charge				kg	110	120	130	140	150	
	Circuits					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
	current	Max				A	573	616	672	709	761
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	435.6	
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				13,360
Weight	Unit				kg	8,798	9,655	10,136		10,805	
	Operation weight				kg	9,520	10,846	11,337	12,021	12,036	
Air heat exchanger	Type	Microchannel									
Compressor	Type	Screw compressor									
	Quantity	2									
Fan	Type	Direct propeller									
	Quantity	22									
	Air flow rate	Cooling	Nom.		I/s	140,200		24		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.				-20 ~42				
Refrigerant	Type/GWP	R-513A/630									
	Charge				kg	165	180	190	205	220	
	Circuits					2					
Piping connections	Evaporator water inlet/outlet (OD)	219.1mm									
Unit	Starting current	Max				A	0				
	Running	Cooling	Nom.				A	748.1	756.2	796.3	798.5
	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					



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.	I/s	84,983			94,425		103,868
Sound power level	Cooling	Nom.	dB(A)	93.9	90.3	91.2	91.8	92.5	93	
Sound pressure level	Cooling	Nom.	dB(A)	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
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.	I/s	103,868			113,320		
Sound power level	Cooling	Nom.	dB(A)	94.5	96.4	95.4	92.6	93.1		
Sound pressure level	Cooling	Nom.	dB(A)	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	1,135
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

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

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



EWAT-B-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

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



EWAT-B-SRB

Cooling Only		EWAT-B-SRB	085	115	135	155	175	195	205	215
Space cooling	A Condition Pdc	kW	76.49	105	123.88	150.13	164.87	181.31	200.51	203.5
	ηs,c	%	161	173	161	166.2	162.2	167.8	161	
SEER			4.1	4.4	4.1	4.23	4.13	4.27	4.1	
Cooling capacity	Nom.	kW	76	105	124	150	165	181	201	204
Power input	Cooling Nom.	kW	33.7	40.3	53	65.9	73	73.2	84.6	91.9
Capacity control	Method		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	1,801							
		Width	1,204							
		Length	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 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
	Running 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
- 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-XSB



EWAT-B-XLB

Cooling Only				EWAT-B-XSB/XLB				085	115	145	180	185	200	220	230	250	280	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition Pdc 35°C			kW	87.9	113.89	143.48	179.01	182.67	200.92	226.26	238.95	254.88	281.64	304.64	305.17	326.28	351.74	371.72	424.99	472.32	538.3	609.11	662.39	704.37			
	ηs,c				%	167	183	175	-	175.8	173	177	169.4	175.8	180.6	181	181	177	170.6	176.2	179.4	179	179.4	181.4	182.6	180.2		
	ηs,c + VFDFAN				%	-			181.8	-	176.2	184.2	174.6	184.2	188.6	190.2	184.6	178.2	181	179.8	182.6	179.8	187	190.6				
SEER					4.25	4.65	4.45	4.62	4.47	4.48	4.5	4.31	4.47	4.59	4.6	4.5	4.34	4.48	4.56	4.55	4.56	4.61	4.64	4.58				
SEER + VFDFAN					-			4.38	-	4.40	4.68	4.44	4.68	4.79	4.83	4.69	4.53	4.6	4.57	6.64	4.57	4.75	4.84					
Cooling capacity	Nom.			kW	88	114	143	179	183	201	226	239	255	282	305	326	352	372	425	472	538	609	662	704				
Power input	Cooling	Nom.		kW	28.8	36.6	44.4	57	63.6	65.7	74.7	74.6	81.7	87.9	97.3	97.4	106.8	113	121	137	153	175	195	211	227			
Capacity control	Method			Step																								
	Minimum capacity			%	50	38	50	25	38	21	19	19	17	16	24	14	22	33	19	17	25	14	12	11	17			
EER					3.05	3.12	3.23	3.14	2.87	3.06	3.03	3.21	3.12	3.2	3.13	3.313	3.06	3.11	3.06	3.11	3.09	3.07	3.12	3.14	3.1			
IPLV + VFDFAN					4.83	4.90	4.88	5.11	4.74	4.87	4.72	4.6	4.69	4.78	4.86	4.77	4.79	4.38	4.7	4.8	4.9	4.8	4.79	4.82	4.77			
EER + VFDFAN					-			3.13	-	3.05	3.02	3.19	3.11	3.19	3.12	3.05	3.11	3.05	3.1	3.08	3.07	3.11	3.13	3.09				
IPLV					-			4.65	-	4.67	4.97	5	5.02	5.14	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	1,801	1,822	2,540				2,540																		
		Width	mm	1,204	2,224				2,224																			
		Length	mm	2,650	3,170	3,770	2,338	3,770	2,338	3,230	3,247				4,147	4,135	5,034				5,888	6,795						
Weight (XSB)	Unit	kg	737	830	949	1,633	1,066	1,663	1,699	2,014	1,987	2,128	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	742	836	958	1,644	1,078	1,674	1,710	2,030	2,001	2,147	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	747	840	959	1,736	1,076	1,766	1,802	2,082	2,090	2,231	2,318	2,262	2,299	2,731	2,801	2,888	3,393	4,106	4,500	4,642						
	Operation weight	kg	752	846	968	1,747	1,088	1,777	1,813	2,098	2,104	2,250	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	5	6	9	11	12	11	16	14	19	20	19	20	28	28	42	50										
	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	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	31.6	37.3	31	40.7	45.1	50.1	43.7	49.2	54.2	59.8	62.2	46.1	51.9	80.6	65.7	56.6	68.5	59.7	74.6	70.2	78.5				
Air heat exchanger	Type	Microchannel																										
	Compressor	Type	Scroll compressor																									
	Quantity	2				4	2	4	2	4	2	4	3	4	3	4	3	4	5	6								
Fan	Type	Direct propeller																										
	Quantity	6	8	10	4	10	4	4	5	6	7	8	9	10	12	13	14											
	Air flow rate	Nom.	l/s	9,036	12,023	15,057	20,306	15,057	20,306	25,382	30,459				35,535	40,612	45,688	50,765	60,918	65,994	71,071							
	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	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.	dBA	85.2	87.1	88.5	90.6	89.3	90.6	90.7	91.8	91.7	92.5	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.	dBA	68.3	70.8	72.2	72.3	73.7	73.1	73.7	75.3	74.3	75.1	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.	dBA	67.5	69.1	70.1	71.6	70.9	71.7	72.3	72.2	73	73.1	73	73.1	73.3	73.3	73.9	74	74.8	75.2							
Refrigerant	Type/GWP	R-32/675																										
	Charge	kg	9	10	11	20	12	20	23.5	24	27.5	28	27.5	32	31	36	43.5	49	55	60	66							
	Circuits	Quantity	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	2									
Piping connections	Evaporator water inlet/outlet (OD)	mm	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	114.3							
Unit	Starting current	Max	A	215	315	328	290	464	388	399	506	414	543	554	564	592	602	640	678	727	779	817	855					
	Running current	Cooling	Nom.	A	56	67	78	110	108	122	135	128	145	158	168	170	183	192	208	234	259	298	334	360	387			
	current	Max	A	75	87	100	149	134	160	171	176	186	213	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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EWAT-B-XRB

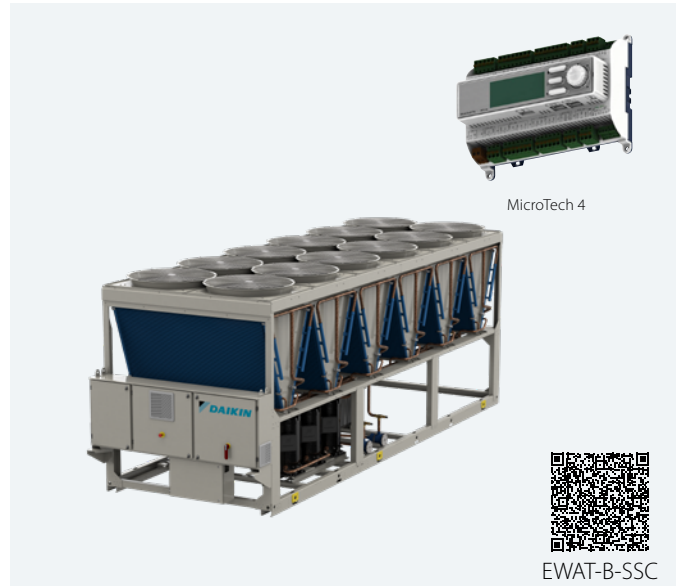
Cooling Only				EWAT-B-XRB																			085	115	145	180	185	200	220	230	250	280	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition	Pdc	kW	81.86	108.59	135.62	168.03	166.16	187.56	208.44	224.52	238.22	264.73	284.94	284.65	301.84	328.88	346.48	394.41	439.5	501.51	571.63	621.1	659.28																			
	35°C		%	150.6	179.4	166.6	177	164.6	186.6	179	169	177	186.6	185.8	183	173.8	180.6	176.2	181.8	179	183	187.4	185.4																				
SEER				4.13	4.56	4.24	4.5	4.19	4.74	4.55	4.3	4.5	4.74	4.72	4.65	4.42	4.59	4.48	4.62	4.55	4.65	4.76	4.71																				
Cooling capacity	Nom.		kW	82	109	136	168	166	188	208	225	238	265	285	302	329	346	394	440	502	572	621	659																				
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	105	103	115	121	130	147	163	190	207	224	242																			
Capacity control	Method			Step																																							
	Minimum capacity		%	50	38	50	25	38	21	19	50	17	16	24	14	22	33	19	17	25	14	12	11	17																			
EER				2.66	2.79	2.89	2.84	2.36	2.69	2.58	2.84	2.73	2.87	2.72	2.76	2.63	2.71	2.67	2.69	2.64	2.76	2.77	2.72																				
IPLV				4.74	4.91	4.70	5.04	4.72	5.05	4.97	4.86	4.91	5.08	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	1,801	1,822	2,540	1,822	2,540																																			
			mm	1,204	2,224	1,204	2,224																																				
			mm	2,650	3,170	3,770	2,338	3,770	2,338	3,230	3,247	3,230	3,247	4,147	4,135	5,034	5,888	6,795																									
Weight	Unit		kg	747	840	959	1,736	1,076	1,776	1,802	2,082	2,090	2,231	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	752	846	968	1,747	1,088	1,777	1,813	2,098	2,104	2,250	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	5	6	9	11	12	11	16	14	19	20	19	20	28	42	50																									
	Water flow rate	Cooling	Nom.	l/s	3.9	5.2	6.5	8	7.9	9	10	10.7	11.4	12.6	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	27.8	34.2	28	36.3	38	44.2	37.7	44	48.2	35.6	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			2	4	2	4	2	4	2	4	3	4	3	4	5	6																										
Fan	Type			Direct propeller																																							
	Quantity			6	8	10	4	10	4	5	6	7	8	9	10	12	13	14																									
	Air flow rate	Nom.	l/s	6.673	8.896	11.122	15.054	11.122	15.054	18.819	18.818	22.582	26.346	30.110	33.874	37.637	45.164	48.928	52.692																								
	Speed		rpm	1,108	700	1,108	700	1,108	700	1,108	700	1,108	700	1,108	700	1,108	700	1,108	700	1,108	700	1,108	700	1,108																			
Sound power level	Cooling	Nom.	dBA	77.9	81.9	84	84.2	86	84.5	84.8	86.2	85.8	86.6	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	60.2	63.9	65.6	65.3	67.7	65.5	65.8	66.7	66.3	67.1	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	9	10	11	12	20	23.5	24	27.5	28	27.5	32	31	36	43.5	49	55	60	66																						
	Circuits	Quantity		1	2	1	2	1	2	1	2	1	2	1	2	1	2	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	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1																			
Unit	Starting current	Max	A	215	315	328	290	464	388	399	506	414	543	554	564	592	602	640	678	727	779	817	855																				
	Running current	Cooling	Nom.	A	59	71	83	113	118	128	143	134	151	164	177	179	194	204	221	250	276	319	352	410																			
	current	Max	A	75	87	100	149	134	160	171	176	186	213	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	250B-SSC2	270B-SSC2	310B-SSC1	320B-SSC2	350B-SSC1	380B-SSC2	430B-SSC2	480B-SSC2
Space cooling	A Condition Pdc 35°C ηs,c	kW	241.8	253	305.92	317.98	345.59	381.40	426.61	477.56
		%	185.4	182.2	184.6	177.7	181.2	183.0	184.9	183.0
SEER			4.71	4.63	4.689	4.517	4.604	4.649	4.698	4.649
Cooling capacity	Nom.	kW	241.8	253	305.92	317.98	345.59	381.40	426.61	477.56
Power input	Cooling Nom.	kW	80.77	86.82	106.6	115.0	130.0	125.2	148.6	176.0
Capacity control	Method									
	Minimum capacity	%	17	25	22	21	19	18	16	14
EER			2.994	2.914	2.869	2.764	2.658	3.046	2.871	2.714
IPLV			5.08	5.07	4.948	4.794	4.948	4.849	4.907	4.940
Dimensions	Unit	Height	2,535							
		Width	2,238							
		Depth	2,514							
Weight	Unit	kg	2,019	2,063	2,076	2,118	2,200	2,618	2,801	2,924
	Operation weight	kg	2,039	2,083	2,099	2,146	2,228	2,646	2,837	2,960
Air heat exchanger	Type		Microchannel							
Compressor	Type		Scroll compressor							
	Quantity									
Fan	Type		Direct propeller							
	Quantity									
	Air flow rate	Cooling Nom.								
Sound power level	Cooling Nom.	dB(A)								
Sound pressure level	Cooling Nom.	dB(A)								
Operation range	Air side Cooling Min.~Max.	°CDB								
Refrigerant	Type/GWP									
	Charge	kg								
	Circuits	Quantity								
Piping connections	Evaporator water inlet/outlet (OD)									
Unit	Starting current	Max								
	Running current	Cooling Nom.								
	current	Max								
Power supply	Phase/Frequency/Voltage	Hz/V								

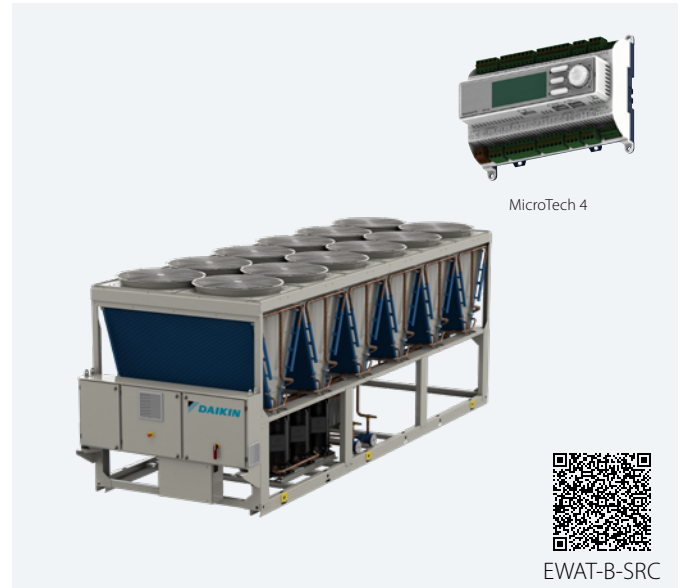
Cooling Only		EWAT	570B-SSC2	620B-SSC2	670B-SSC2	730B-SSC2	790B-SSC2	860B-SSC2	960B-SSC2
Space cooling	A Condition Pdc 35°C ηs,c	kW	567.34	622.34	668.92	734.97	791.18	857.22	961.63
		%	190.4	188.9	188.1	190.4	190.8	192.6	189.0
SEER			4.834	4.797	4.778	4.834	4.844	4.889	4.801
Cooling capacity	Nom.	kW	567.34	622.34	668.92	734.97	791.18	857.22	961.63
Power input	Cooling Nom.	kW	185.5	213.1	237.0	248.6	273.9	285.5	335.1
Capacity control	Method								
	Minimum capacity	%	22	20	18	17	15	14	25
EER			3.058	2.921	2.823	2.957	2.889	3.002	2.870
IPLV			5.062	5.073	5.088	5.120	5.092	5.122	5.079
Dimensions	Unit	Height	2,535						
		Width	2,238						
		Depth	5,574						
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								
Fan	Type		Direct propeller						
	Quantity								
	Air flow rate	Cooling Nom.							
Sound power level	Cooling Nom.	dB(A)							
Sound pressure level	Cooling Nom.	dB(A)							
Operation range	Air side Cooling Min.~Max.	°CDB							
Refrigerant	Type/GWP								
	Charge	kg							
	Circuits	Quantity							
Piping connections	Evaporator water inlet/outlet (OD)								
Unit	Starting current	Max							
	Running current	Cooling Nom.							
	current	Max							
Power supply	Phase/Frequency/Voltage	Hz/V							

Air cooled scroll compressor chiller

Gold efficiency

Standard sound

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



Cooling Only				EWAT	250B-SRC2	270B-SRC2	310B-SRC1	320B-SRC2	350B-SRC1	380B-SRC2	430B-SRC2	480B-SRC2		
Space cooling	A Condition Pdc			kW	240.1	259.9	297.62	308.38	334.14	373.60	415.25	463.29		
	35°C ηs,c			%	201.4	187.4	197.5	185.0	189.2	192.8	193.5	193.1		
SEER					5.11	4.76	5.013	4.700	4.806	4.895	4.913	4.902		
Cooling capacity	Nom.			kW	240.1	259.9	297.62	308.38	334.14	373.60	415.25	463.29		
Power input	Cooling	Nom.		kW	83.45	93.89	108.0	117.1	133.5	124.4	149.9	179.2		
Capacity control	Method				Step									
	Minimum capacity			%	17	25	22	21	19	18	16	14		
EER					2.877	2.768	2.757	2.634	2.502	3.003	2.771	2.586		
IPLV					5.54	5.34	5.485	4.999	5.319	5.324	5.339	5.382		
Dimensions	Unit	Height		mm	2,535									
		Width		mm	2,238									
		Depth		mm	2,514									
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									
Fan	Quantity				4		3		4			5		
	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.		dB(A)	88		87.9		87.8		88.1		89.5	
Sound pressure level	Cooling	Nom.		dB(A)	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	
	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	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									

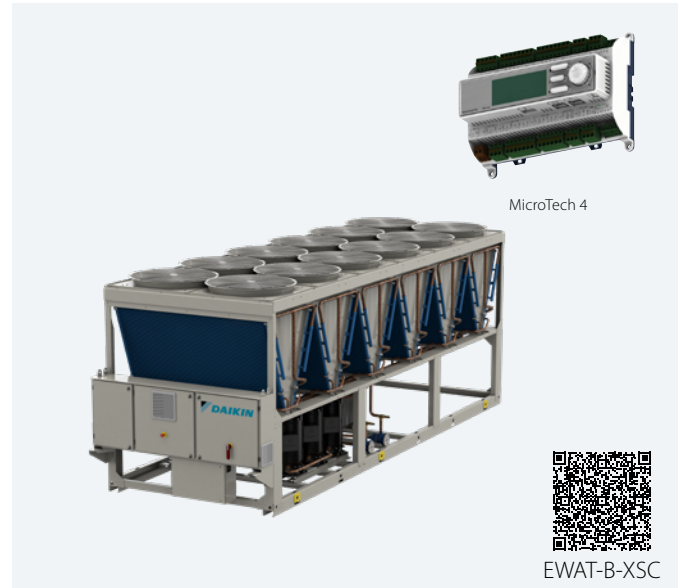
Cooling Only				EWAT	570B-SRC2	620B-SRC2	670B-SRC2	730B-SRC2	790B-SRC2	860B-SRC2	960B-SRC2	
Space cooling	A Condition Pdc 35°C ηs,c			kW	553.35	605.02	647.77	714.95	768.57	835.75	933.57	
				%	202.0	200.3	197.9	205.2	206.3	208.4	201.8	
SEER					5.124	5.083	5.022	5.206	5.232	5.284	5.121	
Cooling capacity	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							
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	1,219	
	Running current	Cooling	Nom.	A	344	392	434	459	503	529	615	
	current	Max		A	443	488	531	584	630	683	771	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400							

Air cooled scroll compressor chiller

Gold efficiency

Standard sound

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



Cooling Only				EWAT	180B-XSC2	210B-XSC2	230B-XSC2	250B-XSC2	250B-XSC1	290B-XRC2	320B-XRC2	320B-XSC1	350B-XRC2	370B-XSC1	10B-XSC2		
Space cooling	A Condition Pdc			kW	182.9	205	221.3	246.7	252.39	287.1	321.5	324.44	334.1	371.33	1,009.36		
	35°C																
	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																
	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		mm	2,238												
		Depth		mm													
Weight	Unit			kg	1,877	1,939	2,002	2,046	1,963	2,488	2,664	2,466	2,666	2,585	6,251		
		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												
	Quantity				4												
Fan	Type				Direct propeller												
	Quantity				4												
	Air flow rate			Cooling	Nom.	I/s	25,500				25,490		38,240				101,980
Sound power level	Cooling	Nom.		dB(A)	91		92		93.5		94		94.8		95.3	99.5	
Sound pressure level	Cooling	Nom.		dB(A)	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				33.1		50.0		44.0	55.0	75.0		
	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			Cooling	Nom.	A	112	125	134	154	142	175	190	181	209	212	
	current			Max	A	146	162	181	199	199	227	257	255	275	298	792	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

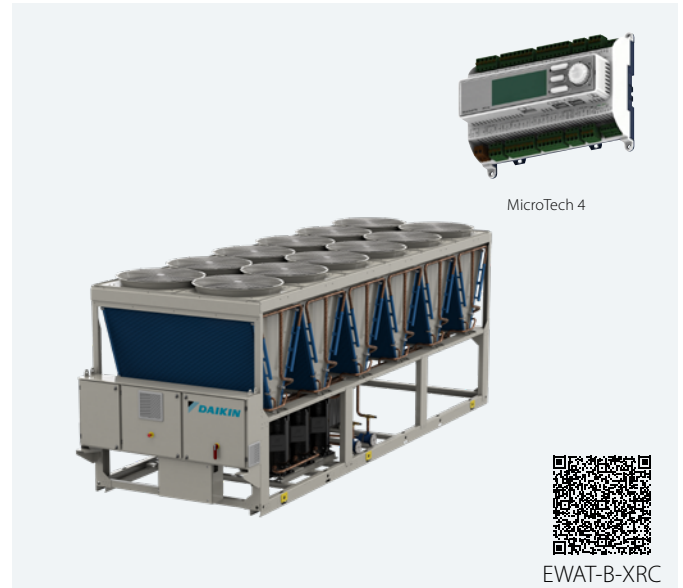
Cooling Only				EWAT	390B-XSC2	450B-XSC2	510B-XSC2	540B-XSC2	590B-XSC2	630B-XSC2	720B-XSC2	760B-XSC2	830B-XSC2	880B-XSC2	
Space cooling	A Condition Pdc			kW	387.85	448.05	512.31	539.39	586.74	631.42	716.56	762.50	834.45	880.39	
	35°C														
	ηs,c			%	184.9	187.4	189.4	192.5	192.4	192.6	193.9	194.2	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														
	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		mm	2,238										
		Depth		mm	3,594	4,674			5,754		6,834		8,008		
Weight	Unit			kg	2,657	3,169	3,359	3,804	3,916	4,024	4,565	4,673	5,442	5,551	
		Operation weight		kg	2,693	3,205	3,419	3,864	3,979	4,084	4,642	4,750	5,519	5,628	
Air heat exchanger	Type				Microchannel										
Compressor	Type				Scroll compressor										
	Quantity				4										
Fan	Type				Direct propeller										
	Quantity				6										
	Air flow rate			Cooling	Nom.	I/s	38,240	50,980		63,730		76,480		89,230	
Sound power level	Cooling	Nom.		dB(A)	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.		dB(A)	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			Cooling	Nom.	A	223	252	284	292	323	354	394	425	464
	current			Max	A	302	355	397	410	453	496	551	594	694	495
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

Air cooled scroll compressor chiller

Gold efficiency

Standard sound

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

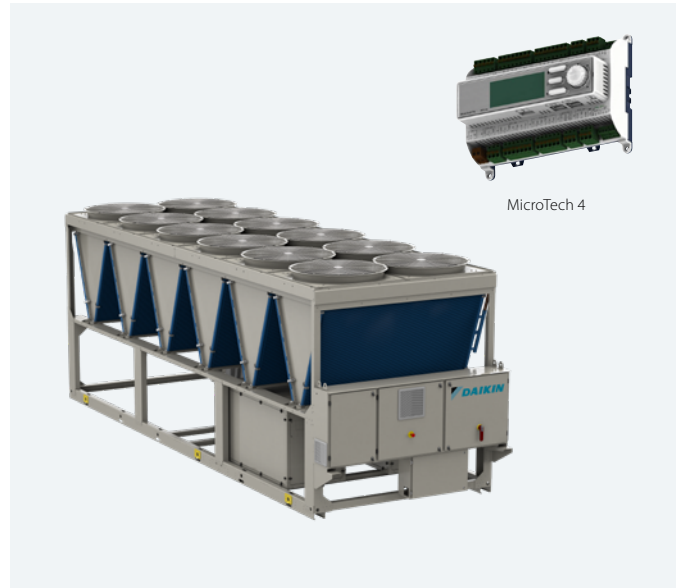


Cooling Only				EWAT	180B-XRC2	210B-XRC2	230B-XRC2	250B-XRC2	250B-XRC1	290B-XRC2	320B-XRC1	320B-XRC2	350B-XRC2	370B-XRC1	10B-XRC2
Space cooling	A Condition Pdc 35°C ηs,c			kW	169.8	192.1	220.5	239.4	241.40	274.5	313.20	286.2	326.9	355.68	965.50
SEER				%	200.6	201.4	204.6	197.4	195.6	203.4	204.4	207	202.2	202.6	206.2
Cooling capacity	Nom.			kW	5.09	5.11	5.19	5.01	4.965	5.16	5.186	5.25	5.13	5.140	5.229
Power input	Cooling Nom.			kW	169.8	192.1	220.5	239.4	241.40	274.5	313.20	286.2	326.9	355.68	965.50
Capacity control	Method Minimum capacity			%	Step										
EER					25	21	19	17	50	25	22	13	20	19	25
IPLV					3.319	3.11		2.794	2.977	3.006	3.135	3.074	2.842	2.929	2.985
Dimensions	Unit	Height Width Depth		mm	5.51	5.59	5.5	5.51	5.340	5.77	5.525	5.67	5.72	5.487	5.576
				mm	2,535										
Weight	Unit	Operation weight		mm	2,238										
				kg	2,514			2,510	3,594	53,600	3,594	3,594	3,590	9,090	
Air heat exchanger	Type			kg	1,965	2,026	2,090	2,134	1,963	2,604	2,576	2,831	2,833	2,585	6,251
Compressor	Type			kg	1,979	2,046	2,118	2,162	1,968	2,604	2,604	2,831	2,833	2,610	6,350
Fan	Quantity			Microchannel											
	Type			Scroll compressor											
	Quantity			4											
	Type			2 4 3 5 5 3											
	Quantity			Direct propeller											
	Air flow rate Cooling Nom.			6											
Sound power level	Cooling	Nom.		I/s	18,900										
Sound pressure level	Cooling	Nom.		dBA	83										
Operation range	Cooling	Nom.		dBA	64										
Refrigerant	Air side	Cooling	Min.~Max.	°CDB	-20 ~52										
	Type/GWP			R-32/675											
	Charge			kg	19.2			44.0	33.1	50.0	33.1	33.1	55.0	75.0	
	Circuits	Quantity			2			1	2		2	2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm										
Unit	Starting current Max			A	304	429	446	464	647	492	703	523	540	746	1,240
	Running Cooling Nom.			A	103	119	131	152	143	164	178	205	205	213	570
	current Max			A	146	163	181	199	199	227	255	275	275	298	792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

Cooling Only				EWAT	390B-XRC2	450B-XRC2	510B-XRC2	540B-XRC2	590B-XRC2	630B-XRC2	720B-XRC2	760B-XRC2	830B-XRC2	880B-XRC2
Space cooling	A Condition Pdc 35°C ηs,c			kW	370.32	431.43	489.48	520.68	563.54	603.94	687.57	728.98	800.94	842.34
SEER				%	196.2	203.3	201.3	208.2	207.8	206.5	208.6	207.0	210.0	208.8
Cooling capacity	Nom.			kW	4.979	5.158	5.108	5.279	5.270	5.237	5.291	5.249	5.324	5.294
Power input	Cooling Nom.			kW	370.32	431.43	489.48	520.68	563.54	603.94	687.57	729.00	800.94	842.34
Capacity control	Method Minimum capacity			%	Step									
EER					18	16	25	14	22	20	18	17	15	14
IPLV					2.869	3.052	3.019	3.262	3.119	2.990	3.107	3.003	3.067	2.979
					5.317	5.446	5.528	5.630	5.620	5.601	5.649	5.605	5.613	5.605
Dimensions	Unit	Height Width Depth		mm	2,535									
				mm	2,238									
Weight	Unit	Operation weight		mm	3,590	4,670		5,750		6,830		8,010		
				kg	2,657	3,169	3,359	3,804	3,916	4,024	4,565	4,673	5,442	5,551
Air heat exchanger	Type			kg	2,693	3,205	3,419	3,864	3,976	4,084	4,642	4,750	5,519	5,628
Compressor	Type			Microchannel										
	Quantity			Scroll compressor										
	Type			4										
	Quantity			Direct propeller										
	Air flow rate Cooling Nom.			I/s	6	8			10		12		14	
Sound power level	Cooling	Nom.		dBA	28,350	37,800			47,250		56,700		66,150	
Sound pressure level	Cooling	Nom.		dBA	85.6	86.8	87.0	87.6	87.8	87.9	88.6	88.7	89.3	89.4
Operation range	Cooling	Nom.		dBA	65.9	66.5	66.7	66.9	67.1	67.2	67.5	67.6	67.7	67.8
Refrigerant	Air side	Cooling	Min.~Max.	°CDB	-20 ~52									
	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 Cooling Nom.			A	225	249	286	287	322	356	393	428	463	498
	current Max			A	302	355	397	410	453	496	551	594	694	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

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

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



MicroTech 4



EWFT-B-SSC

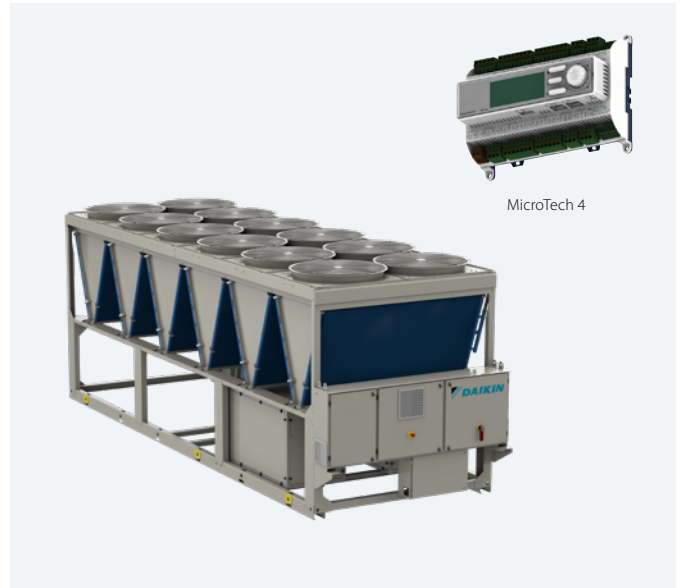
Cooling Only					EWFT	310B-SSC1	320B-SSC2	350B-SSC1	380B-SSC2	430B-SSC2	480B-SSC2	570B-SSC2	620B-SSC2	670B-SSC2	730B-SSC2		
SEER						4.833	4.546	4.641	4.688	4.73	4.742	4.921	4.879	4.815	5.014		
Cooling capacity	Nom.				kW	395.2	351.7	439.1	499.3	493.6	553.8	738.6	803.5	749.6	843.7		
Power input	Cooling	Nom.			kW	121.6	95.91	151.7	138.4	131.3	164.2	211	245.1	211.9	220.9		
Capacity control	Method					Step											
	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										
						mm	2,238										
						mm	2,514										
Weight	Unit				kg	2,245	2,288	2,373	2,852	3,012	3,155	3,774	3,953	4,056	4,667		
	Operation weight				kg	2,388	2,436	2,521	3,023	3,198	3,341	4,044	4,223	4,343	5,054		
Air heat exchanger	Type					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.		l/s	22,510			33,765			45,020			56,275		
Sound power level	Cooling	Nom.			dBA	94	93.8	94.5	95.1	95.6	95.9	96.7	97	97.3	97.9		
Sound pressure level	Cooling	Nom.			dBA	74.9	74.7	75.5	75.4	75.9	76.2	76.5	76.7	77.0	77.2		
Operation range	Air side	Cooling	Min.~Max.		°CDB	-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
Power input				Cooling	Nom.	kW	316.1
Capacity control				Method		Step	
				Minimum capacity	%	15	14
EER					3.222	3.422	3.188
IPLV					5.307	5.381	5.312
Dimensions				Unit	Height	2,535	
					Width	2,238	
					Depth	5,848	
Weight				Unit	kg	5,035	5,546
				Operation weight	kg	5,422	5,975
Air heat exchanger				Type		Microchannel	
Compressor				Type		Scroll compressor	
Fan				Quantity		7	8
				Type		Direct propeller	
				Quantity		10	12
				Air flow rate	Cooling	Nom.	56,275
							67,530
Sound power level				Cooling	Nom.	98.1	98.6
Sound pressure level				Cooling	Nom.	77.4	77.5
Operation range				Air side	Cooling	Min.~Max.	-20 ~46
Refrigerant				Type/GWP		R-32/675.0	
				Charge	kg	63.0	68.0
				Circuits	Quantity	2	2
Piping connections				Evaporator water inlet/outlet (OD)		139.7	
Unit				Starting current	Max	A	1,079
				Running	Cooling	Nom.	A
				current	Max	A	559
							631
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

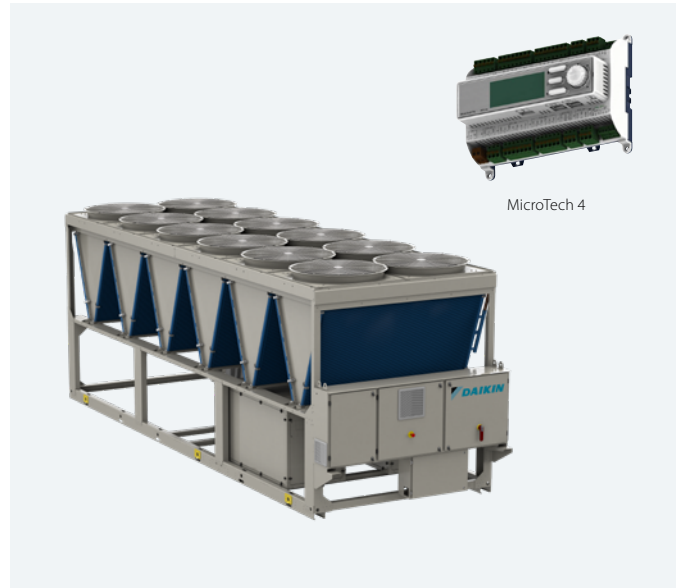
Cooling Only				EWFT	310B-SRC1	320B-SRC2	350B-SRC1	380B-SRC2	430B-SRC2	480B-SRC2	570B-SRC2	620B-SRC2	670B-SRC2	730B-SRC2
SEER					4.778	4.329	4.602	4.713	4.715	4.662	4.899	4.823	4.782	4.972
Cooling capacity	Nom.			kW	395.2	408.4	439.1	480.6	544.2	598.2	725	762.6	851.4	947.6
Power input	Cooling	Nom.		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

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- Scroll compressors;
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- Glycol free option;
- New Daikin MicroTech 4 controller.



MicroTech 4



EWFT-B-XSC

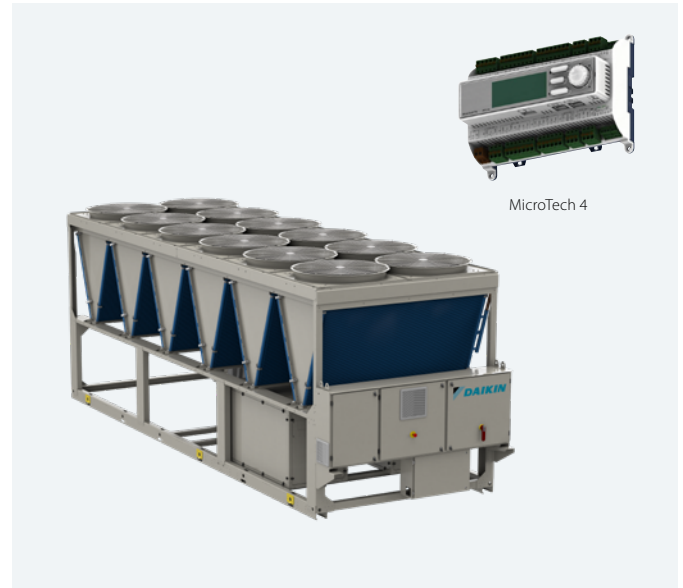
Cooling Only				EWFT	10B-XSC2	250B-XSC1	320B-XSC1	370B-XSC1	390B-XSC2	450B-XSC2	510B-XSC2	540B-XSC2	590B-XSC2	630B-XSC2
SEER					5.189	4.723	5.186	5.011	4.74	4.957	4.911	5.213	5.141	5.131
Cooling capacity	Nom.			kW	1,326	331.9	429.6	487.6	508.5	591.6	673.7	716.2	774.8	829.5
Power input	Cooling	Nom.		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				
Piping connections	Evaporator water inlet/outlet (OD)				139.7	88.9				139.7				
Unit	Starting current	Max		A	1,240	647	703	746	750	803	845	858	901	944
	Running current	Cooling	Nom.	A	642.5	160.7	202.1	239.6	253.6	282.7	322.7	327.1	364.3	401.6
	current	Max		A	792	199	255	298	302	355	397	410	453	496
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

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

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

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

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- 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.	A	490.5		536.1		577.5		623.1	
	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.

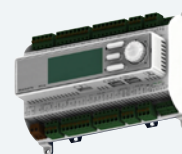
Air cooled Inverter screw free cooling with BLU efficiency. Standard sound.

- 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 optimization
- 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
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFD TZ-D BS		275	320	345	400	470	510	525
Cooling Capacity (1)	kW	369.3	428	465.2	559.3	618.4	686.7	708.2
Power input (1)	kW	109.9	119	138	167.3	196	200.4	206.7
EER (1)		3.36	3.6	3.37	3.34	3.16	3.43	3.43
SEER (1)(2)		4.949	5.245	5.331	5.382	5.141	4.802	5.364
η _{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	Lt		40		42.7		270	58.1
Minimum Water flow rate (10)	l/s		7.6		5.94		8.6	10.2
Dimensions	Length	mm	2,560		3,640			4,720
	Width	mm				2,238		
	Height	mm				2,553		
Weight (8)	Unit (8)	kg	2,626	3,136	3,136	3,581	4,045	4,154
	Operating weight (8)	kg	2,847	3,432	3,432	3,907	3,917	4,662
Water Connection Size	Ø mm		88.9		139.7		168.3	139.7
Unit	Running Current (1)(8)(11)	A	178	192	220	270	312	327
	Max Running Current (7)(8)(11)	A	220	262	284	346	362	411
	Current for Wiring Sizing (8)(11)	A	242	287	287	381	398	452
	Max Inrush Current (8)(9)(11)	A				0		

EWFD TZ-D BS		275	320	345	400	470	510
Cooling Capacity (1)	kW	369.3	428	465.2	559.3	618.4	686.7
Power input (1)	kW	109.9	119	138	167.3	196	200.4
EER (1)		3.36	3.6	3.37	3.34	3.16	3.43
SEER (1)(2)		4.949	5.245	5.331	5.382	5.141	4.802
η _{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 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) This are intended as guideline 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.



MicroTech 4



EWFD-TZBSD

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
ηs,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	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		Lt	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	8,776
Water Connection Size		Ø mm	168.3				219.1		
Unit	Running Current (1)(8)(11)	A	460	524	582	745	712	749	792
	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	947
	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	673.3	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
ηs,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	104	105	106	104	105	106	107
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	12,150
Water Connection Size		Ø mm	219.1				273		
Unit	Running Current (1)(8)(11)	A	867	954	1,027	1,051	1,162	1,287	1,477
	Max Running Current (7)(8)(11)	A	948	1,120	1,200	1,227	1,340	1,475	1,608
	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) This are intended as guideline 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.

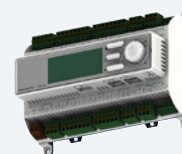
Air cooled Inverter screw free cooling with SILVER efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- 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
- 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	98	98	100	98	97	99	98
	Lw with + OP76b	96	98	97	99	98	99	98
Number of circuits / Compressors		1					2	1
Water volume – open loop Free Cooling	Lt	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	99	101	98	101	101	103
	Lw with + OP76b	99	99	98	98	100	100
Number of circuits / Compressors		2	1	1	1	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	5,840
	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) This are intended as guideline 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.



MicroTech 4



EWFD-TZSSD

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	99		100		101		102
	Lw with + OP76b			100				101
Number of circuits / Compressors				2				
Water volume – open loop Free Cooling	Lt	280		481		557		
Minimum Water flow rate (10)	l/s	12.9		15.3		18.2		
Dimensions	Length	mm		7,960			9,040	11,200
	Width	mm			2,238			
	Height	mm			2,553			
Weight (8)	Unit (8)	kg	6,059	6,316	6,316	6,427	6,936	7,956
	Operating weight (8)	kg	6,916	6,926	7,404	7,409	7,601	8,191
								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	104	105	103	104	105	106	107
	Lw with + OP76b				102			
Number of circuits / Compressors				2				
Water volume – open loop Free Cooling	Lt	557			1,011			
Minimum Water flow rate (10)	l/s	18.2			22.6			
Dimensions	Length	mm		12,280			13,360	
	Width	mm			2,238			
	Height	mm			2,553			
Weight (8)	Unit (8)	kg	8,465	9,157	9,561	9,561	10,070	
	Operating weight (8)	kg	9,945	11,107	11,520	11,535	12,130	12,140
								12,150
Water Connection Size	Ø mm	219.1	273	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) This are intended as guideline 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.

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- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFD-TZXSD				10TZKSD2000	10TZKSD2000	11TZKSD2000	12TZKSD2000	12TZKSD2000	13TZKSD2000	14TZKSD2000	15TZKSD2000	16TZKSD2000	17TZKSD2000	
SEER					5.952	6.099	5.419	5.809	6	5.981	5.69	5.512	5.517	5.368
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	2,065.72	2,200.84	2,323.94
Power input	Cooling			kW	396.8	356.55	415.43	509.14	461.94	535.19	490.74	577.66	660.12	760.95
Capacity control	Method				Stepless									
	Minimum capacity			%	10.5	11.5	10.5		10		15	13.5	12.5	11.5
EER					3.57	3.77	3.67	3.4	3.51	3.39	3.98	3.58	3.33	3.05
IPLV					6.418	6.591	6.605	6.38	6.44	6.347	6.404	6.197	6.076	5.915
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	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	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	102.8	103.7	104.5
Sound pressure level	Cooling	Nom.		dBA	77.5	76.8	77.6	78	77.9	79.1	78.9	79.7	80.5	81.4
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	215	230	245
	Circuits	Quantity				2								
Piping connections	Evaporator water inlet/outlet (OD)				219.1									
Unit	Starting current				0									
	Running	Cooling	Nom.		632	572	660	799	729	837	780	909	1,031	1,188
	current	Max			782	720	744	851	803	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage				3/50/400									

				EWFD	295TZKSD1000	345TZKSD1000	380TZKSD1000	440TZKSD1000	515TZKSD1000	525TZKSD2000	565TZKSD2000	565TZKSD1000	610TZKSD2000	635TZKSD1000
SEER					5.513	5.77	5.694	6.127	5.991	5.812	5.746	6.002	5.825	5.971
Cooling capacity	Nom.			kW	401.17	469.25	513.31	601.95	696.19	726.87	780.49	745.59	816.11	855.97
Power input	Cooling			kW	107.12	119.37	140.94	143.9	183.64	172.98	192.57	190.54	203.72	235.03
Capacity control	Method				Stepless									
	Minimum capacity			%	21.5	19	16.5	27.5	23	12.5	11.5	21.5	10.5	19
EER					3.74	3.93	3.64	4.18	3.79	4.2	4.05	3.91	4.01	3.64
IPLV					6.087	6.309	6.223	6.763	6.548	6.305	6.193	6.747	6.275	6.544
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	3,795	5,060		6,325		7,590			8,855	7,590
Sound power level	Cooling	Nom.		dBa	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.		dBa	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	-20 ~46									
Refrigerant	Type/GWP				R-134A/1,430									
	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	Max			0									
	Running current	Cooling	Nom.		174	192	224	235	294	286	315	304	332	370
		Max			224	261	289	314	342	389	429	404	457	452
Power supply	Phase/Frequency/Voltage				3/50/400									



MicroTech 4



EWFD-TZXSD

				EWFD	670TZXSD2000	705TZXSD1000	725TZXSD2000	760TZXSD1000	805TZXSD2000	880TZXSD2000	950TZXSD2000
SEER					5.719	5.379	5.728	5.305	5.937	6.09	5.977
Cooling capacity	Nom.	kW			887.31	931.88	961.82	1,005.8	1,092.87	1,196.64	1,293.63
Power input	Cooling	kW			230.65	236.46	257.52	284.2	284.08	310.25	357.95
Capacity control	Method				Stepless						
	Minimum capacity	%			10	30	10	27.5	10	13.5	12.5
EER					3.85	3.94	3.73	3.54	3.85	3.86	3.61
IPLV					6.135	5.859	6.225	5.769	6.482	6.614	6.459
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	8,855	7,590	8,855	7,590	10,120		
Sound power level	Cooling	Nom.	dBA	100.9	99	102.3	99.8	104.6	98.4	100.3	
Sound pressure level	Cooling	Nom.	dBA	83.3	77.8	83.8	78.6	83.9	76.1	76.5	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-134A/1,430						
	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	Max			0						
	Running current	Cooling	Nom.		372	377	412	448	452	503	574
		Max			498	520	535	568	573	626	683
Power supply	Phase/Frequency/Voltage				3/50/400						

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

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- 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
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

				EWFD	10TZPSD2000	10TZPSD2000	11TZPSD2000	12TZPSD2000	12TZPSD2000	13TZPSD2000	14TZPSD2000	15TZPSD2000	28TZPSD1000	330TZPSD1000
SEER					6.411	6.274	6.44	6.189	6.286	6.18	5.85	5.671	6.018	6.229
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	452.16
Power input	Cooling			kW	330.48	382.27	378.98	481.29	433.58	517.97	481.1	565.53	87.52	104.14
Capacity control	Method	Stepless												
		Minimum capacity		%	11.5	10.5		10		15		13.5	23	20
EER					4.01	3.79	3.95	3.6	3.73	3.57	4.06	3.66	4.39	4.34
IPLV					6.876	6.739	6.964	6.639	6.778	6.674	6.585	6.367	6.73	6.82
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	8,521	9,402	10,070		3,846	4,356
		Operation weight		kg	9,189	9,199	9,971	10,816	9,976	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	12,650		13,915		15,180		5,060		6,325	
Sound power level	Cooling	Nom.		dBA	101.1	102.4	103	107.5	105.2	106.2	102	102.8	97.5	98.1
Sound pressure level	Cooling	Nom.		dBA	76.6	77.3	77.4	77.9	77.7	78.9	79.7	78.2	81	
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	45
		Circuits	Quantity		2									
Piping connections	Evaporator water inlet/outlet (OD)				219.1			273	219.1	273		1		
Unit	Starting current		Max		0									
		Running	Cooling Nom.		637	685	605	757	687	812	766	891	145	169
		current	Max		709	761	796	893	845	951	1,039	1,135	220	258
Power supply	Phase/Frequency/Voltage				3/50/400									

				EWFD	370TZPSD1000	405TZPSD1000	450TZPSD1000	490TZPSD1000	530TZPSD2000	575TZPSD2000	615TZPSD2000	675TZPSD2000	735TZPSD2000	810TZPSD2000
SEER					6.138	6.369	6.325	6.262	6.194	6.108	6.056	5.971	6.024	6.262
Cooling capacity	Nom.			kW	500.07	559.54	621.98	642	730.72	792.78	811.77	919.56	998.68	1,105.28
Power input	Cooling			kW	122.84	121.3	138.19	138.4	166.83	187.02	187.35	220.31	252.26	263.6
Capacity control	Method	Stepless												
		Minimum capacity		%	17.5	30	27.5	25	12.5	11.5	10.5	10		
EER					4.07	4.61	4.5	4.64	4.38	4.24	4.33	4.17	3.96	4.19
IPLV					6.691	7.327	7.623	7.171	6.719	6.613	6.593	6.435	6.529	6.853
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	6,325	7,590		8,855		10,120		11,385		
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	-20 ~46									
Refrigerant	Type/GWP	R-134A/1,430												
		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		Max		0									
		Running	Cooling Nom.		197	201	226		277	307	308	357	404	421
		current	Max		285	293	352	404	399	429	468	508	535	573
Power supply	Phase/Frequency/Voltage				3/50/400									



EWFD-TZPSD

EWFD				890TZPSD2000	960TZPSD2000
SEER				6.488	6.363
Cooling capacity	Nom.		kW	1,177.66	1,275.17
Power input	Cooling		kW	282.75	320.56
Capacity control	Method			Stepless	
	Minimum capacity		%	13.5	12.5
EER				4.16	3.98
IPLV				7.078	6.894
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.	11,385	
Sound power level	Cooling	Nom.	dB(A)	98.6	100.4
Sound pressure level	Cooling	Nom.	dB(A)	75.9	76.3
Operation range	Air side	Cooling	Min.~Max.	-20 ~46	
Refrigerant	Type/GWP			R-134A/1,430	
	Charge		kg	120	130
	Circuits	Quantity		2	
Piping connections	Evaporator water inlet/outlet (OD)			219.1	
Unit	Starting current	Max		0	
	Running current	Cooling	Nom.	462	519
		Max		616	672
Power supply	Phase/Frequency/Voltage			3/50/400	

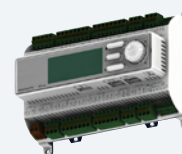
Air cooled Inverter screw free cooling with BLU efficiency. Standard sound.

- 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 optimization
- 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
- 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)	dB(a)	98	100	101	97	98	97	98	
Lw with + OP76b	dB(a)	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	5.94
Dimensions	Length	mm	2,560			3,640		4,720	3,640
	Width	mm	2,238						
	Height	mm	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	3,932.7
Water Connection Size		Ø mm	88.9			139.7			
Unit	Running Current (1)(8)(11)	A	157	187	244	233	278	238	304
	Max Running Current (7)(8)(11)	A	204	227	268	291	334	334	355
	Current for Wiring Sizing (8)(11)	A	224	249	275	320	367	368	391
	Max Inrush Current (8)(9)(11)	A	0						

EWFH TZ-D BS			425	455	485	505	545	545
Cooling Capacity (1)		kW	566.5	594.2	663.9	651.8	717.4	747.2
Power input (1)		kW	158.4	218.7	195.8	242.4	250.2	238.9
EER (1)			3.58	2.72	3.39	2.69	2.87	3.13
SEER (1)(2)			4.912	4.925	4.875	4.875	5.148	4.819
η _{s,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	58.1	232
Minimum Water flow rate (10)		l/s	8.7	5.94	8.6	10.2	10.2	10.7
Dimensions	Length	mm	4,720	3,640	4,720	3,640	4,720	
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	3,874	3,581	4,064	3,966	4,475	4,093
	Operating weight (8)	kg	4,515	3,937.7	4,915	4,364.1	4,943.1	4,909
Water Connection Size		Ø mm	139.7		168.3	139.7		168.3
Unit	Running Current (1)(8)(11)	A	258	346	320	381	393	384
	Max Running Current (7)(8)(11)	A	358	396	406	435	463	452
	Current for Wiring Sizing (8)(11)	A	394	436	447	457	468	497
	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) This are intended as guideline 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.



MicroTech 4



EWFH-TZBSD

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
η _{s,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		Lt	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
η _{s,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		Lt	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°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C; (8) This are intended as guideline 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 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 optimization
- 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
- 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	
ηs,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	98	100	102	97	98			
	Lw with + OP76b	94	94	95	93	95	94		
Number of circuits / Compressors		1				2	1		
Water volume – open loop Free Cooling		Lt	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	4,154
	Operating weight (8)	kg	3,462	3,462	3,513	4,502.7	5,085	4,507.7	4,607.1
Water Connection Size	Ø mm	88.9				139.7			
Unit	Running Current (1)(8)(11)	A	145	166	196	219	234	266	285
	Max Running Current (7)(8)(11)	A	214	237	259	302	345	344	365
	Current for Wiring Sizing (8)(11)	A	235	261	285	332	379	379	402
	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	
ηs,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	
Number of circuits / Compressors		2	1	2	1	2		
Water volume – open loop Free Cooling		Lt	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	5,113
	Operating weight (8)	kg	5,095	4,612.1	5,495	5,518.1	6,064	6,069
Water Connection Size	Ø mm	139.7		168.3	139.7	168.3		
Unit	Running Current (1)(8)(11)	A	290	327	318	359	374	404
	Max Running Current (7)(8)(11)	A	405	406	428	455	495	526
	Current for Wiring Sizing (8)(11)	A	445	447	471	480	544	570
	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) This are intended as guideline 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.



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	Lt	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
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	Lt	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
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		

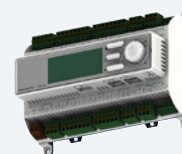
(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C; Fluid Ethylene glycol 25%, Fouling factor = 0; (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; (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) This are intended as guideline 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 GOLD efficiency. Standard sound.

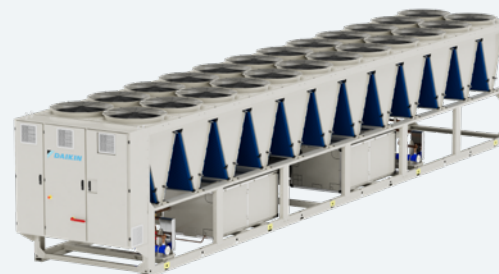
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- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
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- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFH TZ-D XS		220	230	275	300	350	400
Cooling Capacity (1)	kW	294.3	316.3	373.8	409.1	472.7	537.6
Power input (1)	kW	83	94.9	98.3	116.8	118.6	150.7
EER (1)		3.55	3.33	3.8	3.5	3.99	3.57
SEER (1)(2)		5.493	5.444	5.544	5.609	6.003	5.967
$\eta_{s,c}$ (3)	%	217	215	219	221	237	23
SEPR (1)(2)		6.902	6.732	6.519	6.537	7.31	6.658
IPLV (5)		6.046	6.019	6.119	6.101	6.701	6.28
Full Free Cooling Temperature (12)	°C	6.66	5.66	8.78	7.69	9.4	7.84
Flow rate (1)	l/s	10.1	10.9	12.8	14	16.2	18.4
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	10.1	11.4	12.8	15	32.3	41
Unit pressure drop free cooling ON (12)(6)	kPa	67.4	75.2	56.3	65.4	72.8	90.5
Sound Power (1)(7)	Lw	dB(a)	97	97	100	101	97
	Lw with + OP76b	dB(a)	90	91	93		91
Number of circuits / Compressors					1		
Water volume – open loop Free Cooling	Lt		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	Lt	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) This are intended as guideline 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.



MicroTech 4



EWFH-TZXSD

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	Lt	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	Lt	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) 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) This are intended as guideline 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 PLATINUM efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- New single screw compressor geometry allowing performance optimization
- 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
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFH TZ-D PS		225	265	295	340	395	420
Cooling Capacity (1)	kW	308.3	364.2	398.9	460.2	543.6	573.6
Power input (1)	kW	73.4	83.7	98.4	100.8	129.4	133
EER (1)		4.2	4.35	4.05	4.57	4.2	4.31
SEER (1)(2)		6.008	6.095	6.081	6.58	6.397	6.579
$\eta_{s,c}$ (3)	%	237	241	240	260	253	260
SEPR (1)(2)		7.312	7.556	7.271	7.983	7.59	5.795
IPLV (5)		6.738	6.736	6.579	7.506	7.214	7.271
Full Free Cooling Temperature (12)	°C	10.78	11.86	11.12	11.82	11.4	12.09
Flow rate (1)	l/s	10.6	12.5	13.7	15.8	18.6	19.7
Evaporator Pressure Drop free cooling OFF (1)(6)	kPa	11.2	12.2	14.5	17.5	23.5	26
Unit pressure drop free cooling ON (12)(6)	kPa	42.8	38.3	44.9	44.2	58.7	77
Sound Power (1)(7)	Lw	97	98	103	96	99	100
	Lw with + OP76b	91	93	94		92	93
Number of circuits / Compressors					1		
Water volume – open loop Free Cooling	Lt	40	48			58.1	
Minimum Water flow rate (10)	l/s	7.6	8.5			10.2	
Dimensions	Length	mm	3,640			5,800	6,880
	Width	mm		4,720			
	Height	mm			2,238		
					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
						5,813.1	
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	Lt	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
						7,900
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) This are intended as guideline 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.



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	102
	Lw with + OP76b	dB(a)	93	94	95	
Number of circuits / Compressors				2		
Water volume – open loop Free Cooling	Lt		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	103
Number of circuits / Compressors				2		
Water volume – open loop Free Cooling	Lt		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) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values; (9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans. Value intended as guideline. Refer to unit nameplate for specific value; (10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water; (11) Value referred to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

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

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- 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
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFS-TZBSD				10TZBSD2000	10TZBSD2000	11TZBSD2000	12TZBSD2000	13TZBSD2000	14TZBSD2000	15TZBSD2000	16TZBSD2000	17TZBSD2000	18TZBSD2000	
SEER					4.917	5.034	5.163	4.951	5.254	5.165	5.168	5.095	5.177	5.178
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	2,107.09	2,314.18
Power input	Cooling	Nom.		kW	442.65	453.87	475.26	520.64	574.33	633.02	687.1	679.21	739.85	872.62
Capacity control	Method				Stepless									
	Minimum capacity			%	10.5			10				12.5	11.5	10.5
EER					2.81	2.96	3.04	3.02	3	2.84	2.87	3	2.85	2.65
IPLV					5.281	5.468	5.513	5.558	5.543	5.454	5.411	5.86	5.754	5.648
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	6,880	7,960	9,040	10,120	11,200		12,280		13,360	
Weight	Unit			kg	5,806	6,427	6,936	7,446	7,956	8,277	9,157	9,561		10,070
	Operation weight			kg	6,834	7,606	8,191	8,776	9,366	9,697	11,117	11,535	11,550	12,140
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				2									
Fan	Type				Direct propeller									
	Quantity				12	14	16	18	20		22		24	
	Air flow rate	Cooling	Nom.	l/s	67,530	78,785	90,040	101,295	112,550		123,805		135,060	
Sound power level	Cooling	Nom.		dBA	100	100.7	101	101.8	103.8	104.8	106.2	104.1	104.9	105.8
Sound pressure level	Cooling	Nom.		dBA	78.9	79.1		79.6	81.2	82.3	83.4	81.2	82	82.7
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	245	260
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				219.1					273				
Unit	Starting current	A			0									
	Running	Cooling	A		700	717	748	816	895	991	1,071	1,060	1,157	1,353
	current	A			751	817	884	930	948	1,120	1,200	1,227	1,340	1,475
Power supply	Phase/Hz/V				3/50/400									

EWFS				19TZBSD2000	275TZBSD1000	320TZBSD1000	345TZBSD1000	400TZBSD1000	470TZBSD1000	525TZBSD1000	580TZBSD1000	625TZBSD1000	755TZBSD2000	
SEER					5.098	4.648	5.032	4.966	5.234	4.921	5.225	5.233	5.015	5.288
Cooling capacity	Nom.			kW	2,312.53	353.32	412.41	447.62	528.72	571.33	657.03	728.85	758.65	956.88
Power input	Cooling	Nom.		kW	887.73	116.76	124.07	144.81	172.62	194.86	206.35	250.21	274.48	275.44
Capacity control	Method				Stepless									
	Minimum capacity			%	10	21.5	19	16.5	21.5	23	21.5	19	16.5	12.5
EER					2.61	3.03	3.32	3.09	3.06	2.93	3.18	2.91	2.76	3.47
IPLV					5.583	5.084	5.463	5.375	5.565	5.295	5.599	5.564	5.377	5.66
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	13,360	2,560	3,640				4,720			6,880
Weight	Unit			kg	10,070	2,626	3,136		3,581		4,154			5,549
	Operation weight			kg	12,150	2,847	3,432		3,907	3,917	4,581	4,591	4,596	6,341
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				2		1							2
Fan	Type				Direct propeller									
	Quantity				24	4	6				8			12
	Air flow rate	Cooling	Nom.	l/s	135,060	22,510	33,765				45,020			67,530
Sound power level	Cooling	Nom.		dBA	106.6	97.4	97.9	100	97.3	96.7	97.7	98.1	100.6	99
Sound pressure level	Cooling	Nom.		dBA	83.5	78.3	78.2	80.3	77.6	77	77.4	77.8	80.3	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	270	35	45		55	65	70	80	85	105
	Circuits	Quantity			2		1							2
Piping connections	Evaporator water inlet/outlet (OD)				273	88.9			139.7					168.3
Unit	Starting current	A			0									
	Running	Cooling	A		1,376	188	199	230	278	311	328	393	429	451
	current	A			1,608	220	262	284	346	362	400	457	464	600
Power supply	Phase/Hz/V				3/50/400									



EWFS-TZBSD

EWFS					830TZBSD2000	915TZBSD2000
SEER					5.217	5.037
Cooling capacity	Nom.			kW	1,067	1,162.62
Power input	Cooling	Nom.		kW	347.3	386.64
Capacity control	Method				Stepless	
	Minimum capacity				10.5	12.5
EER					3.07	3.01
IPLV					5.55	5.409
Dimensions	Unit	Height		mm	2,553	
		Width		mm	2,238	
		Depth		mm	6,880	
Weight	Unit			kg	5,549	5,806
	Operation weight			kg	6,351	6,819
Air heat exchanger	Type				Microchannel	
Compressor	Type				Screw compressor	
	Quantity				2	
Fan	Type				Direct propeller	
	Quantity				12	
	Air flow rate	Cooling	Nom.	l/s	67,530	
Sound power level	Cooling	Nom.		dBA	100	99
Sound pressure level	Cooling	Nom.		dBA	78.9	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18	
Refrigerant	Type/GWP				R-513A/630	
	Charge				115	125
	Circuits	Quantity			2	
Piping connections	Evaporator water inlet/outlet (OD)				168.3	219.1
Unit	Starting current A				0	
	Running current	Cooling	A		558	617
					668	
Power supply	Phase/Hz/V				3/50/400	

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

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

EWFS-TZSSD				10TZSSD2000	10TZSSD2000	11TZSSD2000	12TZSSD2000	13TZSSD2000	14TZSSD2000	15TZSSD2000	16TZSSD2000	17TZSSD2000	18TZSSD2000		
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			kW	417.07	420.49	475.58	515.07	562.9	618.59	608.3	641.75	745.75	800.88	
Capacity control	Method				Stepless										
Minimum capacity				%	10.5		10				13.5	12.5	11.5	10.5	
EER					3.12	3.13	3.1	3.19	3.14	3.06	3.23	3.18	3	2.85	
IPLV					6.507	6.418	6.452	6.402	6.469	6.286	5.536	5.698	5.723	5.836	
Dimensions	Unit	Height	mm	2,553											
		Width	mm	2,238											
		Depth	mm	7,960		9,040	11,200	12,280				13,360			
Weight	Unit			kg	6,316	6,427	6,936	7,956	8,465	9,157	9,561		10,070		
Operation weight				kg	7,409	7,601	8,191	9,356	9,945	11,107	11,520	11,535	12,130	12,140	
Air heat exchanger	Type				Microchannel										
Compressor	Type				Screw compressor										
Quantity					2										
Fan	Type				Direct propeller										
	Quantity				14		16	20	22				24		
	Air flow rate	Cooling	Nom.	l/s	78,785		90,040	112,550	123,805				135,060		
Sound power level	Cooling	Nom.	dBA	100.2	100.5	101	102.5	104.2	105.3	103.3	104.1	104.9	105.8		
Sound pressure level	Cooling	Nom.	dBA	78.7	79	79.1	79.9	81.3	82.5	80.5	81.2	81.8	82.7		
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18										
Refrigerant	Type/GWP				R-513A/630										
	Charge			kg	140	145	160	175	190	205	215	230	250	260	
	Circuits	Quantity			2										
Piping connections	Evaporator water inlet/outlet (OD)				219.1				273						
Unit	Starting current	Max			0										
	Running	Cooling	Nom.		662	667	749	807	878	970	954	1,004	1,166	1,247	
	current	Max			761	789	884	948	1,187	1,156	1,124	1,227	1,351	1,475	
Power supply	Phase/Frequency/Voltage				3/50/400										

EWFS				19TZSSD2000	285TZSSD1000	325TZSSD1000	380TZSSD1000	430TZSSD1000	495TZSSD1000	520TZSSD2000	535TZSSD1000	555TZSSD2000	585TZSSD2000	
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			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.	dBA	106.6	97.8	98.3	100.2	97.7	97.1	99.3	98	99.5	100.7	
Sound pressure level	Cooling	Nom.	dBA	83.5	78		80	77.4	76.9	78.6	77.3	78.7	79.9	
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	270	40	45	50	60	65	70	75		80
	Circuits	Quantity			2	1					2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)				273	88.9		139.7		168.3	139.7	168.3		
Unit	Starting current	Max			0									
	Running	Cooling	Nom.		1,368	170	185	226	268	305	312	319	336	377
	current	Max			1,608	231	272	294	357	372	421	411	450	481
Power supply	Phase/Frequency/Voltage				3/50/400									



MicroTech 4



EWFS-TZSSD

		EWFS	595TZSSD1000	645TZSSD2000	650TZSSD1000	705TZSSD2000	760TZSSD2000	835TZSSD2000	960TZSSD2000
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	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						
		Width	mm						
		Depth	mm						
Weight	Unit	kg	5,800	6,880	5,800	6,880	7,960		
	Operation weight	kg	4,664	5,083	4,664	5,083	6,059		6,316
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.						
Sound power level	Cooling	Nom.	dBA	56,275	67,530	56,275	67,530	78,785	
Sound pressure level	Cooling	Nom.	dBA	98.4	100.9	100.7	103	99.2	100.2
Operation range	Air side	Cooling	Min.~Max.						
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	Max				0			
	Running current	Cooling	Nom.						
Power supply	Phase/Frequency/Voltage		3/50/400						

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EWFS-TZXSD					10TZXSD2000	10TZXSD2000	11TZXSD2000	12TZXSD2000	12TZXSD2000	13TZXSD2000	14TZXSD2000	15TZXSD2000	16TZXSD2000	17TZXSD2000	
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	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.	I/s	101,295		112,550			123,805		135,060			
Sound power level	Cooling	Nom.	dBA		102.3	101	103	105.2	107.5	106.1	102	102.8	103.7	104.5	
Sound pressure level	Cooling	Nom.	dBA		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	Max			0										
	Running	Cooling	Nom.					648	572	645	731	769	833	828	
	current	Max						782	720	744	803	851	899	997	
Power supply	Phase/Frequency/Voltage					3/50/400									

EWFS					29STZXSD1000	34STZXSD1000	380TZXSD1000	440TZXSD1000	51STZXSD1000	52STZXSD2000	56STZXSD2000	56STZXSD1000	610TZXSD2000	63STZXSD1000	
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	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.	I/s	33,765	45,020		56,275			67,530		78,785	67,530	
Sound power level	Cooling	Nom.	dBA		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.	dBA		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
Unit	Starting current	Max			0										
	Running	Cooling	Nom.					181	204	234	238	309	292	331	
	current	Max						224	261	289	314	342	389	429	
Power supply	Phase/Frequency/Voltage					3/50/400									



EWFS-TZXSD

				EWFS	670TZXSD2000	705TZXSD1000	725TZXSD2000	760TZXSD1000	805TZXSD2000	880TZXSD2000	950TZXSD2000
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			kW	242.16	261.99	266.26	298.67	280.04	301.94	354.22
Capacity control	Method				Stepless						
	Minimum capacity			%	10	30	10	27.5	10	13.5	12.5
					3.6	3.48	3.52	3.24	3.71	3.73	3.45
IPLV					5.498	5.22	5.5	5.811	5.594	5.57	5.485
Dimensions	Unit	Height	mm		2,553						
		Width	mm		2,238						
		Depth	mm		7,960	6,880	7,960	6,880	9,040		
Weight	Unit			kg	5,763	5,984	5,834	5,984	6,624	6,881	
	Operation weight			kg	6,581	6,586	6,704	6,596	7,753	8,019	8,029
Air heat exchanger	Type				Microchannel						
Compressor	Type				Screw compressor						
	Quantity				2	1	2	1	2		
Fan	Type				Direct propeller						
	Quantity				14	12	14	12	16		
	Air flow rate	Cooling	Nom.	l/s	78,785	67,530	78,785	67,530	90,040		
Sound power level	Cooling	Nom.	dBA		100.9	99	102.3	99.8	104.6	98.4	100.3
Sound pressure level	Cooling	Nom.	dBA		83.3	77.8	83.8	78.6	83.9	76.1	76.5
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18						
Refrigerant	Type/GWP				R-513A/630						
	Charge			kg	90	95	100	105	110	120	130
	Circuits	Quantity			2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)				168.3	139.7	168.3	139.7	219.1		
Unit	Starting current	Max			0						
	Running current	Cooling	Nom.		389	415	425	469	446	491	569
		Max			498	520	535	568	573	626	683
Power supply	Phase/Frequency/Voltage				3/50/400						

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					EWFS	10TZPSD2000	10TZPSD2000	11TZPSD2000	12TZPSD2000	12TZPSD2000	13TZPSD2000	14TZPSD2000	15TZPSD2000	285TZPSD1000	330TZPSD1000		
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	2,553										
						Width	2,238										
					Depth	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.	dB(A)	102.4	101.1	103	105.2	107.5	106.2	102	102.8	97.5	98.1	
Sound pressure level					Cooling Nom.	dB(A)	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	370TZPSD1000	405TZPSD1000	450TZPSD1000	490TZPSD1000	530TZPSD2000	575TZPSD2000	615TZPSD2000	675TZPSD2000	735TZPSD2000	810TZPSD2000		
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	1,068.99		
Power input					Cooling Nom.	kW	125.7	126.13	145.13	161.16	170.65	194.82	212.73	231.24	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	2,553										
						Width	2,238										
					Depth	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		
Sound power level					Cooling Nom.	dB(A)	100.4	94.7	96	97.7	100.2	100.4	100.7	101	102.3	104.6	
Sound pressure level					Cooling Nom.	dB(A)	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	



MicroTech 4

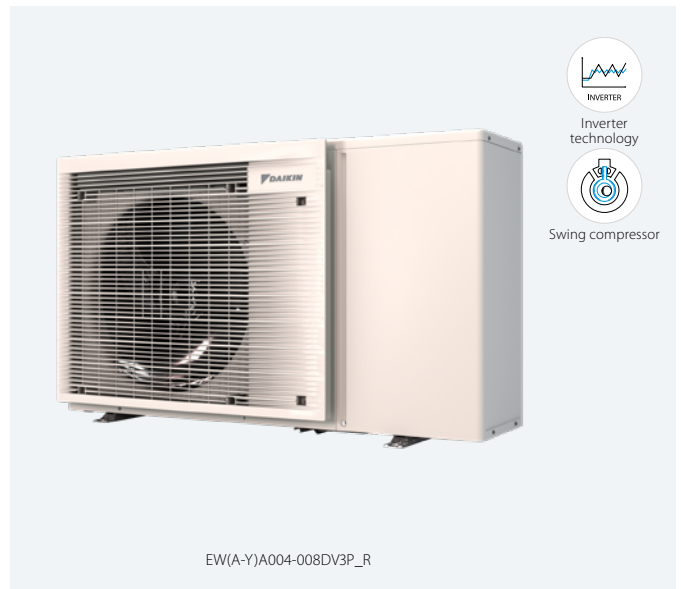


EWFS-TZPSD

EWFS					890TZPSD2000		960TZPSD2000	
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			2,553			
		Width			2,238			
		Depth			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		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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- Separate MMI-2 controller for indoor installation



EWYA-DV3P

Heating & Cooling				EWYA-D	004DV3P	006DV3P	008DV3P
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

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EWAA-EWYA-D_R



EWYA-DV3P

Heating & Cooling				EWYA-D	009DV3P	011DV3P	014DV3P	016DV3P
Space cooling	A Condition Pdc 35°C			kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62(8)	5.79(8)	5.71(8)	5.59(8)
Space heating	Average climate water outlet 35°C	General	SCOP	Seasonal space heating eff. class	4.82	4.73	4.70	4.69
					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				147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume				2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m³/min	63	70	85	
		Heating	Nom.	m³/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
	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				-			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit				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 mini inverter heat pump

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- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation



EWAA-EWYA-D_R



EWYA-DW1P

Heating & Cooling				EWYA-D	009DW1P	011DW1P	014DW1P	016DW1P
Space cooling	A Condition Pdc			kW	9.35	11.6	12.8	14.0
	35°C							
	ηs,c			%	222	229	226	221
SEER					5.62(5)	5.79(5)	5.71(5)	5.59(5)
 Space heating	Average climate water outlet 35°C	General	SCOP	4.82	4.73	4.70	4.69	
			Seasonal space heating eff. class	A+++				
Cooling capacity	Nom.			kW	9.35(1)/9.10(2)	11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Heating capacity	Nom.			kW	9.37(3)/9.00(4)	10.6(3)/9.82(4)	12.0(3)/12.5(4)	16.0(3)/16.0(4)
Power input	Cooling	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			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			
				TCO2Eq	2.6			
Unit	Running current	Max		A	14.0			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

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

Air cooled mini inverter heat pump

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- Separate MMI-2 controller for indoor installation



EWAA-EWYA-D_R



EWYA-DWIP-H-

Heating & Cooling				EWYA-D	009DW1P-H-	011DW1P-H-	014DW1P-H-	016DW1P-H-
Space cooling	A Condition Pdc			kW	9.35	11.6	12.8	14.0
	35°C							
	ηs,c			%	222	229	226	221
SEER					5.62(5)	5.79(5)	5.71(5)	5.59(5)
 Space heating	Average climate water outlet 35°C	General	SCOP	4.82	4.73	4.70	4.69	
			Seasonal space heating eff. class	A+++				
Cooling capacity	Nom.			kW	9.35(1)/9.10(2)	11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Heating capacity	Nom.			kW	9.37(3)/9.00(4)	10.6(3)/9.82(4)	12.0(3)/12.5(4)	16.0(3)/16.0(4)
Power input	Cooling	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			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			
				TCO2Eq	2.6			
Unit	Running current	Max		A	14.0			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (5)According to EN14825 | (6)For more details, see operation range drawing | Depends on operation mode, refer to installation manual.

Air cooled mini inverter heat pump

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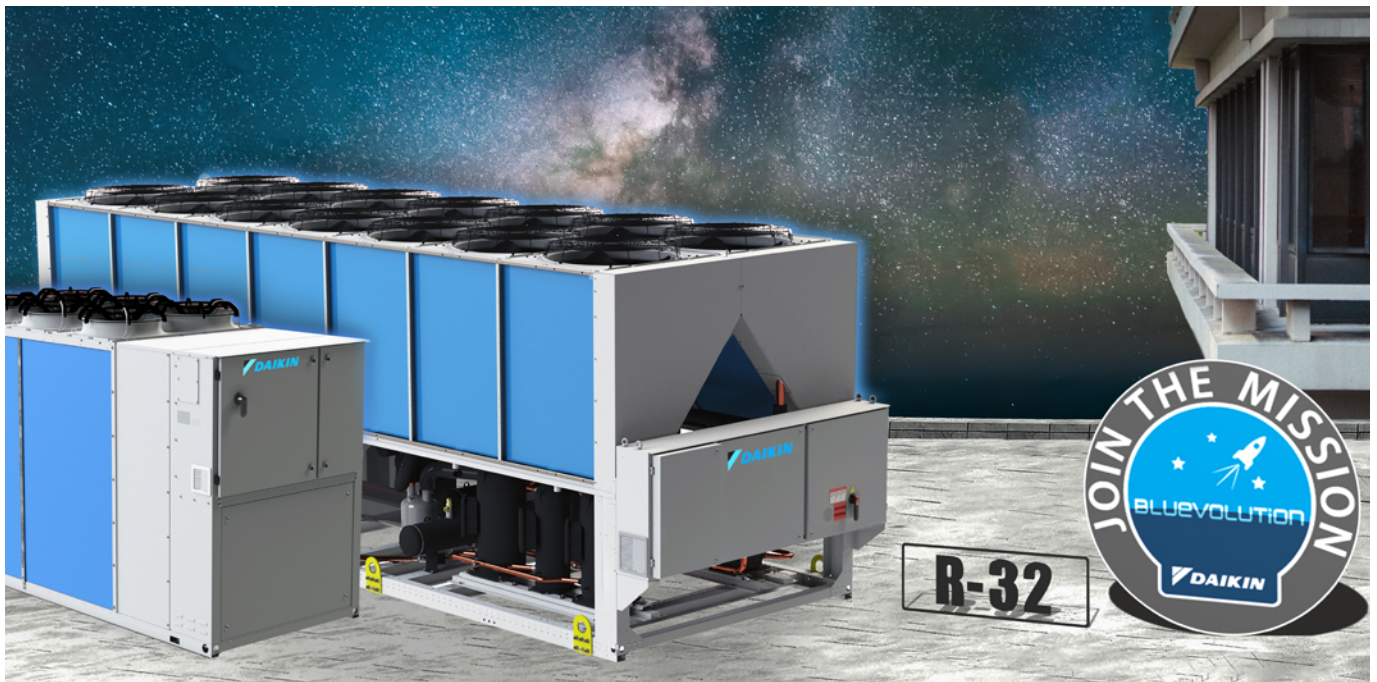


EWYA-DV3P-H-

Heating & Cooling				EWYA-D	004DV3P-H	006DV3P-H	008DV3P-H	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
SEER					-			5.62(8)	5.79(8)	5.71(8)	5.59(8)
 Space heating	Average climate water outlet 35°C	General	SCOP	Seasonal space heating eff. class	4.54	4.52	4.61	4.82	4.73	4.70	4.69
					A+++						
Cooling capacity	Nom.			kW	4.86(1)/4.52(2)	5.83(1)/5.09(2)	6.18(1)/5.44(2)	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	4.30(1)/4.60(2)	6.00(1)/5.90(2)	7.50(1)/7.80(2)	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	0.820(1)/1.36(2)	1.08(1)/1.55(2)	1.19(1)/1.73(2)	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	0.840(1)/1.26(2)	1.24(1)/1.69(2)	1.63(1)/2.23(2)	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					5.91(1)/3.32(2)	5.40(1)/3.28(2)	5.19(1)/3.14(2)	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					5.10(1)/3.65(2)	4.85(1)/3.50(2)	4.60(1)/3.50(2)	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	770			870			
		Width		mm	1,250			1,380			
		Depth		mm	362			460			
Weight	Unit			kg	88.0			147			
Water heat exchanger	Type				Plate heat exchanger						
	Water volume			l	1			2			
Air heat exchanger	Type				-			High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing compressor			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	61.0(1)	62.0(1)		65.5	67.0	69.0	
	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)	44.0	47.7	50.8	51.0
	Heating	Nom.		dBA	44.0(1)	47.0(1)	49.0(1)	-			
Operation range	Air side	Cooling	Min.~Max.	°CDB	10(3)~43			10~43			
		Heating	Min.~Max.	°CDB	-			-25~25			
Refrigerant	Type/GWP				R-32/675.0						
	Charge			kg	1.35			-			
	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 +/-10%			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.





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



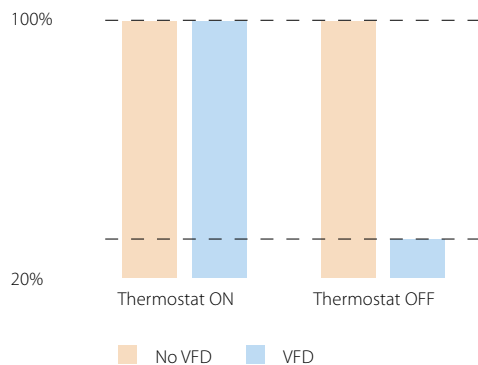
Silver Efficiency	270-570 kW 300-627 kW	2 circuits
Gold Efficiency	294-630 kW 306-650 kW	

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 extenral 0-10 volt signal
 - “Thermostat on” and “thermostat off” pump speed management
 - Variable primary flow control

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

Pumping energy



Scroll compressor

-
- EWYT-B
- MicroTech 4



EWYT-B-SS

EWYT-B-SL

720

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

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- 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



EWYT-B-SR

Heating & Cooling				EWYT-B-SR				085	105	135	175	205	215	235	255	300	340	390	430	490	540	590	630	
SEER					3.82	3.93	3.87	3.96	3.92	3.82	3.83	3.84	4.18	4.37	4.21	4.19		4.49	4.46	4.52				
 Space heating	Average climate water outlet 35°C	General	SCOP		3.35	3.40	3.37	3.42	3.44	3.43	3.32	3.33	3.42	3.49		3.57	3.65	3.60	3.67	3.66				
			Seasonal space heating eff. class	A+		-																		
Cooling capacity	Nom.			kW	74	96	119	150	186	189	209	226	265	311	344	368	424	470	519	557				
Heating capacity	Nom.			kW	81.00	105.24	131.02	167.00	207.00	210.00	233.00	251.00	295.81	335.24	384.62	426.79	477.49	528.73	581.03	615.34				
Power input	Cooling	Nom.		kW	28.7	37.4	45.5	59.5	73.2	74.3	80.7	88.8	102	117	131	147	172	195	207	221				
	Heating	Nom.		kW	26.4	36.24	44.84	54.67	67.74	68.31	77.26	80.08	101.89	113.31	131.71	144.34	160.28	178.33	194.13	206.57				
Capacity control	Method				Step																			
	Minimum capacity			%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17				
EER					2.56	2.58	2.61	2.53	2.54	2.55	2.59	2.55	2.59	2.64	2.61	2.5	2.46	2.41	2.5	2.51				
COP					2.891	2.904	2.922	2.859	2.883	2.866	2.863	2.912	2.903	2.959	2.92	2.957	2.979	2.965	2.993	2.979				
IPLV					4.36	4.24	4.3	4.38	4.29	4.28	4.26	4.29	4.69	4.58	4.61	4.78	4.89	4.82	4.91					
Dimensions	Unit	Height	mm	1,801										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	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	3,542	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	3.5	4.6	5.7	7.2	8.9	9	10	10.8	12.7	14.8	16.4	17.5	20.2	22.4	24.8	26.6				
	Water pressure drop	Cooling	Nom.	kPa	14.4	23.4	34.2	52.2	43.5	44.8	53.5	43.6	58.1	47.6	57	64.4	56.3	67.8	56	63.4				
Air heat exchanger	Type			High efficiency fin and tube type																				
Compressor	Type			Scroll compressor																				
	Quantity			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	6.026	9.483	12.644	12.052	15.064	15.065	18.078	23.608	28.330	39.446		38.610	37.774	48.262	47.216						
	Speed		rpm	1,200										780										
Sound power level	Cooling	Nom.	dBA	78	82	84	85	84	87	86		87	88	89	89.3	89.4	89.5	90.4	90.5					
Sound pressure level	Cooling	Nom.	dBA	60	64	65	67	66	68	67		68		69	69.3	69.4	69.5	70	70.1					
Refrigerant	Type			R-32																				
	Charge		kg	13.3	14.7	19.3	24.5	29	34	36.2	43	40.3	47.2	50.4	79	89	68.8	77.6	82					
	Circuits	Quantity		1				2	1	2														
Piping connections	Evaporator water inlet/outlet (OD)		mm	88.9																		114.3		
Unit	Starting current	Max	A	211.0	327.0	343.0	464.0	408.0	495.0	425.0	439.0	564.0	598.0	636.0	666.0	712.0	757.0	795.0	825.0					
	Running current	Cooling	Nom.	A	55.0	67.0	77.0	101.0	128.0	126.0	136.0	149.0	173.0	196.0	224.0	251.0	292.0	330.0	353.0	373.0				
	Running current	Max	A	68.0	85.0	101.0	131.0	166.0	163.0	183.0	197.0	232.0	266.0	304.0	334.0	379.0	425.0	463.0	493.0					
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400																				

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EWYT-B-XS/XL



EWYT-B-XS



EWYT-B-XL

Heating & Cooling					EWYT-B-XS/XL										085	115	135	175	215	215	235	265	310	350	400	440	500	560	600	630	650	VDFAN 310	VDFAN 350	VDFAN 400	VDFAN 440	VDFAN 500	VDFAN 560	VDFAN 600	VDFAN 630	VDFAN 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	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			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	3.96	3.97	4.81	4.68	4.63	3.91	3.96	4.83	3.87	3.68								
				Seasonal space heating eff. class	A+																																			
Cooling capacity		Nom.		kW	80	104	126	166		206	229	250	288	328	370	406	467	519	560	597	610	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	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	94.1	107	123	135	158	177	193	205	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	88.81	101.93	117.94	128.08	147.63	165.38	180.33	192.05	203.95										
Capacity control		Method	Step																																					
		Minimum capacity		%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17	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	3.06	3.05	3.01	2.95	2.92	2.9	2.91	2.94											
COP					3.295	3.345	3.405	3.411	3.494	3.363	3.444	3.425	3.448	3.441	3.405	3.473	3.395	3.369	3.327	3.308	3.198	3.44	3.433	3.397	3.466	3.388	3.362	3.32	3.301	3.186										
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	4.97	5.16	5.13	5.16	5.3	5.29	5.22	5.16	4.99													
Dimensions		Unit	Height	mm	1,801																2,516																			
			Width	mm	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					4,125	5,025	5,925					6,825										
Weight (XS)		Unit		kg	927	930	996	1,367	2,099	1,522	1,766	1,797	3,073	3,254	3,618	3,933	4,208	4,457	4,791	4,957	2,830	3,080	3,650	3,750	4,206	4,296	4,760	4,860												
		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	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	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	3,140	3,240	3,650	3,750	4,206	4,296	4,760	4,860												
		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	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	11				16	35	16	35				62	70				35	62				70	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	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	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																																						
Fan		Type	Direct propeller																																					
		Quantity																																						
		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	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	94.8	95.3	95.6	96.1	96.5	98.4	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	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	86.4	87.1	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	72.4	73.4	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	66.4	67.1	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	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				114.3															
Unit		Starting current	Max	A	213.0	329.0	343.0	465.0	412.0	497.0	429.0	443.0	562.0	594.0	629.0	659.0	710.0	755.0	790.0	820.0	841.0	572	606	644	674	728	773	811	841											
		Running current	Cooling	Nom.	A	53.0	65.0	75.0	99.0	122.0	123.0	132.0	143.0	170.0	192.0	215.0	236.0	276.0	313.0	338.0	358.0	361.0	170	193	216	237	277	313	339	359	362									
		current	Max	A	70.0	87.0	101.0	133.0	170.0	165.0	186.0	201.0	229.0	262.0	297.0	327.0	370.0	423.0	458.0	488.0	509.0	240	274	312	342	395	441	479	509											
Power supply		Phase/Frequency/Voltage		Hz/V	3~/50/400																																			

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Scroll compressor

EWYT-B



EWYT-B-XR

Heating & Cooling				EWYT-B-XR				085	115	135	175	215	215	235	265	310	350	400	440	500	560	600	630	650	
SEER								4.21	4.37	4.21	4.41	4.16	4.42	4.43	4.13	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					3.66	3.71	3.65	3.83	3.74	3.70	3.82	3.81	4.06	4.01	3.95	4.03	3.99	4.04	4.00	3.98	3.88	
			Seasonal space heating eff. class	A+				-																	
Cooling capacity	Nom.			kW	79	103	124	164	203	204	227	247	282	321	364	398	458	507	548	583	600				
Heating capacity	Nom.			kW	84.9	110.32	132.02	174.14	216.57	213.48	237.57	256.58	301.04	344.8	395.81	438.23	494.13	549.6	588.57	620.71	637.4				
Power input	Cooling	Nom.	kW	26.6	35.4	42.6	57.4	72.9	68.8	75.7	84.4	95.2	111	124	136	160	180	196	208	203					
	Heating	Nom.	kW	25.87	32.94	38.82	51.3	64.51	62.13	68.99	75.49	86.19	98.95	114.46	124.61	143.5	161.2	175.33	186.93	193.22					
Capacity control	Method				Step																				
	Minimum capacity			%	50	38	50	38	50	19	17	25	22	19	17	25	22	19	18	17					
EER					2.98	2.9	2.92	2.86	2.79	2.97	3	2.93	2.96	2.95	2.93	2.91	2.85	2.81	2.8	2.94					
COP					3.282	3.349	3.401	3.394	3.357	3.436	3.443	3.399	3.493	3.485	3.458	3.517	3.443	3.409	3.357	3.321	3.299				
IPLV					4.73	4.67	4.65	4.67	4.86	4.82	4.62	4.92	5.12	5.26	5.12	5.34	5.32	5.22	5.23	5.19					
Dimensions	Unit	Height	mm	1,801										2,514				2,527							
				1,211										2,224											
				Length	mm										4,316				6,112				7,010		
Weight	Unit				kg	927	930	996	1,367	1,522	2,099	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	1,564	2,135	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					62				70					
	Water flow rate	Cooling	Nom.	l/s	3.8	4.9	5.9	7.8	9.7		10.8	11.8	13.4	15.3	17.3	19	21.8	24.2	26.2	27.8	28.6				
	Water pressure drop	Cooling	Nom.	kPa	9.33	14.9	21.1	19.6	28.9		11.8	14.3	16.8	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				2					4					5					6					
Fan	Type				Direct propeller																				
	Quantity				6	8	10	12	14	16	7	8	10	12	14										
	Air flow rate	Nom.		l/s	8.298	11.630	11.064	13.830	16.596	19.362	22.128	25.074	28.656	36.808	35.820	44.169	42.984	51.531	50.148	66.104					
	Speed			rpm	1,108										600										780
Sound power level	Cooling	Nom.		dB(A)	77	81	83	85	87	84	85	86	84	85.2	85.5	86.2	86.3	86.9	87.1	91.6					
Sound pressure level	Cooling	Nom.		dB(A)	59	63	65	67	68	65		66	64	64.8	65.1	65.4	65.5	65.8	66	70.5					
Refrigerant	Type				R-32																				
	Charge			kg	17.4	18.4	21.5	30	40	44.6	50	53.4	54.4	62	71.5	78	114.5	93	103.4	106	109				
	Circuits	Quantity			1					2					2										
Piping connections	Evaporator water inlet/outlet (OD)			mm	88.9										114.3										
Unit	Starting current	Max		A	213.0	329.0	343.0	465.0	497.0	412.0	429.0	443.0	572.0	606.0	644.0	674.0	728.0	773.0	811.0	841.0					
	Running current	Cooling	Nom.	A	53.0	65.0	75.0	100.0	124.0	123.0	133.0	145.0	169.0	192.0	214.0	237.0	276.0	315.0	339.0	360.0	353.0				
	Max			A	70.0	87.0	101.0	133.0	165.0	170.0	186.0	201.0	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
- Glycol free application
- Wide operation range and hot water production up to 60°C
- Integrated hydronic module as standard



EWYT-CZI



Inverter technology



Scroll compressor

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.	°C	-20 ~35	
		Water side	Min.~Max.	°C	20 ~60	
	Cooling	Ambient	Min.~Max.	°CDB	-20 ~45	
		Water side	Min.~Max.	°C	4 ~20	
Sound power level	Nom.		dBA	63.0	64.5	66.0

Air cooled scroll inverter heat pump, split version

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



EWYT-CZO



Inverter technology



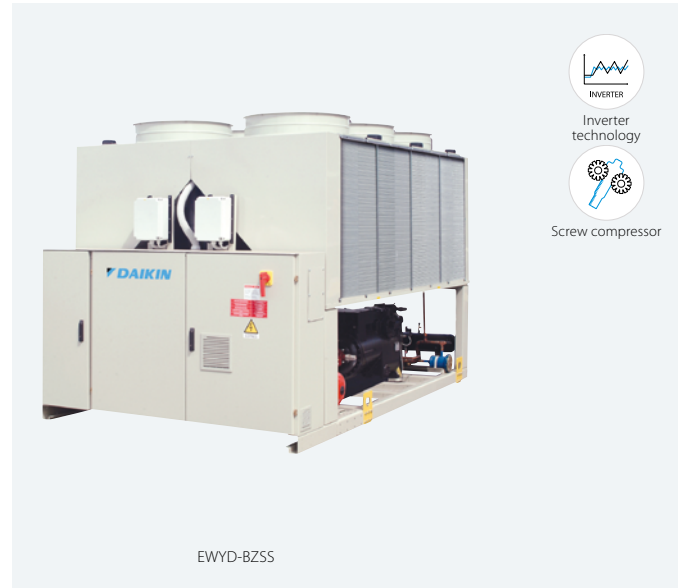
Scroll compressor

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
Refrigerant	Type		Scroll compressor			
	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
Sound pressure level	Cooling	Nom.	dBA	59.6	62.2	63.2
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 minimize pressure drops
- Standard electronic expansion valve
- Optimised defrost cycles
- Partial and total heat recovery option available
- Power factor up to 0.95
- PID microprocessor control

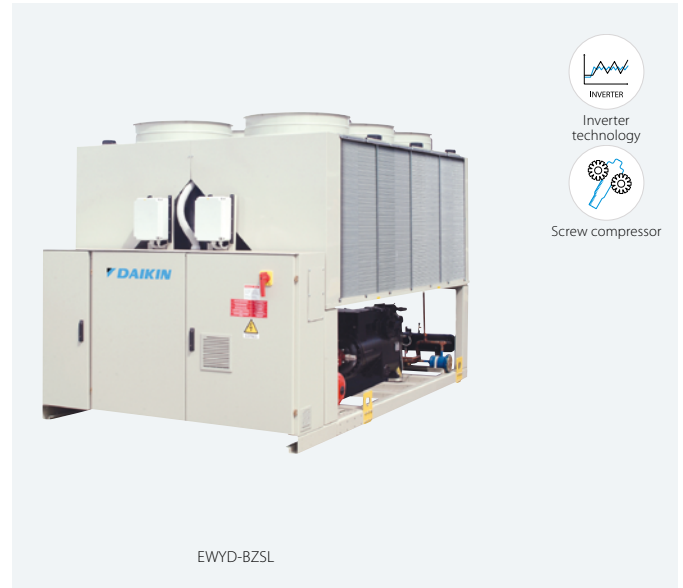


EWYD-BZSS

Heating & Cooling				EWYD-BZSS	250	270	290	320	340	370	380	410	440	460	510	530	570		
SEER					-										4.57		4.55		
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	5,953			
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

- 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 minimize 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

Inverter
technology

Screw compressor



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		77.2								
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45												~~~									
		Heating	Min.~Max.	°CDB	-10~20												~~~									
	Water side	Cooling	Min.~Max.	°CDB	-8~15												~~~									
Operation range	Water side	Heating	Min.~Max.	°CDB	35~55												~~~									
Refrigerant	Type/GWP	R-134a/1,430															R-134a/-									
	Charge	kg			-										141		147									
	Circuits	Quantity		2										3		3										
Refrigerant charge	Per circuit	kg		43.0	44.0	43.0	46.0	46.5		47.0	50.0		47.0	-												
	Per circuit	TCO2Eq		61.5	62.9	61.5	65.8	66.5		67.2	71.5		67.2	-												
Piping connections	Evaporator water inlet/outlet (OD)			139.7mm										219.1mm												
Unit	Starting current	Max	A	145	146		176		199			217	231	234	316	344										
	Running current	Cooling	Nom.	A	134	148	163	171	184	199	212	224	240	238	291	305	349									
		Max	A		202	203		243		277			302	322	313	416	458									
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400										3~/50/400										



Air to water polyvalent unit

- Simultaneous heating and cooling with R-513A refrigerant
- VFD regulation & VVR control maintaining power factor always greater than 0.95
- No current spikes at the start-up and the set-point conditions are reached in less than one minute
- Two independent refrigerant circuits and Single Screw Compressor technology
- Intelligent Chiller Manager (iCM) managing the unit and ensuring the integration of EWYS-4Z into a system with distinct types of units
- It is equipped with the cloud-based remote monitoring system Daikin on Site

Technical specifications					EWYS4004ZXSb2	EWYS4504ZXSb2	EWYS5004ZXSb2	EWYS5504ZXSb2	EWYS6004ZXSb2	EWYS6504ZXSb2	EWYS7004ZXSb2	EWYS8004ZXSb2	
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
Capacity control	Method					Stepless							
Power input	Minimum capacity				%	17	15		13		12	11	10
	Cooling	Nom.			kW	135.55	151.48	166.73	189.36	196.80	221.44	221.59	256.09
	Heating	Nom.			kW	126.76	136.28	153.83	163.94	178.72	201.36	201.90	235.91
EER						2.90	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
SCOP						3.21	3.24	3.4	3.31	3.46	3.3	3.36	3.49
SEER						4.55	4.55	4.85	4.71	4.91	5.01	5.14	5.11
Dimensions	Unit	Depth			mm	5,825	5,825	6,725	6,725	7,625	8,525	8,525	8,525
		Height			mm	2,465	2,465	2,465	2,465	2,465	2,465	2,465	2,465
		Width			mm	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285
Weight	Operation weight				kg	6,540	6,560	7,560	7,560	8,935	9,540	10,785	10,820
	Unit				kg	6,075	6,095	6,870	6,870	7,850	8,435	9,405	9,430
Casing	Colour					Ivory White							
	Material					Galvanized Steel Sheet							
Water heat exchanger	Type					Shell & Tubes							
	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
	Water volume				l	126		214		369	361	468	
Air heat exchanger	Type					Tube & Fins							
Fan	Quantity					10		12		14	16		
Compressor	Type					Brushless							
	Quantity					2							
	Type					Inverter Screw							
	Oil	Charged volume			l	28						38	
Operation range	Water side	Evaporator	Min.	°CDB	-8								
			Max.	°CDB	20								
		Condenser	Min.	°CDB	30								
			Max.	°CDB	60								
		Sound power level	Cooling	Nom.	dBA	99	98	99	99	100		102	
Sound pressure level	Cooling	Nom.	dBA	78	77		78		79	80			
Refrigerant	Type					R513A							
	GWP					630	631	632	633	634	635	636	637
	Charge				kg	198							
	Circuits				Quantity	2							
Piping connections					Evaporator water inlet/outlet (OD)	219.1							
Electrical specifications					EWYS4004ZXSb2	EWYS4504ZXSb2	EWYS5004ZXSb2	EWYS5504ZXSb2	EWYS6004ZXSb2	EWYS6504ZXSb2	EWYS7004ZXSb2	EWYS8004ZXSb2	
Power supply	Phase					3							
	Frequency				Hz	50							
	Voltage				V	400							
	Voltage range	Min.			%	-10							
		Max.			%	+10							
Unit	Starting current				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
	Max unit current for wires sizing				A	369	411	436	496	520	576	605	722
Water to water mode					EWYS4004ZXSb2	EWYS4504ZXSb2	EWYS5004ZXSb2	EWYS5504ZXSb2	EWYS6004ZXSb2	EWYS6504ZXSb2	EWYS7004ZXSb2	EWYS8004ZXSb2	
Cooling capacity	Nom.				kW	306.9	344.6	386	421.8	469.8	505.7	542.2	621.7
Heating capacity	Nom.				kW	403.1	442.9	506.1	536.1	588	650.4	680.4	790.3
Power Input					kW	98.3	110.9	120.1	132.0	139.4	152.7	160.0	179.2
TEER					kW	7.22	7.1	7.43	7.26	7.59	7.57	7.64	7.88
Water heat exchanger	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	
	Water volume				l	126	126	214	214	369	361	468	468



Screw compressor



EWYS-4Z



EWYS-4Z

Technical specifications				EWYS4004ZXR82	EWYS4504ZXR82	EWYS5004ZXR82	EWYS5504ZXR82	EWYS6004ZXR82	EWYS6504ZXR82	EWYS7004ZXR82	EWYS8004ZXR82		
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	
Capacity control	Method				Stepless								
Power input	Minimum capacity			%	20	18	17	14	14	13	12	11	
	Cooling	Nom.		kW	121.21	137.97	149.21	175.09	190.14	201.53	212.92	240.97	
EER	COP	Heating		Nom.	kW	110.52	117.56	129.36	145.51	162.18	182.32	187.52	202.40
					2.89	2.76	2.91	2.77	2.81	2.87	2.88	2.79	
SCOP	SEER				3.29	3.44	3.46	3.43	3.39	3.36	3.47	3.50	
					3.2	3.22	3.32	3.29	3.3	3.27	3.33	3.38	
Dimensions	Unit	Depth		mm	5,825	5,825	6,725	6,725	7,625	8,525	8,525	8,525	
		Height		mm	2,465	2,465	2,465	2,465	2,465	2,465	2,465	2,465	
		Width		mm	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	
Weight	Operation weight			kg	6,705	6,725	7,725	7,725	9,100	9,705	11,075	11,110	
	Unit			kg	6,240	6,260	7,035	7,035	8,015	8,600	9,690	9,715	
Casing	Colour				Ivory White								
Water heat exchanger	Material				Galvanized Steel Sheet								
	Type				Shell & Tubes								
	Water flow rate	Cooling	Nom.	l/s	16.8	18.2	20.8	23.2	25.6	27.7	29.3	32.1	
	Water pressure drop	Heating	Nom.	l/s	17.5	19.5	21.6	24.1	26.5	29.6	31.4	34.2	
		Cooling	Nom.	kPa	30.7	35.8	30.7	37.4	37.6	26.1	32.5	27	
Air heat exchanger	Fan	Heating	Nom.	kPa	31.7	38.4	27.6	33.6	32	23.8	28.7	24.6	
		Water volume			l	126	126	214	214	369	361	468	468
Compressor	Type				Tube & Fins								
	Quantity				10		12		14		16		
Compressor	Type				Brushless								
	Quantity				2								
	Type				Inverter Screw								
Operation range	Oil	Charged volume		l	28				38				
	Water side	Evaporator	Min.	°CDB					-8				
			Max.	°CDB					20				
	Condenser	Min.	°CDB					30					
		Max.	°CDB					60					
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				R513A								
	GWP				638	639	640	641	642	643	644	645	
	Charge			kg	198								
	Circuits	Quantity			2								
Piping connections	Evaporator water inlet/outlet (OD)				219.1								
Electrical specifications					EWYS4004ZXR82	EWYS4504ZXR82	EWYS5004ZXR82	EWYS5504ZXR82	EWYS6004ZXR82	EWYS6504ZXR82	EWYS7004ZXR82	EWYS8004ZXR82	
Power supply	Phase				3								
	Frequency			Hz	50								
	Voltage			V	400								
	Voltage range	Min.	%	-10									
		Max.	%	+10									
Unit	Starting current			Max	A	0							
	Running	Cooling	Nom.	A	228	253	274	329	340	360	388	431	
	current	Max		A	335	374	396	451	473	524	550	656	
	Max unit current for wires sizing			A	369	411	436	496	520	576	605	722	
Water to water mode					EWYS4004ZXR82	EWYS4504ZXR82	EWYS5004ZXR82	EWYS5504ZXR82	EWYS6004ZXR82	EWYS6504ZXR82	EWYS7004ZXR82	EWYS8004ZXR82	
Cooling capacity	Nom.			kW	275.9	306.4	344.1	375.4	426.5	463.6	479.5	532.9	
Heating capacity	Nom.			kW	363.6	404.4	447.6	499.1	549.8	612.6	650.7	708.4	
Power Input				kW	87.8	98.3	104.6	118.2	126.0	140.0	147.4	157.3	
TEER				kW	7.28	7.23	7.57	7.4	7.75	7.69	7.67	7.89	
Water heat exchanger	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	
	Water volume			l	126		214		369	361	468		

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)	Cooling		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



Technical specifications				EWWT100Q-XSA1	EWWT125Q-XSA1	EWWT160Q-XSA1	EWWT100Q-XRA1	EWWT125Q-XRA1	EWWT160Q-XRA1
Cooling capacity	Nom.		kW	96.36	124.4	166.0	96.36	124.4	166.0
Heating capacity	Nom.		kW	110.2	142.8	186.7	110.2	142.8	186.7
Capacity control	Method			On/Off					
	Minimum capacity		%	50					
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
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
SCOP				4.72	4.81	4.94	4.72	4.81	4.94
SEER				6.4	6.54	6.49	6.4	6.54	6.49
Dimensions	Unit	Depth	mm	1,300					
		Height	mm	1,000					
		Width	mm	1,200					
Weight	Operation weight		kg	439	491	561	490	542	612
	Unit		kg	419	469	531	470	520	582
Casing	Colour			Ivory White					
	Material			Galvanized Steel Sheet					
Water heat exchanger	Type			Brazed Plate					
	Water flow rate	Cooling	Nom.	l/s	4.60	5.93	7.92	4.60	5.93
		Heating	Nom.	l/s	5.27	6.82	8.92	5.27	6.82
	Water pressure drop	Cooling	Nom.	l/s	19.35	20.00	22.10	19.35	20.00
		Heating	Nom.	l/s	24.90	25.10	29.70	24.90	25.10
	Water volume			l	9.45	11.07	14.85	9.45	11.07
Water heat exchanger - evaporator	Water flow rate	Cooling	Nom.	l/s	4.60	5.93	7.92	4.60	5.93
		Heating	Nom.	l/s	5.60	7.26	9.55	5.60	7.26
	Water pressure drop	Cooling	Nom.	l/s	19.35	19.98	22.15	19.35	19.98
		Heating	Nom.	l/s	27.81	28.00	33.60	27.81	28.00
Compressor	Quantity			2					
	Type			Scroll					
Operation range	Water side	Evaporator Min.	°CDB	-15					
		Max.	°CDB	30					
	Condenser	Min.	°CDB	20					
		Max.	°CDB	60					
Sound power level	Cooling	Nom.	dBA	81.0	84.2	86.0	75.0	78.2	80.0
	Heating	Nom.	dBA	65.4	68.6	70.4	59.4	62.6	64.4
Sound pressure level	Cooling	Nom.	dBA	65.4	68.6	70.4	59.4	62.6	64.4
Refrigerant	Type			R32					
	GWP			675					
	Charge		kg	6	7.1	9.1	6	7.1	9.1
	Circuits	Quantity		1					
Piping connections	Evaporator water inlet/outlet (OD)			3"					
Electrical specifications				EWWT100Q-XSA1	EWWT125Q-XSA1	EWWT160Q-XSA1	EWWT100Q-XRA1	EWWT125Q-XRA1	EWWT160Q-XRA1
Power supply	Phase			3					
	Frequency		Hz	50					
	Voltage		V	400					
	Voltage range	Min.	%	-10					
		Max.	%	+10					
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
		Max	A	62	80	97	62	80	97
	Max unit current for wires sizing			A	68	88	107	68	88

Water to water modular heat pumps

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EWHT-Q-XS/XR



Technical specifications					EWHT100Q-XSA1		EWHT100Q-XRA1	
Cooling capacity	Nom.			kW	91.68			
Heating capacity	Nom.			kW	106.0			
Capacity control	Method				On/Off			
	Minimum capacity			%	50			
Power input	Cooling	Nom.		kW	21.22			
	Heating	Nom.		kW	26.3			
EER					4.32			
COP					4.03			
IPLV					6.66			
SCOP					4.55			
SEER					5.98			
Dimensions	Unit	Depth	mm		1,300			
		Height	mm		1,000			
		Width	mm		1,200			
Weight	Operation weight			kg	451	502		
	Unit			kg	431	482		
Casing	Colour				Ivory White			
	Material				Galvanized Steel Sheet			
Water heat exchanger	Type				Braze Plate			
	Water flow rate	Cooling	Nom.	l/s	4.37			
		Heating	Nom.	l/s	5.07			
	Water pressure drop	Cooling	Nom.	l/s	17.70			
		Heating	Nom.	l/s	23.20			
	Water volume			l	9.45			
Water heat exchanger - evaporator	Water flow rate	Cooling	Nom.	l/s	4.37			
		Heating	Nom.	l/s	5.39			
	Water pressure drop	Cooling	Nom.	l/s	17.70			
		Heating	Nom.	l/s	25.90			
Compressor	Quantity				2			
	Type				Scroll			
	Oil	Charged volume		l	6			
Operation range	Water side	Evaporator Min.		°CDB	-15			
		Max.		°CDB	30			
		Condenser Min.		°CDB	20			
		Max.		°CDB	60			
Sound power level	Cooling	Nom.		dBA	81.0	75.0		
Sound pressure level	Cooling	Nom.		dBA	65.4	59.4		
Refrigerant	Type				R32			
	GWP				675			
	Charge			kg	7			
	Circuits	Quantity			1			
Piping connections	Evaporator water inlet/outlet (OD)				3"			
Electrical specifications					EWHT100Q-XSA1		EWHT100Q-XRA1	
Power supply	Phase				3			
	Frequency			Hz	50			
	Voltage			V	400			
	Voltage range	Min.	%		-10			
		Max.	%		+10			
Unit	Starting current	Max		A	221			
	Running current	Cooling	Nom.	A	36.9			
		Max		A	62			
	Max unit current for wires sizing			A	68			

Water to water modular heat pumps

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EWLT-Q-XR/XS



Technical specifications					EWLT100Q-XSA1	EWLT125Q-XSA1	EWLT160Q-XSA1	EWLT100Q-XRA1	EWLT125Q-XRA1	EWLT160Q-XRA1
Cooling capacity	Nom.		kW		90.2	116.9	155	90.2	116.9	155
Heating capacity	Nom.		kW							
Capacity control	Method				On/Off					
	Minimum capacity		%		50					
Power input	Cooling	Nom.	kW		23.67	31.1	38.55	23.67	31.1	38.55
	Heating	Nom.	kW							
EER					3.81	3.76	4.02	3.81	3.76	4.02
COP										
IPLV										
SCOP										
SEER										
Dimensions	Unit	Depth	mm		1,300					
		Height	mm		1,000					
		Width	mm		1,200					
Weight	Operation weight		kg		382	428	482	433	479	533
	Unit		kg		372	417	467	423	468	518
Casing	Colour				Ivory White					
	Material				Galvanized Steel Sheet					
Water heat exchanger	Type				Braze Plate					
	Water flow rate	Cooling	Nom.	l/s	4.3	5.58	7.39	4.3	5.58	7.39
		Heating	Nom.	l/s						
	Water pressure drop	Cooling	Nom.	l/s	17.16	17.93	19.55	17.16	17.93	19.55
		Heating	Nom.	l/s						
Water volume		l		9.45	11.07	14.85	9.45	11.07	14.85	
Water heat exchanger - evaporator	Water flow rate	Cooling	Nom.	l/s	4.3	5.58	7.39	4.3	5.58	7.39
		Heating	Nom.	l/s						
	Water pressure drop	Cooling	Nom.	l/s	17.16	17.93	19.55	17.16	17.93	19.55
		Heating	Nom.	l/s						
Compressor	Quantity				2					
	Type				Scroll					
Operation range	Oil	Charged volume		l	6	7.5	9	6	7.5	9
		Evaporator		Min.						
		Max.		°CDB						
		Condenser		Min.						
	Max.		°CDB							
Sound power level	Cooling	Nom.	dBA		81.0	84.2	86.0	75.0	78.2	80.0
Sound pressure level	Cooling	Nom.	dBA		65.4	68.6	70.4	59.4	62.6	64.4
Refrigerant	Type				R32					
	GWP				675					
	Charge		kg		0					
	Circuits		Quantity		1					
Piping connections	Evaporator water inlet/outlet (OD)				3"					
Electrical specifications					EWLT100Q-XSA1	EWLT125Q-XSA1	EWLT160Q-XSA1	EWLT100Q-XRA1	EWLT125Q-XRA1	EWLT160Q-XRA1
Power supply	Phase				3					
	Frequency		Hz		50					
	Voltage		V		400					
	Voltage range	Min.	%		-10					
		Max.	%		+10					
Unit	Starting current	Max	A		221	345	363	221	345	363
	Running current	Cooling	Nom.	A	42.1	50	60.7	42.1	50	60.7
		Max		A	62	80	97	62	80	97
	Max unit current for wires sizing		A		68	88	107	68	88	107

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



EWWQ-KC



EWWQ-KC

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	
 Space heating		General	Seasonal space heating eff. class		A++					
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		0.9					
	Average climate water outlet 35°C	General	Seasonal space heating eff. class		A+++		A++	A+++		
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 cooled multi-scroll chiller reversing on refrigerant side, standard efficiency, standard sound

- Single refrigerant circuit (2 scroll compressors) with single evaporator
- Heat pump version with reversibility on refrigerant side available, ideal for geothermal applications
- 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
- High flexibility for a wide variety of applications
- Allows sequencing control (up to 4 units) without any external device
- Stainless steel plate heat exchanger
- Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser
- MicroTech 4 controller with superior control logic and easy interface



EWHQ-G-SS

EWHQ-G-SS				100	120	130	150	160	190	210	240	270	340	400		
Cooling capacity	Nom.			kW	87.3	100.0	111	127	141	160	181	208	232	291	352	
Heating capacity	Nom.			kW	112	128	144	162	179	205	233	266	299	375	454	
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	
Power input	Cooling	Nom.		kW	22.4	25.3	28.5	32.0	35.6	41.1	46.0	53.3	59.1	73.7	88.4	
	Heating	Nom.		kW	27.0	30.9	35.2	39.3	43.6	50.4	56.6	64.7	72.2	90.3	109	
EER					3.90	3.95	3.91	3.96	3.95	3.90	3.93	3.90	3.92	3.95	3.98	
COP					4.15	4.16	4.09	4.12	4.11	4.07	4.11	4.10	4.14	4.16	4.18	
ESEER					4.70	4.84	4.65	4.86	4.80	4.89	4.86	4.83	4.79	4.90	4.83	
IPLV					6.02	6.14	5.66	5.84	5.73	5.84	5.81	5.87	5.71	5.86	5.79	
Dimensions	Unit	HeightxWidthxLength			mm	1,066x928x2,432			1,066x928x2,264			1,066x928x2,432			1,186x928x2,432	
Weight	Unit				kg	519	608	728	770	808	838	880	930	941	1,090	1,203
	Operation weight			kg	558	654	782	830	873	908	995	1,019	1,031	1,202	1,334	
Water heat exchanger - evaporator	Type				Plate heat exchanger											
	Water flow rate	Cooling	Nom.	l/s	4.2	4.8	5.3	6.1	6.7	7.7	8.7	10.0	11.1	13.9	16.9	
		Heating	Nom.	l/s	4.1	4.7	5.2	5.9	6.5	7.4	8.5	9.6	10.9	13.7	16.6	
	Water pressure drop	Cooling	Nom.	kPa	44		35	30	29	31	33	31	38	42	43	
		Heating	Nom.	kPa	42		33	28	27	29	32	29	37	41	42	
Water heat exchanger - condenser	Type				Plate heat exchanger											
	Water volume			l	6	8		10	12	13	15	17		27	34	
	Water flow rate	Cooling	Nom.	l/s	5.2	6.0	6.7	7.7	8.5	9.7	10.9	13.7	13.9	17.4	21.1	
		Heating	Nom.	l/s	5.4	6.2	7.0	7.8	8.7	9.9	11.2	12.5	14.3	18.0	21.8	
	Water pressure drop	Cooling	Nom.	kPa	69		55	49	48	51	54	32	39	66	69	
Heating		Nom.	kPa	73		59	51	50	53	57	33	42	70	73		
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	-8~15											
		Heating	Min.~Max.	°CDB	-8~15											
	Condenser	Cooling	Min.~Max.	°CDB	25~55											
		Heating	Min.~Max.	°CDB	25~55											
Refrigerant	Type/GWP				R-410A/2,087.5											
	Circuits	Quantity				1										
Refrigerant charge				kg/TCO2Eq	9.0/18.8		10.0/20.9		13.0/27.1	11.0/23.0	13.0/27.1	15.0/31.3		19.0/39.7		
Piping connections	Evaporator water inlet/outlet (OD)				1" 1/2					2" 1/2			3"			
	Condenser water inlet/outlet (OD)				1" 1/2					2" 1/2			3"			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											
Unit	Starting current	Max		A	204	255	261	308	316	354	368	466	481	640	677	
	Running current	Cooling	Nom.	A	43	46	50	56	63	71	78	88	97	123	148	
		Max		A	59	66	72	80	88	102	116	131	145	183	221	

Water cooled multi-scroll chiller, standard efficiency, standard sound

- Single refrigerant circuit (2 scroll compressors) with single evaporator
- Heat pump version available
- 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
- High flexibility for a wide variety of applications
- Allows sequencing control (up to 4 units) without any external device
- Stainless steel plate heat exchanger
- Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser
- MicroTech 4 controller with superior control logic and easy interface



Scroll compressor

EWWQ-G-SS

MicroTech 4



EWWQ-G-SS

Cooling Only				EWWQ-G-SS	090	100	120	130	150	170	190	210	240	300	360	
Space cooling	A Condition	Pdc		kW	93.7	105.6	119	135.9	150	172.1	193.8	220.7	246.1	314.3	370.4	
	35°C			%	209.08	215.32	233.52	227.68	233.04	233.36	220.32	235.56	231.84	236.64	211.36	
SEER					5.427	5.583	6.038	5.892	6.026	6.034	5.708	6.089	5.996	6.116	5.484	
Cooling capacity	Nom.			kW	93.7	105.6	119	135.9	150	172.1	193.8	220.7	246.1	314.3	370.4	
Power input	Cooling	Nom.		kW	21.3	24	26.9	30.5	33.9	38.9	43.8	50.74	56.1	70.2	84	
Capacity control	Method				Fixed											
	Minimum capacity			%	50	43	50	44	50	45	50	43	50	40	50	
EER					4.399	4.4	4.424	4.456	4.425	4.424	4.425	4.349	4.387	4.477	4.41	
ESEER					5.51	5.52	5.51	5.53	5.51	5.53	5.52					
IPLV					6.71	6.79	6.22	6.36	6.22	6.32	6.3	6.31	6.1	6.28	6.16	
Dimensions	Unit	Height		mm	1,066											
		Width		mm	928											
		Length		mm	2,432											
Weight	Unit			kg	516	606	728	762	795	832	871	921	934	1,083	1,181	
	Operation weight			kg	554.9	652.4	781.6	821.4	859	901.4	945.9	1,009.6	1,023.2	1,194.7	1,311.1	
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	4.5	5.07	5.7	6.51	7.18	8.24	9.28	10.57	11.79	15.06	17.74	
	Water pressure drop	Cooling	Nom.	kPa	48.8	49	39.1	33	32.6	34.5	36.7	33.8	41.8	46.8		
Water heat exchanger - condenser	Type				Plate heat exchanger											
	Water volume			l	6	8		10	12	13	15	17			27	34
	Water flow rate	Nom.		l/s	5.52	6.23	7.05	8.04	8.87	10.17	11.43	13.02	14.53	18.46	21.81	
	Water pressure drop	Cooling	Nom.	kPa	72	73	60	50		52	56	46	57	69	71	
Compressor	Type				Driven vapour compression											
	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											
		Heating	Min.~Max.	°CDB	-10~15											
	Condenser	Cooling	Min.~Max.	°CDB	25~55											
		Heating	Min.~Max.	°CDB	25~55											
Refrigerant	Type/GWP				R-410A/2,087.5											
	Charge			kg	10		11		12		15	16	17	19	20	
	Circuits	Quantity			1											
Refrigerant charge				TCO2Eq	20.88		22.96		25.05		31.31	33.40	35.49	39.66	41.75	
Piping connections	Evaporator water inlet/outlet (OD)				1" 1/2		2" 1/2								3"	
	Condenser 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	640	677	
	Running current	Cooling	Nom.	A	42	45	48	54	61	68	76	86	95	118	143	
		Max		A	59	66	72	80	88	102	116	131	145	183	221	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

Water cooled multi-scroll chiller, standard efficiency, standard sound

- Dual refrigerant circuit (4 scroll compressors) with single evaporator
- Heat pump version available
- Compact design to allow easy indoor installation or retrofit operations
- High efficiency and reliable scroll compressor
- Stainless steel plate heat exchanger
- High flexibility for a wide variety of applications
- Allows sequencing control (up to 4 units) without any external device
- Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser
- MicroTech 4 controller with superior control logic and easy interface



EWWQ-L-SS

Cooling only/Heating only				EWWQ-L-SS	180	205	230	260	290	330	380
Space cooling	A Condition	Pdc		kW	187.4	215.1	244.3	272.6	303.2	344.5	386.8
	ηs,c			%	211.72	222.72	232.76	230.32	236.76	233.32	224.84
SEER					5.493	5.768	6.019	5.958	6.119	6.033	5.821
Cooling capacity	Nom.			kW	187.4	215.1	244.3	272.6	303.2	344.5	386.8
Power input	Cooling	Nom.		kW	41.7	47.3	53.1	60.2	67.1	77.1	87
Capacity control	Method							Fixed			
	Minimum capacity			%	25	21	25	22	25	23	25
EER					4.494	4.548	4.601	4.528	4.519	4.468	4.446
ESEER					5.54		5.52	5.53	5.54	5.53	5.54
IPLV					6.77	6.84	6.35	6.38	6.31	6.32	6.36
Dimensions	Unit	Height		mm				1,970			
		Width		mm				928			
		Length		mm				2,801			
Weight	Unit			kg	877	1,062	1,285	1,347	1,439	1,498	1,559
	Operation weight			kg	957	1,156	1,401	1,469	1,575	1,641	1,723
Water heat exchanger - evaporator	Type							Plate heat exchanger			
	Water volume			l	35	41	53		65		76
	Water flow rate	Nom.		l/s	8.97	10.29	11.69	13.04	14.5	16.48	18.51
	Water pressure drop	Cooling	Nom.	kPa	28	27.6	22.6	28	25.1	32.2	31.9
Water heat exchanger - condenser	Type							Plate heat exchanger			
	Water volume			l	19	22	29		35		41
	Water flow rate	Nom.		l/s	11.02	12.66	14.4	16.12	17.9	20.38	22.8
	Water pressure drop	Cooling	Nom.	kPa	72	73	61	49	50	51	55
Compressor	Type							Driven vapour compression			
	Quantity							4			
Sound power level	Cooling	Nom.		dBA	83.0	86.0	88.0	90.0		91.0	
Sound pressure level	Cooling	Nom.		dBA	65.0	68.0	70.0	72.0		74.0	73.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB				-10~15			
		Heating	Min.~Max.	°CDB				-10~15			
	Condenser	Cooling	Min.~Max.	°CDB				25~55			
		Heating	Min.~Max.	°CDB				25~55			
Refrigerant	Type/GWP							R-410A/2,087.5			
	Charge			kg	20		22		24		30
	Circuits	Quantity						2			
Refrigerant charge	kg/TCO2Eq				10.0/20.9		11.0/23.0		12.0/25.1		15.0/31.3
Piping connections	Evaporator water inlet/outlet (OD)							3"			
	Condenser water inlet/outlet (OD)					1" 1/2		2" 1/2			
Unit	Starting current	Max		A	263	320	333	388	403	456	484
	Running current	Cooling	Nom.	A	83	89	96	109	121	137	151
	current	Max		A	118	131	144	160	175	205	232
Power supply	Phase/Frequency/Voltage			Hz/V				3~/50/400			

Performances according to CSS software 10.27

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						

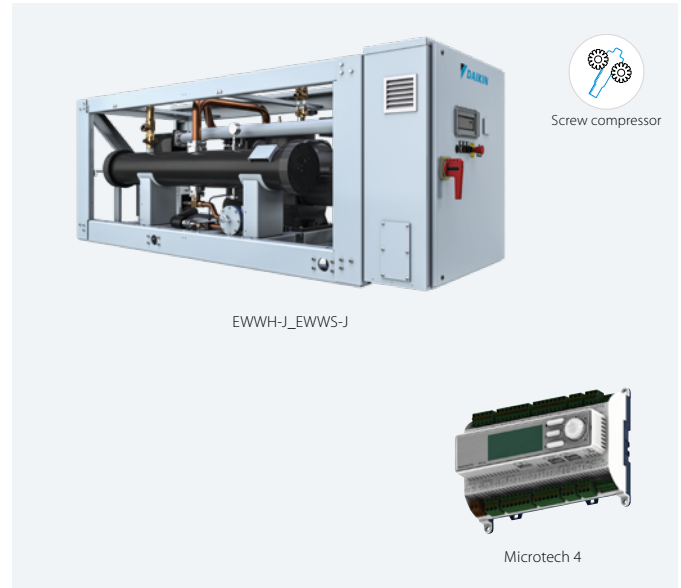
Performances according to CSS software 10.34

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

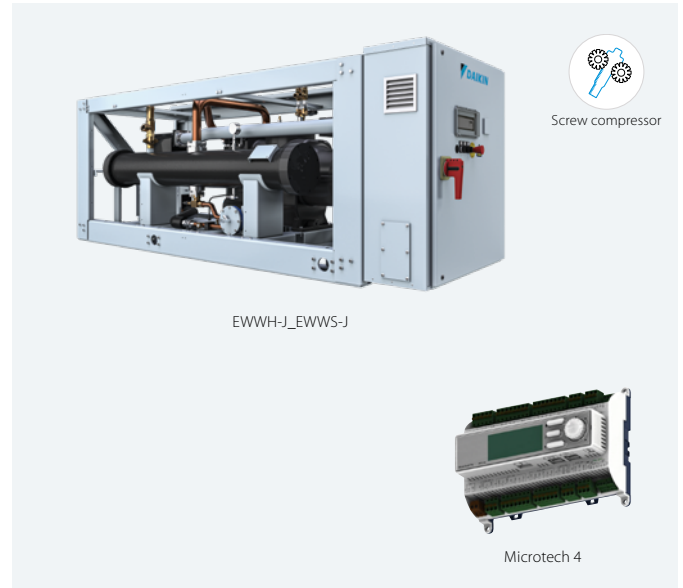
performances according to CSS software 10.34

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

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

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

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



Screw compressor

EWWS-J_EWWS-J

Microtech 4



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 were developed and manufactured to answer the growing market demands on high efficient chiller series. Thanks to the continuous evolution in components' technology, we are the first to reach the highest peak in chiller efficiency and technology.

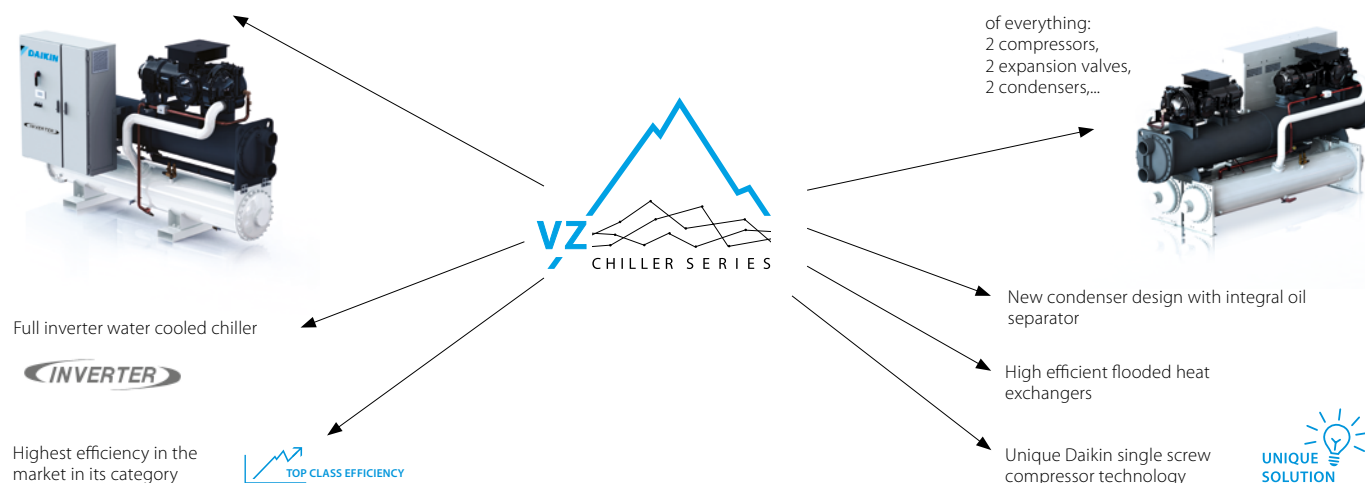
EWV(H)(D)(S)-VZ at a glance

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 for 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

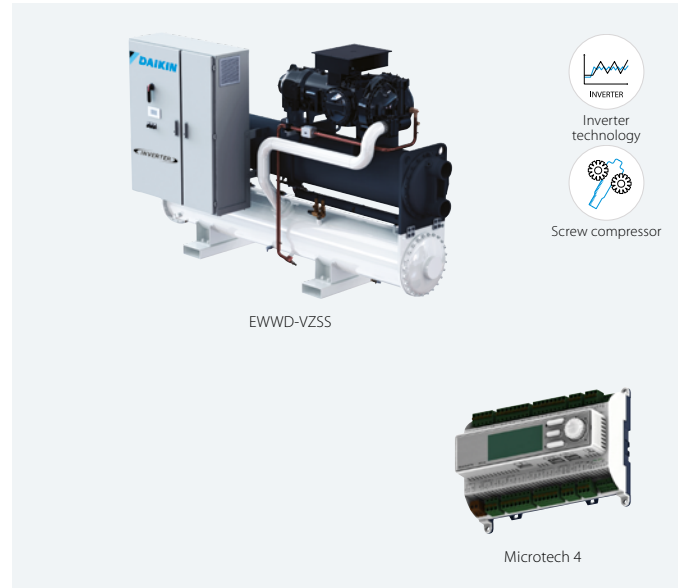
Supporting tools

Product video

www.youtube.com/DaikinEurope

Water cooled screw inverter chiller, standard efficiency, standard sound

- Optimized 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



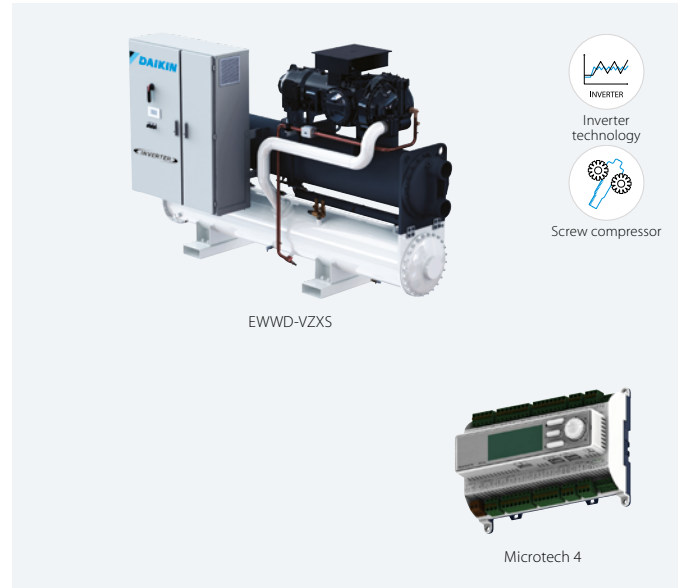
EWWD-VZSS

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

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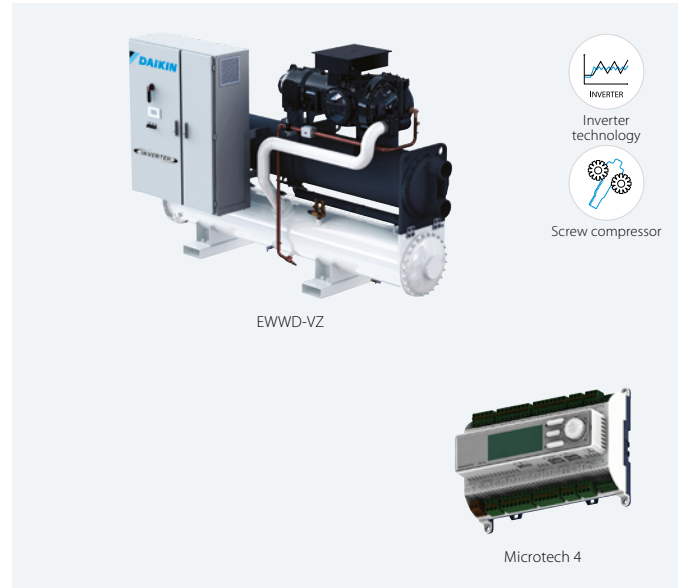
EWWD-VZXS

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

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EWWD-VZPS

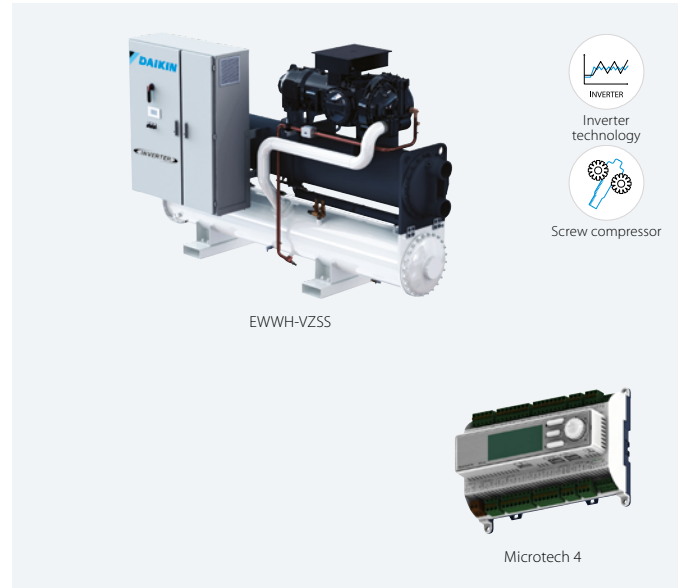
Cooling only/ Heating only				EWWD-VZPS	505	715	910	C12	C16	C18
Space cooling	A Condition Pdc (35°C - 27/19)			kW	505.02	717.71	908.11	1,201.02	1,604.03	1,757.01
	ηs,c			%	339.6	355.2	344.4	353.6	354	350
SEER					8.69	9.08	8.81	9.04	9.05	8.95
Cooling capacity	Nom.			kW	505	718	908	1,201	1,604	1,757
Power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

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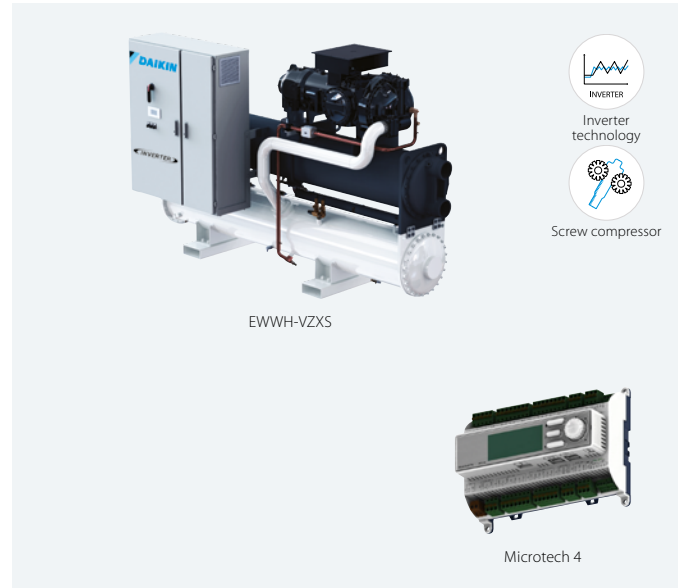
EWWH-VZSS

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											

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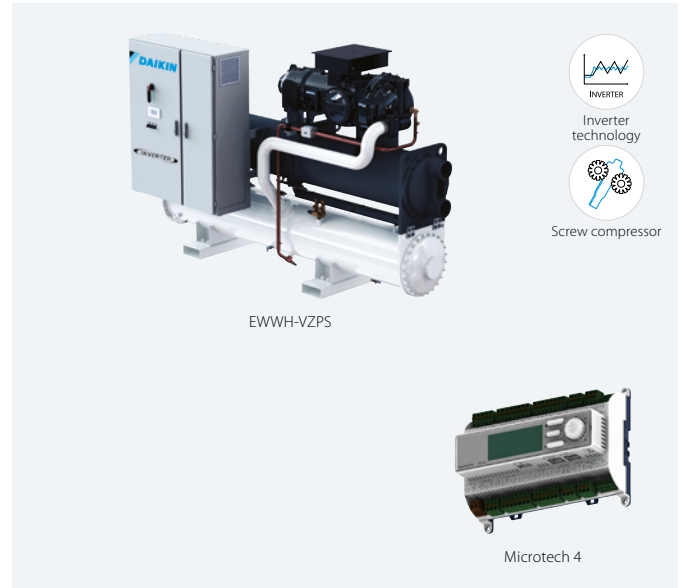
EWWH-VZXS

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				
					Driven vapour compression																	
Compressor	Type				1														2			
	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)				168.3mm		219.1mm					168.3/219.1 mm	219.1/219.1 mm									
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																	

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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
				kg	3,247	4,082	4,346	6,310	7,530	8,250
Weight	Operation weight			kg	3,375	4,349	4,660	6,900	8,300	9,200
	Type				Flooded shell and tube					
Water heat exchanger - evaporator	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
	Type				Shell and tube					
Water heat exchanger - condenser	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
	Type				Driven vapour compression					
Compressor	Quantity				1			2		
	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

- Optimized 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-VZ



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-VZ



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	15	17	27	34		
	Water flow rate	Nom.		l/s	4.2	4.7	5.3	6.0	6.7	7.7	8.7	9.8	11.1	13.9	16.6
	Water pressure drop	Cooling	Nom.	kPa	44	35	29	31	33	30	38	41			
Compressor	Type				Scroll compressor										
	Quantity				2										
Sound power level	Cooling	Nom.		dBA	80.0	83.0	85.0	87.0	88.0	90.0	92.0	93.0			
Sound pressure level	Cooling	Nom.		dBA	64.0	67.0	69.0	70.0	72.0	74.0	76.0	77.0			
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15										
	Condenser	Cooling	Min.~Max.	°CDB	30~60										
Refrigerant	Type / GWP				R-410A / 2,087.5										
	Circuits	Quantity			1										
Piping connections	Evaporator water inlet/outlet (OD)				1" 1/2		2" 1/2							3"	
Unit	Starting current	Max		A	204	255	261	308	316	354	368	466	481.0	640	677
	Running current	Cooling	Nom.	A	39	42	45	51	57	64	70	81	88	111	135
		Max		A	59	66	72	80	88	102	116	131	145	183	221
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

Condenserless multi-scroll chiller, standard efficiency, standard sound

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

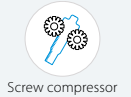
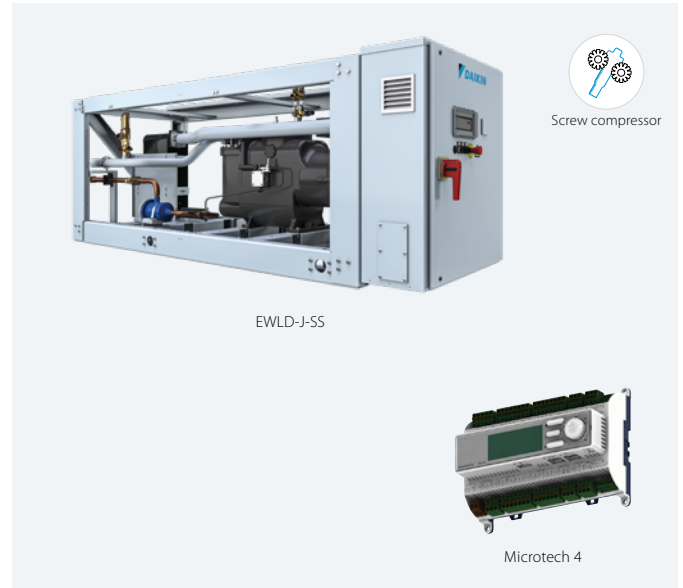


EWLQ-L-SS

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

Condenserless screw chiller, standard efficiency, standard sound

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



Microtech 4



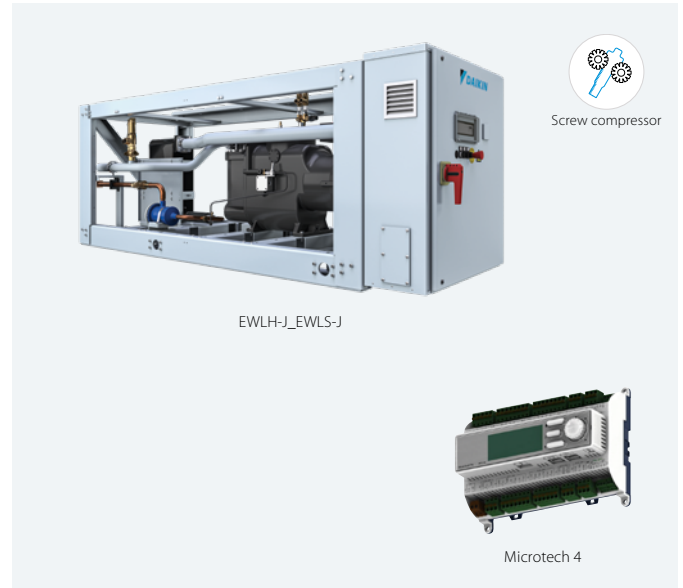
EWLD-J-SS

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.		dB(A)	89.0						
Sound pressure level	Cooling	Nom.		dB(A)	79.0						
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~-15						
	Condenser	Cooling	Min.~Max.	°CDB	25~60						
Refrigerant	Type / GWP				R-134a / 1,430						
	Circuits	Quantity			1						
Piping connections	Evaporator water inlet/outlet (OD)				76.2 mm						
Unit	Maximum Starting current			A	153		197		197	290	290
	Nominal running current (RLA)	Cooling		A	52	62	72	81	91	107	120
	Maximum running current			A	85	103	114	130	154	168	201
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

Performances according to CSS software 10.34

Condenserless screw chiller, standard efficiency, standard sound

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



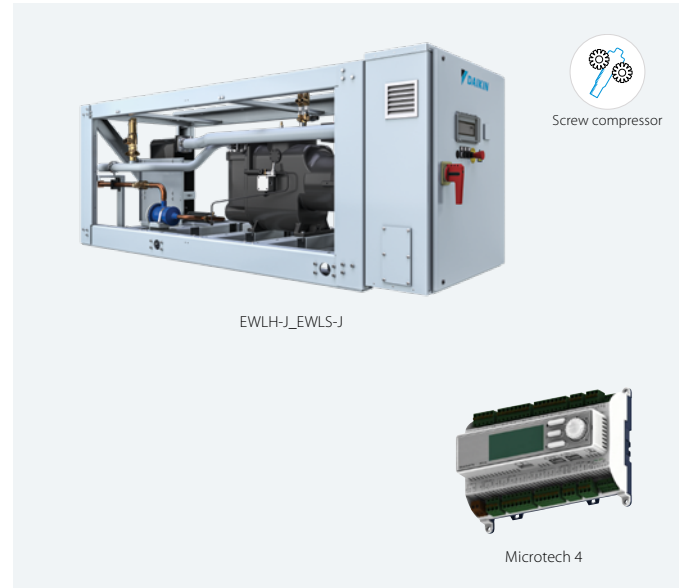
EWLH-J-SS

				EWLH-J-SS	080	100	110	130	140	170	190
Cooling capacity	Nom.			kW	84	102	109	127	143	174	193
Power input	Cooling	Nom.		kW	23.3	28.1	31.8	37	41.5	49.6	56.3
Capacity control	Method				Stepless						
	Minimum capacity			%	25						
EER					3.62		3.43	3.42	3.43	3.51	3.43
Dimensions	Unit	Height		mm	1,020						
		Width		mm	913						
		Length		mm	2,684						
Weight	Unit			kg	1,124	1,141	1,237	1,263	1,305	1,489	
	Operation weight			kg	1,138	1,159	1,253	1,281	1,327	1,518	
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s	4	4.9	5.2	6	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
	Running current	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



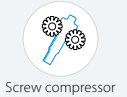
EWLS-J-SS

				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	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



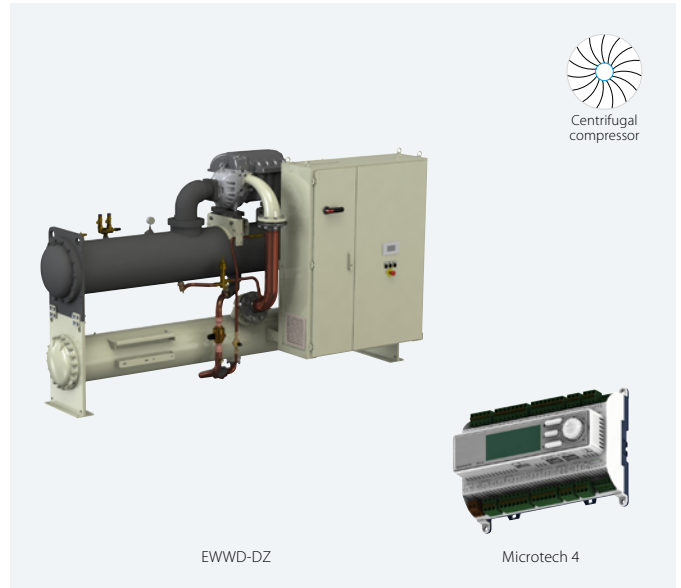
EWLD-I-SS

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.		dB(A)	94.0	97.0					98.0	99.0	100.0				101.0			103.0			
Sound pressure level	Cooling	Nom.		dB(A)	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
- Optimized for highly efficient R134a refrigerant and compatible with next generation refrigerants



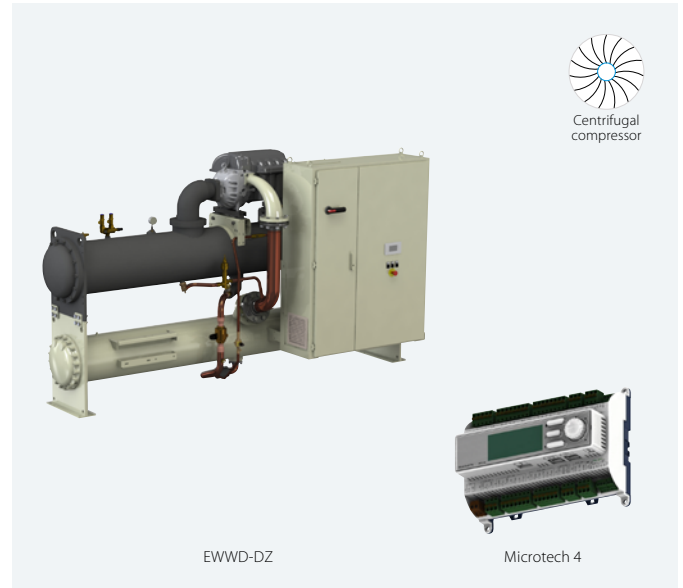
EWWD-DZXS

Cooling Only				EWWD-DZXS		320	440	530	610	640	700	880	C10	C13	C14	C15	C21
Space cooling	A Condition Pdc (35°C - 27/19)			kW	320.01	443.01	528	610.02	638.01	699.97	883.01	1,056	1,325.26	1,402	1,564.57	2,070.42	
	ηs,c			%	334	314	324	344	349	342	350	363	349.8	362	360.6	365.4	
SEER					8.72	8.65	9.08	8.91	8.95	8.79	8.99	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		2,083	2,200	2,225	2,290
		Width	mm	1,055				1,160				1,270		1,510	1,270	1,510	
		Length	mm	3,625				3,585				3,580		4,793	3,580	4,768	4,812
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	-	-	
	Cooling	Nom.		l/s	-								63.4	-	74.9	99.1	
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	-	-	
	Cooling	Nom.		l/s	-								76.1	-	89.5	117	
Compressor	Type				Driven vapour compressor												
	Quantity				1			2		1	2		3	2	3		
	Cooling	Nom.		dB(A)	87.9	88.9	89.9	91.1	91	91.1	92	93.3	99	94.3	100	101	
	Sound pressure level	Cooling	Nom.		dB(A)	69.6	70.6	71.6	72.6			73.6	74.6	80	75.6	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55		20~42	20~55	20~42	20~55	20~42			
Refrigerant	Type/GWP				R-134a/1,430												
	Charge			kg	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

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Centrifugal compressor



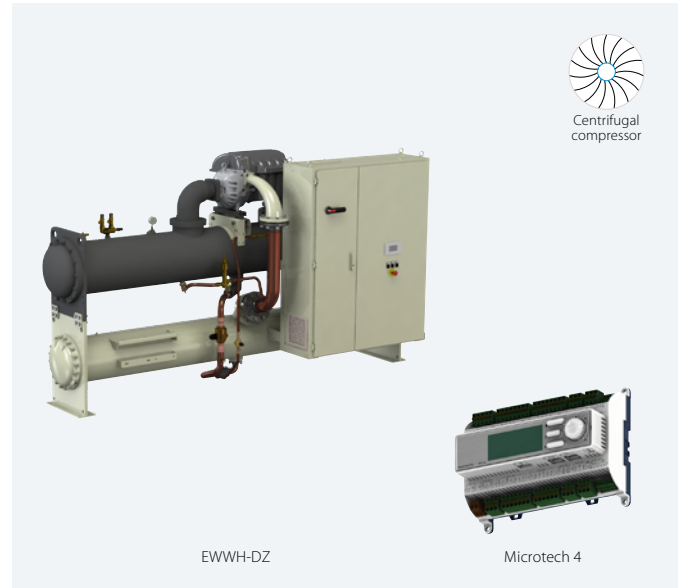
EWWD-DZXE

Cooling Only				EWWD-DZXE		340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22								
Space cooling	A Condition Pdc (35°C - 27/19)			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									
	ηs,c			%	335	316	326	345	349	346	352	339.8	365	350.6	366	359	370.2									
SEER					8.67	8.7	9.14	8.89	8.99	8.9	9.06	8.83	9.39	8.91	9.43	9.14	9.41									
Cooling capacity	Nom.			kW	341	474	566	670	682	742	946	1,038	1,130	1,437	1,478	1,685	2,173									
Power input	Cooling	Nom.		kW	69.9	93.5	108	138.4	138	131	186	210	216	288	263	329	393									
Capacity control	Method				Variable																					
	Minimum capacity			%	29	20		15		17		10		7	9	7	6									
EER					4.88	5.07	5.22	4.84	4.91	5.65	5.08	4.94	5.23	4.98	5.6	5.12	5.53									
ESEER					7.81	7.83	8.11	7.52	8	8.09	7.96	-	8.26	-	8.22	-	-									
IPLV					9.29	9.3	9.71	9.22	9.37	9.9	9.46	9.33	9.86	9.2	10.1	9.49	9.52									
Dimensions	Unit	Height	mm	1,865			1,985			2,082		2,200		2,083		2,200		2,225		2,290						
		Width	mm	1,055			1,160			1,510		1,270		1,510		1,270		1,510								
		Length	mm	3,625			3,585			4,688		3,580		4,793		3,580		4,768		4,812						
Weight	Unit			kg	1,750	1,950	2,050	2,850		2,650		3,000		4,400		3,700		4,700		3,900		5,100		5,900		
	Operation weight			kg	2,033	2,276	2,407	3,197	3,354	3,162	3,568	4,970	4,412	5,370	4,699	5,890	6,920									
Water heat exchanger - evaporator	Type			Flooded shell and tube																						
	Water volume			l	70	96	107		134		156		207.3		199		317.4		229		317.4		444.3			
	Water flow rate Nom.			l/s	16.4	22.7	27.1	32	32.7	35.6	45.3		-		54.1		-		70.9		-		-			
	Cooling	Nom.		l/s	-										49.1		-		68		-		80.4		103	
	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			
Water heat exchanger - condenser	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		-		-			
	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			
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	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							
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 Max	Nom.	A	105.42	144.7	162.48	212.9	210.15	196	287.44	318.3	323.53	425.9	392	496	588									
				A	134	208	166	267	196	417	406	331	631	392	511	589										
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																					

Performances according to CSS software 10.27

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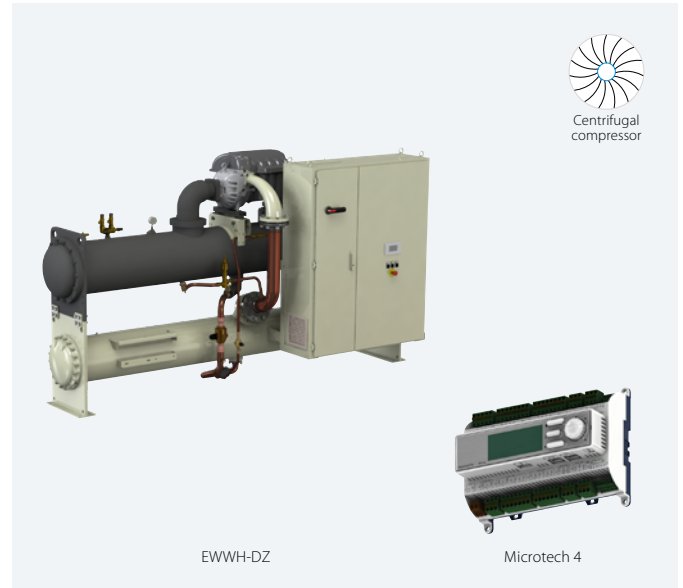
EWWH-DZXS

Cooling Only				EWWH-DZXS		230	320	380	430	455	460	640	755	920	945	C11	C13	
Space cooling	A Condition Pdc (35°C - 27/19)			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	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	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.	4~20													
	Condenser Cooling			Min.~Max.	20~55		20~42		20~55		20~42		20~55		20~42		20~55	
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 (35°C - 27/19)			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
- Optimized for highly efficient R-513A refrigerant and compatible with next generation refrigerants

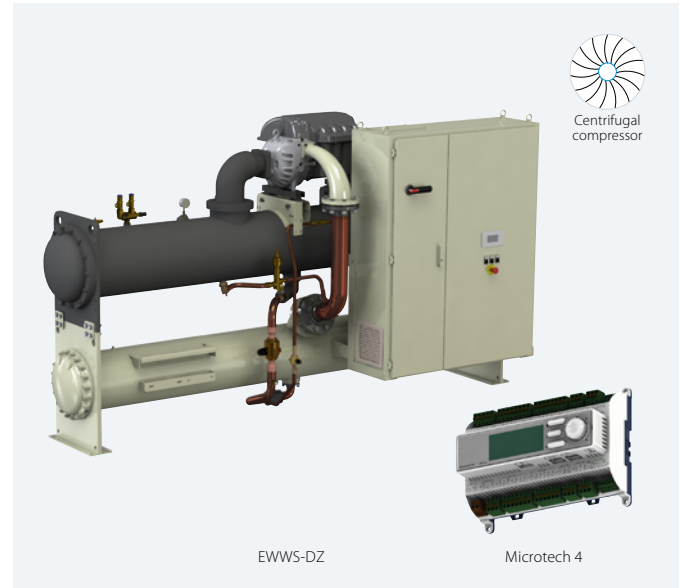


EWWS-DZXS

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) ηs,c			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
				%	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															
	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	2,290
		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	4,812
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															
	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															
	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															
	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															
	Charge			kg	120	150	120	140	190	180	200	230	240	230	270	
	Circuits	Quantity			1											
Piping connections				mm	139.7			168.3				219.1				
				mm	139.7			168.3				219.1				

Water cooled centrifugal chiller, high efficiency, standard sound

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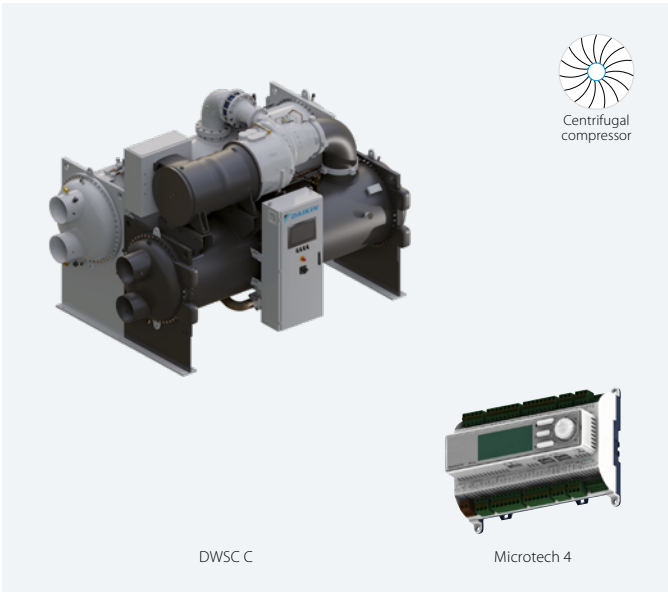


EWWS-DZXE

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 center 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 minimized 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



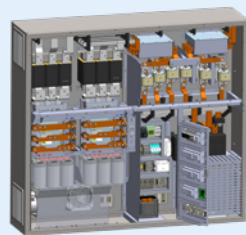
Free cooling operation
Allows to reduce the power consumption generated by traditional mechanical cooling.

Touch screen operator panel



Touch screen operator panel is graphically intuitive and easy to use for enhanced operator productivity. Important status and control information is available at a glance or a touch.

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				●				
EKCMLOH	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~KAWIM)

			Water-cooled chillers							Centrifugals		
ERAD~E-	EWAT~B-	EWAD~CF	EWQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWS/H/D~J- EWLS/H/D~J-	EWVH~VZ	EWVD~VZ	EWVH~DZ	EWVD~DZ	DWSC & DWDC
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			Water-cooled chillers							Centrifugals		
ERAD~E-	EWAT_B- (single)	EWAD~CF	EWQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWVD~J- EWLD~J-	EWVH~VZ A	EWVD~VZ A	EWVH~DZ	EWVD~DZ	DWSC & DWDC
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			Water-cooled chillers							Centrifugals		
ERAD~E-	EWAT_B- (single)	EWAD~CF	EWQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWVD~J- EWLD~J-	EWVH~VZ A	EWVD~VZ A	EWVH~DZ	EWVD~DZ	DWSC & DWDC
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(f) Price available in SAP system

(g) Differential pressure sensor are specific for iCM panels in variable primary flow management