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

For latest data, please consult my.daikin.eu

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.

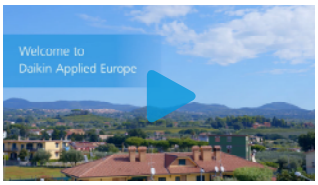
Staff who understands you

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:



YouTube
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:

YouTube
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

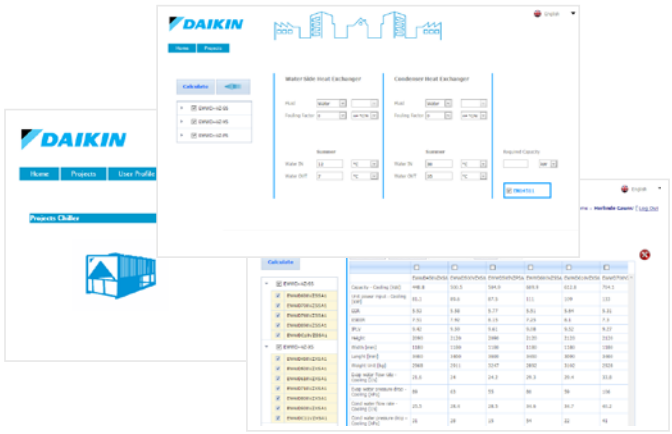
Daikin Europe offers you a variety of building modelling, selection, simulation and quotation software tools to support your sales.

Web-based chiller selection software

A user-friendly interface allows users to quickly create new projects, open and change exisiting 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/



ASTRA Web

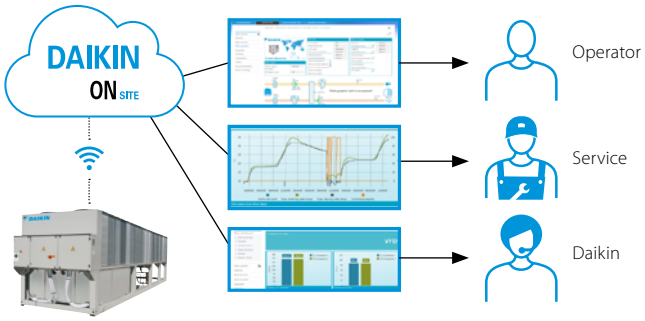
- Quick AHU selection that will save you precious time, drastically reducing selection time through the new software interface.
- Very competitive solution available within the Wizard thanks to pre-uploaded parameters.
- High selection quality, thanks to the intelligence embedded within the software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

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



BREEAM®

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!**

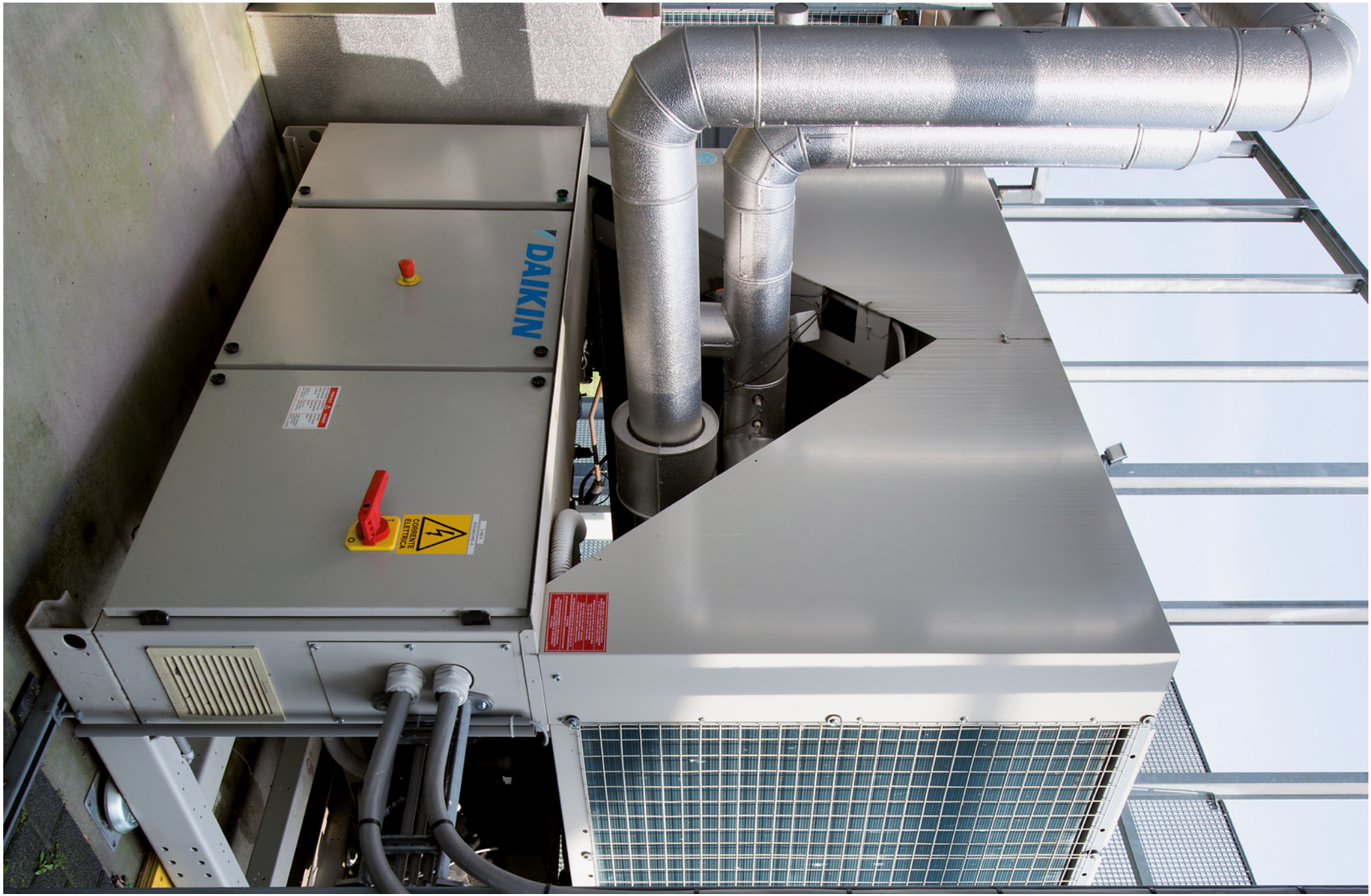
- Over 17 APs across Europe
- Assisting you to achieve your BREEAM certificate

☑ **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 CO_2 emissions it's not enough to simply make your equipment more efficient.

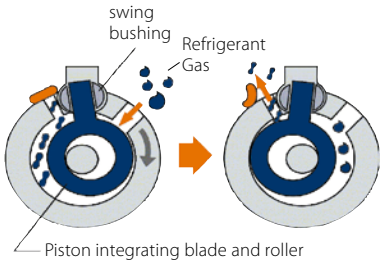

DAIKIN
CORRENTE ELETTRICA

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.

Swing compressor



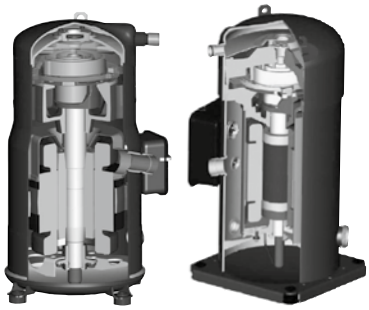
The mini chiller series EWAQ005-007ADVP & EWYQ005-007ADVP are equipped with a swing inverter compressor. This innovative design by Daikin has fewer moving parts allowing a smoother, more reliable operation with low vibration and low noise levels. The high-efficiency motor reduces energy consumption,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

Scroll compressor for controlled capacity

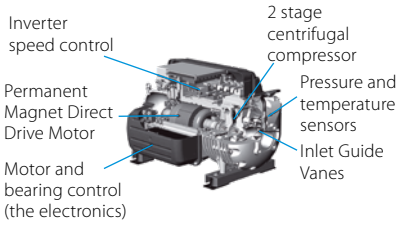
Being compact, the Daikin scroll compressor is used with R-407C and R-410A to provide constant reliability and high efficiency throughout its service life. Designed for small and medium capacities, the scroll compressors are used with air cooled and water cooled chillers.

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



Innovative frictionless centrifugal compressor

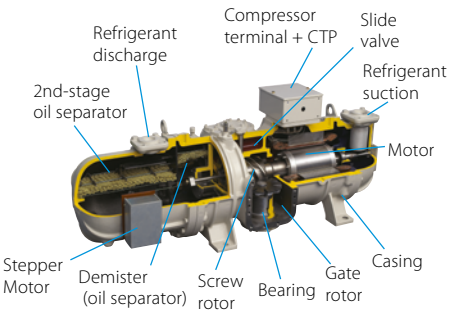


The innovative frictionless centrifugal compressor has an integrated VFD, as well as magnetic bearings, and delivers high levels of unit efficiency and reliability. The compressor's only moving part - the rotor shaft and impellers - are powered by the permanent magnetic direct-drive motor and kept levitated 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.

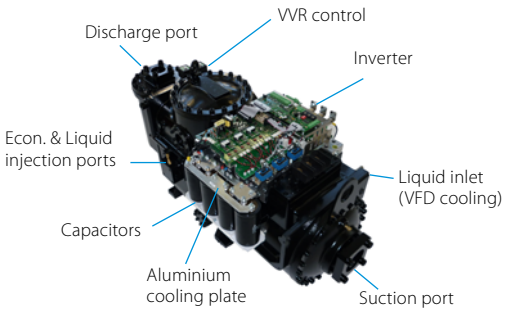
Screw compressor with integrated inverter

Characteristics:

- Compressor and inverter fully designed by Daikin
- Inverter integral to the compressor body
- Inverter refrigerant cooled
- VVR = Variable Volume Ration 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



Air cooled chiller installation

Office application

Air cooled chiller installation

Industrial Application

Hotel application

Data center application

Process cooling application

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

A user-friendly interface allows users to quickly create new projects, open and change exisiting 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.

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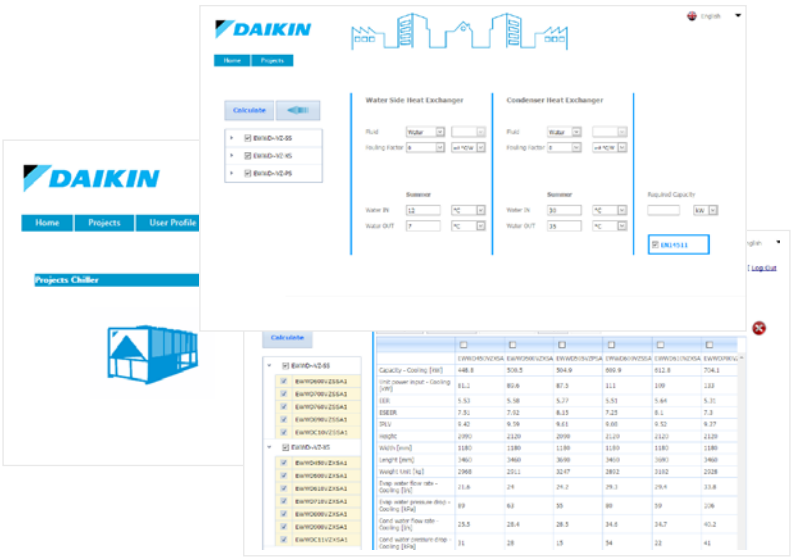
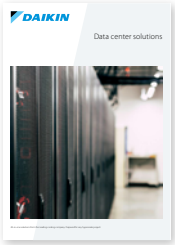


EWYE-CZ - Air to Water Inverter Heat Pump

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

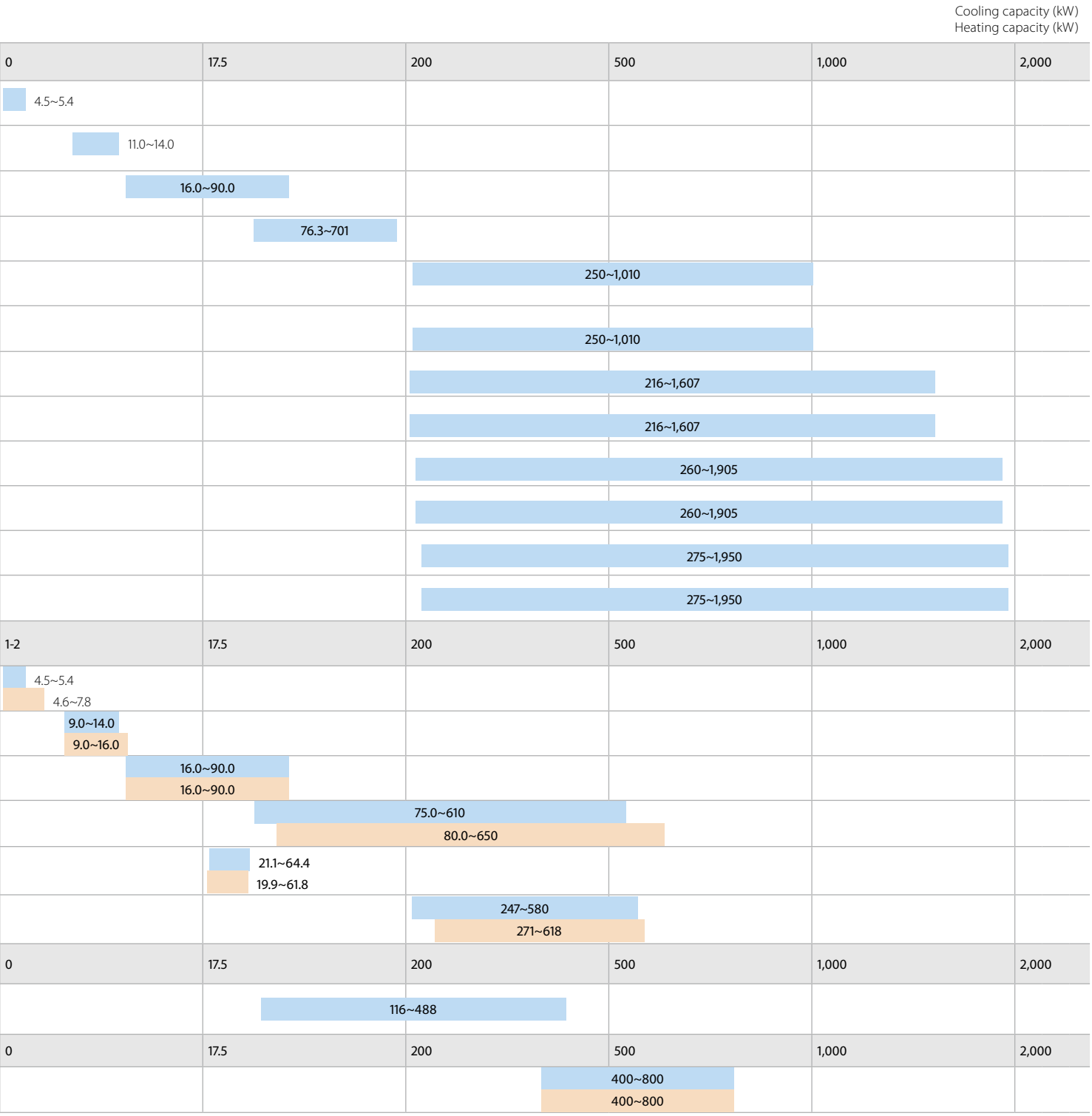
Literature

- 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	•		•			• BPHE			•			•		
EWAA-DV3P-H/ DW1P-H		R-32	1	•		•			• BPHE			•			•		
EWAT~CZN/P/H		R-32	1-2	•			•		• BPHE			•			•		
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	•				•	•	•	•	•	•	•	•		•
EWFH-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	•		•			• BPHE			•			•		
EWYA-DV3P-H/ DW1P-H		R-32	1	•		•			• BPHE			•			•		
EWYT~CZN/P/H		R-32	1-2	•			•		• BPHE			•			•		
EWYT-B		R-32	1-2				•		• BPHE			•	•		•	•	•
EWYT-CZI EWYT-CZO		R-32	1-2	•			•		• BPHE			•			•		
EWYD~BZ		R-134a	2-3	•				•		•		•			•	•	
Condensing unit																	
ERAD~E-		R-134a	1					•				•			•	•	
Multipurpose unit																	
EWYS-4Z		R-513A	2	•				•		•					•		•

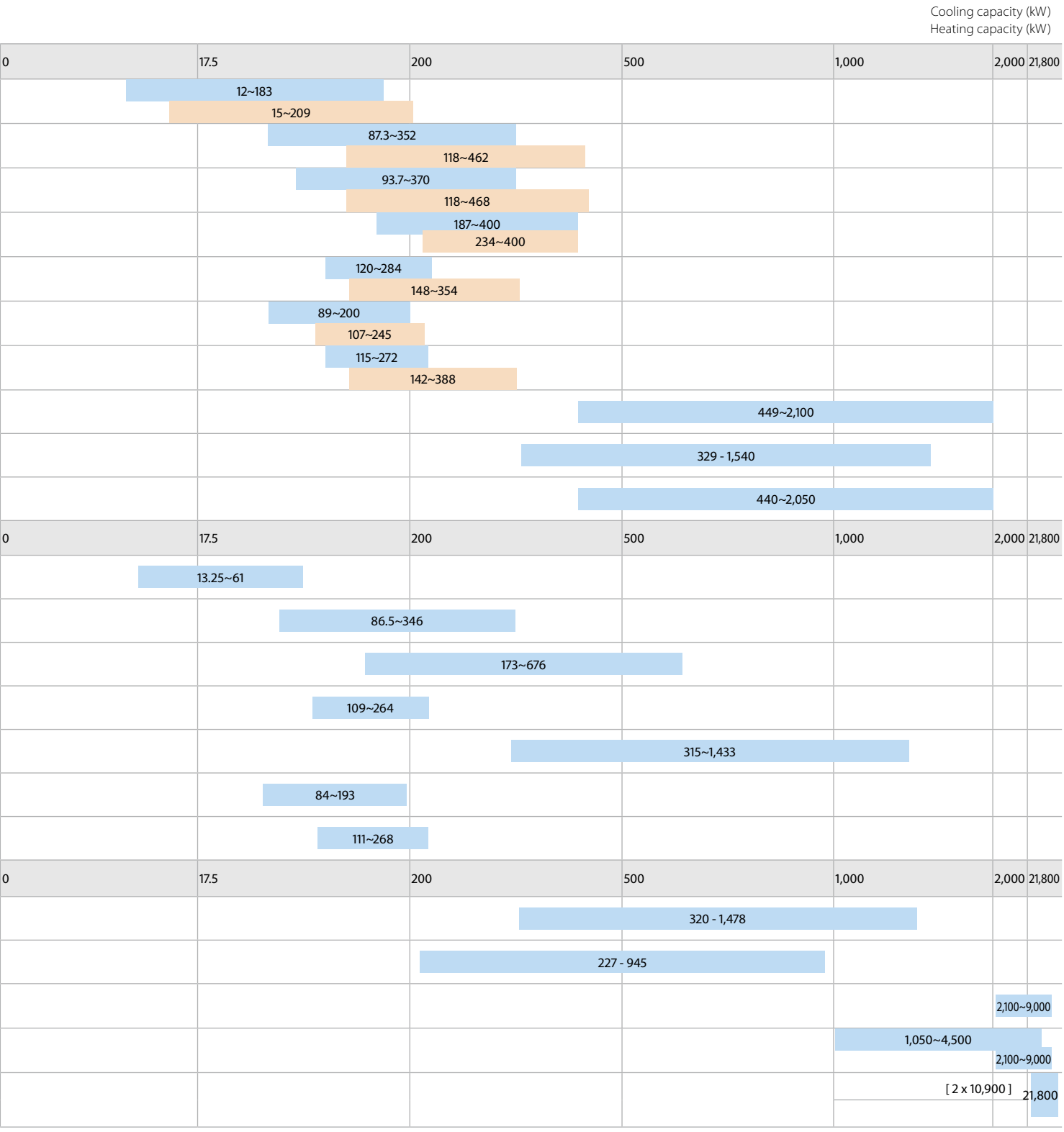
* (GWP): R-410A (2,087.5), R-134a (1,430) - ** BPHE: Brazed plate heat exchanger


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	•		•				• Flooded	•	•	•	•
EWWH-VZ		R-1234ze(E)	1-2	•		•				• Flooded	•	•	•	•
EWWS-VZ		R-513A	1-2	•		•				• Flooded	•	•	•	•
Condenserless chillers														
EWLQ-KCW1N		R-410A	1-2		•			• BPHE			•			•
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			•			• Flooded		•		•
DWSC C / DWDC C		R-134a, R-513A and R-1234ze	1	optional			•			• Flooded		•		•
6,000 RT CENTRIFUGAL		R-134a	2 per chiller				•		• Flooded			•		•

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


Cooling capacity (kW)
Heating capacity (kW)
0
17.5
200
500
1,000
2,000
21,800
12~183
15~209
87.3~352
118~462
93.7~370
118~468
187~400
234~400
120~284
148~354
89~200
107~245
115~272
142~388
449~2,100
329 - 1,540
440~2,050
13.25~61
86.5~346
173~676
109~264
315~1,433
84~193
111~268
320 - 1,478
227 - 945
2,100~9,000
1,050~4,500
2,100~9,000
[2 x 10,900]
21,800

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_R

EWAA-DV3P

Cooling Only				EWAA-D	004DV3P	006DV3P	008DV3P	011DV3P	014DV3P	016DV3P
Space cooling	A Condition 35°C	Pdc		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.	m^3/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

Inverter technology

Swing compressor

EWAA-EWYA-D_R

EWAA-DW1P

Cooling Only					EWAA	011DW1P	014DW1P	016DW1P
Space cooling	A Condition 35°C	Pdc			kW	11.6	12.8	14.0
	ηs,c				%	229	226	221
SEER						5.79(3)	5.71(3)	5.59(3)
Cooling capacity	Nom.				kW	11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Power input	Cooling	Nom.			kW	3.56(1)/2.17(2)	4.06(1)/2.51(2)	4.58(1)/3.24(2)
Capacity control	Method					Variable (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.		m^3/min	70	85	
Sound power level	Cooling	Nom.			dBA	67.0	69.0	
Sound pressure level	Cooling	Nom.			dBA	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.		°CDB	10~43		
	Water side	Cooling	Min.~Max.		°CDB	5~22		
Refrigerant	Type/GWP					R-32/675.0		
	Control					Electronic expansion valve		
	Circuits	Quantity				1		
Refrigerant charge	Per circuit				kg	3.80		
					TCO2Eq	2.6		
Unit	Running current	Max			A	14.0		
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400		

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

Air cooled mini inverter chiller

- Choosing 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 35°C	Pdc		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.	m^3/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

Inverter technology

Swing compressor

EWAA-EWYA-D_R

EWAA-DW1P-H

Cooling Only					EWAA	011DW1P-H-	014DW1P-H-	016DW1P-H-
Space cooling	A Condition 35°C	Pdc		kW		11.6	12.8	14.0
	ηs,c			%		229	226	221
SEER						5.79(3)	5.71(3)	5.59(3)
Cooling capacity	Nom.			kW		11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Power input	Cooling	Nom.		kW		3.56(1)/2.17(2)	4.06(1)/2.51(2)	4.58(1)/3.24(2)
Capacity control	Method					Variable (inverter)		
EER						3.26 (1)/5.31 (2)	3.16 (1)/5.04 (2)	3.06 (1)/4.74 (2)
Dimensions	Unit	Height		mm		870		
		Width		mm		1,380		
		Depth		mm		460		
Weight	Unit			kg		147		
Water heat exchanger	Type					Plate heat exchanger		
	Water volume			l		2		
Air heat exchanger	Type					High efficiency fin and tube type with integral subcooler		
Compressor	Type					Hermetically sealed swing inverter compressor		
	Quantity					1		
Fan	Type					Propeller fan		
	Quantity					1		
	Air flow rate	Cooling	Nom.	m^3/min		70	85	
Sound power level	Cooling	Nom.		dBA		67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA		47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB		10~43		
	Water side	Cooling	Min.~Max.	°CDB		5~22		
Refrigerant	Type/GWP					R-32/675.0		
	Control					Electronic expansion valve		
	Circuits	Quantity				1		
Refrigerant charge	Per circuit			kg		3.80		
				TCO2Eq		2.6		
Unit	Running current	Max		A		14.0		
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400		

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

INVERTER

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

Inverter technology

Scroll compressor

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-CZ_R

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	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

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-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	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

Inverter technology

Scroll compressor

EWYT-CZ_R

EWYT-CZN

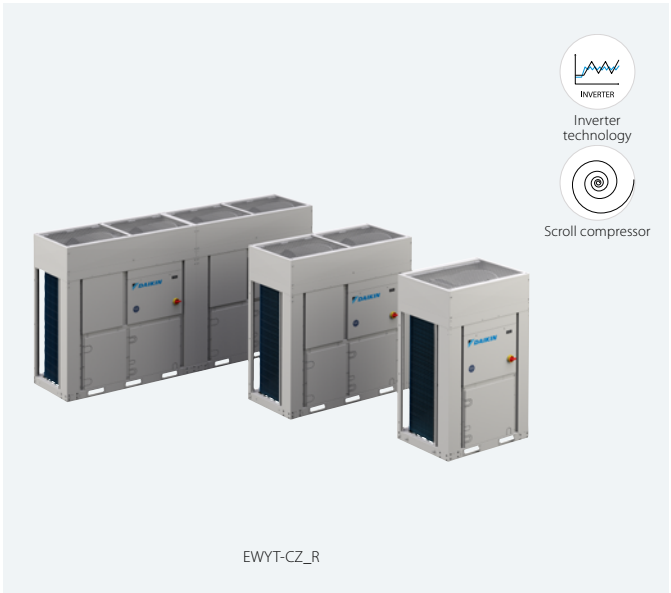
Heating & Cooling				EWYT	016CZN-A1	021CZN-A1	025CZN-A1	032CZN-A1	040CZN-A1	040CZN-A2	050CZN-A2	064CZN-A2	090CZN-A2
Space cooling	A Condition 35°C			Pdc kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
	ηs,c			%	197		200	205	201	213	210	205	198
SEER					5.00		5.06	5.21	5.09	5.41	5.33	5.21	5.03
Space heating	Average climate water outlet 35°C	General	SCOP		3.89	4.00	4.07	4.06	4.07	4.02	4.00	3.98	4.00
			Seasonal space heating eff. class		A++								
Cooling capacity	Nom.			kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
Heating capacity	Nom.			kW	15.9	20.2	24.8	32.4	39.4	40.3	49.8	61.9	85.8
Power input	Cooling	Nom.		kW	5.50	6.60	8.50	10.3	13.4	13.2	17.0	21.8	31.0
	Heating	Nom.		kW	4.70	5.80	7.50	9.40	11.8	11.9	15.4	19.1	27.2
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.90	3.16	3.00	3.13	2.95	3.12	2.98	2.93	2.84
COP					3.41	3.46	3.33	3.45	3.33	3.38	3.24	3.23	3.16
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	227	252		350	349	494		588	693
	Operation weight			kg	228	254		353	352	500		594	701
Water heat exchanger	Type				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

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-CZ_R

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

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

Air cooled scroll inverter heat pump

- 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

Inverter technology

Scroll compressor

EWYT-CZ_R

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 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		3.88	4.06	4.08	4.11	4.13	4.14	4.09	3.94	4.00
			Seasonal space heating eff. class		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


DAIKIN

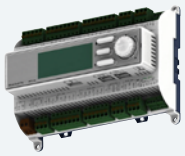

DAIKIN

Inverter screw cooling only with BLU efficiency. Standard sound.

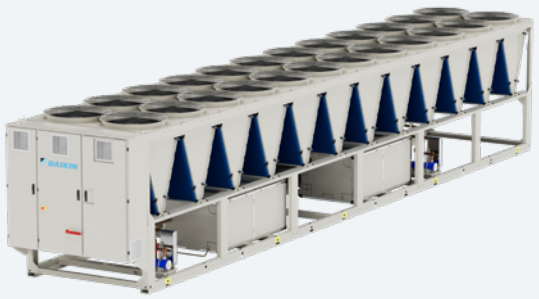
- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance optimization
- 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	171	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 current	Cooling	Nom.	A		179.1	196.2	217.6	248.4	283.5	336.9	298.8
		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	242.8	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 current	Cooling	Nom.	A		367.3	392.4	344.2	392.3	412.1	450	434.7
		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.	l/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 current	Cooling	Nom.	A		488.5	536.5	610.2	645.8	674.8	710.6	767.8
		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.	l/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 current	Cooling	Nom.	A		837.3	899.1	919.5	1,011	1,088	1,193
		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
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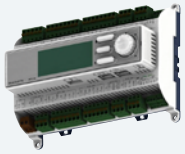
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

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	522.4	530.6
Power input	Cooling	Nom.		kW	84.44	98.36	112.8	131	151.7	162.1	161
Capacity control	Method				Stepless						
	Minimum capacity			%	22	19	17	22	23	11	22
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						
	Quantity				1					2	1
Fan	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	Max		A	0						
	Running current	Cooling	Nom.	A	174.3	202.4	227.4	249.9	281.8	332.1	300.1
		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
	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	63,730			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
	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	Max		A	0						
	Running current	Cooling	Nom.	A	359.1	387.7	340.8	407	384.9	451.6	442.9
		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	1,281	1,372
Power input	Cooling	Nom.		kW		258.7	301.2	332.2	351.6	384.5	412.6	451.9
Capacity control	Method					Stepless						
	Minimum capacity			%		11	12	11			10	
EER						3.2		3.1	3		3.1	3
IPLV						5.8	5.7	5.6			5.7	
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		7,960				9,040	11,200	12,280
Weight	Unit			kg		6,151	6,623		6,816	7,297	8,260	8,742
	Operation weight			kg		6,546	7,239	7,244	7,518	8,014	8,992	9,489
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					14				16	20	22
	Air flow rate	Cooling	Nom.	l/s		89,230				101,908	127,460	140,210
Sound power level	Cooling	Nom.		dBA		100			101		102	104
Sound pressure level	Cooling	Nom.		dBA		79	78	79			80	81
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		115	135	140	145	160	175	190
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm	219.1mm					
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		489.7	555	601.4	630.5	683.6	733.8	796.2
		Max		A		679	706	761	789	884	948	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

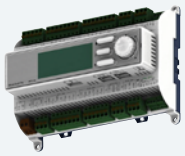
					EWAD-TZSSD	H14	H15	H16	H17	H18	H19
SEER						5.529	5.707	5.633	5.608	5.527	5.445
Cooling capacity	Nom.			kW		1,482	1,562	1,665	1,787	1,876	1,954
Power input	Cooling	Nom.		kW		500.2	485.4	542.2	589.4	654.5	725.7
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	10
EER			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

Inverter screw with GOLD efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 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-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 current	Cooling	Nom.	A	188.5	216.8	235.8	247.6	291.7	319.1	316.3
		Max		A	224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAD-TZXSD					565	610	635	670	705	725	760
SEER					5.937	5.999	6.146	5.891	5.552	5.94	5.308
Cooling capacity	Nom.			kW	565.9	610.7	629	668.1	701	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 current	Cooling	Nom.	A	348.1	378.7	359.4	420.8	383.5	443	421.6
		Max		A	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						



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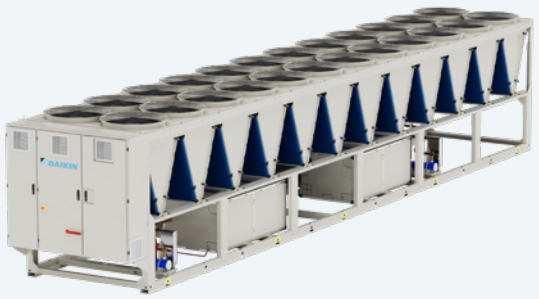

EWAD_H_S-TZ-D

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	1,129	1,194
Power input	Cooling	Nom.		kW		233.2	250.8	282.1	292.3	325.1	336.7	370.1
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
EER						3.4	3.5	3.4		3.3	3.4	3.2
IPLV						6.4	6.6	6.4	6.5	6.4	6.5	6.4
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		9,040			10,120		11,200	
Weight	Unit			kg		6,904	7,160		7,642		8,316	
	Operation weight			kg		7,495	7,761	7,771	8,258	8,268	9,028	9,038
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		90,480			101,780		113,080	
Sound power level	Cooling	Nom.		dBA		105	98	100	101	102	103	105
Sound pressure level	Cooling	Nom.		dBA		84	76	77		78		
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	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	Cooling	Nom.	A		470.4	496.7	543.6	565	613.9	637.5	687
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

					EWAD-TZXSD	H12	H13	H14	H15	H16	H17
SEER						6.126	6.14	5.896	5.807	5.723	5.629
Cooling capacity	Nom.			kW		1,286	1,359	1,454	1,567	1,671	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.	l/s		113,080	124,390		135,700		
Sound power level	Cooling	Nom.		dBA		108	106	102	103	104	105
Sound pressure level	Cooling	Nom.		dBA		78	79		80	81	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	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 current	Cooling	Nom.	A		737.2	777.9	774.1	852	934.8	1,026
		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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- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
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- Microchannel coils
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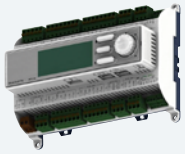
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

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
EER					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						
	Quantity				1					2	1
Fan	Type				Direct propeller						
	Quantity				6	8		10		12	
	Air flow rate	Cooling	Nom.	l/s	28,330	37,770		47,210		56,660	
Sound power level	Cooling	Nom.		dBA	87	88	92	88		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						
	Charge			kg	40	45	50	60	70		75
	Circuits	Quantity			1					2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	193.6	221.9	241.5	252.5	299.5	326	323.5
		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
EER					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						
	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	66,100	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						
	Charge			kg	80	85		90	95	100	105
	Circuits	Quantity			2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	356.7	387.5	368.6	431.6	396.2	454.1	436.4
		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-TZXRD

					EWAD-TZXRD	805	880	950	C10	H10	H11	C12
SEER						6.169	6.363	6.179	6.354	6.217	6.34	6.191
Cooling capacity	Nom.			kW		792.9	867.7	937.7	982.6	1,049	1,117	1,179
Power input	Cooling	Nom.		kW		231.9	250.8	283.9	292.8	327.6	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		72
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1,430						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm						
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		481.4	509.6	559.3	580.3	632.1	655.3	707.6
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

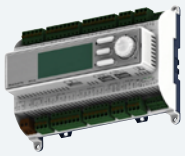
					EWAD-TZXRD	H12	H13	H14	H15	H16	H17
SEER						6.12	6.181	5.883	5.764	5.704	5.537
Cooling capacity	Nom.			kW		1,268	1,341	1,434	1,543	1,641	1,729
Power input	Cooling	Nom.		kW		408	430.2	424.5	480.3	539.4	603.9
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
EER						3.2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

Inverter screw with PLATINUM efficiency. Standard sound.

- Environmentally conscious HFC134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
- New single screw compressor geometry allowing performance 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-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	130.3
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.	l/s		45,240	56,540		67,850		
Sound power level	Cooling	Nom.		dBA		97	98	100	95	96	98
Sound pressure level	Cooling	Nom.		dBA		78	81	82	74	75	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		40	45	50	55	60	65
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		174	204	229	233	249	269
		Max		A		220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

					EWAD-TZPSD	530	575	615	675	735
SEER						6.391	6.301	6.28	6.161	6.216
Cooling capacity	Nom.			kW		529.6	571.8	617.7	676.1	733.5
Power input	Cooling	Nom.		kW		143.1	158.6	171.1	194	210.7
Capacity control	Method					Stepless				
	Minimum capacity			%		13	12	11	10	
EER						3.7	3.6		3.5	
IPLV						6.7	6.6	6.5	6.4	6.5
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		7,960		9,040		
Weight	Unit			kg		5,829		6,311		6,427
	Operation weight			kg		6,159	6,164	6,651	6,661	6,825
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16		
	Air flow rate	Cooling	Nom.	l/s		79,170		90,480		
Sound power level	Cooling	Nom.		dBA		100		101		102
Sound pressure level	Cooling	Nom.		dBA		79	80	81	83	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1,430				
	Charge			kg		75	80	85	95	100
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		318	345	374	414	442
		Max		A		399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				



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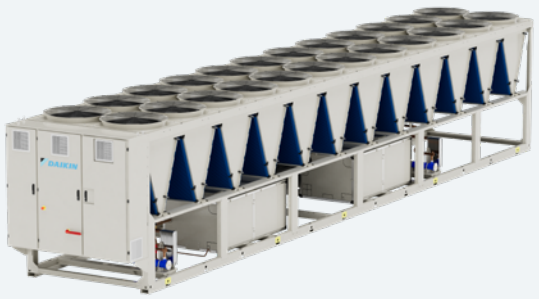


EWAD_H_S-TZ-D

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	1,072	1,137
Power input	Cooling	Nom.		kW		226.1	242.4	271.7	281.9	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			11,200		12,280
Weight	Unit			kg		7,385	7,642		8,123		8,798
	Operation weight			kg		7,976	8,243	8,253	8,744	8,754	9,515
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		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 current	Cooling	Nom.	A		466	490	534	555	601	627
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

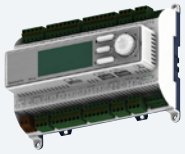
					EWAD-TZPSD	C12	H12	H13	H14	H15
SEER						6.398	6.263	6.31	5.978	5.928
Cooling capacity	Nom.			kW		1,203	1,298	1,372	1,455	1,568
Power input	Cooling	Nom.		kW		357.4	387.4	409.1	409.5	462.1
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
EER						3.4			3.6	3.4
IPLV						6.7	6.6		6.2	6.5
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		12,280		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		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 current	Cooling	Nom.	A		674	721	759		837
		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 current	Cooling	Nom.	A	176.6	207.4	232.7	236.3	253.2	273.8
		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		6,547
	Operation weight			kg	6,279	6,284	6,771	6,781	6,945
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				14		16		
	Air flow rate	Cooling	Nom.	l/s	66,100		75,540		
Sound power level	Cooling	Nom.		dBA	91				92
Sound pressure level	Cooling	Nom.		dBA	69				70
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46				
Refrigerant	Type/GWP				R-134a/1,430				
	Charge			kg	75	80	85	95	100
	Circuits	Quantity			2				
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				
Unit	Starting current	Max		A	0				
	Running current	Cooling	Nom.	A	324.3	352.5	381.3	422.7	448
		Max		A	399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				



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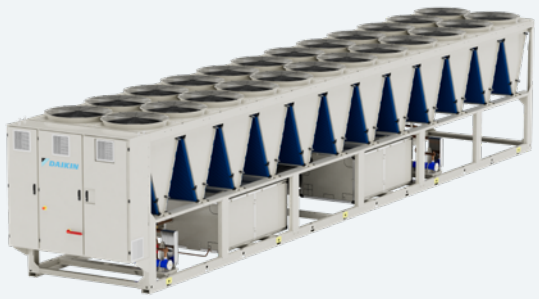

EWAD_H_S-TZ-D

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	1,126
Power input	Cooling	Nom.		kW		222.8	240.2	271.1	280	312.2	324.7
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3.6		3.5		3.4	3.5
IPLV						6.8	7.1	6.9		6.7	7
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		10,120			11,200		12,280
Weight	Unit			kg		7,505	7,762		8,243		8,918
	Operation weight			kg		8,096	8,363	8,373	8,864	8,874	9,635
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		84,980			94,420		103,870
Sound power level	Cooling	Nom.		dBA		94	90	91	92		93
Sound pressure level	Cooling	Nom.		dBA		72	68	69		70	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1,430					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		475.1	501.2	547.7	568.5	616.6	643
		Max		A		573	616	672	709	761	796
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	1,544
Power input	Cooling	Nom.		kW		357.7	389.9	410.4	413.9	469.4
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
EER						3.3			3.5	3.3
IPLV						6.7		6.6	6.3	6.1
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		12,280		13,360		
Weight	Unit			kg		8,918	9,775	10,256	10,925	
	Operation weight			kg		9,640	10,966	11,457	12,141	12,156
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		103,870		113,320		
Sound power level	Cooling	Nom.		dBA		95	96	95	93	
Sound pressure level	Cooling	Nom.		dBA		72	74	72	69	70
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 current	Cooling	Nom.	A		692.2	742.3	780.3	784.9	867
		Max		A		845	893	951	1,039	1,135
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
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- Microchannel coils
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- Performance monitoring
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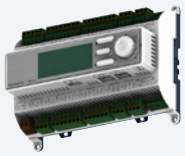
					EWAH-TZBSD	235	255	300	350	400	400	420
SEER						4.491	4.373	4.355	4.666	4.428	4.588	4.601
Cooling capacity	Nom.			kW		235.4	255.6	301.6	359.8	398.5		417.2
Power input	Cooling	Nom.		kW		79.49	92.42	118.2	117.9	140.7		151.4
Capacity control	Method					Stepless						
	Minimum capacity			%		19	17	14	23	12	20	19
EER						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						
	Quantity					1				2	1	
Fan	Type					Direct propeller						
	Quantity					4			6	8	6	
	Air flow rate	Cooling	Nom.	l/s		25,490	25,493		38,240	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						
	Charge			kg		30	35	40	50	55		
	Circuits	Quantity				1				2	1	
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm			
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		159	181	219	221	255		271
		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	
EER						3.137	2.547	3.009	2.447	2.658		2.864
IPLV						4.407	4.537	4.451	4.523	4.492	4.462	4.402
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		4,720	3,640	4,720	3,640	4,720		5,800
Weight	Unit			kg		3,751	3,486	3,941	3,871	4,353	3,971	4,422
	Operation weight			kg		3,811	3,546	4,006	3,941	4,428	4,046	4,502
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2	1	2	1		2	
Fan	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						
	Charge			kg		60		65	70	75		80
	Circuits	Quantity				2	1	2	1		2	
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm		168.3mm	139.7mm		168.3mm	
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		274	308	321		351		391
		Max		A		358	396	406	435	463	452	494
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						



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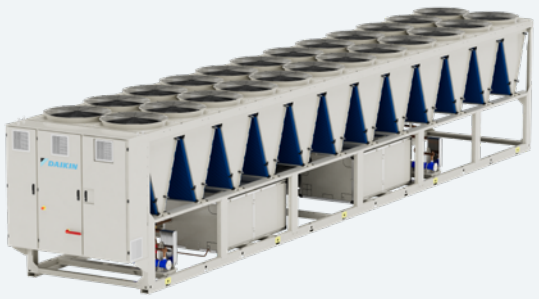

EWAD_H_S-TZ-D

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 current	Cooling	Nom.	A		425	445	480	519	544	617	682
		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		22
	Air flow rate	Cooling	Nom.	l/s		101,980	114,720		127,467		140,213
Sound power level	Cooling	Nom.		dBA		106.9	104.3	105.2	106.1	107	107.5
Sound pressure level	Cooling	Nom.		dBA		84.97	82.09	82.94	83.56	84.45	84.63
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		165	180	190	205	215	220
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					273mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		748	733	804	862	943	971
		Max		A		927	1,015	1,106	1,383	1,330	1,400
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

Inverter screw with SILVER efficiency. Standard sound.

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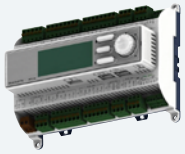
					EWAH-TZSSD	240	265	295	370	400	415	450
SEER						5.606	5.489	5.354	5.624	5.379	5.498	5.506
Cooling capacity	Nom.			kW		242.1	264.9	296.5	366.7	402.3	408.8	447.1
Power input	Cooling	Nom.		kW		75.33	86.23	98.15	112.9	121.5	133.5	144.5
Capacity control	Method					Stepless						
	Minimum capacity			%		19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

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



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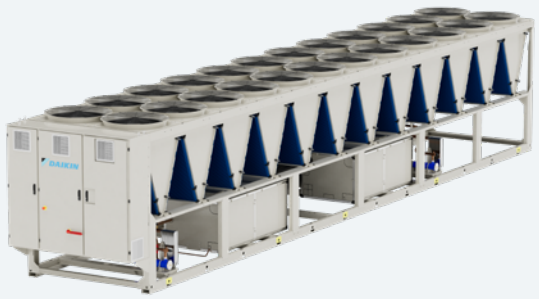

EWAD_H_S-TZ-D

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						
	Quantity				2						
Fan	Type				Direct propeller						
	Quantity				12	14		16	18	20	
	Air flow rate	Cooling	Nom.	l/s	76,480	89,233		101,908	114,714	127,460	
Sound power level	Cooling	Nom.		dBA	99.7	100.5	100.8	101.6	103	104.1	104.8
Sound pressure level	Cooling	Nom.		dBA	78.52	78.95	79.25	79.73	80.8	81.53	82.27
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-1234(ze)/7						
	Charge			kg	100	110	120	125	135	145	155
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		219.1mm				273mm
Unit	Starting current	Max		A	0						
	Running current	Cooling	Nom.	A	456.1	483.2	520.7	547.3	594.5	627.5	665.5
		Max		A	581	634	677	729	802	852	891
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWAH-TZSSD					C12	H12	H13	C14	C15	H15
SEER					5.339	5.735	5.652	5.723	5.774	5.686
Cooling capacity	Nom.			kW	1,211	1,331	1,406	1,492	1,542	1,606
Power input	Cooling	Nom.		kW	416.6	409.9	455.3	495.6	512.4	566.3
Capacity control	Method				Stepless					
	Minimum capacity			%	10	12	11		10	
EER					2.906	3.248	3.088	3.01	3.009	2.836
IPLV					5.254	6.207	5.994	6.078	6.09	5.956
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	11,200			12,280	13,360	
Weight	Unit			kg	8,315	8,760		9,242	9,723	
	Operation weight			kg	8,485	8,945	8,955	9,447	9,938	9,948
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				2					
Fan	Type				Direct propeller					
	Quantity				20			22	24	
	Air flow rate	Cooling	Nom.	l/s	127,460			140,206	152,952	
Sound power level	Cooling	Nom.		dBA	107	104.4	105.2	106.2	107.1	107.5
Sound pressure level	Cooling	Nom.		dBA	84.42	81.86	82.7	83.33	83.98	84.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	170	185	195	205	215	225
	Circuits	Quantity			2					
Piping connections	Evaporator water inlet/outlet (OD)				273mm					
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	741.8	732.3	799.8	862.2	893.4	973.3
		Max		A	948	1,025	1,117	1,393	1,351	1,410
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

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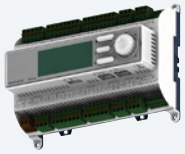
EWAH-TZXSD					220	230	275	300	350	400
SEER					5.528	5.478	5.899	5.78	6.259	6.127
Cooling capacity	Nom.			kW	219.8	323.4	275.1	299.3	348.7	397.5
Power input	Cooling	Nom.		kW	67.79	74.71	82.02	92.55	99.59	122.1
Capacity control	Method				Stepless					
	Minimum capacity			%	22	20	18	16	25	22
EER					3.243	3.111	3.354	3.234	3.501	3.256
IPLV					6.035	5.988	6.156	6.085	6.684	6.588
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	2,560		3,640		4,720	
Weight	Unit			kg	2,731		3,242		4,023	
	Operation weight			kg	2,761		3,277	3,282	4,068	4,078
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				1					
Fan	Type				Direct propeller					
	Quantity				4		6		8	
	Air flow rate	Cooling	Nom.	l/s	22,620		33,930		45,240	
Sound power level	Cooling	Nom.		dBA	97.3	97.5	100.2	100.8	97.3	99.8
Sound pressure level	Cooling	Nom.		dBA	78.13	78.36	80.42	81.11	77.01	79.55
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	30		35	40	45	55
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm				139.7mm	
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	145.1	157.4	175.8	194.2	211.3	243.1
		Max		A	172	183	214	236	269	310
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAH-TZXSD					465	470	515	540	545	600
SEER					5.999	6.336	6.198	5.64	6.108	6.04
Cooling capacity	Nom.			kW	471.7	466	504.2	534.5	543.9	602.4
Power input	Cooling	Nom.		kW	135.2	139.9	159.8	152.6	155.1	178.4
Capacity control	Method				Stepless					
	Minimum capacity			%	10	19	17	30	10	
EER					3.488	3.331	3.156	3.503	3.508	3.376
IPLV					6.223	6.632	6.422	5.95	6.381	6.28
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	6,880	5,800			6,880	
Weight	Unit			kg	4,886	4,569		5,323	5,105	5,157
	Operation weight			kg	4,951	4,634	4,639	5,398	5,180	5,242
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				2	1			2	
Fan	Type				Direct propeller					
	Quantity				12	10			12	
	Air flow rate	Cooling	Nom.	l/s	67,860	56,540			67,860	
Sound power level	Cooling	Nom.		dBA	100.6	104.5	101.7	98.8	100.9	105.5
Sound pressure level	Cooling	Nom.		dBA	79.43	83.77	80.97	78.1	79.75	84.34
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	65		70	75		85
	Circuits	Quantity			2	1			2	
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm				168.3mm	
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	299	276.8	306.6	296.2	334.4	375.7
		Max		A	364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					



MicroTech 4

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

					EWAH-TZXSD	900	975	H10	H11	H12	H13
SEER						6.195	6.234	6.183	5.865	5.933	5.988
Cooling capacity	Nom.			kW		897.2	972.1	1,082	1,184	1,275	1,383
Power input	Cooling	Nom.		kW		273.7	299.9	326.1	346.2	380	415.3
Capacity control	Method					Stepless					
	Minimum capacity			%			10		14	13	12
EER						3.278	3.242	3.318	3.42	3.355	3.33
IPLV						6.36	6.383	6.42	6.367	6.514	6.481
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		9,040	10,120	11,200		12,280	13,360
Weight	Unit			kg		6,722	7,203	8,091	8,760	9,242	9,723
	Operation weight			kg		6,847	7,338	8,241	8,925	9,417	9,913
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					16	18	20		22	24
	Air flow rate	Cooling	Nom.	l/s		90,480	101,772	113,080		124,388	135,696
Sound power level	Cooling	Nom.		dBA		105.1	106.8	104.7	102.7	103.6	104.5
Sound pressure level	Cooling	Nom.		dBA		83.2	84.61	82.17	80.14	80.78	81.43
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		125	135	150	165	175	190
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm		273mm			
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		530.6	575.7	623.9	651.9	708.1	768.7
		Max		A		655	702	787	902	992	1,090
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

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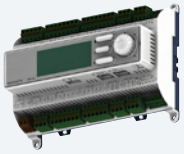
EWAH-TZXRD					220	230	275	300	350	400
SEER					5.404	5.363	5.942	5.775	6.188	6.026
Cooling capacity	Nom.			kW	216.3	228.3	271.7	295.3	345.2	393.5
Power input	Cooling	Nom.		kW	68.5	75.92	81.59	92.45	98.6	122.2
Capacity control	Method				Stepless					
	Minimum capacity			%	22	20	18	16	25	22
EER					3.157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

EWAH-TZXRD					465	470	515	540	545	600
SEER					6.02	6.284	6.103	5.588	6.133	6.042
Cooling capacity	Nom.			kW	467.2	461.6	497.8	528	537.6	594.3
Power input	Cooling	Nom.		kW	132.7	139.1	159.9	153.8	153.6	178.3
Capacity control	Method				Stepless					
	Minimum capacity			%	10	19	17	30	10	
EER					3.52	3.319	3.112	3.434	3.494	3.334
IPLV					6.273	6.667	6.49	5.796	6.414	6.301
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	7,000		5,920		7,000	
Weight	Unit			kg	5,006		4,689	5,443	5,225	5,277
	Operation weight			kg	4,951	4,634	4,639	5,398	5,180	5,242
Air heat exchanger	Type				Microchannel					
Compressor	Type				Screw compressor					
	Quantity				2		1		2	
Fan	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	94.2
Sound pressure level	Cooling	Nom.		dBA	69.38	72.53	70.32	68.42	69.59	73.07
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46					
Refrigerant	Type/GWP				R-1234(ze)/7					
	Charge			kg	65		70	75		85
	Circuits	Quantity			2		1		2	
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm				168.3mm	
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	305.9	283.6	314.9	306.1	343.5	386.6
		Max		A	364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					



MicroTech 4

EWAD_H_S-TZ-D

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	780.8	831.9
Power input	Cooling	Nom.		kW		194.4	186.7	211.1	220	225.2	250.2
Capacity control	Method					Stepless					
	Minimum capacity			%		25	14	13	12		11
EER						3.123	3.389	3.255	3.379	3.467	3.325
IPLV						5.64	6.46	6.317	6.633	6.648	6.52
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		5,920	7,000		8,080	9,160	
Weight	Unit			kg		5,443	5,534		6,271	6,753	
	Operation weight			kg		5,408	5,504	5,509	6,256	6,743	6,748
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1	2				
Fan	Type					Direct propeller					
	Quantity					10	12		14	16	
	Air flow rate	Cooling	Nom.	l/s		47,213	56,660		66,098	75,540	
Sound power level	Cooling	Nom.		dBA		90.2	89.1	90.2	91	91.6	92.4
Sound pressure level	Cooling	Nom.		dBA		69.5	67.94	69.04	69.4	69.68	70.53
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/7					
	Charge			kg		85	90	95	105	110	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 current	Cooling	Nom.	A		366.7	401.1	433.8	454.5	470	507.6
		Max		A		491	472	517	527	579	618
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

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

Inverter screw with PLATINUM efficiency. Standard sound.

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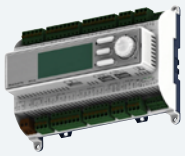
EWAH-TZPSD					225	265	295	340	395	420
SEER					6.234	6.353	6.334	6.977	6.709	6.849
Cooling capacity	Nom.			kW	227.3	266.6	293.6	336.7	392	421.5
Power input	Cooling	Nom.		kW	61.76	71.25	81.63	84.16	105.1	113.2
Capacity control	Method				Stepless					
	Minimum capacity			%	22	19	17	28	23	22
EER					3.6	3.618	3.499	3.853	3.651	3.612
IPLV					6.688	6.689	6.595	7.437	7.042	7.251
Dimensions	Unit	Height		mm	2,553					
		Width		mm	2,238					
		Depth		mm	3,640	4,720		5,800		6,880
Weight	Unit			kg	3,212	3,724		4,569		5,050
	Operation weight			kg	3,242	3,759	3,764	4,614	4,624	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	33,930	45,240		56,540		67,848
Sound power level	Cooling	Nom.		dBA	97.5	98.1	102.6	95.7	98.7	100.1
Sound pressure level	Cooling	Nom.		dBA	77.74	77.83	82.3	75	77.94	78.89
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 current	Cooling	Nom.	A	142.3	166.7	184.7	196.1	230.8	248
		Max		A	183	214	235	258	301	330
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	612.4
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					3.561	3.737	3.721	3.736	3.843
IPLV					7.093	6.797	6.932	6.385	7.155
Dimensions	Unit	Height		mm	2,553				
		Width		mm	2,238				
		Depth		mm	6,880		7,960	6,880	7,960
Weight	Unit			kg	5,136	5,157	5,639	5,805	6,151
	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	67,848		79,170	67,848	79,170
Sound power level	Cooling	Nom.		dBA	104.6	100.6	100.9	99	96.6
Sound pressure level	Cooling	Nom.		dBA	83.39	79.43	79.35	77.82	75.06
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 current	Cooling	Nom.	A	278	298.6	322.3	290.8	347.4
		Max		A	367	375	406	425	432
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				



MicroTech 4

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

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

Inverter screw with PLATINUM efficiency. Reduced sound.

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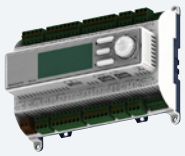
EWAH-TZPRD					225	265	295	340	395	420
SEER					6.176	6.335	6.289	7.018	6.627	6.824
Cooling capacity	Nom.			kW	225.2	264.6	291.2	333.9	389.2	419.1
Power input	Cooling	Nom.		kW	61.76	71.25	81.63	84.16	105.1	113.2
Capacity control	Method				Stepless					
	Minimum capacity			%	22	19	17	28	23	22
EER					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 current	Cooling	Nom.	A	145.5	169.8	188.1	199.8	235.9	252.3
		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 current	Cooling	Nom.	A	283.4	305.9	329.8	298.5	355.9
		Max		A	367	375	406	425	432
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				



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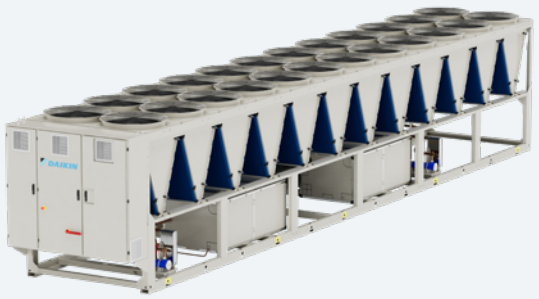

EWAD_H_S-TZ-D

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 current	Cooling	Nom.	A		374.4	414.8	449.1	484.8	521.2
		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 current	Cooling	Nom.	A		552.9	584.1	617.4	631.3	656.9
		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.

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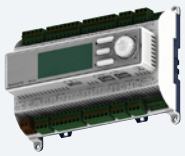
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and 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-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					
	Quantity					1					
Fan	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 current	Cooling	Nom.	A		190.1	207.1	228.7	262	300.2	315.2
		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				
	Quantity					1		2		
Fan	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 current	Cooling	Nom.	A		362.8	413.9	457.4	515.3	568.4
		Max		A		457	464	600	668	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400				



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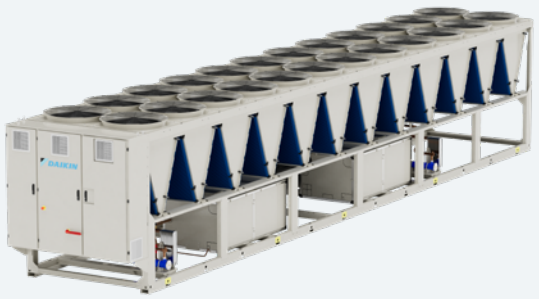

EWAD_H_S-TZ-D

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

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

Inverter screw with SILVER efficiency. Standard sound.

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- New single screw compressor geometry allowing performance optimization
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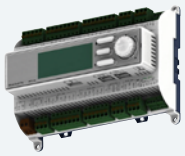
					EWAS-TZSSD	285	325	380	430	495	520	535
SEER						5.2	5.4	5.5	5.2	5.1	4.9	5.3
Cooling capacity	Nom.			kW		284.9	329.3	374.3	426.2	487.5	522	529.7
Power input	Cooling	Nom.		kW		89.25	103.6	120.5	138.8	161.5	172.1	170.5
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	22	23	11	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	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		182.7	211.5	234.4	261.8	296.6	349.9	314.5
		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	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	Max		A		0						
	Running current	Cooling	Nom.	A		378.9	409.6	358.4	427.8	404.3	472.9	461.3
		Max		A		450	481	467	523	474	566	610
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						



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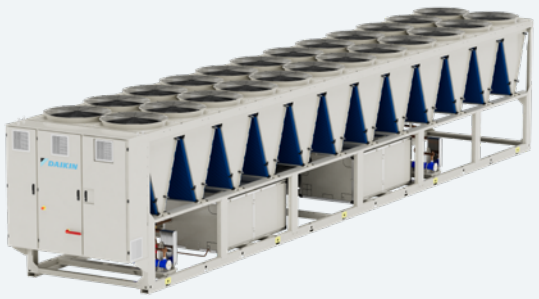

EWAD_H_S-TZ-D

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	1,268	1,359
Power input	Cooling	Nom.		kW		274.7	321.4	354.4	375	408.9	436.8	477.3
Capacity control	Method					Stepless						
	Minimum capacity			%		11	12	11		10		
EER						3.031	2.952	2.824	2.781	2.81	2.903	2.847
IPLV						5.6	5.5	5.4	5.5	5.4	5.5	
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		7,960				9,040	11,200	12,280
Weight	Unit			kg		6,151	6,623		6,816	7,297	8,260	8,742
	Operation weight			kg		6,546	7,239	7,244	7,518	8,014	8,992	9,489
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					14				16	20	22
	Air flow rate	Cooling	Nom.	l/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 current	Cooling	Nom.	A		514.3	585.7	635	666.1	720.5	770.5	834.6
		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			13,360		
Weight	Unit			kg		9,920	10,323		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.	l/s		140,213			152,960		
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 current	Cooling	Nom.	A		910.1	894.9	984.4	1,062	1,163	
		Max		A		1,156	1,124	1,227	1,351	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

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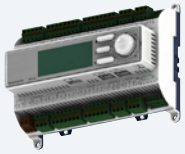
					EWAS-TZXSD	295	345	380	440	515	525	565
SEER						5.2	5.4	5.5	5.2	5.1	5	5.3
Cooling capacity	Nom.			kW		293.5	344.9	377.1	435.9	506.6	524.4	560.5
Power input	Cooling			kW		94.89	108.5	124.1	127.6	159.3	155	171.5
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	28	23	13	22
EER						3.093	3.179	3.039	3.416	3.18	3.383	3.268
IPLV						5.8	6.1	5.9	6.3	6.1	6	6.5
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		3,640	4,720		5,800		6,880	
Weight	Unit			kg		3,255	3,775		4,569		5,348	5,136
	Operation weight			kg		3,335	3,868	3,873	4,687.1	4,697.1	5,673	5,287.3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	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		97.5	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						
	Charge			kg		40	45	50	60	70		75
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm		168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		198.1	227.3	247	258.3	305.8	334.1	331
		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						
	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		100.3	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						
	Charge			kg		80	85		90	95	100	105
	Circuits	Quantity				2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)					168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		331	397.7	377.1	443.2	403.7	464.7	444.5
		Max		A		429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						



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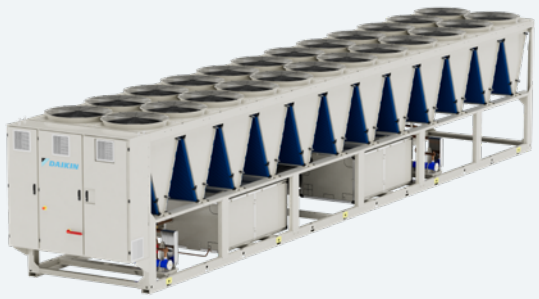


EWAD_H_S-TZ-D

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 current	Cooling	Nom.	A		466.5	520.3	571.1	592.9	645.8	669.5	722.6
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

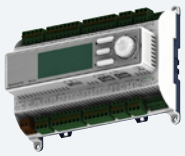
					EWAS-TZXSD	H12	H13	H14	H15	H16	H17
SEER						5.2	5.5	5.4		5.3	5.1
Cooling capacity	Nom.			kW		1,267.2	1,344	1,442	1,551	1,645	1,734
Power input	Cooling			kW		426.7	452.1	446.3	503.1	562.8	628.6
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
EER						2.97	2.973	3.231	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 current	Cooling	Nom.	A		744.2	817.8	814.6	898.5	986.3	1,083
		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.

- 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-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						



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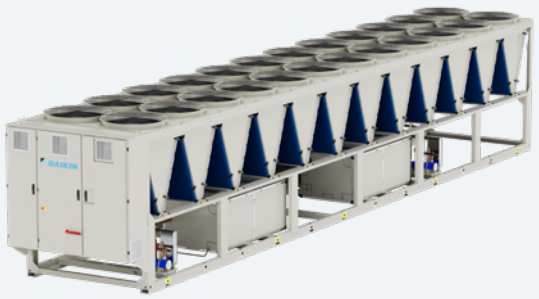

EWAD_H_S-TZ-D

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.		dBA		93.7	89.9	90.9	91.5	92.3	92.8	94.4
Sound pressure level	Cooling	Nom.		dBA		71.8	68	69	69.3	70	70.3	71.9
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-134a/630						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm						
Unit	Starting current	Max		A		0						
	Running 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	10,925			
	Operation weight			kg		9,173	10,976	12,136	12,151	12,166	12,181
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22	24			
	Air flow rate	Cooling	Nom.	l/s		94,425	103,868	113,320			
Sound power level	Cooling	Nom.		dBA		96.3	95.2	92.6	93.1	93.6	94.2
Sound pressure level	Cooling	Nom.		dBA		73.7	72.4	69.5	70	70.5	71.1
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-134a/630					
	Charge			kg			190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm				
Unit	Starting current	Max		A		0					
	Running 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.

- 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
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- Performance monitoring
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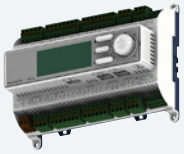
EWAS-TZPSD					285	330	370	405	450	490
SEER					5.9	6	5.9	6.3	6.2	
Cooling capacity	Nom.			kW	287.6	333.2	370.2	405.1	450.1	488.4
Power input	Cooling	Nom.		kW	81.89	96.83	111.6	110.6	123.5	137.5
Capacity control	Method				Stepless					
	Minimum capacity			%	23	20	18	30	28	25
EER					3.512	3.441	3.317	3.663	3.645	3.552
IPLV					6.5		6.4	7	7.3	7.2
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.	l/s	45,240	56,540		67,848		
Sound power level	Cooling	Nom.		dBA	97.5	98.1	100.4	94.7	96	97.7
Sound pressure level	Cooling	Nom.		dBA	78.2	81	81.9	74.2	74.5	74.9
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42					
Refrigerant	Type/GWP				R-513A/630					
	Charge			kg	40	45	50	55	60	65
	Circuits	Quantity			1					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		
Unit	Starting current	Max		A	0					
	Running current	Cooling	Nom.	A	181.1	212.7	238.2	242	258.8	280
		Max		A	220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWAS-TZPSD					530	575	615	675	735
SEER					6	5.9		5.8	
Cooling capacity	Nom.			kW	531.7	573.6	620.2	677.1	732.9
Power input	Cooling	Nom.		kW	150.8	167.7	180.9	205.7	223.4
Capacity control	Method				Stepless				
	Minimum capacity			%	13	12	11	10	
EER					3.526	3.42	3.428	3.292	3.281
IPLV					6.4	6.3		6.1	6.2
Dimensions	Unit	Height		mm	2,553				
		Width		mm	2,238				
		Depth		mm	7,960		9,040		
Weight	Unit			kg	5,829		6,311		6,427
	Operation weight			kg	6,159	6,164	6,651	6,661	6,825
Air heat exchanger	Type				Microchannel				
Compressor	Type				Screw compressor				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				14		16		
	Air flow rate	Cooling	Nom.	l/s	79,170		90,480		
Sound power level	Cooling	Nom.		dBA	100.2	100.4	100.7	101	102.3
Sound pressure level	Cooling	Nom.		dBA	78.6	79.9	80.9	83	83.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42				
Refrigerant	Type/GWP				R-513A/630				
	Charge			kg	75	80	85	95	100
	Circuits	Quantity			2				
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				
Unit	Starting current	Max		A	0				
	Running current	Cooling	Nom.	A	332	361.5	391.2	434	459.1
		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	1,067	1,110
Power input	Cooling	Nom.		kW		238.8	256.7	288.7	298.9	331.9	343.6
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3.392	3.444	3.304	3.349	3.215	3.231
IPLV						6.5	6.8	6.6		6.3	6.5
Dimensions	Unit	Height		mm		2,553					
		Width		mm		2,238					
		Depth		mm		10,120			11,200		12,280
Weight	Unit			kg		7,385	7,642		8,123		8,798
	Operation weight			kg		7,976	8,243	8,253	8,744	8,754	9,515
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		101,772			113,080		140,200
Sound power level	Cooling	Nom.		dBA		104.6	98.6	100.4	101.1	102.4	103
Sound pressure level	Cooling	Nom.		dBA		83.6	75.9	76.3	76.6	77.3	77.4
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-513A/630					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		485.2	511.9	559.9	581.2	630.4	653.8
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400					

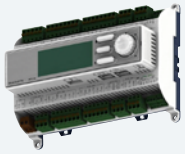
					EWAS-TZPSD	C12	H12	H13	H14	H15
SEER						6	6.1	6	5.9	5.7
Cooling capacity	Nom.			kW		1,197	1,288	1,363	1,443	1,552
Power input	Cooling	Nom.		kW		434.6	410.7	433.6	435.6	492.1
Capacity control	Method					Stepless				
	Minimum capacity			%			10		15	14
EER						2.754	3.136	3.143	3.313	3.154
IPLV						6.4	6.3	6.4	6.3	6.4
Dimensions	Unit	Height		mm		2,553				
		Width		mm		2,238				
		Depth		mm		12,280		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		24		
	Air flow rate	Cooling	Nom.	l/s		140,200		152,945		
Sound power level	Cooling	Nom.		dBA		105.2	107.5	106.2	102	102.8
Sound pressure level	Cooling	Nom.		dBA		77.7	77.9	78.9		79.7
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42				
Refrigerant	Type/GWP					R-513A/630				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm	273mm			
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		748.1	756.2	796.3	798.5	882
		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.

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

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



MicroTech 4

EWAD_H_S-TZ-D

EWAS-TZPRD

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

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

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

- 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
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- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
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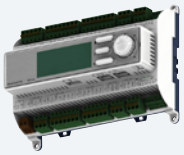
Scroll compressor

Single V



MicroTech 4

EWAT-B-SSB EWAT-B-SLB

Cooling Only				EWAT-B-SSB/SLB	085	115	135	155	175	195	205	215
Space cooling	A Condition 35°C	Pdc		kW	80.92	108.97	131.42	158.15	174.93	191.39	210.53	217.08
	ηs,c			%	161	173	161		176.2	170.6	173	161
	ηs,c + VFDFAN			%	-							
SEER + VFDFAN					4.1	4.4	4.1		4.48	4.34	4.4	4.1
SEER					-							
Cooling capacity	Nom.			kW	81	109	131	158	175	191	211	217
Power input	Cooling	Nom.		kW	31.8	38.5	49.8	61.9	67.8	69.5	80	85.8
Capacity control	Method				Step							
	Minimum capacity			%	50	38	50	25	38	21	19	50
EER					2.55	2.83	2.64	2.55	2.58	2.75	2.63	2.53
IPLV + VFDFAN					4.75	4.83	4.67	4.76	4.81	4.84	4.86	4.7
EER + VFDFAN					-							
IPLV					-							
Dimensions	Unit	Height		mm	1,801			1,822	1,801	1,822		
		Width		mm	1,204							
		Length		mm	2,110	2,650		3,570	3,170	4,170		3,770
Weight (SSB)	Unit			kg	681	767	811	1,007	984	1,166	1,158	1,184
	Operation weight			kg	686	773	821	1,014	996	1,177	1,169	1,200
Weight (SLB)	Unit			kg	691	777	820	1,028	994	1,187	1,179	1,194
	Operation weight			kg	696	783	830	1,035	1,006	1,198	1,190	1,210
Water heat exchanger	Type				Plate Heat Exchanger							
	Water volume			l	5	6	9	7	12	11		16
	Water flow rate	Cooling	Nom.	l/s	3.9	5.2	6.3	7.6	8.4	9.1	10.1	10.4
	Water pressure drop	Cooling	Nom.	kPa	27.3	34.4	26.5	64.2	41.7	45.9	54.4	41.4
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				2			4	2	4		2
Fan	Type				Direct propeller							
	Quantity				4	6		8		10		
	Air flow rate	Nom.		l/s	6.022	9.036		13.354	12.023	16.710		15.057
	Speed			rpm	1,360							
Sound power level (SSB)	Cooling	Nom.		dBA	84.8	88.2	89.7	87.8	91.8	89.9	90.9	93.2
Sound power level (SLB)	Cooling	Nom.		dBA	83.7	86.2	87	86.7	88.8	88.1	88.7	90
Sound pressure level (SSB)	Cooling	Nom.		dBA	67.4	70.5	72	69.5	73.8	71.3	72.3	74.8
Sound pressure level (SLB)	Cooling	Nom.		dBA	66.3	68.5	69.3	68.4	70.7	69.5	70.1	71.6
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	7.5	8.5		13	11	14.5		13
	Circuits	Quantity			1			2	1	2		1
Piping connections	Evaporator water inlet/outlet (OD)			mm	76.1			88.9	76.1	88.9		76.1
Unit	Starting current	Max		A	213	313	324	284	462	384	395	498
	Running current	Cooling	Nom.	A	59	69	83	108	113	117	131	142
		Max		A	73	86	96	143	132	156	167	168
Power supply	Phase/Frequency			Hz	3~/50							

Air cooled scroll chiller, standard efficiency, reduced sound

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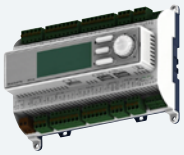
Scroll compressor

Single V



MicroTech 4

EWAT-B-SRB

Cooling Only				EWAT-B-SRB	085	115	135	155	175	195	205	215
Space cooling	A Condition 35°C	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		mm	1,801			1,822	1,801	1,822		
		Width		mm	1,204							
		Length		mm	2,110	2,650		3,570	3,170	4,170		3,770
Weight	Unit			kg	691	777	821	1,028	994	1,187	1,179	1,194
	Operation weight			kg	696	783	830	1,035	1,006	1,198	1,190	1,210
Water heat exchanger	Type				Plate Heat Exchanger							
	Water volume			l	5	6	9	7	12	11		16
	Water flow rate	Cooling	Nom.	l/s	3.7	5	5.9	7.2	7.9	8.7	9.6	9.7
	Water pressure drop	Cooling	Nom.	kPa	24.6	32.2	23.8	58.5	37.5	41.6	49.9	36.8
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				2			4	2	4		2
Fan	Type				Direct propeller							
	Quantity				4	6		8		10		
	Air flow rate	Nom.		l/s	4.929	7.396		11.352	9.838	14.202		12.325
	Speed			rpm	1,200							
Sound power level	Cooling	Nom.		dBA	77	82.5	84.1	81.6	86.3	83.9	85.2	87.8
Sound pressure level	Cooling	Nom.		dBA	61.2	64.7	66.4	63.3	68.3	65.3	66.6	69.4
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	7.5	8.5		13	11	14.5		13
	Circuits	Quantity			1			2	1	2		1
Piping connections	Evaporator water inlet/outlet (OD)			mm	76.1			88.9	76.1	88.9		76.1
Unit	Starting current	Max		A	213	313	324	284	462	384	395	498
	Running current	Cooling	Nom.	A	62	71	87	115	119	123	139	151
		Max		A	73	86	96	143	132	156	167	168
Power supply	Phase/Frequency			Hz	3~/50							

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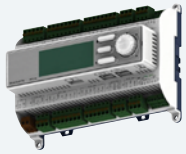
Single V



MicroTech 4

EWAT-B-XSB

EWAT-B-XLB

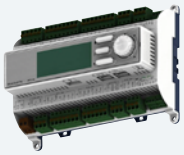
Cooling Only				EWAT-B-XSB/XLB	085	115	145	180	185	200	220	230	250	280	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition 35°C	Pdc	kW		87.9	113.89	143.48	179.01	182.67	200.92	226.26	238.95	254.88	281.64	304.64	305.17	326.28	351.74	371.72	424.99	472.32	538.3	609.11	662.39	704.37
	ηs,c		%		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	1,822	2,540															
		Width	mm		1,204			2,224	1,204	2,224															
		Length	mm		2,650	3,170	3,770	2,338	3,770	2,338		3,230	3,247					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				Brazed plate																				
	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	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 drop	Cooling	Nom.	kPa	31.6	37.3	31	40.7	45.1	50.1	43.7	49.2	54.2	39.8	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	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	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		73.9	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			
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				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
		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

- 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

Scroll compressor

Single V



MicroTech 4

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 35°C	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
	ηs,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															
		Width	mm		1,204			2,224	1,204	2,224															
		Length	mm		2,650	3,170	3,770	2,338	3,770	2,338		3,230	3,247		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		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															
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				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				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	59	71	83	113	118	128	143	134	151	164	177	179	194	204	221	250	276	319	352	381	410
		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

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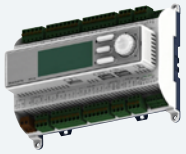

MicroTech 4

EWAT-B-SSC

Cooling Only					EWAT	250B-SSC2	270B-SSC2	310B-SSC1	320B-SSC2	350B-SSC1	380B-SSC2	430B-SSC2	480B-SSC2
Space cooling	A Condition 35°C	Pdc			kW	241.8	253	305.92	317.98	345.59	381.40	426.61	477.56
		ηs,c			%	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					Step							
	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			mm	2,535							
		Width			mm	2,238							
		Depth			mm	2,514					3,594		
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					4		3	4	3	4		5
Fan	Type					Direct propeller							
	Quantity					4					6		
	Air flow rate	Cooling	Nom.		l/s	25.500		25,490	25,500	25,490	38,240		
Sound power level	Cooling	Nom.			dBA	92	93	94.0	93.8	94.5	95.1	95.6	95.9
Sound pressure level	Cooling	Nom.			dBA	73	74	74.9	74.7	75.5	75.4	75.9	76.2
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20~52							
Refrigerant	Type/GWP					R-32/675							
	Charge				kg	18	18	22.0	25.0	30.0	31.0	35.0	39.0
	Circuits	Quantity				2	2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm							
Unit	Starting current	Max			A	464	482	693	697	735	750	792	838
	Running current	Cooling	Nom.		A	152	163	186	200	224	222	260	304
		Max			A	199	216	245	249	287	302	344	390
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400							

Cooling Only					EWAT	570B-SSC2	620B-SSC2	670B-SSC2	730B-SSC2	790B-SSC2	860B-SSC2	960B-SSC2
Space cooling	A Condition 35°C	Pdc			kW	567.34	622.34	668.92	734.97	791.18	857.22	961.63
		ηs,c			%	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					Step						
	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			mm	2,535						
		Width			mm	2,238						
		Depth			mm	4,674			5,574	5,848	6,928	
Weight	Unit				kg	3,495	3,670	3,779	4,308	4,666	5,119	5,313
	Operation weight				kg	3,555	3,747	3,856	4,385	4,743	5,196	5,412
Air heat exchanger	Type					Microchannel						
Compressor	Type					Scroll compressor						
	Quantity					5	6			7		8
Fan	Type					Direct propeller						
	Quantity					8	8		10	10	12	
	Air flow rate	Cooling	Nom.		l/s	50,980	50,980		63,730	63,730	76,480	
Sound power level	Cooling	Nom.			dBA	96.7	97.0	97.3	97.9	98.1	98.6	99.0
Sound pressure level	Cooling	Nom.			dBA	76.5	76.7	77.0	77.2	77.4	77.5	77.8
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20~52						
Refrigerant	Type/GWP					R-32/675						
	Charge				kg	45.0	50.0	53.0	59.0	63.0	68.0	77.0
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)					139.7mm						
Unit	Starting current	Max			A	891	936	979	1,032	1,079	1,132	1,220
	Running current	Cooling	Nom.		A	329	374	413	438	479	505	585
		Max			A	443	488	531	584	631	684	772
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400						

Air cooled scroll compressor chiller Gold efficiency Standard sound

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

MicroTech 4

EWAT-B-SRC

Cooling Only				EWAT	250B-SRC2	270B-SRC2	310B-SRC1	320B-SRC2	350B-SRC1	380B-SRC2	430B-SRC2	480B-SRC2
Space cooling	A Condition 35°C Pdc			kW	240.1	259.9	297.62	308.38	334.14	373.60	415.25	463.29
	ηs,c			%	201.4	187.4	197.5	185.0	189.2	192.8	193.5	193.1
SEER					5.11	4.76	5.013	4.700	4.806	4.895	4.913	4.902
Cooling capacity	Nom.			kW	240.1	259.9	297.62	308.38	334.14	373.60	415.25	463.29
Power input	Cooling	Nom.		kW	83.45	93.89	108.0	117.1	133.5	124.4	149.9	179.2
Capacity control	Method				Step							
	Minimum capacity			%	17	25	22	21	19	18	16	14
EER					2.877	2.768	2.757	2.634	2.502	3.003	2.771	2.586
IPLV					5.54	5.34	5.485	4.999	5.319	5.324	5.339	5.382
Dimensions	Unit	Height		mm	2,535							
		Width		mm	2,238							
		Depth		mm	2,514					3,594		
Weight	Unit			kg	2,107	2,151	2,076	2,206	2,200	2,618	2,801	2,924
	Operation weight			kg	2,127	2,171	2,099	2,234	2,228	2,646	2,837	2,960
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				4		3			4		5
Fan	Type				Direct propeller							
	Quantity				5	6	4			6		
	Air flow rate	Cooling	Nom.	l/s	21.460		21,470	21,460	21,470	32,200		
Sound power level	Cooling	Nom.		dBA	88		87.9	87.8	88.1	89.5	89.6	89.7
Sound pressure level	Cooling	Nom.		dBA	68	69	68.8		69.0	69.8	69.9	70.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52							
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	18		22	25	30	31	35	39
	Circuits	Quantity			2		1	2	1		2	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm							
Unit	Starting current	Max		A	464	482	693	697	735	750	792	838
	Running current	Cooling	Nom.	A	151	165	195	210	236	232	272	319
		Max		A	199	216	245	249	287	302	344	390
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400							

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

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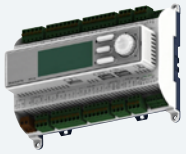


MicroTech 4

EWAT-B-XSC

Cooling Only				EWAT	180B-XSC2	210B-XSC2	230B-XSC2	250B-XSC2	250B-XSC1	290B-XRC2	320B-XRC2	320B-XSC1	350B-XRC2	370B-XSC1	10B-XSC2
Space cooling	A Condition 35°C	Pdc		kW	182.9	205	221.3	246.7	252.39	287.1	321.5	324.44	334.1	371.33	1,009.36
		ηs,c		%	181.4	185.4	186.6	187.4	181.8	187.8	188.6	188.6	118.6	187.4	193.4
SEER					4.61	4.71	4.74	4.76	4.620	4.77	4.79	4.789	4.79	4.759	4.910
Cooling capacity	Nom.			kW	182.9	205	221.3	246.7	252.39	287.1	321.5	324.44	334.1	371.33	1,009.00
Power input	Cooling	Nom.		kW	56.73	63.41	67.74	81.48	79.1	93.7	101.6	100.0	110	118.8	315.7
Capacity control	Method				Step										
	Minimum capacity			%	25	21	19	17	50	25	13	22	20	19	25
EER					3.225	3.233	3.267	3.028	3.189	3.064	3.165	3.245	3.036	3.126	3.197
IPLV					4.91	5.09		5.2	4.907	5.22	5.01	5.002	5.21	5.051	5.126
Dimensions	Unit	Height		mm	2,535										
		Width		mm	2,238										
		Depth		mm	2,514							3,594			9,088
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				2	5		3	5	3	8
Fan	Type				Direct propeller										
	Quantity				4							6			16
	Air flow rate	Cooling	Nom.	l/s	25.500				25,490			38,240			101,980
Sound power level	Cooling	Nom.		dBA	91	92			93.5	94		94.8		95.3	99.5
Sound pressure level	Cooling	Nom.		dBA	72	73			74.4	74		75.1		75.6	77.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52										
Refrigerant	Type/GWP				R-32/675										
	Charge			kg	19.2				33.1			50.0	44.0	55.0	75.0
	Circuits	Quantity			2				1	2	2	2			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	567
	current	Max		A	146	162	181	199	199	227	257	255	275	298	792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

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

Air cooled scroll compressor chiller Gold efficiency Standard sound

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

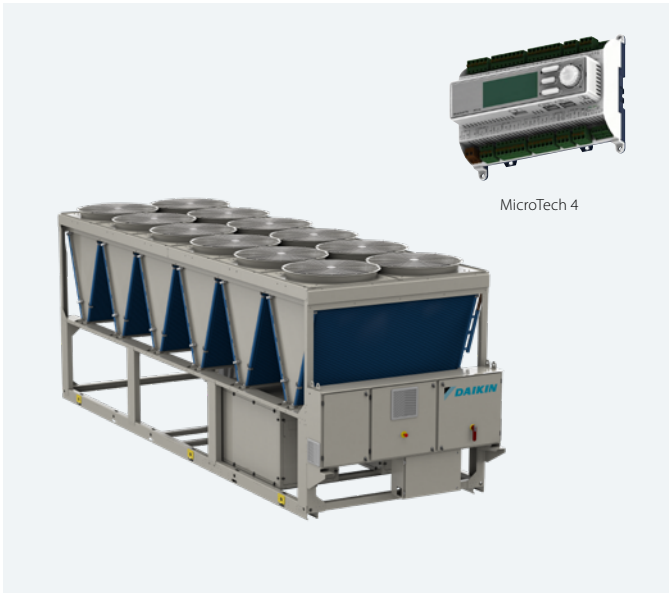
MicroTech 4

EWAT-B-XRC

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			kW	169.8	192.1	220.5	239.4	241.40	274.5	313.20	286.2	326.9	355.68	965.50
	ηs,c			%	200.6	201.4	204.6	197.4	195.6	203.4	204.4	207	202.2	202.6	206.2
SEER					5.09	5.11	5.19	5.01	4.965	5.16	5.186	5.25	5.13	5.140	5.229
Cooling capacity	Nom.			kW	169.8	192.1	220.5	239.4	241.40	274.5	313.20	286.2	326.9	355.68	965.50
Power input	Cooling	Nom.		kW	51.15	61.78	70.9	85.68	81.1	91.3	99.9	93.11	115	121.4	323.5
Capacity control	Method				Step										
	Minimum capacity			%	25	21	19	17	50	25	22	13	20	19	25
EER					3.319	3.11		2.794	2.977	3.006	3.135	3.074	2.842	2.929	2.985
IPLV					5.51	5.59	5.5	5.51	5.340	5.77	5.525	5.67	5.72	5.487	5.576
Dimensions	Unit	Height		mm	2,535										
		Width		mm	2,238										
		Depth		mm	2,514				2,510	3,594	53,600	3,594	3,594	3,590	9,090
Weight	Unit			kg	1,965	2,026	2,090	2,134	1,963	2,604	2,576	2,831	2,833	2,585	6,251
	Operation weight			kg	1,979	2,046	2,118	2,162	1,968	2,604	2,604	2,831	2,833	2,610	6,350
Air heat exchanger	Type				Microchannel										
Compressor	Type				Scroll compressor										
	Quantity				4				2	4	3	5	5	3	8
Fan	Type				Direct propeller										
	Quantity				4					6					16
	Air flow rate	Cooling	Nom.	l/s	18,900					28,350					75,600
Sound power level	Cooling	Nom.		dBA	83				84.0	85	85.4	85	85	85.7	90.0
Sound pressure level	Cooling	Nom.		dBA	64				64.9	64	65.7	65	65	66.0	68.1
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52										
Refrigerant	Type/GWP				R-32/675										
	Charge			kg	19.2				44.0	33.1	50.0	33.1	33.1	55.0	75.0
	Circuits	Quantity			2				1	2		2	2	1	2
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm										139.7mm
Unit	Starting current	Max		A	304	429	446	464	647	492	703	523	540	746	1,240
	Running	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			kW	370.32	431.43	489.48	520.68	563.54	603.94	687.57	728.98	800.94	842.34
	ηs,c			%	196.2	203.3	201.3	208.2	207.8	206.5	208.6	207.0	210.0	208.8
SEER					4.979	5.158	5.108	5.279	5.270	5.237	5.291	5.249	5.324	5.294
Cooling capacity	Nom.			kW	370.32	431.43	489.48	520.68	563.54	603.94	687.57	729.00	800.94	842.34
Power input	Cooling	Nom.		kW	129.1	141.4	162.1	159.6	180.7	202.0	221.3	242.8	261.1	282.2
Capacity control	Method				Step									
	Minimum capacity			%	18	16	25	14	22	20	18	17	15	14
EER					2.869	3.052	3.019	3.262	3.119	2.990	3.107	3.003	3.067	2.979
IPLV					5.317	5.446	5.528	5.630	5.620	5.601	5.649	5.605	5.613	5.605
Dimensions	Unit	Height		mm	2,535									
		Width		mm	2,238									
		Depth		mm	3,590	4,670		5,750			6,830		8,010	
Weight	Unit			kg	2,657	3,169	3,359	3,804	3,916	4,024	4,565	4,673	5,442	5,551
	Operation weight			kg	2,693	3,205	3,419	3,864	3,976	4,084	4,642	4,750	5,519	5,628
Air heat exchanger	Type				Microchannel									
Compressor	Type				Scroll compressor									
	Quantity				4			5			6		7	
Fan	Type				Direct propeller									
	Quantity				6	8		10			12		14	
	Air flow rate	Cooling	Nom.	l/s	28,350	37,800		47,250			56,700		66,150	
Sound power level	Cooling	Nom.		dBA	85.6	86.8	87.0	87.6	87.8	87.9	88.6	88.7	89.3	89.4
Sound pressure level	Cooling	Nom.		dBA	65.9	66.5	66.7	66.9	67.1	67.2	67.5	67.6	67.7	67.8
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52									
Refrigerant	Type/GWP				R-32/675									
	Charge			kg	30.5		39.5	42.0	45.0	49.0	55.0	57.5	62.5	67.0
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm		139.7mm							
Unit	Starting current	Max		A	750	803	845	858	901	944	999	1,042	1,142	
	Running	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;
- 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.

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									
		Width			mm	2,238									
		Depth			mm		2,514			3,594			4,674		5,754
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 current	Cooling	Nom.		A	216.2	174.1	264.3	252.3	240.2	294.4	378.9	435	380.3	403.2
		Max			A	245	249	287	302	344	390	443	488	531	584
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400									

Cooling Only					EWFT	790B-SSC2	860B-SSC2	960B-SSC2
SEER						5.049	5.076	4.93
Cooling capacity	Nom.				kW	1,018	1,112	1,235
Power input	Cooling	Nom.			kW	316.1	325.1	387.5
Capacity control	Method					Step		
	Minimum capacity				%	15	14	25
EER						3.222	3.422	3.188
IPLV						5.307	5.381	5.312
Dimensions	Unit	Height			mm	2,535		
		Width			mm	2,238		
		Depth			mm	5,848	6,928	
Weight	Unit				kg	5,035	5,546	5,860
	Operation weight				kg	5,422	5,975	6,311
Air heat exchanger	Type					Microchannel		
Compressor	Type					Scroll compressor		
	Quantity					7		8
Fan	Type					Direct propeller		
	Quantity					10	12	
	Air flow rate	Cooling	Nom.		l/s	56,275	67,530	
Sound power level	Cooling	Nom.			dBA	98.1	98.6	99
Sound pressure level	Cooling	Nom.			dBA	77.4	77.5	77.8
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46		
Refrigerant	Type/GWP					R-32/675.0		
	Charge				kg	63.0	68.0	77.0
	Circuits	Quantity				2		
Piping connections	Evaporator water inlet/outlet (OD)					139.7		
Unit	Starting current	Max			A	1,079	1,132	1,220
	Running current	Cooling	Nom.		A	559	581.8	683.6
		Max			A	631	684	772
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400		

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

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

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

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			3,594			4,674		5,754
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									
	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	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		69.0	69.8	69.9	70.0	70.6	70.7	70.8	71.2
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						139.7			
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
		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		
	Quantity					7		8
Fan	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
		Max			A	630	683	771
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400		

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

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

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

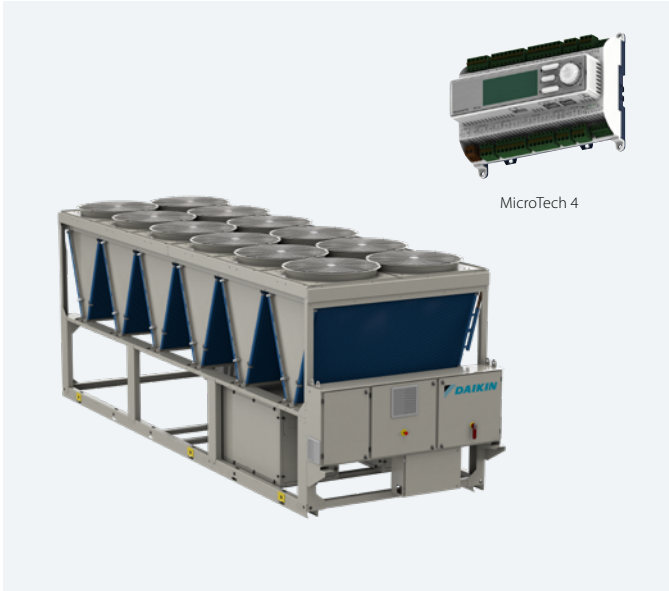
EWFT-B-XSC

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
		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 current	Cooling	Nom.		A	445.1	482.9	523.9	561.6
		Max			A	551	594	694	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400			

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

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



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

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			
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	712.9	178.3	220.3	265.6	285.1	309.9	358.4	356	400.7	445.7
		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
		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.

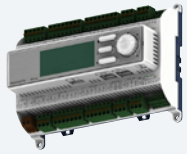
Air cooled Inverter screw free cooling with BLU efficiency. Standard sound.

- 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

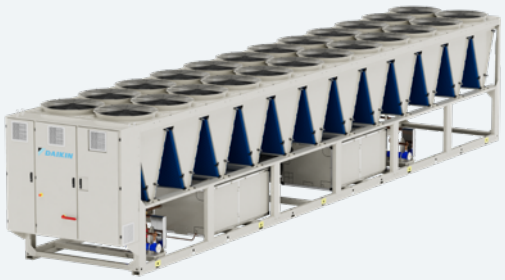
EWFD TZ-D BS			275	320	345	400	470	510	525
Cooling Capacity (1)		kW	369.3	428	465.2	559.3	618.4	686.7	708.2
Power input (1)		kW	109.9	119	138	167.3	196	200.4	206.7
EER (1)			3.36	3.6	3.37	3.34	3.16	3.43	3.43
SEER (1)(2)			4.949	5.245	5.331	5.382	5.141	4.802	5.364
ηs,c (3)		%	195	207	210	212	203	189	212
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	dB(a)	97	98	100	97		99	98
	Lw with + OP76b	dB(a)	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		3,907	3,917	4,662	4,581
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	328
	Max Running Current (7)(8)(11)	A	220	262	284	346	362	411	400
	Current for Wiring Sizing (8)(11)	A	242	287	287	381	398	452	440
	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
ηs,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	dB(a)	97	98	100	97		99
	Lw with + OP76b	dB(a)	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		3,581		4,045
	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
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		381	398	452
	Max Inrush Current (8)(9)(11)	A	0					

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; 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 refered 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		dB(a)	99	100	99	100	101		102
	Lw with + OP76b		dB(a)	99				100		101
Number of circuits / Compressors				2						
Water volume – open loop Free Cooling			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		dB(a)	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 ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; 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 refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

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- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,950 kW
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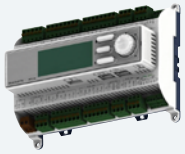
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

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
ηs,c (3)		%	208	218	225	226	214	202	215
SEPR (1)(2)			6.279	6.358	6.233	6.068	6.048	5.816	6.077
IPLV (5)			5.706	5.873	5.918	6.074	5.885	5.419	6.016
Full Free Cooling Temperature (12)		°C	8.55	10.12	8.82	7.25	4.91	7.4	6.88
Flow rate (1)		l/s	13.1	15.2	17.1	19.4	22.9	23.9	24.9
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	16.3	17.7	35.8	45.1	34.8	31.2	40.5
Unit pressure drop free cooling ON (12)(6)		kPa	61.5	53.6	103	98.4	104	84.4	96.1
Sound Power (1)(7)	Lw	dB(a)	98	98	100	98	97	99	98
	Lw with + OP76b	dB(a)	96	98		97		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
Minimum Water flow rate (10)		l/s	7.6	8.5		5.94	10.2	8.6	10.2
Dimensions	Length	mm	3,640	4,720				5,800	
	Width	mm	2,238						
	Height	mm	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	5,161
Water Connection Size		Ø mm	88.9			139.7		168.3	139.7
Unit	Running Current (1)(8)(11)	A	161	187	215	253	297	311	316
	Max Running Current (7)(8)(11)	A	231	272	294	357	372	421	411
	Current for Wiring Sizing (8)(11)	A	254	298		392	410	463	452
	Max Inrush Current (8)(9)(11)	A	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
ηs,c (3)		%	200	196	211	210	203	198
SEPR (1)(2)			5.179	5.696	5.772	5.472	6.044	5.708
IPLV (5)			5.361	5.308	5.826	5.63	5.508	5.424
Full Free Cooling Temperature (12)		°C	6.49	5.74	5.6	4.23	6.78	5.49
Flow rate (1)		l/s	25.6	27.1	27.3	29.9	30.1	33
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	34.9	38.1	48.1	56.8	34.5	40.3
Unit pressure drop free cooling ON (12)(6)		kPa	93.8	101	112	131	90.6	105
Sound Power (1)(7)	Lw	dB(a)	99	101	98	101		103
	Lw with + OP76b	dB(a)	99		98		100	
Number of circuits / Compressors			2		1		2	
Water volume – open loop Free Cooling		Lt	270		58.1		255	
Minimum Water flow rate (10)		l/s	8.6		10.2		10.7	
Dimensions	Length	mm	5,800				6,880	
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	4,555		4,664		5,083	
	Operating weight (8)	kg	5,242	5,247	5,166	5,176	5,835	5,840
Water Connection Size		Ø mm	168.3		139.7		168.3	
Unit	Running Current (1)(8)(11)	A	338	370	365	423	388	459
	Max Running Current (7)(8)(11)	A	450	481	467	474	523	566
	Current for Wiring Sizing (8)(11)	A	495	528	480		572	
	Max Inrush Current (8)(9)(11)	A	0					

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; 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 refered 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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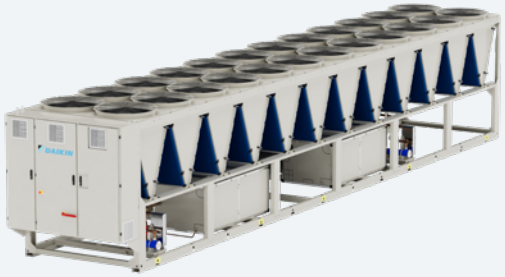

EWFD-TZSSD

			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
ηs,c (3)		%		223	219	215	211	211	211	217
SEPR (1)(2)				6.322	6.015	6.062	5.618	5.613	5.684	5.764
IPLV (5)				6.045	5.875	5.8	5.680	5.709	5.697	5.967
Full Free Cooling Temperature (12)		°C		7	5.55	3.4	2.36	1.78	2.28	5.01
Flow rate (1)		l/s		34.5	38.4	43.9	46.5	48.1	53.3	58.7
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa		48.3	58.1	44.8	49.0	46.9	55.1	63.9
Unit pressure drop free cooling ON (12)(6)		kPa		104	123	128	137	140	146	133
Sound Power (1)(7)	Lw	dB(a)		99		100		101		102
	Lw with + OP76b	dB(a)				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	795
	Max Running Current (7)(8)(11)	A		610	679	706	761	789	884	948
	Current for Wiring Sizing (8)(11)	A		671	747	776	837	868	935	958
	Max Inrush Current (8)(9)(11)	A					0			

			EWFD TZ-D SS	H13	H14	H15	H16	H17	H18	H19
Cooling Capacity (1)		kW		1,849.0	1,998.9	2,057.0	2,175.4	2,344.7	2,450.5	2,554.3
Power input (1)		kW		561.0	622.3	572.2	673.3	732.0	827.9	956.3
EER (1)				3.300	3.210	3.600	3.230	3.200	2.960	2.670
SEER (1)(2)				5.510	5.340	5.382	5.414	5.408	5.185	5.225
ηs,c (3)		%		217	211	212	214	213	204	206
SEPR (1)(2)				5.503	5.524	6.997	6.629	6.471	6.167	5.992
IPLV (5)				5.764	5.690	6.081	5.971	5.891	5.779	5.685
Full Free Cooling Temperature (12)		°C		4.8	3.52	3.03	1.98	2.18	1.34	0.53
Flow rate (1)		l/s		63.4	68.6	70.5	74.6	80.4	84.0	87.6
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa		72.6	48.6	50.8	55.5	61.4	66.1	70.8
Unit pressure drop free cooling ON (12)(6)		kPa		141	129	136	150	154	166	179
Sound Power (1)(7)	Lw	dB(a)		104	105	103	104	105	106	107
	Lw with + OP76b	dB(a)					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	1,477
	Max Running Current (7)(8)(11)	A		1,187	1,156	1,124	1,227	1,351	1,475	1,608
	Current for Wiring Sizing (8)(11)	A		1,248	1,271	1,237	1,280	1,486	1,621	1,621
	Max Inrush Current (8)(9)(11)	A					0			

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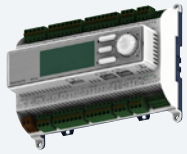
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWFD-TZXSD					10TZXSD2000	10TZXSD2000	11TZXSD2000	12TZXSD2000	12TZXSD2000	13TZXSD2000	14TZXSD2000	15TZXSD2000	16TZXSD2000	17TZXSD2000
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					273				
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		632	572	660	799	729	837	780	909	1,031	1,188
		Max			782	720	744	851	803	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage				3/50/400									

EWFD					295TZXSD1000	345TZXSD1000	380TZXSD1000	440TZXSD1000	515TZXSD1000	525TZXSD2000	565TZXSD2000	565TZXSD1000	610TZXSD2000	635TZXSD1000
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									



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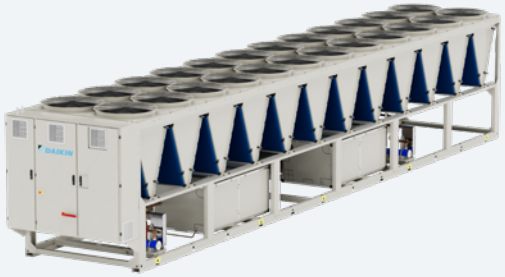

EWFD-TZXSD

					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						

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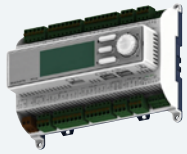
					EWFD	10TZPSD2000	10TZPSD2000	11TZPSD2000	12TZPSD2000	12TZPSD2000	13TZPSD2000	14TZPSD2000	15TZPSD2000	285TZPSD1000	330TZPSD1000
SEER						6.411	6.274	6.44	6.189	6.286	6.18	5.85	5.671	6.018	6.229
Cooling capacity	Nom.			kW		1,326.86	1,449.2	1,496.98	1,734.57	1,619.43	1,847.58	1,954.24	2,069.82	384.11	452.16
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								1	
Piping connections	Evaporator water inlet/outlet (OD)					219.1		273	219.1		273			88.9	
Unit	Starting current	Max				0									
	Running current	Cooling	Nom.			637	685	605	757	687	812	766	891	145	169
		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 current	Cooling	Nom.			197	201	226		277	307	308	357	404	421
		Max				285	293	352	404	399	429	468	508	535	573
Power supply	Phase/Frequency/Voltage					3/50/400									



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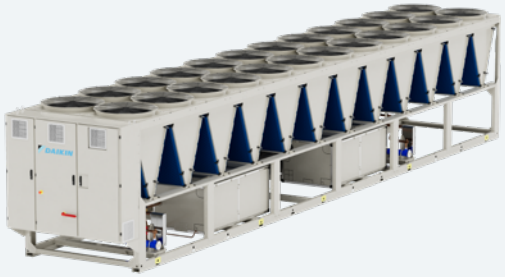

EWFD-TZPSD

					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.	l/s		11,385	
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		-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.

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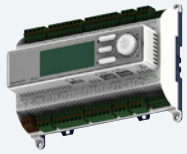
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active 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)	Lw	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		Lt	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
ηs,c (3)		%	193	194	192	192	203	190
SEPR (1)(2)			5.912	5.019	5.767	4.875	5.047	5.545
IPLV (5)			5.262	4.994	5.224	5.082	5.233	5.172
Full Free Cooling Temperature (12)		°C	7.21	1.94	4.99	0.25	3.75	3
Flow rate (1)		l/s	19.4	20.4	22.8	22.4	24.6	25.6
Evaporator Pressure Drop free cooling OFF (1)(6)		kPa	31	49.5	35.1	32.9	39.8	35.7
Unit pressure drop free cooling ON (12)(6)		kPa	85.5	143	98.2	143	118	113
Sound Power (1)(7)	Lw	dB(a)	100		101	102	103	103
	Lw with + OP76b	dB(a)	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 ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; 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 refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



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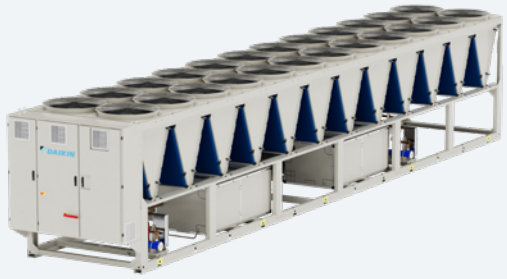

EWFH-TZBSD

			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
ηs,c (3)			%	195	193	208	204	203	208	202
SEPR (1)(2)				5.432	5.436	5.834	5.618	5.506	5.536	5.21
IPLV (5)				5.275	5.242	5.594	5.496	5.443	5.506	5.399
Full Free Cooling Temperature (12)			°C	5.78	4.4	4.94	4.09	2.74	4.32	2.78
Flow rate (1)			l/s	27	29.5	34.3	36	39	41.6	45.4
Evaporator Pressure Drop free cooling OFF (1)(6)			kPa	47.5	44.8	47.4	51.6	58	64.9	59.5
Unit pressure drop free cooling ON (12)(6)			kPa	110	116		127	137	130	142
Sound Power (1)(7)	Lw		dB(a)	104	105	100		101		103
	Lw with + OP76b		dB(a)	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
ηs,c (3)			%	201	197	214	211	212	208	209
SEPR (1)(2)				5.17	5.051	6.572	6.304	6.249	6.097	6.134
IPLV (5)				5.392	5.238	5.966	5.902	5.812	5.741	5.748
Full Free Cooling Temperature (12)			°C	3.18	2.15	2.56	1.67	2.28	1.8	2.79
Flow rate (1)			l/s	50.7	53.9	59.1	62.3	66.7	68.5	71.4
Evaporator Pressure Drop free cooling OFF (1)(6)			kPa	45.2	49.4	38.7	41.9	46.8	48.3	52.9
Unit pressure drop free cooling ON (12)(6)			kPa	128	142	130	141	139	146	140
Sound Power (1)(7)	Lw		dB(a)	105	107	104	105	106	107	
	Lw with + OP76b		dB(a)	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 ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; 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 refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

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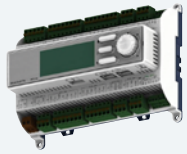
EWFH TZ-D SS			240	265	295	370	400	415	450
Cooling Capacity (1)		kW	322.7	352.6	403.9	493.5	539.1	555.6	599.4
Power input (1)		kW	87.7	102.1	121.9	133.5	141.8	164.8	177.8
EER (1)			3.68	3.45	3.32	3.7	3.8	3.37	3.37
SEER (1)(2)			5.37	5.267	5.211	5.412	5.195	5.299	5.284
ηs,c (3)		%	212	208	205	213	205	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	dB(a)	98	100	102	97	98		
	Lw with + OP76b	dB(a)	94	94	95	93	95	94	
Number of circuits / Compressors			1				2	1	
Water volume – open loop Free Cooling		Lt	40	40	48	42.7	152	42.7	58.1
Minimum Water flow rate (10)		l/s	7.6	7.6	8.5	5.94	8.7	5.94	10.2
Dimensions	Length	mm	3,640			4,720	5,800	4,720	
	Width	mm	2,238						
	Height	mm	2,553						
Weight (8)	Unit (8)	kg	3,136	3,136	3,166	4,090	4,384	4,090	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	98	
Number of circuits / Compressors			2	1	2	1	2	
Water volume – open loop Free Cooling		Lt	152	58.1	255	58.1	232	232
Minimum Water flow rate (10)		l/s	8.7	10.2	8.6	10.2	10.7	10.7
Dimensions	Length	mm	5,800	4,720	5,800		6,880	
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	4,384	4,154	4,573	4,985	5,113	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 ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; 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 refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



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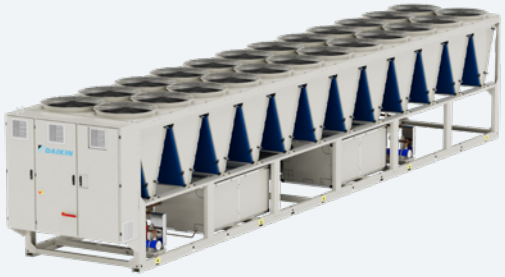

EWFH-TZSSD

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
ηs,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	10,120	11,200
	Width	mm	2,238	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	2,553
Weight (8)	Unit (8)	kg	5,549	5,549	6,059	6,303	6,812	7,322	7,920
	Operating weight (8)	kg	6,611	6,616	7,201	7,879	8,459	9,044	9,899
Water Connection Size		Ø mm	168.3			219.1			
Unit	Running Current (1)(8)(11)	A	431	465	503	550	579	639	663
	Max Running Current (7)(8)(11)	A	538	581	634	677	729	802	852
	Current for Wiring Sizing (8)(11)	A	592	639	698	745	802	882	937
	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
ηs,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	108
	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	13,116
Water Connection Size		Ø mm	273						
Unit	Running Current (1)(8)(11)	A	709	821	806	916	994	1,023	1,205
	Max Running Current (7)(8)(11)	A	891	948	1,025	1,117	1,228	1,351	1,410
	Current for Wiring Sizing (8)(11)	A	958		1,128	1,222	1,351	1,486	1,552
	Max Inrush Current (8)(9)(11)	A	0						

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- 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 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
ηs,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	100
	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	4,146
	Operating weight (8)	kg	3,054	3,054	3,679	3,684	4,552.7	4,562.7
Water Connection Size		Ø mm	88.9				139.7	
Unit	Running Current (1)(8)(11)	A	135	153	161	188	197	245
	Max Running Current (7)(8)(11)	A	172	183	214	236	269	310
	Current for Wiring Sizing (8)(11)	A	190	201	235	259	296	340
	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
ηs,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	106
	Lw with + OP76b	dB(a)	92	95	93	92	95	96
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	5,284	5,336
	Operating weight (8)	kg	5,243.1	5,841	5,248.1	6,043.3	6,230	6,406
Water Connection Size		Ø mm	139.7				168.3	
Unit	Running Current (1)(8)(11)	A	277	257	312	296	295	357
	Max Running Current (7)(8)(11)	A	357	364	394	414	406	448
	Current for Wiring Sizing (8)(11)	A	393	401	434	456	442	492
	Max Inrush Current (8)(9)(11)	A	0					

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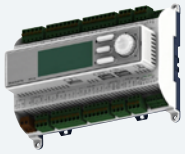

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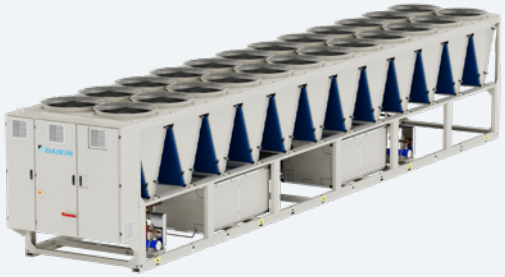

EWFH-TZXSD

			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
ηs,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	dB(a)		101	98	100	101	102	103
	Lw with + OP76b	dB(a)			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	6,880		7,960	9,040	
	Width	mm				2,238			
	Height	mm				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	493
	Max Running Current (7)(8)(11)	A		491	472	517	527	579	618
	Current for Wiring Sizing (8)(11)	A		541	520	569	580	637	680
	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
ηs,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	dB(a)		105	107	105	103	104	105
	Lw with + OP76b	dB(a)		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	10,070
	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	826
	Max Running Current (7)(8)(11)	A		655	702	787	902	992	1,090
	Current for Wiring Sizing (8)(11)	A		721	772	866	992	1,091	1,198
	Max Inrush Current (8)(9)(11)	A				0			

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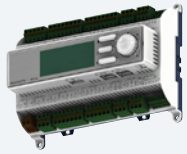
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

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
ηs,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	dB(a)	97	98	103	96	99	100
	Lw with + OP76b	dB(a)	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	4,720		5,800		6,880
	Width	mm	2,238					
	Height	mm	2,553					
Weight (8)	Unit (8)	kg	3,307	3,846	3,846	4,720	4,720	5,229
	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	219
	Max Running Current (7)(8)(11)	A	183	214	235	258	301	330
	Current for Wiring Sizing (8)(11)	A	201	235	258	283	331	363
	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
ηs,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	dB(a)	105	101		99	97
	Lw with + OP76b	dB(a)	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	6,358
	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	332
	Max Running Current (7)(8)(11)	A	367	375	406	425	432
	Current for Wiring Sizing (8)(11)	A	404	412	444	467	476
	Max Inrush Current (8)(9)(11)	A	0				

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; 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 refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.



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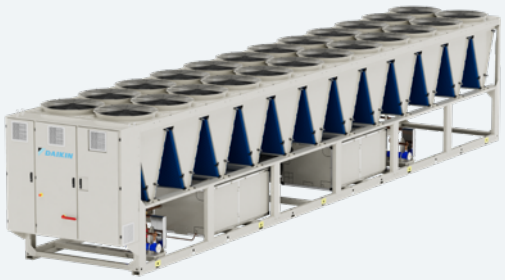

EWFH-TZPSD

			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
ηs,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	104
	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	7,960		9,040	10,120	
	Width		mm	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	9,339
Water Connection Size			Ø mm	219.1	219.1	219.1	219.1	219.1
Unit	Running Current (1)(8)(11)		A	348	385	414	445	503
	Max Running Current (7)(8)(11)		A	458	505	558	609	647
	Current for Wiring Sizing (8)(11)		A	503	556	614	670	712
	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
ηs,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	103
	Lw with + OP76b		dB(a)	95			96	
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	10,070
	Operating weight (8)		kg	11,225	11,235	11,797	12,476	13,061
Water Connection Size			Ø mm	273				
Unit	Running Current (1)(8)(11)		A	696	639	605	596	623
	Max Running Current (7)(8)(11)		A	694	731	779	875	923
	Current for Wiring Sizing (8)(11)		A	764	804	857	962	1,015
	Max Inrush Current (8)(9)(11)		A	0				

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0; | (2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow; | (3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03); | (4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application; | (5) Based on AHRI conditions; | (6) Fluid: Ethylene Glycol 25%, not including filter pressure drop. The installation of the filter is mandatory; | (7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; 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 refered to 400V/50Hz power supply. ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%; | (12) Inlet 26°C, Leaving 18°C, Fluid: 25% Ethylene Glycol, Fouling factor = 0.

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

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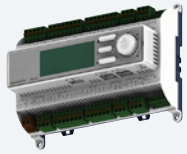
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and 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 current	Cooling	A		700	717	748	816	895	991	1,071	1,060	1,157	1,353
		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 current	Cooling	A		1,376	188	199	230	278	311	328	393	429	451
		A			1,608	220	262	284	346	362	400	457	464	600
Power supply	Phase/Hz/V				3/50/400									



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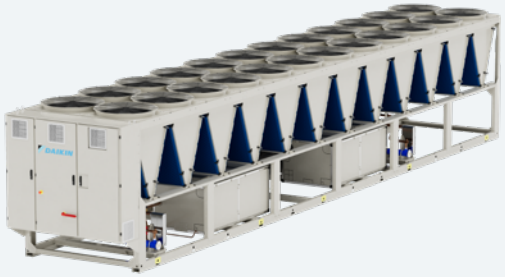

EWFS-TZBSD

					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			kg		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
		A				668	
Power supply	Phase/Hz/V					3/50/400	

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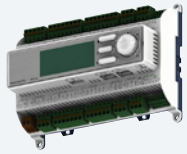
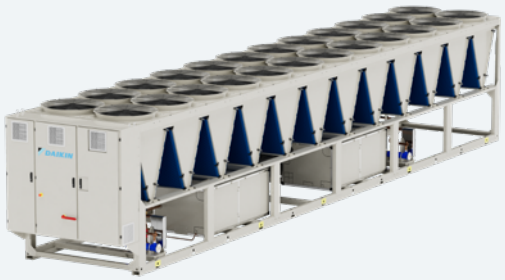
EWFS-TZSSD					10TZSSD2000	10TZSSD2000	11TZSSD2000	12TZSSD2000	13TZSSD2000	14TZSSD2000	15TZSSD2000	16TZSSD2000	17TZSSD2000	18TZSSD2000
SEER					5.102	5.043	5.122	5.274	4.372	4.156	5.294	5.056	5.217	4.602
Cooling capacity	Nom.			kW	1,300.84	1,315.3	1,474.29	1,645.12	1,766.39	1,894.74	1,965.41	2,043.33	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 current	Cooling	Nom.		662	667	749	807	878	970	954	1,004	1,166	1,247
		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 current	Cooling	Nom.		1,368	170	185	226	268	305	312	319	336	377
		Max			1,608	231	272	294	357	372	421	411	450	481
Power supply	Phase/Frequency/Voltage				3/50/400									



MicroTech 4



EWFS-TZSSD

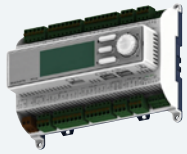
					EWFS	595TZSSD1000	645TZSSD2000	650TZSSD1000	705TZSSD2000	760TZSSD2000	835TZSSD2000	960TZSSD2000
SEER						5.22	4.926	5.093	4.82	5.427	5.3	5.171
Cooling capacity	Nom.			kW		768.14	839.18	849.01	927.67	984.93	1,076.32	1,237
Power input	Cooling			kW		235.05	237.73	281.5	286.32	271.86	318.44	377.36
Capacity 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		2,553						
		Width		mm		2,238						
		Depth		mm		5,800	6,880	5,800	6,880	7,960		
Weight	Unit			kg		4,664	5,083	4,664	5,083	6,059		6,316
	Operation weight			kg		5,166	5,835	5,176	5,840	6,916	6,926	7,404
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1	2	1	2			
Fan	Type					Direct propeller						
	Quantity					10	12	10	12	14		
	Air flow rate	Cooling	Nom.	l/s		56,275	67,530	56,275	67,530	78,785		
Sound power level	Cooling	Nom.		dBA		98.4	100.9	100.7	103	99.2	100.2	99.6
Sound pressure level	Cooling	Nom.		dBA		77.7	79.8	80	81.9	77.7	78.7	78
Operation range	Air side	Cooling	Min.~Max.	°CDB		4 ~18						
Refrigerant	Type/GWP					R-513A/630						
	Charge			kg		80	90		95	105	115	135
	Circuits	Quantity				1	2	1	2			
Piping connections	Evaporator water inlet/outlet (OD)					139.7	168.3	139.7	168.3			219.1
Unit	Starting current	Max				0						
	Running current	Cooling	Nom.			370	383	439	455	446	515	603
		Max				467	523	474	566	610	679	706
Power supply	Phase/Frequency/Voltage					3/50/400						

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

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance 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-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.	l/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 current	Cooling	Nom.		648	572	645	731	769	833	828	909	1,024	1,115
		Max			782	720	744	803	851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage				3/50/400									

EWFS					295TZXSD1000	345TZXSD1000	380TZXSD1000	440TZXSD1000	515TZXSD1000	525TZXSD2000	565TZXSD2000	565TZXSD1000	610TZXSD2000	635TZXSD1000
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.	l/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	168.3	139.7
Unit	Starting current	Max			0									
	Running current	Cooling	Nom.		181	204	234	238	309	292	331	328	342	385
		Max			224	261	289	314	342	389	429	404	457	452
Power supply	Phase/Frequency/Voltage				3/50/400									



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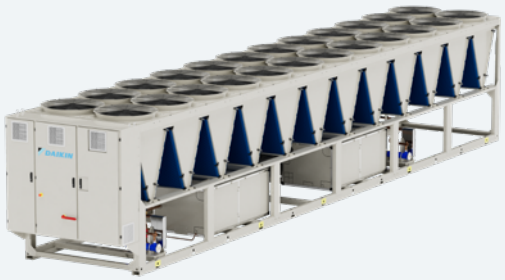


EWFS-TZXSD

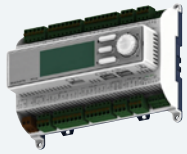
					EWFS	670TZXSD2000	705TZXSD1000	725TZXSD2000	760TZXSD1000	805TZXSD2000	880TZXSD2000	950TZXSD2000
SEER						5.47	5.285	5.52	5.158	5.693	5.53	5.674
Cooling capacity	Nom.			kW		870.58	912.51	937.25	967.69	1,038.12	1,125.04	1,220.64
Power input	Cooling			kW		242.16	261.99	266.26	298.67	280.04	301.94	354.22
Capacity control	Method					Stepless						
	Minimum capacity			%		10	30	10	27.5	10	13.5	12.5
EER						3.6	3.48	3.52	3.24	3.71	3.73	3.45
IPLV						5.498	5.22	5.5	5.811	5.594	5.57	5.485
Dimensions	Unit	Height		mm		2,553						
		Width		mm		2,238						
		Depth		mm		7,960	6,880	7,960	6,880	9,040		
Weight	Unit			kg		5,763	5,984	5,834	5,984	6,624	6,881	
	Operation weight			kg		6,581	6,586	6,704	6,596	7,753	8,019	8,029
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2	1	2	1	2		
Fan	Type					Direct propeller						
	Quantity					14	12	14	12	16		
	Air flow rate	Cooling	Nom.	l/s		78,785	67,530	78,785	67,530	90,040		
Sound power level	Cooling	Nom.		dBA		100.9	99	102.3	99.8	104.6	98.4	100.3
Sound pressure level	Cooling	Nom.		dBA		83.3	77.8	83.8	78.6	83.9	76.1	76.5
Operation range	Air side	Cooling	Min.~Max.	°CDB		4 ~18						
Refrigerant	Type/GWP					R-513A/630						
	Charge			kg		90	95	100	105	110	120	130
	Circuits	Quantity				2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)					168.3	139.7	168.3	139.7	219.1		
Unit	Starting current	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						

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

- Refrigerant R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,850 kW
- New single screw compressor geometry allowing performance 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					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		mm	2,553									
		Width		mm	2,238									
		Depth		mm	11,200		12,280			13,360			4,720	5,800
Weight	Unit			kg	7,900		8,521		8,892	9,402	10,070		3,846	4,356
	Operation weight			kg	9,199	9,189	9,971	9,976	10,816	11,401	12,085	12,100	4,211	4,791
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				2								1	
Fan	Type				Direct propeller									
	Quantity				20		22			24			8	10
	Air flow rate	Cooling	Nom.	l/s	112,550		123,805			135,060			45,020	56,275
Sound power level	Cooling	Nom.		dBA	102.4	101.1	103	105.2	107.5	106.2	102	102.8	97.5	98.1
Sound pressure level	Cooling	Nom.		dBA	77.3	76.6	77.4	77.7	77.9	78.9		79.7	78.2	81
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	150	140	160	165	180	190	205	220	40	45
	Circuits	Quantity			2								1	
Piping connections	Evaporator water inlet/outlet (OD)				219.1				273				88.9	
Unit	Starting current	A			0									
	Running current	Cooling	A		610	553	634	689	757	814	816	900	149	178
		A			761	709	796	845	893	951	1,039	1,135	220	258
Power supply	Phase/Hz/V				3/50/400									

EWFS					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	962.15	1,068.99
Power input	Cooling	Nom.		kW	125.7	126.13	145.13	161.16	170.65	194.82	212.73	231.24	257.6	273.19
Capacity control	Method				Stepless									
	Minimum capacity			%	17.5	30	27.5	25	12.5	11.5	10.5		10	
EER					3.86	4.36	4.23	4.1	4.16	4	3.94	3.84	3.73	3.91
IPLV					5.786	5.655	6.054	5.949	6.001	5.87	5.962	6.219	6.346	6.142
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	5,800		6,880		7,960		9,040			10,120
Weight	Unit			kg	4,356	5,229	5,315		5,763		6,273		6,344	7,134
	Operation weight			kg	4,796	5,771	5,882	5,887	6,566	6,571	7,151	7,161	7,279	8,327
Air heat exchanger	Type				Microchannel									
Compressor	Type				Screw compressor									
	Quantity				1				2					
Fan	Type				Direct propeller									
	Quantity				10		12		14		16			18
	Air flow rate	Cooling	Nom.	l/s	56,275		67,530		78,785		90,040			101,295
Sound power level	Cooling	Nom.		dBA	100.4	94.7	96	97.7	100.2	100.4	100.7	101	102.3	104.6
Sound pressure level	Cooling	Nom.		dBA	81.9	74.2	74.5	74.9	78.6	79.9	80.9	83	83.4	83.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	4 ~18									
Refrigerant	Type/GWP				R-513A/630									
	Charge			kg	50	55	60	65	75	80	85	95	100	110
	Circuits	Quantity			1				2					
Piping connections	Evaporator water inlet/outlet (OD)				88.9		139.7		168.3					219.1
Unit	Starting current	A			0									
	Running current	Cooling	A		202	208	237	261	283	319	345	373	412	435
		A			285	293	352	404	399	429	468	508	535	573



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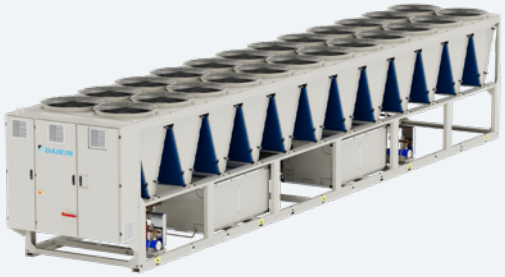


EWFS-TZPSD

					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		mm		2,553	
		Width		mm		2,238	
		Depth		mm		10,120	
Weight	Unit			kg		7,390	
	Operation weight			kg		8,594	8,604
Air heat exchanger	Type					Microchannel	
Compressor	Type					Screw compressor	
	Quantity					2	
Fan	Type					Direct propeller	
	Quantity					18	
	Air flow rate	Cooling	Nom.	l/s		101,295	
Sound power level	Cooling	Nom.		dBA		98.6	100.4
Sound pressure level	Cooling	Nom.		dBA		75.9	76.3
Operation range	Air side	Cooling	Min.~Max.	°CDB		4 ~18	
Refrigerant	Type/GWP					R-513A/630	
	Charge			kg		120	130
	Circuits	Quantity				2	
Piping connections	Evaporator water inlet/outlet (OD)					219.1	
Unit	Starting current	A				0	
	Running current	Cooling	A			483	537
		A				616	672
Power supply	Phase/Hz/V					3/50/400	

Air cooled mini inverter heat pump

- Choosing 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

Inverter technology

Swing compressor

EW(A-Y)A004-008DV3P_R

EWYA-DV3P

Heating & Cooling				EWYA-D	004DV3P	006DV3P	008DV3P
Space cooling	A Condition 35°C	Pdc		kW		-	
	ηs,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.	m^3/min		-	
		Heating	Nom.	m^3/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.

INVERTER BLUEVOLUTION

Air cooled mini inverter heat pump

- 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

Inverter technology

Swing compressor

EWAA-EWYA-D_R

EWYA-DV3P

Heating & Cooling				EWYA-D	009DV3P	011DV3P	014DV3P	016DV3P
Space cooling	A Condition 35°C Pdc			kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62(8)	5.79(8)	5.71(8)	5.59(8)
Space heating	Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9.35(4)/9.10(5)	11.6(4)/11.5(5)	12.8(4)/12.7(5)	14.0(4)/15.3(5)
Heating capacity	Nom.			kW	9.37(6)/9.00(7)	10.6(6)/9.82(7)	12.0(6)/12.5(7)	16.0(6)/16.0(7)
Power input	Cooling	Nom.		kW	2.79(4)/1.71(5)	3.56(4)/2.17(5)	4.06(4)/2.51(5)	4.58(4)/3.24(5)
	Heating	Nom.		kW	1.91(6)/2.43(7)	2.18(6)/2.68(7)	2.46(6)/3.42(7)	3.53(6)/4.56(7)
Capacity control	Method				Variable (inverter)			
EER					3.35(4)/5.34(5)	3.26(4)/5.31(5)	3.16(4)/5.04(5)	3.06(4)/4.74(5)
COP					4.91(6)/3.71(7)	4.83(6)/3.66(7)	4.87(6)/3.64(7)	4.53(6)/3.51(7)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Depth		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
	Heating	Nom.		dBA	-			
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
	Heating	Nom.		dBA	-			
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
Refrigerant	Type/GWP				R-32/675.0			
	Charge			kg	-			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
Unit	Running current	Max		A	30.8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			

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

Air cooled mini inverter heat pump

- 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

Inverter technology

Swing compressor

EWAA-EWYA-D_R

EWYA-DW1P

Heating & Cooling				EWYA-D	009DW1P	011DW1P	014DW1P	016DW1P
Space cooling	A Condition 35°C Pdc			kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62(5)	5.79(5)	5.71(5)	5.59(5)
Space heating	Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9.35(1)/9.10(2)	11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Heating capacity	Nom.			kW	9.37(3)/9.00(4)	10.6(3)/9.82(4)	12.0(3)/12.5(4)	16.0(3)/16.0(4)
Power input	Cooling	Nom.		kW	2.79(1)/1.71(2)	3.56(1)/2.17(2)	4.06(1)/2.51(2)	4.58(1)/3.24(2)
	Heating	Nom.		kW	1.91(3)/2.43(4)	2.18(3)/2.68(4)	2.46(3)/3.42(4)	3.53(3)/4.56(4)
Capacity control	Method				Variable (inverter)			
EER					3.35(1)/5.34(2)	3.26(1)/5.31(2)	3.16(1)/5.04(2)	3.06(1)/4.74(2)
COP					4.91(3)/3.71(4)	4.83(3)/3.66(4)	4.87(3)/3.64(4)	4.53(3)/3.51(4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Depth		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/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.

INVERTER

BLUEVOLUTION

Air cooled mini inverter heat pump

- 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

EWYA-DW1P-H-

Heating & Cooling					EWYA-D	009DW1P-H-	011DW1P-H-	014DW1P-H-	016DW1P-H-
Space cooling	A Condition 35°C	Pdc			kW	9.35	11.6	12.8	14.0
		ηs,c			%	222	229	226	221
SEER						5.62(5)	5.79(5)	5.71(5)	5.59(5)
Space heating	Average climate water outlet 35°C	General	SCOP			4.82	4.73	4.70	4.69
			Seasonal space heating eff. class			A+++			
Cooling capacity	Nom.				kW	9.35(1)/9.10(2)	11.6(1)/11.5(2)	12.8(1)/12.7(2)	14.0(1)/15.3(2)
Heating capacity	Nom.				kW	9.37(3)/9.00(4)	10.6(3)/9.82(4)	12.0(3)/12.5(4)	16.0(3)/16.0(4)
Power input	Cooling	Nom.			kW	2.79(1)/1.71(2)	3.56(1)/2.17(2)	4.06(1)/2.51(2)	4.58(1)/3.24(2)
	Heating	Nom.			kW	1.91(3)/2.43(4)	2.18(3)/2.68(4)	2.46(3)/3.42(4)	3.53(3)/4.56(4)
Capacity control	Method					Variable (inverter)			
EER						3.35(1)/5.34(2)	3.26(1)/5.31(2)	3.16(1)/5.04(2)	3.06(1)/4.74(2)
COP						4.91(3)/3.71(4)	4.83(3)/3.66(4)	4.87(3)/3.64(4)	4.53(3)/3.51(4)
Dimensions	Unit	Height			mm	870			
		Width			mm	1,380			
		Depth			mm	460			
Weight	Unit				kg	147			
Water heat exchanger	Type					Plate heat exchanger			
	Water volume				l	2			
Air heat exchanger	Type					High efficiency fin and tube type with integral subcooler			
Compressor	Type					Hermetically sealed swing inverter compressor			
	Quantity					1			
Fan	Type					Propeller fan			
	Quantity					1			
	Air flow rate	Cooling	Nom.		m^3/min	63	70	85	
		Heating	Nom.		m^3/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

- 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

Inverter technology

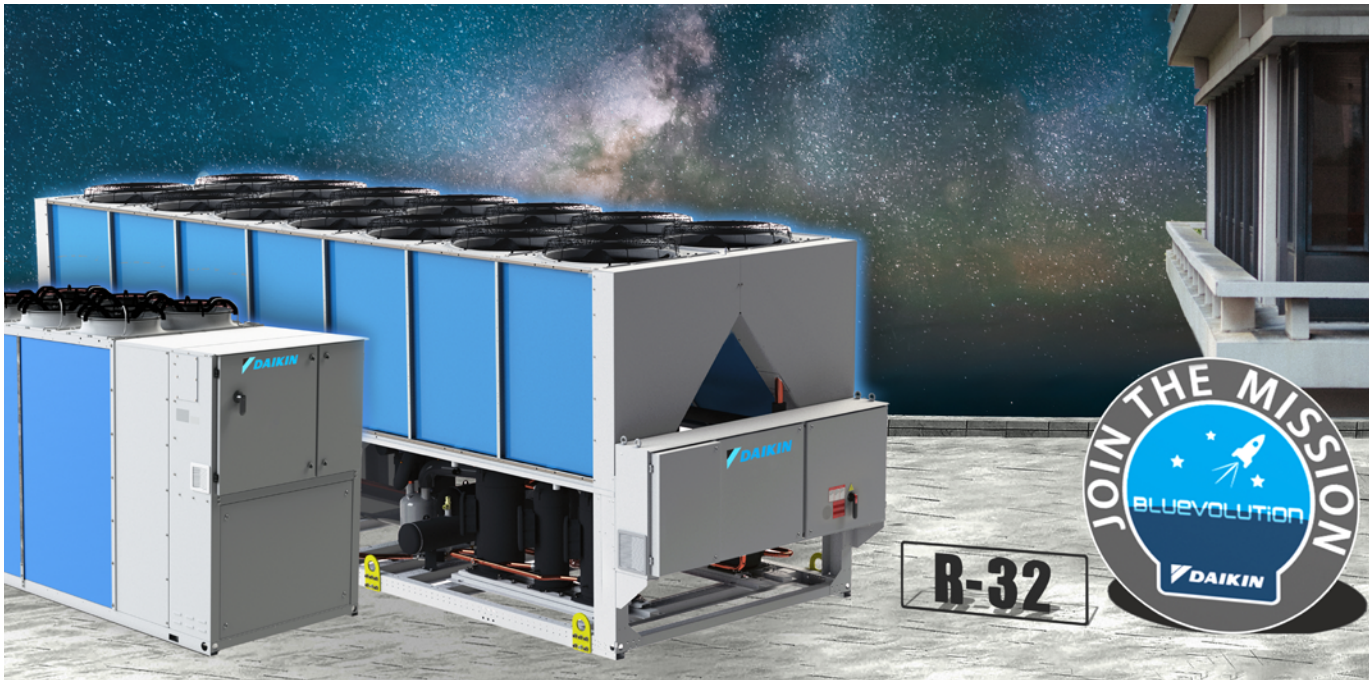
Swing compressor

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

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 35°C Pdc			kW		-		9.35	11.6	12.8	14.0
	ηs,c			%		-		222	229	226	221
SEER						-		5.62(8)	5.79(8)	5.71(8)	5.59(8)
Space heating	Average climate water outlet 35°C	General	SCOP		4.54	4.52	4.61	4.82	4.73	4.70	4.69
			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)	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.	m^3/min	-			63	70	85	
		Heating	Nom.	m^3/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

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 mantain heat recovery capacity at lower ambient temperatures with unit operating at full capacity

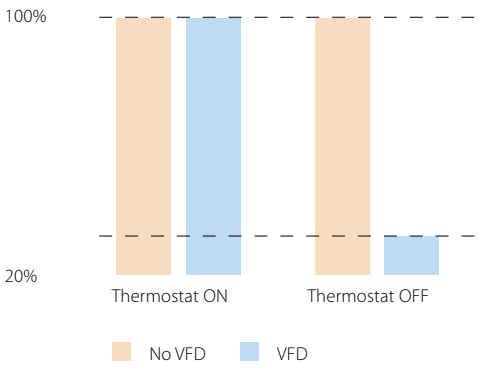
Buffer tank
Unit mounted buffer tank available all across the range for plug and play solution.

VFD pumps and variable flow control
- Variable pump speed control via extenral 0-10 volt signal
- "Thermostat on" and "thermostat off" pump speed management
- Variable primary flow control

Master/Slave supplied as standard
Master/Slave functionality allowing to manage up to 4 units on the same system without the need of external control devices.

Fan Silent Mode
The parallel coil units and units with VFD option are standardly equipped with Fan Silent Mode, which reduces fan velocity and therefore unit sound emission on scheduled time bands, enhancing comfort during night operation.

Pumping energy



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

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing 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-SS EWYT-B-SL

Heating & Cooling				EWYT-B-SS/SL	085	105	135	175	205	215	235	255	300	340	390	430	490	540	590	630	300-VFDFAN	340-VFDFAN	390-VFDFAN	430-VFDFAN	490-VFDFAN	540-VFDFAN	590-VFDFAN	630-VFDFAN
SEER					3.9	3.98	3.9	4.01	3.96	3.9	3.96	3.9	3.99	4.1	3.99	4	4.23		4.17	4.25	4.16	4.28	4.16	4.12	4.37	4.35	4.29	4.38
Space heating	Average climate water outlet 35°C	General	SCOP		3.34	3.41	3.36	3.40	3.37	3.40	3.34	3.29	3.27	3.28	3.35	3.33	3.37	3.35	3.38	3.37	3.38	3.39	3.46	3.44	3.47	3.46	3.50	3.47
			Seasonal space heating eff. class		A+														-									
Cooling capacity	Nom.			kW	75	98	120	153	189	193	212	230	270	317	350	375	434	482	531	570	270	317	350	375	434	482	531	570
Heating capacity	Nom.			kW	82.24	106.24	132.23	169.8	209.28	213.33	236.16	256.09	300.01	342.79	389.93	432.79	486.98	541.54	591.29	627.45	300.01	342.79	389.93	432.79	486.98	541.54	591.29	627.45
Power input	Cooling	Nom.		kW	28	36.6	44.6	57.8	71.3	72.3	78.9	86.5	102	117	132	147	171	192	206	219	102	117	133	147	171	192	207	219
	Heating	Nom.		kW	28.16	36.5	45.26	58.94	72.36	73.82	82.07	86.96	104.12	116.23	135.61	150.48	166.78	185.15	201.91	214.4	104.41	116.59	136.09	150.96	167.26	185.62	202.51	215
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					2.69	2.68	2.7	2.65	2.66	2.67	2.69	2.66	2.65	2.69	2.63	2.55	2.54	2.51	2.57	2.6	2.64	2.69	2.62	2.54	2.53	2.5	2.56	2.59
COP					2.914	2.903	2.914	2.875	2.886	2.884	2.871	2.938	2.882	2.949	2.875	2.876	2.92	2.925	2.928	2.927	2.873	2.94	2.865	2.867	2.911	2.917	2.92	2.918
IPLV					4.43	4.4	4.32	4.28	4.33	4.36	4.31	4.35	4.2	4.31	4.2	4.31	4.46	4.52	4.44	4.53	4.35	4.67	4.45	4.54	4.68	4.71	4.73	4.8
Dimensions	Unit	Height		mm	1,800								2,516															
		Width		mm	1,211								2,224															
		Length		mm	2,227	2,776	3,426		4,424	4,028	5,025		3,418		4,316				5,211		3,225		4,125				5,025	
Weight (SS)	Unit			kg	764	945	947	1,206	1,572	1,478	1,533	1,569	2,516	2,864	3,278	3,324	3,483	3,685	4,089	4,264	2,100	2,250	3,180	3,190	3,180	3,370	4,267	
	Operation weight			kg	772	953	954	1,214	1,583	1,495	1,544	1,583	2,527	2,883	3,297	3,343	3,510	3,712	4,124	4,305	2,114	2,270	3,200	3,209.71	3,207.27	3,397.27	4,302.37	4,308.08
Weight (SL)	Unit			kg	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	2,260	2,410	3,340	3,190	3,180	3,370	4,267	
	Operation weight			kg	772	953	954	1,214	1,583	1,495	1,544	1,583	2,640	2,997	3,409	3,446	3,641	3,842	4,253	4,436	2,274	2,430	3,360	3,209.71	3,207.27	3,397.27	4,302.37	4,308.08
Water heat exchanger	Type				Plate heat exchanger																							
	Water volume			l	7				11			14	20				27		35	41	14	20			27		35	41
	Water flow rate	Cooling	Nom.	l/s	3.6	4.7	5.8	7.3	9	9.2	10.1	11	12.9	15.1	16.7	17.9	20.7	23	25.3	27.2	12.9	15.1	16.7	17.9	20.7	23	25.3	27.2
	Water pressure drop	Cooling	Nom.	kPa	14.9	24.1	35.1	54	45	46.4	55.1	45.1	60.2	49.2	58.8	66.7	58.7	71.2	58.3	66.1	60.2	49.2	58.8	66.7	58.7	71.2	58.3	66.1
Air heat exchanger	Type				High efficiency fin and tube type																							
Compressor	Type				Scroll compressor																							
	Quantity				2			4	2	4					5	6			4				5		6			
Fan	Type				Direct propeller																							
	Quantity				4	6	8		10	12			5	6	8				10		5	6	8				10	
	Air flow rate	Nom.		l/s	6.888	10.809	14.412	13.777	17.220	17.221	20.664		28.003	33.604	46.854		45.830	44.806	57.288	56.008	28.003	33.604	46.854		45.830	44.806	57.288	56.008
	Speed			rpm	1,360								900															
Sound power level (SS)	Cooling	Nom.		dBA	84	87	89	91	90	92	91	92	94	95	96	96.3	96.6	96.8	97.5	97.8	94	94.9	95.9	96.3	96.6	96.8	97.5	97.8
Sound power level (SL)	Cooling	Nom.		dBA	83	85	87	88		89			91	92	93	92.9		93	93.9		90.8	91.6	92.8	92.9		93	93.9	
Sound pressure level (SS)	Cooling	Nom.		dBA	66	69	71	73	71	74	72	73	74	75	76	76.3	76.6	76.8	77.1	77.4	74.5	75.4	75.9	76.3	76.6	76.8	77.1	77.4
Sound pressure level (SL)	Cooling	Nom.		dBA	65	67	69	70	69		70		71	72	73	72.9		73	73.5		71.3	72.1	72.8	72.9		73	73.5	
Refrigerant	Type				R-32																							
	Charge			kg	12.7	15.8	18.5	26	34	34.8	37.2	43	41.7	48	47.1	48.6	60.3	70	78.5	87	41.7	48	47.1	48.6	60.3	70	78.5	87
	Circuits	Quantity			1			2	1	2																		
Piping connections	Evaporator water inlet/outlet (OD) mm				88.9														114.3		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	564	598	636	666	712	757	795	825
	Running current	Cooling Nom.		A	54.0	66.0	76.0	99.0	125.0	123.0	133.0	146.0	174.0	198.0	227.0	253.0	291.0	328.0	353.0	372.0	175	198	228	253	292	329	354	373
		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	232	266	304	334	379	425	463	493
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																							

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EWYT-B-SR MicroTech 4

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
		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															

BLUEVOLUTION

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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	VFDFAN 310	VFDFAN 350	VFDFAN 400	VFDFAN 440	VFDFAN 500	VFDFAN 560	VFDFAN 600	VFDFAN 630	VFDFAN 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	3.93	3.91	3.96	3.93	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	3.434	3.363	3.444	3.425	3.448	3.441	3.405	3.473	3.395	3.369	3.327	3.308	3.198	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	3,613	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		
	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				2			4	2		4					5	6				4				5	6				
Fan	Type				Direct propeller																									
	Quantity				6	8		10	14	12	16		7	8	10		12		14			7	8	10		12		14		
	Air flow rate	Nom.		l/s	9.039	12.644	12.052	15.065	21.090	18.078	24.104		29.593	33.820	43.351	42.276	52.021	50.730	60.692	59.186	78.410	29.593	33.820	43.351	42.276	52.021	50.730	60.692	59.186	78.410
	Speed			rpm	1,200								700								900	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
		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	377.0	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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- 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

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					
		Width		mm	1,211								2,224								
		Length		mm	2,776	3,426		4,024	4,628	5,625	6,223		4,316		5,211		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.		dBA	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.		dBA	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											
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

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

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EWYT-CZO

EWYT-CZO

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

INVERTER

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

Inverter technology

Screw compressor

EWYD-BZSS

Heating & Cooling				EWYD-BZSS	250	270	290	320	340	370	380	410	440	460	510	530	570
SEER					-										4.57		4.55
Space heating	Average climate water outlet 35°C	General	SCOP		3.21		3.20		3.21				3.20		-		
Cooling capacity	Nom.			kW	253	272	291	323	337	363	380	411	433	455	515	533	569
Heating capacity	Nom.			kW	271	298	325	334	350	380	412	445	465	477	532.86	560.55	618.33
Power input	Cooling	Nom.		kW	91.3	101	110	117	125	135	144	154	165	163	183	189	217
	Heating	Nom.		kW	91.4	100	108	118	126	133	143	157	167	165	177.37	184.84	208.14
Capacity control	Method				Stepless												
	Minimum capacity			%	13.0									9.0	9		
EER					2.77	2.70	2.65	2.75	2.69	2.68	2.63	2.66	2.62	2.79	2.81		2.62
ESEER					3.93	3.92	3.89	3.95	3.89	3.90	3.82	3.91	3.89	4.18	-		
COP					2.96	2.97	3.00	2.82	2.78	2.85	2.88	2.83	2.79	2.88	3.004	3.033	2.971
IPLV					4.58	4.62		4.75	4.64	4.71	4.67	4.73	4.69	4.85	4.89	4.85	4.77
Dimensions	Unit	Height		mm	2,335									2,280	2,280		
		Width		mm	2,254										2,254		
		Length		mm	3,547			4,428				5,329		6,659	6,659		
Weight	Unit			kg	3,410	3,455	3,500	3,870		3,940	4,010	4,390		5,015	5,495	5,735	
	Operation weight			kg	3,550	3,595	3,640	4,010		4,068	4,138	4,518		5,255	5,724	5,964	5,953
Water heat exchanger	Type				Single pass shell & tube										Shell and tube		
	Water volume			l	138			133			128			240	229		218
	Water flow rate	Cooling	Nom.	l/s	12.1	13.0	13.9	15.5	16.2	17.4	18.2	19.7	20.8	21.8	24.7	25.5	27.3
		Heating	Nom.	l/s	13.1	14.4	15.7	16.1	16.9	18.3	19.8	21.4	22.4	23.0	-		
	Water pressure drop	Cooling	Nom.	kPa	40	46	44	50	55	60	65	74	80	47	68.4	46.5	52.4
		Heating	Nom.	kPa	30	35	52	37	40	45	51	59	64	42	-		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										High efficiency fin and tube type		
Compressor	Type				Single screw compressor												
	Quantity				2									3	3		
Fan	Type				Direct propeller												
	Quantity				6			8				10		12	12		
	Air flow rate	Nom.		l/s	31,729	31,422	31,115	42,306		42,337	41,487	52,882		63,458	62,640	61,652	48,191
	Speed			rpm	900										900		
Sound power level	Cooling	Nom.		dBA	101							102		104	103.6		
Sound pressure level	Cooling	Nom.		dBA	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		

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- PID microprocessor control

EWYD-BZSL

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		

cordeel
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DAIKIN
ZASŁAW
CTU 2AX4

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							
	Minimum capacity				%	17	15		13		12	11	10
Power input	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		
	Type					Brushless							
Compressor	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	Max		A	0							
	Running current	Cooling	Nom.	A	236	272	293	332	343	378	395	454
		Max		A	335	374	396	451	473	524	550	656
	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

EWYS-4Z

EWYS-4Z

Technical specifications					EWYS4004ZXRB2	EWYS4504ZXRB2	EWYS5004ZXRB2	EWYS5504ZXRB2	EWYS6004ZXRB2	EWYS6504ZXRB2	EWYS7004ZXRB2	EWYS8004ZXRB2
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							
	Minimum capacity			%	20	18	17	14	14	13	12	11
Power input	Cooling	Nom.		kW	121.21	137.97	149.21	175.09	190.14	201.53	212.92	240.97
	Heating	Nom.		kW	110.52	117.56	129.36	145.51	162.18	182.32	187.52	202.40
EER					2.89	2.76	2.91	2.77	2.81	2.87	2.88	2.79
COP					3.29	3.44	3.46	3.43	3.39	3.36	3.47	3.50
SCOP					3.2	3.22	3.32	3.29	3.3	3.27	3.33	3.38
SEER					4.63	4.55	4.78	4.82	5.07	5.15	5.05	5.13
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							
	Material				Galvanized Steel Sheet							
Water heat exchanger	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
		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	126	214	214	369	361	468	468
Air heat exchanger	Type				Tube & Fins							
Fan	Quantity				10		12		14	16		
	Type				Brushless							
Compressor	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	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					EWYS4004ZXRB2	EWYS4504ZXRB2	EWYS5004ZXRB2	EWYS5504ZXRB2	EWYS6004ZXRB2	EWYS6504ZXRB2	EWYS7004ZXRB2	EWYS8004ZXRB2
Power supply	Phase				3							
	Frequency			Hz	50							
	Voltage			V	400							
	Voltage range	Min.		%	-10							
		Max.		%	+10							
Unit	Starting current	Max		A	0							
	Running current	Cooling	Nom.	A	228	253	274	329	340	360	388	431
		Max		A	335	374	396	451	473	524	550	656
	Max unit current for wires sizing			A	369	411	436	496	520	576	605	722

Water to water mode					EWYS4004ZXRB2	EWYS4504ZXRB2	EWYS5004ZXRB2	EWYS5504ZXRB2	EWYS6004ZXRB2	EWYS6504ZXRB2	EWYS7004ZXRB2	EWYS8004ZXRB2
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/SL

MicroTech 4

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

EWW(H)(L)T-Q

Indoor

Outdoor unit

Modular design

Scroll compressor

Brazed plate heat exchangers

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	7.92
		Heating	Nom.	l/s	5.27	6.82	8.92	5.27	6.82	8.92
	Water pressure drop	Cooling	Nom.	l/s	19.35	20.00	22.10	19.35	20.00	22.10
		Heating	Nom.	l/s	24.90	25.10	29.70	24.90	25.10	29.70
	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	4.60	5.93	7.92	4.60	5.93	7.92
		Heating	Nom.	l/s	5.60	7.26	9.55	5.60	7.26	9.55
	Water pressure drop	Cooling	Nom.	l/s	19.35	19.98	22.15	19.35	19.98	22.15
		Heating	Nom.	l/s	27.81	28.00	33.60	27.81	28.00	33.60
Compressor	Quantity				2					
	Type				Scroll					
	Oil	Charged volume		l	6	7.5	9	6	7.5	9
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	52.6
		Max		A	62	80	97	62	80	97
	Max unit current for wires sizing			A	68	88	107	68	88	107

Water to water modular heat pumps

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EWW(H)(L)T-Q

Indoor

Outdoor unit

Modular design

Scroll compressor

Brazed plate heat exchangers

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				Brazed 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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EWW(H)(L)T-Q

Indoor

Outdoor unit

Modular design

Scroll compressor

Brazed plate heat exchangers

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				Brazed 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					
	Oil	Charged volume		l	6	7.5	9	6	7.5	9
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
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 μC²SE controller for direct connection to a Modbus based BMS or to a remote user interface

EWWQ-KC

Scroll compressor

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				Brazed plate				
	Water volume			l	1.47	1.96	2.74	4.47	5.88
	Water flow rate	Cooling	Nom.	l/s	0.63	1.14	1.45	2.25	2.91
		Heating	Nom.	l/s	0.88	1.6	2.07	3.2	4.13
	Water pressure drop	Cooling	Nom.	kPa	9.71/11.7	16.4/28.7	21.3/21.6	20.5/27.6	34.8/44.8
		Heating	Nom.	kPa	23.70	60.20	59.60	56.70	94.60
Compressor	Type				Scroll compressor				
	Quantity				1			2	
Sound power level	Cooling	Nom.		dBA	69		76	72	79
Sound pressure level	Cooling	Nom.		dBA	55.2		62.1	57.6	64.6
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10 ~20				
	Condenser	Heating	Min.~Max.	°CDB	20 ~55				
Refrigerant	Type/GWP				R-410A/2,088.0				
	Charge			kg	0.0/1.30	0.0/1.90	0.0/2.70	0.0/4.60	0.0/6.80
	Circuits	Quantity			1			2	
Piping connections	Evaporator water inlet/outlet (OD)				G1"			G1" 1/2	
Space heating	Average climate water outlet 55°C	General	SCOP		3.64	3.63	3.71	3.58	3.87
Space heating	Average climate water outlet 55°C	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				

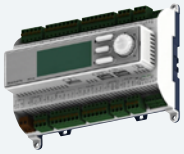
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | According to EN14825 | Depends on operation mode, refer to installation manual. | For more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

Scroll compressor

EWHQ-G-SS



MicroTech 4

EWHQ-G-SS

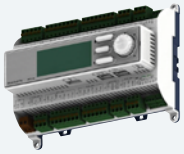
					EWHQ-G-SS	100	120	130	150	160	190	210	240	270	340	400
Cooling capacity	Nom.			kW		87.3	100.0	111	127	141	160	181	208	232	291	352
Heating capacity	Nom.			kW		112	128	144	162	179	205	233	266	299	375	454
Capacity control	Method					Step										
	Minimum capacity			%		50.0	43.0	50.0	44.0	50.0	45.0	50.0	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

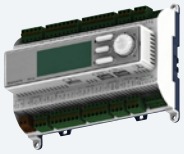
EWWQ-G-SS

Cooling Only					EWWQ-G-SS	090	100	120	130	150	170	190	210	240	300	360
Space cooling	A Condition 35°C	Pdc			kW	93.7	105.6	119	135.9	150	172.1	193.8	220.7	246.1	314.3	370.4
		ηs,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									1,186	
		Width			mm	928										
		Length			mm	2,432			2,264			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	15	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



MicroTech 4

Scroll compressor

EWWQ-L-SS

Cooling only/Heating only					EWWQ-L-SS	180	205	230	260	290	330	380
Space cooling	A Condition 35°C	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
		Max		A		118	131	144	160	175	205	232
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

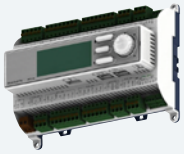
Performances according to CSS software 10.27

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

Screw compressor



Microtech 4

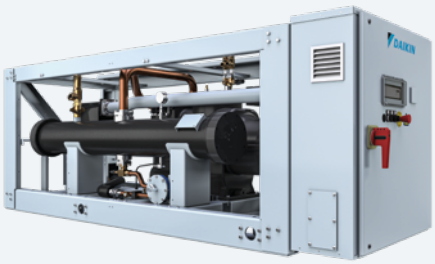
EWWD-J-SS

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 drop	Cooling	Nom.	kPa	15	14	43	40	35	28	34
		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 drop	Cooling	Nom.	kPa	20	13	11		15	17	27
		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
		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.

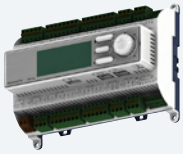
Water to water screw heat pump, standard efficiency, standard sound

- 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_EWWS-J

Screw compressor



Microtech 4

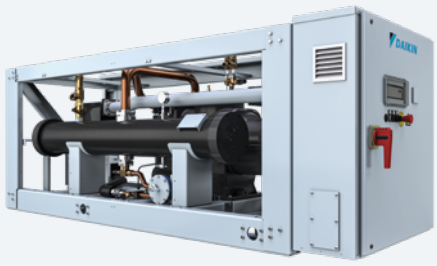
EWWH-J-SS

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

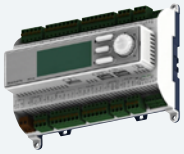
Water to water screw heat pump, standard efficiency, standard sound

- 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

EWWH-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.		dBA		89						
Sound pressure level	Cooling	Nom.		dBA		79						
Refrigerant	Type					R-513A						
	Charge			kg		18	35	34	37		38	
	Circuits	Quantity				1						
Piping connections				mm		76.2						
Piping connections	Condenser water inlet/outlet			inch		2" 1/2	4					
Unit	Starting current	Max		A		154		198			291	
	Running current	Cooling	Nom.	A		50	60	70	78	87	104	117
		Max		A		81	96	108	122	141	164	185
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

performances according to CSS software 10.34
Fluid: Water; Fouling factor = 0m 2°C/W
Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.

The highest peak in chiller technology

The VZ chiller series 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.

EWW(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

Full inverter water cooled chiller

INVERTER

Highest efficiency in the market in its category

TOP CLASS EFFICIENCY

VZ CHILLER SERIES

of everything:
2 compressors,
2 expansion valves,
2 condensers,...

New condenser design with integral oil separator

High efficient flooded heat exchangers

Unique Daikin single screw compressor technology

UNIQUE SOLUTION

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?

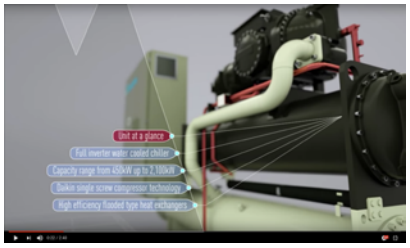
1. **Top class efficiency**
   Thanks to:
   - New generation Daikin inverter screw compressors
   - New generation high efficiency heat exchangers
   - Variable volume ratio technology
   - Optimized refrigerant circuit design
2. **Compact unit: 40% footprint reduction**
   Thanks to:
   - New single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



YouTube
www.youtube.com/DaikinEurope

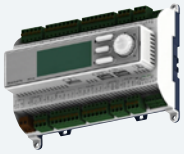
Water cooled screw inverter chiller, standard efficiency, standard sound

- 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

Inverter technology

Screw compressor



Microtech 4

EWWD-VZSS

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

performances according to CSS software 10.33

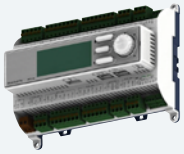
Water cooled screw inverter chiller, high efficiency, standard sound

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

EWWD-VZXS

Inverter technology

Screw compressor



Microtech 4

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 (35°C - 27/19)	Pdc	kW		448.83	500.51	612.77	713.11	793.52	901.21	1,053.02	1,194.03	1,305.01	1,406.98	1,593.03	1,748.03	1,912.01	2,074.02
	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													

performances according to CSS software 10.33

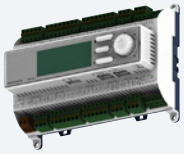
Water cooled screw inverter chiller, premium efficiency, standard sound

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

EWWD-VZ

Inverter technology

Screw compressor



Microtech 4

EWWD-VZPS

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

performances according to CSS software 10.33

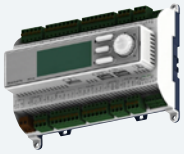
Water cooled screw inverter chiller, standard efficiency, standard sound

- 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 75°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability

EWWH-VZSS

Inverter technology

Screw compressor



Microtech 4

EWWH-VZSS

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

Performances according to CSS software 10.33

Water cooled screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 75°C hot water production)
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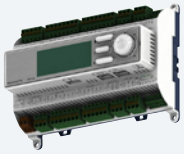
EWWH-VZXS

Inverter technology

Screw compressor



Microtech 4

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

Performances according to CSS software 10.33

Water cooled screw inverter chiller, premium efficiency, standard sound

- Premium energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 75°C hot water production)
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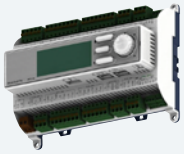
EWWH-VZPS

Inverter technology

Screw compressor



Microtech 4

EWWH-VZPS

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

Performances according to CSS software 10.33

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

- 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
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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 (35°C - 27/19)	Pdc	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

INVERTER

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

- High energy efficiency both at full and part load conditions
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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 (35°C - 27/19)	Pdc	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

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EWWS-VZ

Inverter technology

Screw compressor

EWWS-VZPS

Cooling only/Heating only				EWWS-VZPS	500	710	900	C12	C16	C17
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		500.08	710.08	898.24	1,187.65	1,585.78	1,735.47
	ηs,c		%		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^{2}SE controller for direct connection to a Modbus based BMS or to a remote user interface

EWLQ-KC_EWWQ-KC_hydracube_modulo_03

Scroll compressor

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				Brazed 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

Microtech 4

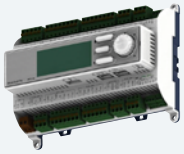
EWLQ-G-SS

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



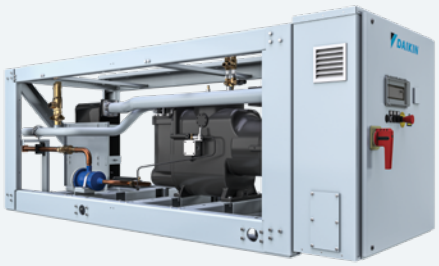
Microtech 4

EWLQ-L-SS

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

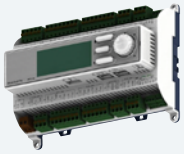
Condenserless screw chiller, standard efficiency, standard sound

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



Screw compressor

EWLD-J-SS



Microtech 4

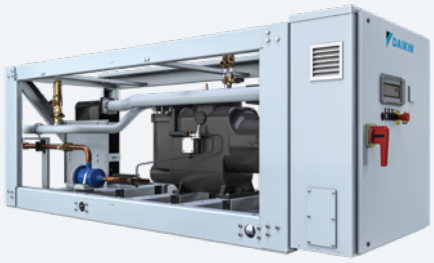
EWLD-J-SS

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

Performances according to CSS software 10.34

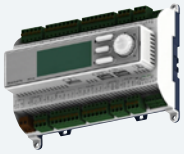
Condenserless screw chiller, standard efficiency, standard sound

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



EWLH-J_EWLS-J

Screw compressor



Microtech 4

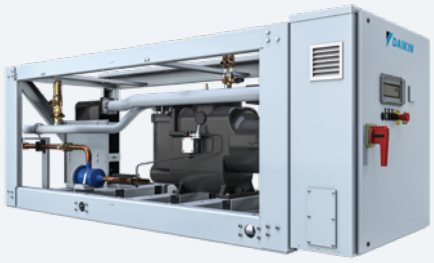
EWLH-J-SS

					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.		dBA		88.9						
Sound pressure level	Cooling	Nom.		dBA		79						
Refrigerant	Type					R-1234(ze)						
	Circuits	Quantity				1						
Piping connections				mm		76.2						
Unit	Starting current	Max		A		153			197		290	
	Running current	Cooling	Nom.	A		42	48	59	65	72	84	92
		Max		A		75	90	100	114	143	158	178
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

Performances according to CSS software 10.34

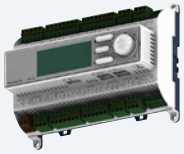
Condenserless screw chiller, standard efficiency, standard sound

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



Screw compressor

EWLH-J_EWLS-J



Microtech 4

EWLS-J-SS

					EWLS-J-SS	110	130	150	170	200	240	270
Cooling capacity	Nom.			kW	111	132	150	175	200	236	268
Power input	Cooling	Nom.		kW	32.2	38.7	44.8	51.2	58.2	69.4	78.8
Capacity control	Method				Stepless						
	Minimum capacity			%	25						
EER					3.44	3.4	3.35	3.41	3.44	3.41	3.4
Dimensions	Unit	Height		mm	1,020						
		Width		mm	913						
		Length		mm	2,684						
Weight	Unit			kg	1,124	1,141	1,237	1,263	1,305	1,489	
	Operation weight			kg	1,138	1,159	1,253	1,281	1,327	1,518	
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s	5.3	6.3	7.2	8.4	9.6	11.3	12.8
	Water pressure drop	Cooling	Nom.	kPa	16	15.8	31.1	31.5	30	27	33.8
Compressor	Type				Single screw compressor						
	Quantity				1						
Sound power level	Cooling	Nom.		dBA	88.9						
Sound pressure level	Cooling	Nom.		dBA	79						
Refrigerant	Type				R-513A						
	Circuits	Quantity			1						
Piping connections				mm	76.2						
Unit	Starting current	Max		A	154			198		291	
	Running current	Cooling	Nom.	A	54	65	75	84	94	111	125
		Max		A	81	96	108	122	141	164	185
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

Performances according to CSS software 10.34

Condenserless screw chiller, standard efficiency, standard sound

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

EWLD-I-SS

Microtech 4

EWLD-I-SS

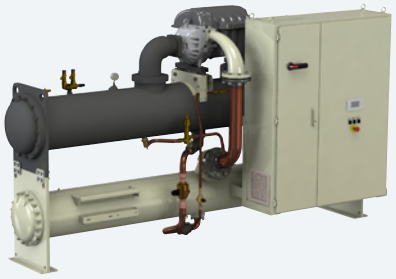
Cooling only				EWLD-I-SS	320	400	420	500	600	650	750	800	850	900	950	C10	C11	C12	C13	C14	C15	C16	C17
Cooling capacity	Nom.			kW	315	374	437	509	607	670	740	802	865	935	975	1,029	1,097	1,144	1,210	1,278	1,330	1,381	1,433
Power input	Cooling	Nom.		kW	80.3	96.0	113	134	160	175	192	208	224	246	264	283	286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

INVERTER

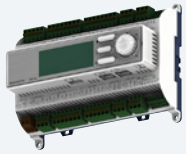
Water cooled centrifugal chiller, high efficiency, standard sound

- 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

Centrifugal compressor



EWWD-DZ



Microtech 4

mAP

EWWD-DZXS

Cooling Only				EWWD-DZXS	320	440	530	610	640	700	880	C10	C13	C14	C15	C21
Space cooling	A Condition (35°C - 27/19) Pdc			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 pressure drop	Cooling	Nom.	kPa	47.4	40.6	45	59.1	51	61.3	64	60.4	60.1	74	61.1	71.9
Water heat exchanger - condenser	Type				Shell and tube								Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	
	Water volume			l	83	100	120		170	188	211	263	359.9	320	442.6	603.6
	Water flow rate	Nom.		l/s	18.3	25.3	30.1	35.1	36.7	39.4	50.5	60.1	-	79.1	-	
		Cooling	Nom.	l/s	-								76.1	-	89.5	117
	Water pressure drop	Cooling	Nom.	kPa	49.2	59.5	54.5	74	46.2	41.6	50.9	50.3	56	52.9	43	57
Compressor	Type				Driven vapour compressor											
	Quantity				1			2		1	2		3	2	3	
Sound power level	Cooling	Nom.		dBA	87.9	88.9	89.9	91.1	91	91.1	92	93.3	99	94.3	100	101
Sound pressure level	Cooling	Nom.		dBA	69.6	70.6	71.6	72.6			73.6	74.6	80	75.6	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20											
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55		20~42	20~55	20~42	20~55	20~42		
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

INVERTER

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- 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

DAIKIN mAP

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 Nom.	A		105.42	144.7	162.48	212.9	210.15	196	287.44	318.3	323.53	425.9	392	496	588
		Max	A		134	208	166	267		196	417	406	331	631	392	511	589
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400												

Performances according to CSS software 10.27

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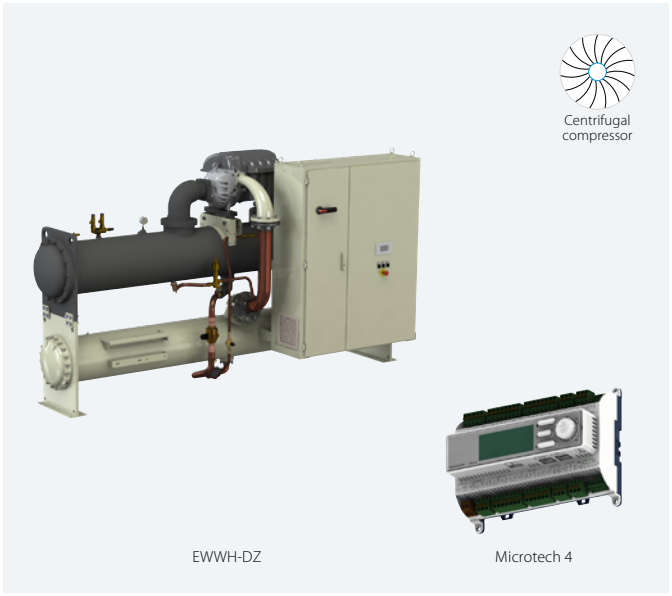

EWWH-DZXS

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

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EWWH-DZXE

Cooling Only					EWWH-DZXE	245	345	405	470	480	490	685	740	810	955	C10	C12	C14
Space cooling	A Condition (35°C - 27/19)	Pdc		kW		241.98	339.33	401.93	460.88	483.83	486.57	678.69	741	802.77	944.73	1,033	1,226	1,417
	ηs,c			%		331	350		335	345	344	356	344.6	358	356	364.2		371.8
SEER						8.85	8.75	8.79	8.94	8.4	8.9	9.18	8.8	9.22	9.15	9.17		9.35
Cooling capacity	Nom.			kW		242	339	402	487	474	484	679	741	803	945	1,033	1,226	1,417
Power input	Cooling	Nom.		kW		47.9	63.4	75.1	98.7	79.5	95.1	126.3	144.6	149.4	159.2	192.9	229.5	238.3
Capacity control	Method					Variable							Stepless	Variable		Stepless		
	Minimum capacity			%		24	20	19	12	20	12	10	12	9	10	11		17
EER						5.05	5.35		4.93	5.97	5.09	5.37	5.13	5.37	5.93	5.35	5.34	5.94
ESEER						7.78	8.02	8	7.75	7.83	8.04	8.22	-	8.27	8.23	-		
IPLV						9.33	9.54	9.58	9.36	9.56	9.43	9.74	9.44	9.79	9.8	9.62	9.65	9.72
Dimensions	Unit	Height		mm		1,865			1,985				2,082	2,200		2,083	2,225	2,290
		Width		mm		1,055			1,160				1,510	1,270		1,510		
		Length		mm		3,625				3,585			4,688	3,580		4,793	4,768	4,812
Weight	Unit			kg		1,750	1,950	2,050	2,850	2,650	2,850	3,000	4,400	3,700	3,900	4,700	5,100	5,900
	Operation weight			kg		2,033	2,276	2,407	3,197	3,162	3,354	3,568	4,970	4,412	4,699	5,370	5,890	6,920
Water heat exchanger - evaporator	Type					Flooded shell and tube												
	Water volume			l		70	96	107		134		156	207.3	199	229	317.4		444.3
	Water flow rate	Cooling	Nom.	l/s		11.6	16.2	19.2	22.4	22.6	23.1	32.4	34.9	38.4	45.2	48.7	57.9	67
	Water pressure drop	Cooling	Nom.	kPa		29.7	28.4		37.8	30.8	32	41.3	31	38.1	36.9	37	38	33
Water heat exchanger - condenser	Type					Shell and tube							Flooded Shell & Tube	Shell and tube		Flooded Shell & Tube		
	Water volume			l		83	100	120		188	170	211	326.4	263	320	359.9	442.6	603.6
	Water flow rate	Cooling	Nom.	l/s		13.9	19.2	22.8	26.7	26.4	27.7	38.5	41.8	45.5	52.8	57.8	68.8	78.4
	Water pressure drop	Cooling	Nom.	kPa		28	34	31	42	18	26	29	21	28	23	33	30	26
Compressor	Type					Driven vapour compressor												
	Quantity					1			2	1	2		3	2		3		
Sound power level	Cooling	Nom.		dBA		87.9	88.9	89.9	91.1		91	92	98	93.3	94.3	99	100	101
Sound pressure level	Cooling	Nom.		dBA		69.6	70.6	71.6	72.6			73.6	79	74.6	75.6	80	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB		4~20												
	Condenser	Cooling	Min.~Max.	°CDB		20~55		20~42	20~55	20~42	20~55			20~42		20~55	20~42	
Refrigerant	Type/GWP					R-1234(ze)/7												
	Charge			kg		130			120	190	200		350	250		400	420	470
	Circuits	Quantity				1												
Refrigerant charge				TCO2Eq		1							-	2		-		
Piping connections				mm		139.7				168.3				219.1				
				mm		139.7				168.3				219.1		168.3	219.1	
Unit	Running current	Cooling	Nom.	A		75	103	117	142	125	150	205	277	232	249	311	249	
Unit	Running current	Max		A		95	150	123	190	142	190	300	286	246	284	451	370	448
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400												

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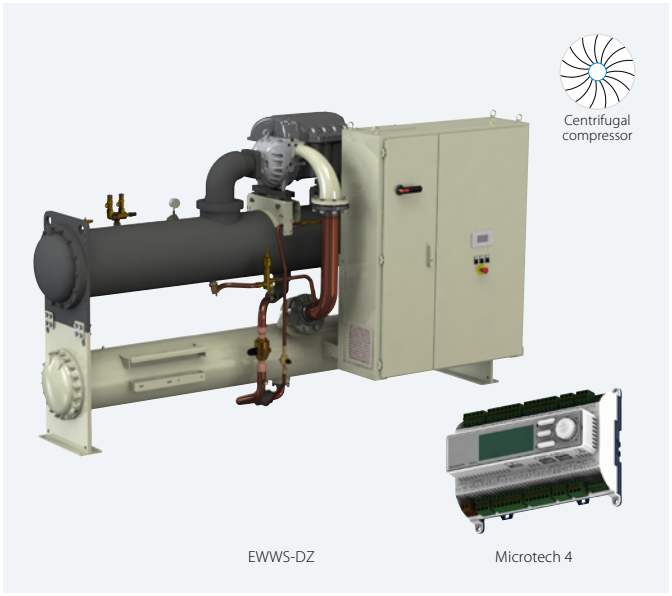


DAIKIN mAP

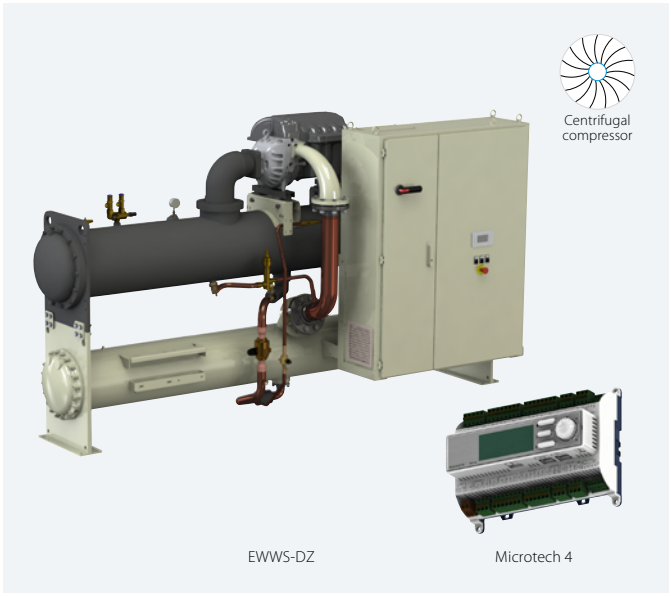
EWWS-DZXS

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

INVERTER

Water cooled centrifugal chiller, high efficiency, standard sound

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



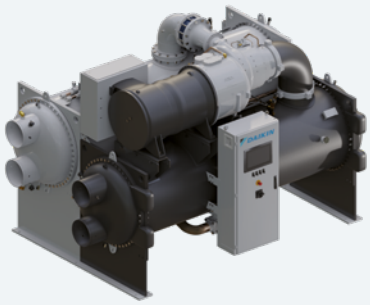
DAIKIN mAP

EWWS-DZXE

Cooling Only				EWWS-DZXE	340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition (35°C - 27/19)	Pdc	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		

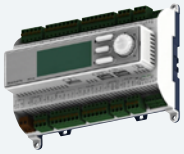
Water cooled centrifugal chiller, high efficiency, standard sound

- 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



Centrifugal compressor

DWSC C



Microtech 4

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.

DWSC-C

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

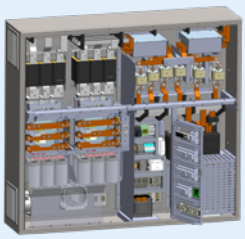
DWDC C

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

Panels			Air-cooled chillers							
			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	•							

Serial Cards & Communication Modules		Air-cooled chillers						
		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				•				
EKCMLON	LON communication module				•	•	•	•	•
EKCMBACMSTP	BACnet/MSTP communication module				•				
EKCMBACIP	BACnet/IP communication module				•	•	•	•	•
EKDOSMWO	Daikin on Site Modem without M2M card			•	•	•	•	•	•

Other Systems & Accessories			Air-cooled chillers							
			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				•	•	•	•	•
EKPWPROEXT		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								
EKRP1AHT	(g)	Digital input/output PCB								
EKRUAHTB	(g)	Remote user interface								
DTA104A62	(f)	External control adapter								
BHGP26A1	(f)	Digital pressure gauge kit								
EKQDP2M016	(g)	Differential Pressure Sensor 4-20 mA 0-160 kPa					•	•	•	•
EKQDP2M020	(g)	Differential Pressure Sensor 4-20 mA 0-250 kPa					•	•	•	•
EKQDP2M040	(g)	Differential Pressure Sensor 4-20 mA 0-400 kPa					•	•	•	•
EKQDP2M060	(g)	Differential Pressure Sensor 4-20 mA 0-600 kPa					•	•	•	•
EKDAPCONT		Containerization of one unit			•	•	•	•	•	•
EKDAPSTF		Containerization of additional units in the same container			•	•	•	•	•	•

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

			Water-cooled chillers							Centrifugals		
ERAD~E-	EWAT~B-	EWAD~CF	EWWQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWS/H/D~J- EWLS/H/D~J-	EWWH~VZ	EWWD~VZ	EWWH~DZ	EWWD~DZ	DWSC & DWDC
	•				•	•	•	•	•	•	•	•
	•	•			•	•	•	•	•	•	•	•
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	•				•							

			Water-cooled chillers							Centrifugals		
ERAD~E-	EWAT_B- (single)	EWAD~CF	EWWQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWD~J- EWLD~J-	EWWH~VZ A	EWWD~VZ A	EWWH~DZ	EWWD~DZ	DWSC & DWDC
												•
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			Water-cooled chillers							Centrifugals		
ERAD~E-	EWAT_B- (single)	EWAD~CF	EWWQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWD~J- EWLD~J-	EWWH~VZ A	EWWD~VZ A	EWWH~DZ	EWWD~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