

Applied Systems

Product catalogue 2023



High performance and reliability for comfort
and process applications

Follow us on



AHUs

CHILLERS

PROJECTS

SERVICE

Our promise...
... is to ensure that customers can depend on Daikin for the ultimate in comfort, so that they are free to focus on their own working and home lives.

We promise to dedicate ourselves to technological excellence, a design focus and the highest quality standards so that our customers can trust and rely on the comfort we deliver.

Our promise to the planet is absolute. Our products are at the forefront of low energy-usage and we will innovate to further reduce the environmental impact of HVAC-R (Heating, Ventilation, Air conditioning, Refrigeration) solutions. We lead where others follow.

We will continue our global leadership in HVAC-R solutions as our specialist expertise in all market sectors combined with 90 years' experience enable us to deliver added value in long-lasting relationships based on trust, respect and credibility.

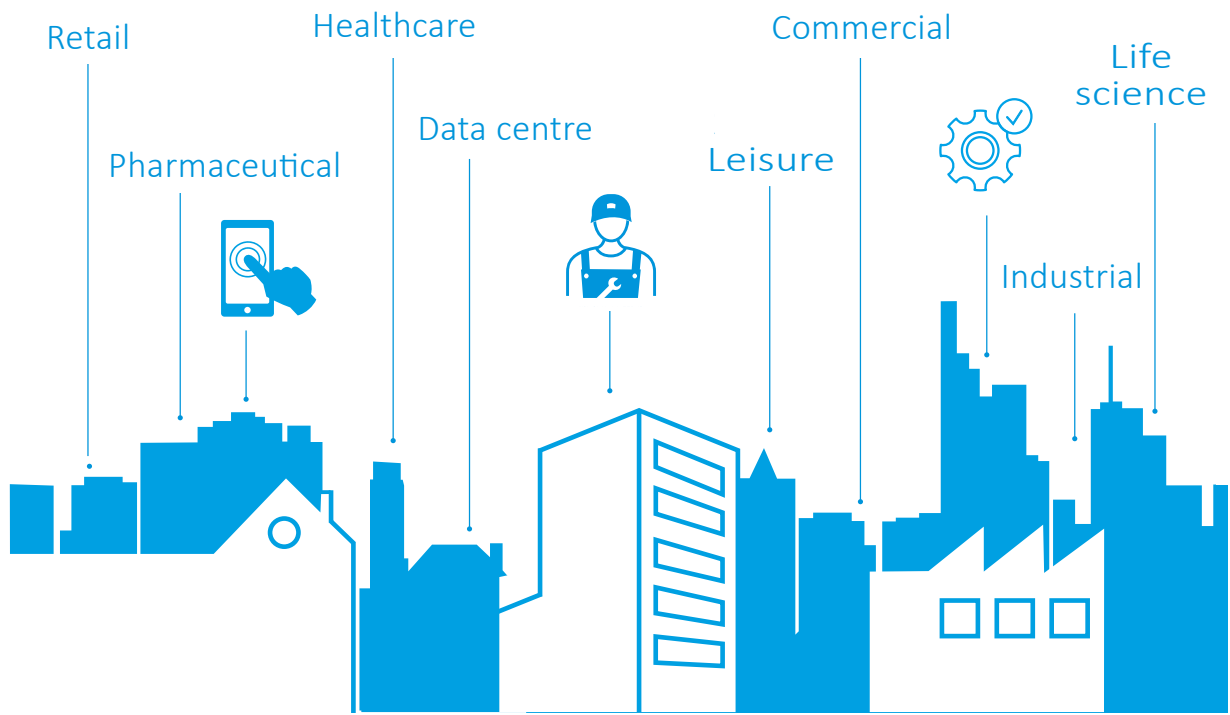
We promise to continue our forward-thinking ethos, treating challenges as opportunities to produce ever-better solutions. We will drive innovation and go the extra distance for our customers and our company.

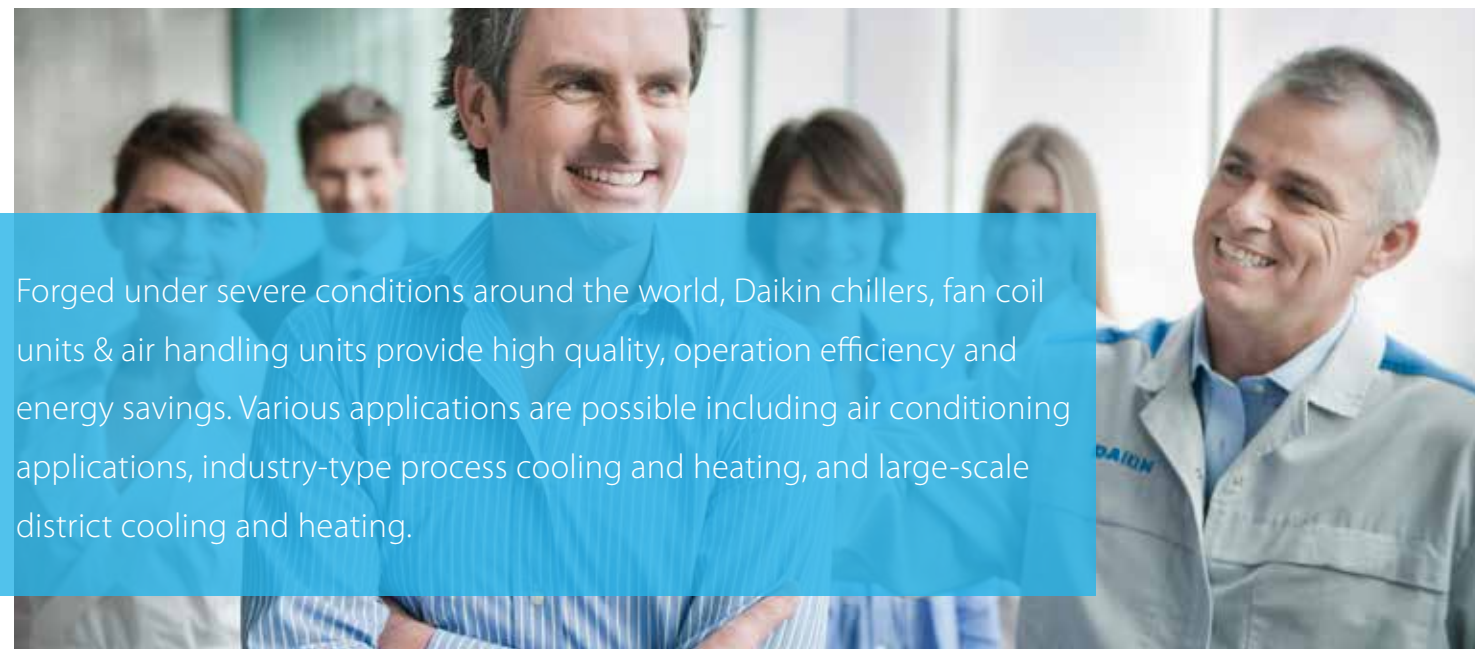
We will be smart and ready to do things differently.

We will deliver on these core values of our brand and enjoy sustainable success with continued growth.

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

A partner of choice

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

The comfort of reliability

Nobody is really looking for complexity in business. Because complexity often leads to mistakes, delays or losses. Unfortunately, the world we are all doing business in, is sometimes quite complex. When looking for further business development, we all expand our national and international operations. And that doesn't make things easy.

As a small scale business or multinational company, you deserve the best partners. Partners that can take away the headaches and make you feel comfortable again. With Daikin, you have found such a partner. Because Daikin would like things to be easy ... for you.

Daikin quality

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

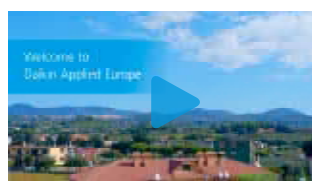
Staff who understands you

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

Daikin Applied Development Center

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

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

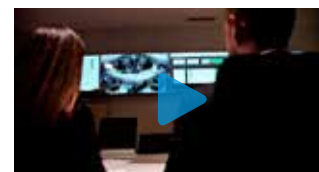


Witness Testing Chiller and AHU testing facilities

The performance of your chiller or AHU can be simulated and tested 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.

We have specific competencies and state of the art testing facilities to ensure comprehensive and accurate testing. Our Chiller testing facilities are at our Chiller factory in Rome, and our AHU testing facilities are in our UK factory in Northumberland.

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



Tools and platforms

Have a question, looking for specific software applications, need detailed product information or looking for any other marketing tools? This overview gives you an idea of what we can offer.

Selection software

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

Web-based chiller selection software

A user-friendly interface allows users to quickly create new projects, open and change existing projects or simply do a quick selection.

Technical selection reports can be printed or downloaded in several formats. To make life easier, the tool is accessible everywhere, via any device. No matter where you are, projects can be consulted.

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



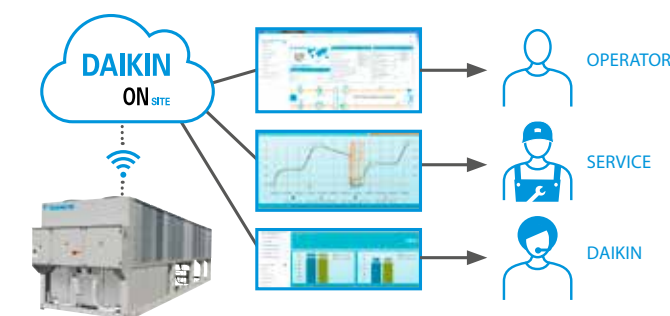
Online support

Daikin on Site

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

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

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



ASTRA Web

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

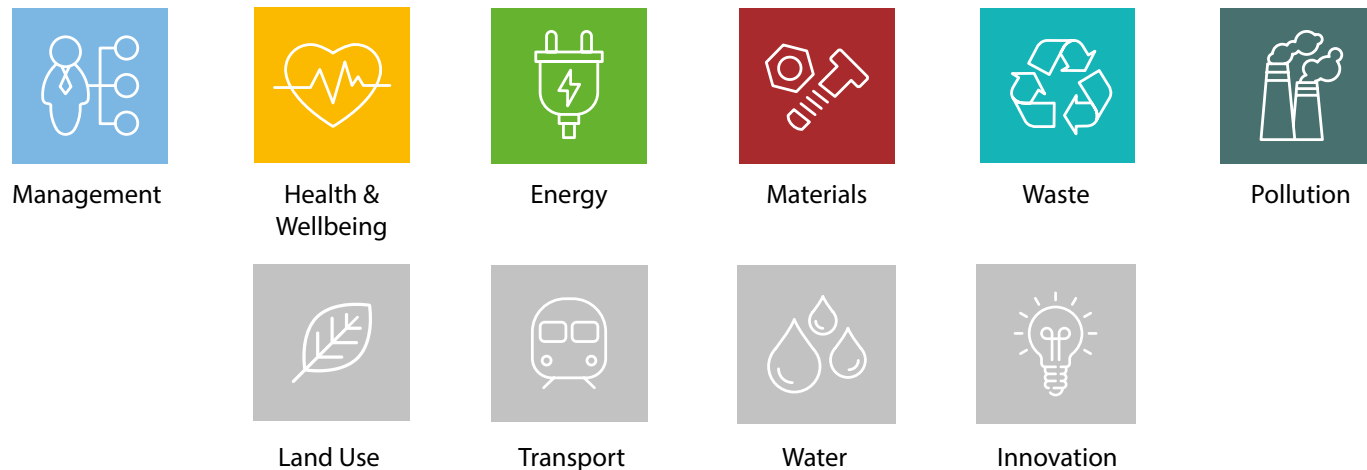
Daikin, your partner for your BREEAM project

What is BREEAM?

BREEAM (British Research Establishment Environmental Assessment Method) is a **certification system that recognises sustainable buildings that exceed national standards**. As an internationally leading quality label, it provides investors and building owners the guidelines to focus sustainability in building design as well as the environmental impact of products in buildings.

The BREEAM label assesses the overall building concept in **10 different categories**. **Credits** are awarded and weighted for each category in order to generate the **final score for the building**, in levels from 'pass' to 'outstanding'. The final BREEAM building score recognises the effort the investor or building owner have done and result in increased property, leasing or renting value.

Daikin contributes in 6 BREEAM categories:



Daikin heat pumps can contribute in

6 out of
10 BREEAM categories

and achieve

up to **30** BREEAM
credits*



Why Daikin?

to maximize your BREEAM rating

1. Team up with our own **accredited professionals (AP's)** assisting you to achieve your green building certification.
2. A global leader with local manufacturing service infrastructure and resources to provide **outstanding aftercare support**, advanced commissioning and hand-over.
3. Daikin Cloud Service ensures a **pro-active aftercare**, by detecting excessive energy use or potential issues before they occur to maximise system lifetime and minimize operational costs.
4. **First class Indoor Air Quality** thanks to low VOC emission, optimal thermal zoning and a low acoustic performance.
5. **Responsible sourcing and waste reduction**: BES6001 and ISO14001 certification delivers extra credits for the project.
6. Low carbon heating, cooling, ventilation and refrigeration thanks to **market-leading seasonal efficiency**.
7. Reduced environmental impact thanks to **refrigerant leak detection** systems and reuse of existing refrigerant through the **L∞P by Daikin** program.
8. High quality and performant products result in a **positive life cycle analysis**.
9. Our system are designed to be **easily adaptable** and upgradable to meet future building demands



Scan the code
to download

Save time by using our in-depth BREEAM assessment sheet, created by our team of experts, as base of evidence towards assessors when applying for BREEAM credits.



System modernisation

Be smart – replace components, not systems

Chiller Modernisation

Even if the R-22 chiller has been maintained well and is still in good condition, R-22 is no longer allowed to be used. That's why Daikin offers chiller modernisation packages. Not only is the chiller made compliant with the latest legislation, the technology upgrade also revives your system, increasing reliability and efficiency.

Main benefits

- › Convert R-22 to be compliant with legislation
- › Limit capital
- › Save money for future equipment thanks to the chiller's longer lifetime, increased reliability, and improved maintenance efficiency
- › Enhance energy efficiency up to +20% ESEER by manufacturer pre-engineered upgrade

Benefits for budget and risk management

- › No chiller removal
- › No water pipe work
- › No electrical modifications
- › Low logistic expenses (transport, crantage, permissions ...)
- › Quick delivery
- › Government-sponsored subsidies may be available

Lower GWP refrigerants

With ever reducing F-Gas quota targets, new equipment can be supplied with low GWP refrigerants. Options for Retrofit to lower GWP solutions are also feasible to reduce potential long term maintenance costs.

- Soft starter
- Inverter



Controller box upgrade



Compressor upgrade



* EU directive: Regulation (EC) No.2037/2000



'If equipment is more than 10 years old, it is likely not running as efficiently as it could'

AHU Refurbishment

AHU refurbishment offers a cost effective, streamlined solution to improve the performance of existing AHUs and aid with compliance to the latest HVAC regulations. Our engineers at Daikin Applied UK can refurbish ANY BRAND of air handling unit.

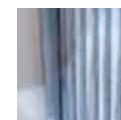
By refurbishing your AHU, you could increase the life expectancy of the system by a further **10-15 years**.

What services can we offer?



Fan upgrades to EC fan arrays

- › Benefits - Higher efficiencies, significant energy and CO2 savings, additional redundancy and easy maintenance.



Filters

- › Update from BS EN 779 to ISO 16890 means more effective filter solutions to the market.
- › Benefits - Significant impact on IAQ and system pressure drop.



Coil replacement where damaged or worn

- › Benefits - Re-establish optimal performance. DX coils can offer significant cost savings. Over-time, set point parameters can change which can require the implementation of new coils.



Damper repair or replacement

- › Benefits - airflow set-points are re-established at the lowest pressure drop.



Panel replacement where damaged

- › Benefits - Improve casing leakage and thermal performance and help align to the latest specifications such as HTM-03-01 with the requirements for BS EN 1886 T2/TB2 and Euroclass A insulation.



Other

- › Site surveys of controls often highlight areas where control set-up is sub-optimal for desired performance.
- › We can offer individual component or full system upgrades and re-commissioning.
- › This can also reduce overall energy consumption, performance.

Benefits

- › Improved efficiency
- › Energy savings
- › Reduced CO2
- › Improved IAQ
- › Maintainability
- › Extended lifecycle
- › Redundancy
- › Compliance to regulations
- › Low upfront cost

Day-to-day reliability and efficiency

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

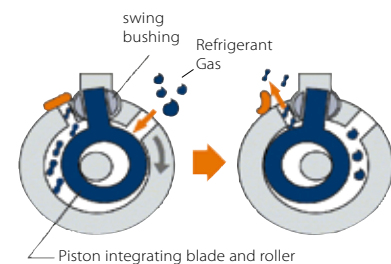
Inhouse development and manufacturing of compressors

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.

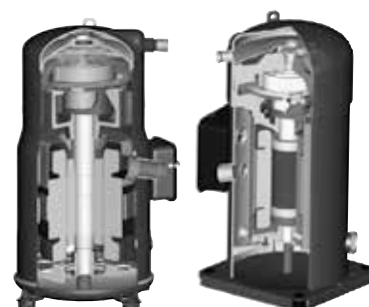


Scroll compressor for controlled capacity

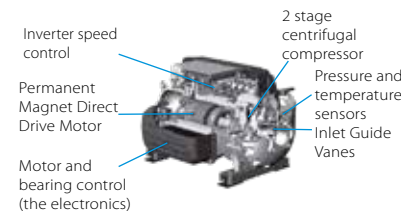
Being compact, the Daikin scroll compressor is used with R-407C and R-410A to provide constant reliability and high efficiency throughout its service life. Designed for small and medium capacities, the scroll compressors are used with air cooled and water cooled chillers.

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

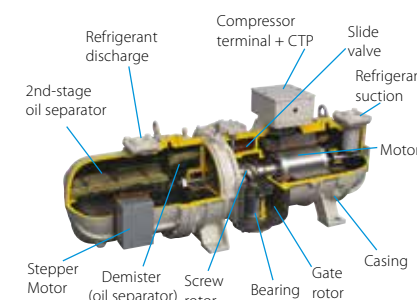


The innovative frictionless centrifugal compressor has an integrated VFD, as well as magnetic bearings, and delivers high levels of unit efficiency and reliability. The compressor's only moving part - the rotor shaft and impellers - are powered by the permanent magnetic direct-drive motor and kept levitated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



The single-screw stepless compressor for high capacity

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



Characteristics:

- › Optimal performance through stepless capacity control chilled water temperatures. The unit capacity is infinitely variable from 30 - 100% on single circuit units and 15 - 100 % on dual circuit units.
- › Compact, simple yet robust construction.
- › Using a main single screw and two gate rotors, axial and radial forces are balanced, thanks to the symmetrical compression guaranteeing low bearing loads.
- › Gate rotors made of polymer material result in closer tolerances with the main screw and reduced friction greatly improves compressor efficiency and lifetime.
- › No oil pump necessary - lubrication based on the differential pressure principle.
- › Easy access to both compressor and safety devices.
- › Star-Delta starter with low starting current as standard.



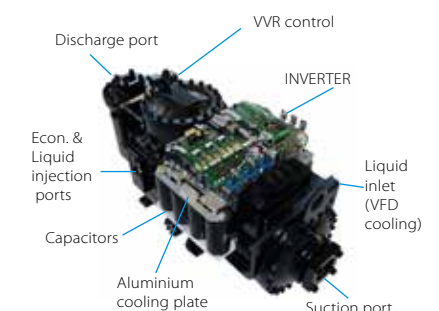
Screw compressor with integrated inverter

Characteristics:

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

Main benefits:

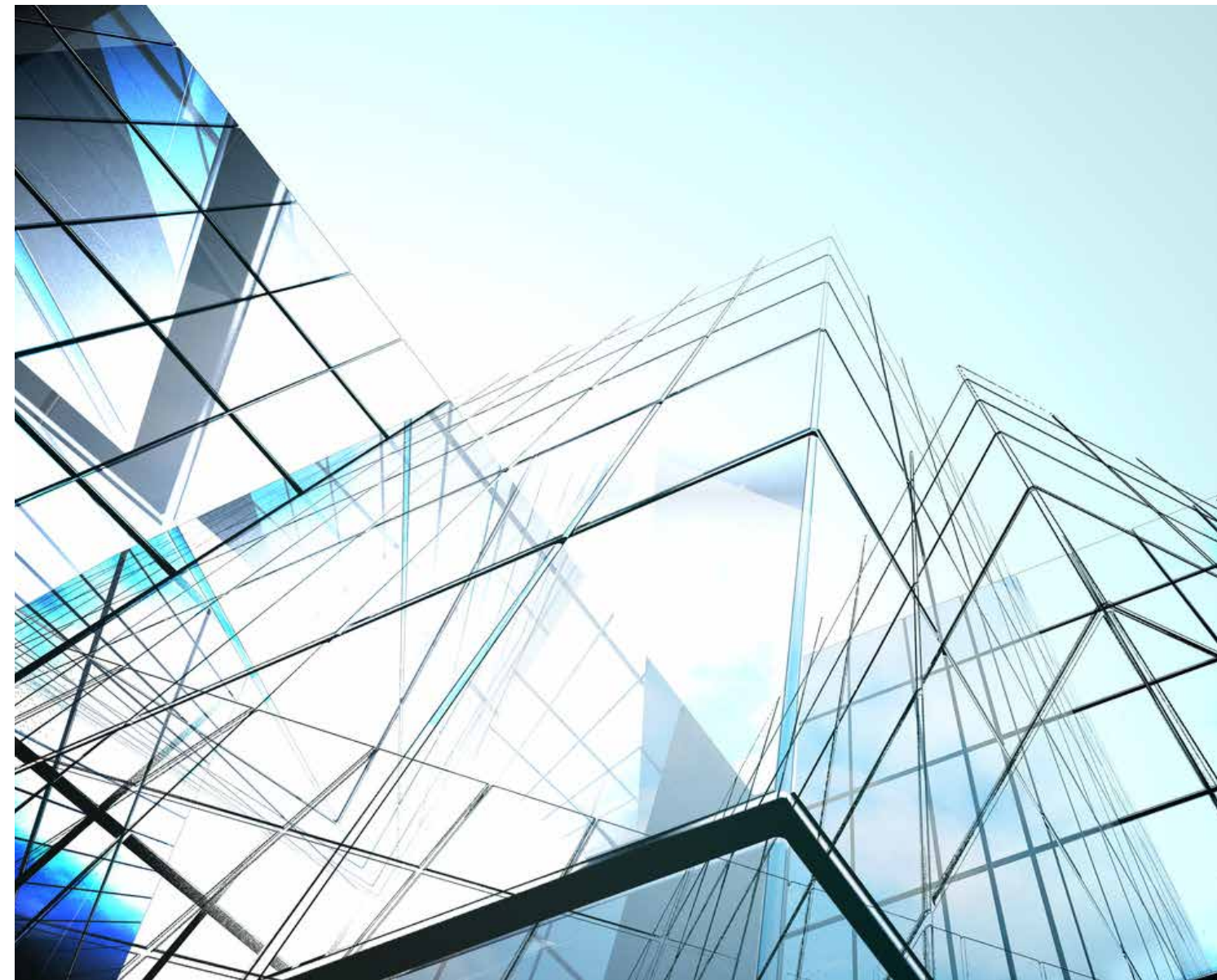
- › Better ESEER & EER values
- › 30% more compact than single-screw compressor
- › Rapid payback time
- › Silent operations
- › Optimal comfort levels



What's new in

2023

NEW



COMING
SOON



Air Cooled VFD Screw Chillers

NEW

- › 4 efficiency tiers available in 3 sound configurations for max flexibility
- › Available with 3 refrigerants: R1234ze, R513A, R134a
- › Single and dual circuit
- › Compact footprint
- › New performance monitoring option
- › New Daikin mobile App
- › Suitable for Data Center application thanks to the:
 - New hydronic free cooling version available
 - Extended operating range with chilled water up to 30 °C
 - New rapid re-start option

COMING
SOON



Air Cooled Scroll Chillers

NEW

- › Extended capacity range up to **1.012 kW cooling capacity** at nominal conditions
- › Improved full load efficiency
- › Silver and Gold efficiency versions combinable with standard or reduced noise execution
- › Standard unit operating down to 5°C ambient without fan speed control
- › New performance monitoring option
- › New Daikin mobile App
- › Suitable for Data Center application thanks to the:
 - New hydronic free cooling version available
 - Extended operating range with chilled water up to 30 °C
 - New rapid re-start option



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.

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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.



HOSPITAL APPLICATION



PHARMACEUTICAL APPLICATION



DATA CENTER APPLICATION



AIR COOLED CHILLER INSTALLATION



OFFICE APPLICATION



HOTEL APPLICATION



AIR COOLED CHILLER INSTALLATION

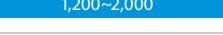
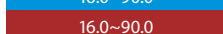
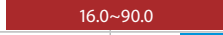
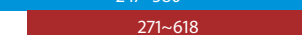
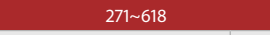
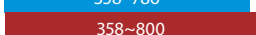


INDUSTRIAL APPLICATION



PROCESS COOLING APPLICATION

Products overview

		Refrigerant type *	Refrigerant circuits			Compressor			Water heat exchanger		Efficiency version			Sound version								
																						
Cooling only																	0	17.5	200	500	1,000	2,000
EWAA-DV3P		R-32	1						 BPHE								 4.5~5.4					
EWAA-DV3P-H/ DW1P-H		R-32	1						 BPHE								 11.0~14.0					
EWAT~CZN/P/H		R-32	1-2						 BPHE								 16.0~90.0					
EWAD~CF		R-134a	2																 602~1,555			
EWAD-TZ B		R-134a	1-2																 170~1,100			
EWAH-TZ B		R-1234ze(E)	1-2																 170~620			
EWAD-TZ C		R-134a	1-2																	 1,200~2,000		
EWAH-TZ C		R-1234ze(E)	1-2																	 670~1,600		
EWAD-T-		R-134a	2																 291~1,456			
EWAT-B		R-32	1-2																 76.3~701			
Heat pump																	0	17.5	200	500	1,000	2,000
EWYA-DV3P		R-32	1						 BPHE								 4.5~5.4  4.6~7.8					
EWYA-DV3P-H/ DW1P-H		R-32	1						 BPHE								 9.0~14.0  9.0~16.0					
EWYT~CZN/P/H	 NEW	R-32	1-2						 BPHE								 16.0~90.0  16.0~90.0					
EWYT-B		R-32	1-2						 BPHE										 75.0~610  80.0~650			
EWYT-CZl EWYT-CZO		R-32	1-2						 BPHE								 21.1~64.4  19.9~61.8					
EWYD~BZ		R-134a	2-3															 247~580  271~618				
Condensing unit																	0	17.5	200	500	1,000	2,000
ERAD~E-		R-134a	1															 116~488				
Multipurpose unit																	0	17.5	200	500	1,000	2,000
EWYD-4Z		R-134a	2																 358~786  358~800			

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

Products overview

		Refrigerant Type *	Refrigerant circuits		Compressor			Water heat exchanger			Efficiency version			Sound version							
								Plate **	Single pass shell and tube	Shell and tube	Standard	High	Premium		Standard						
Water cooled chillers (Cooling only and Heat Pump)															0	17.5	200	500	1,000	2,000	21,800
EWWQ-KCW1N		R-410a	1-2		●			●			●			●		12~183	15~209				
EWHQ~G-		R-410A	1		●			●			●			●		87.3~352	118~462				
EWWQ~G-		R-410A	1		●			●			●			●		93.7~370	118~468				
EWWQ~L-		R-410A	2		●			●			●			●		187~400	234~400				
EWWD~J-		R-134a	1			●		●			●			●		120~284	148~354				
EWWH-J-		R1234ze	1			●		●			●			●		89~200	107~245				
EWWS-J-		R-513A	1			●		●			●			●		115~272	142~388				
EWWD-VZ		R-134a	1-2	●		●				● Flooded	●	●	●	●				449~2,100			
EWWH-VZ		R-1234ze(E)	1-2	●		●				● Flooded	●	●	●	●				329 - 1,540			
EWWS-VZ		R-513A	1-2	●		●				● Flooded	●	●	●	●				440~2,050			
Condenserless chillers															0	17.5	200	500	1,000	2,000	21,800
EWLQ-KCW1N		R-410A	1-2		●			● BPHE			●			●		13.25~61					
EWLQ~G-		R-410A	1		●			●			●			●		86.5~346					
EWLQ~L-		R-410A	2		●			●			●			●		173~676					
EWLD~J-		R-134a	1			●		●			●			●		109~264					
EWLD~I-		R-134a	1-2-3			●			●		●			●				315~1,433			
EWLH-J-		R1234ze	1			●		●			●			●		84~193					
EWLS-J-		R-513A	1			●		●			●			●		111~268					
Water cooled centrifugal chillers															0	17.5	200	500	1,000	2,000	21,800
EWWD-DZ		R-134a	1				●			●		●		●				320 - 1,478			
EWWH-DZ		R-1234ze(E)	1				●			●		●		●				227 - 945			
DWSC C / DWDC C 		R-134a, R-513A and R-1234ze	1	optional			●			● Flooded		●		●				1,050~4,500	2,100~9,000		
6,000 RT CENTRIFUGAL		R-134a	2 per chiller				●		● Flooded			●		●					[2 x 10,900]		21,800

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



Air cooled mini inverter chiller

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



Cooling Only				EWAA-DV3P	004	006	008
Cooling capacity	Nom.			kW	4.86 (1) / 4.52 (2)	5.83 (1) / 5.09 (2)	6.18 (1) / 5.44 (2)
Power input	Cooling	Nom.		kW	0.820 (1) / 1.36 (2)	1.08 (1) / 1.55 (2)	1.19 (1) / 1.73 (2)
Capacity control	Method				Variable (inverter)		
EER					5.91 (1) / 3.32 (2)	5.40 (1) / 3.28 (2)	5.19 (1) / 3.14 (2)
Dimensions	Unit	Height		mm	770		
		Width		mm	1,250		
		Depth		mm	362		
Weight	Unit			kg	88.0		
Water heat exchanger	Type				Plate heat exchanger		
	Water volume			l	1		
Compressor	Type				Hermetically sealed swing compressor		
	Quantity				1		
Fan	Type				Propeller fan		
	Quantity				1		
Sound power level	Cooling	Nom.		dB(A)	61.0 (1)	62.0 (1)	
Sound pressure level	Cooling	Nom.		dB(A)	48.0 (1)	49.0 (1)	50.0 (1)
Operation range	Air side	Cooling	Min.~Max.	°CDB	10 (3)~43		
	Water side	Cooling	Min.~Max.	°CDB	5 (3)~22		
Refrigerant	Type/GWP				R-32/675.0		
	Charge			kg	1.35		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /230 +/-10%		

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

Air cooled mini inverter 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
- › Daikin swing compressor
- › New casing for the outdoor units
- › Separate MMI-2 controller for indoor installation



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		5.71		5.59	
Cooling capacity	Nom.			kW	11.6 (1) / 11.5 (2)		12.8 (1) / 12.7 (2)		14.0 (1) / 15.3 (2)	
Power input	Cooling	Nom.		kW	3.56 (1) / 2.17 (2)		4.06 (1) / 2.51 (2)		4.58 (1) / 3.24 (2)	
Capacity control	Method				Variable (inverter)					
EER					3.26 (1) / 5.31 (2)		3.16 (1) / 5.04 (2)		3.06 (1) / 4.74 (2)	
Dimensions	Unit	Height		mm	870					
		Width		mm	1,380					
		Depth		mm	460					
Weight	Unit			kg	147					
Water heat exchanger	Type				Plate heat exchanger					
	Water volume			l	2					
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler					
Compressor	Type				Hermetically sealed swing inverter compressor					
	Quantity				1					
Fan	Type				Propeller fan					
	Quantity				1					
	Air flow rate			Cooling Nom. m³/min	70		85			
Sound power level	Cooling	Nom.		dBA	67.0		69.0			
Sound pressure level	Cooling	Nom.		dBA	47.7		50.8		51.0	
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43					
	Water side	Cooling	Min.~Max.	°CDB	5~22					
Refrigerant	Type/GWP				R-32/675.0					
	Control				Electronic expansion valve					
	Circuits Quantity				1					
Refrigerant charge	Per circuit			kg	3.80					
	Per circuit			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

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
- › Daikin swing compressor
- › New casing for the outdoor units
- › Separate MMI-2 controller for indoor installation



Cooling Only				EWAA	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		5.71		5.59	
Cooling capacity	Nom.			kW	11.6 (1) / 11.5 (2)		12.8 (1) / 12.7 (2)		14.0 (1) / 15.3 (2)	
Power input	Cooling	Nom.		kW	3.56 (1) / 2.17 (2)		4.06 (1) / 2.51 (2)		4.58 (1) / 3.24 (2)	
Capacity control	Method				Variable (inverter)					
EER					3.26 (1) / 5.31 (2)		3.16 (1) / 5.04 (2)		3.06 (1) / 4.74 (2)	
Dimensions	Unit	Height		mm	870					
		Width		mm	1,380					
		Depth		mm	460					
Weight	Unit			kg	147					
Water heat exchanger	Type				Plate heat exchanger					
	Water volume			l	2					
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler					
Compressor	Type				Hermetically sealed swing inverter compressor					
	Quantity				1					
Fan	Type				Propeller fan					
	Quantity				1					
	Air flow rate			Cooling	Nom.	m³/min	70		85	
	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					
	Per circuit			TCO2Eq	2.6					
Unit	Running current	Max		A	30.8					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230					

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

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
- › Daikin swing compressor
- › New casing for the outdoor units
- › Separate MMI-2 controller for indoor installation



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		5.71		5.59	
Cooling capacity	Nom.			kW	11.6 (1) / 11.5 (2)		12.8 (1) / 12.7 (2)		14.0 (1) / 15.3 (2)	
Power input	Cooling	Nom.		kW	3.56 (1) / 2.17 (2)		4.06 (1) / 2.51 (2)		4.58 (1) / 3.24 (2)	
Capacity control	Method				Variable (inverter)					
EER					3.26 (1) / 5.31 (2)		3.16 (1) / 5.04 (2)		3.06 (1) / 4.74 (2)	
Dimensions	Unit	Height		mm	870					
		Width		mm	1,380					
		Depth		mm	460					
Weight	Unit			kg	147					
Water heat exchanger	Type				Plate heat exchanger					
	Water volume			l	2					
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler					
Compressor	Type				Hermetically sealed swing inverter compressor					
	Quantity				1					
Fan	Type				Propeller fan					
	Quantity				1					
	Air flow rate			Cooling Nom. m³/min	70		85			
Sound power level	Cooling	Nom.		dBa	67.0		69.0			
Sound pressure level	Cooling	Nom.		dBa	47.7		50.8		51.0	
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43					
	Water side	Cooling	Min.~Max.	°CDB	5~22					
Refrigerant	Type/GWP				R-32/675.0					
	Control				Electronic expansion valve					
	Circuits Quantity				1					
Refrigerant charge	Per circuit			kg	3.80					
	Per circuit			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

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



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



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



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



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



Heating & Cooling				EWYT	016CZN-A1	021CZN-A1	025CZN-A1	032CZN-A1	040CZN-A1	040CZN-A2	050CZN-A2	064CZN-A2	090CZN-A2
Space cooling	A Condition	PdC		kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
	35°C												
SEER				%	197		200	205	201	213	210	205	198
	ηs,c				5.00		5.06	5.21	5.09	5.41	5.33	5.21	5.03
 Space heating	Average climate water outlet 35°C	General	SCOP	Seasonal space heating eff. class	3.89	4.00	4.07	4.06	4.07	4.02	4.00	3.98	4.00
	A++												
Cooling capacity	Nom.			kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
Heating capacity	Nom.			kW	15.9	20.2	24.8	32.4	39.4	40.3	49.8	61.9	85.8
Power input	Cooling	Nom.		kW	5.50	6.60	8.50	10.3	13.4	13.2	17.0	21.8	31.0
	Heating	Nom.		kW	4.70	5.80	7.50	9.40	11.8	11.9	15.4	19.1	27.2
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.90	3.16	3.00	3.13	2.95	3.12	2.98	2.93	2.84
COP					3.41	3.46	3.33	3.45	3.33	3.38	3.24	3.23	3.16
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802				814				
Weight	Unit			kg	227	252	350	349	494	588	693		
	Operation weight			kg	228	254	353	352	500	594	701		
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5		8	
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
		Heating	Nom.	l/s	0.8	1.0	1.2	1.5	1.9		2.4	3.0	4.1
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa	19.6	10.6	15.4	19.1	27.1	9.4	13.8	20.4	19.1
	Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum							
Compressor	Type				Scroll compressor								
Fan	Quantity				1					2			
	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



Heating & Cooling				EWYT	016CZP-A1	021CZP-A1	025CZP-A1	032CZP-A1	040CZP-A1	040CZP-A2	050CZP-A2	064CZP-A2	090CZP-A2		
Space cooling	A Condition	PdC		kW	16.0	21.0	25.7	32.6	39.8	41.6	51.0	64.3	88.6		
	35°C														
ηs,c				209	213		225	211	228	216	211	204			
SEER				5.30	5.41		5.70	5.36	5.76	5.48	5.34	5.18			
	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			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			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

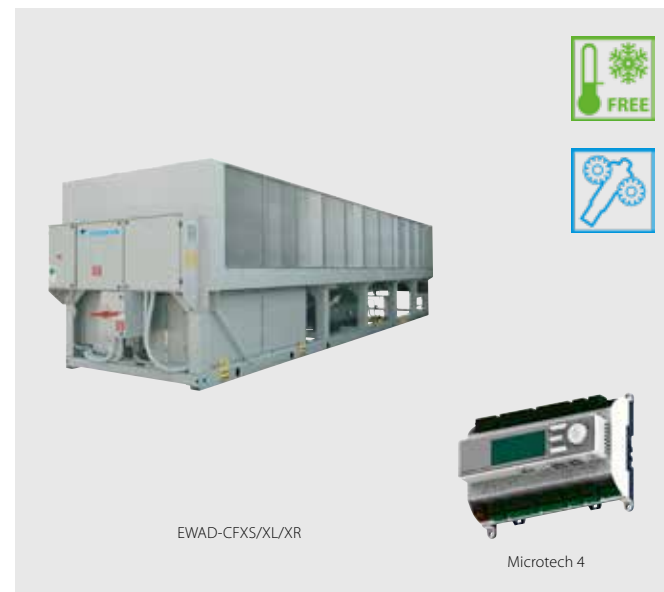
- › Inverter chiller
- › High part load efficiency for low running cost
- › Minimal starting currents
- › No buffertank required for standard applications
- › Daikin scroll compressor
- › Wide operation range
- › Integrated hydronic module on request



EWAD-CFXS/XL

**Air cooled screw chiller
with free cooling,
high efficiency,
standard/low sound**

- › Free cooling chiller for space cooling and industrial processes
- › Stepless single-screw compressor
- › Greater energy savings and reduced CO₂ emissions during cold season
- › Wide operating range: NEW OPTION 187 (high evaporator leaving temperature up to 25°C)
- › MicroTech 4 controller with superior control logic and easy interface



Heating & Cooling				EWTY	016CZH-A1	021CZH-A1	025CZH-A1	032CZH-A1	040CZH-A1	040CZH-A2	050CZH-A2	064CZH-A2	090CZH-A2
Space cooling	A Condition 35°C	Pdc		kW	16.1	21.1	25.8	32.7	39.9	41.7	51.1	64.3	88.7
	ηs,c			%	205	210	211	224	210	227	213	208	202
SEER					5.20	5.32	5.34	5.67	5.34	5.76	5.40	5.27	5.12
Space heating	Average climate water outlet 35°C	General	SCOP	Seasonal space heating eff. class	3.88	4.06	4.08	4.11	4.13	4.14	4.09	3.94	4.00
					A++								
Cooling capacity	Nom.			kW	16.2	21.2	25.9	32.8	40.1	41.8	51.3	64.5	88.9
Heating capacity	Nom.			kW	15.5	19.8	24.5	32.0	38.9	39.9	49.4	61.3	85.2
Power input	Cooling	Nom.		kW	5.60	6.70	8.70	10.4	13.5	13.3	17.0	22.0	31.2
	Heating	Nom.		kW	4.80	6.00	7.60	9.50	11.9	12.0	15.4	19.3	27.4
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.89	3.15	2.98	3.14	2.97	3.15	3.02	2.93	2.85
COP					3.24	3.31	3.22	3.37	3.28	3.33	3.20	3.17	3.12
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	261	286		393	392	546		644	749
	Operation weight			kg	262	288		396	395	551		650	757
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
		Heating	Nom.	l/s	0.8	1.0	1.2	1.5	1.9		2.4	3.0	4.1
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa	19.6	10.6	15.4	19.1	27.1	9.4	13.8	20.4	19.1
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0		78.0	79.0	80.0		81.0	83.0	85.0
Sound pressure level	Cooling	Nom.		dBA	59.7		61.7	62.2	63.2	62.8	63.8	65.4	67.0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

Cooling only				EWAD-CFXS/XL		640	770	850	900	C10	C11	C12	C13	C14	C15	C16
Cooling capacity	Nom.			kW	640 (1) / 415 (2)	772 (1) / 510 (2)	852 (1) / 583 (2)	902 (1) / 612 (2)	1,027 (1) / 701 (2)	1,089 (1) / 734 (2)	1,269 (1) / 902 (2)	1,349 (1) / 957 (2)	1,435 (1) / 963 (2)	1,493 (1) / 1,013 (2)	1,555 (1) / 1,039 (2)	
Power input	Cooling	Nom.		kW	257 (1) / 53.7 (2)	272 (1) / 62.0 (2)	293 (1) / 64.7 (2)	324 (1) / 69.8 (2)	360 (1) / 75.7 (2)	399 (1) / 83.4 (2)	397 (1) / 86.4 (2)	439 (1) / 92.8 (2)	454 (1) / 101 (2)	492 (1) / 109 (2)	530 (1) / 115 (2)	
Capacity control	Method				Stepless											
	Minimum capacity			%	12.5											
EER					2.49 (1) / 11.91 (2)	2.84 (1) / 12.44 (2)	2.90 (1) / 13.17 (2)	2.78 (1) / 12.93 (2)	2.85 (1) / 13.56 (2)	2.73 (1) / 13.05 (2)	3.19 (1) / 14.68 (2)	3.08 (1) / 14.55 (2)	3.16 (1) / 14.21 (2)	3.04 (1) / 13.72 (2)	2.93 (1) / 13.50 (2)	
IPLV					3.86	4.03	4.10	4.05	4.00	3.95	4.36	4.25	4.36	4.35	4.26	
Dimensions	Unit	Height		mm	2,565											
		Width		mm	2,480											
		Length		mm	6,300	7,200	8,100	9,000	10,420	10,800	12,540	12,620	12,670			
Weight (XS)	Unit			kg	7,760	8,340	8,900	10,160	10,420	11,900	12,540	12,620	12,670			
	Operation weight			kg	8,515	9,100	9,705	11,169	11,429	13,276	14,516	14,596	14,646			
Weight (XL)	Unit			kg	8,050	8,620	9,190	10,450	10,710	12,190	12,830	12,910	12,960			
	Operation weight			kg	8,795	9,390	9,995	11,459	11,719	13,566	14,806	14,886	14,936			
Water heat exchanger	Type				Single pass shell & tube											
	Water flow rate	Cooling	Nom.	l/s	27.8 (1) / 27.8 (2)	33.5 (1) / 33.5 (2)	37.0 (1) / 37.0 (2)	39.2 (1) / 39.2 (2)	44.6 (1) / 44.6 (2)	47.3 (1) / 47.3 (2)	55.1 (1) / 55.1 (2)	58.6 (1) / 58.6 (2)	62.4 (1) / 62.4 (2)	64.9 (1) / 64.9 (2)	67.6 (1) / 67.6 (2)	
	Water pressure drop	Cooling	Nom.	kPa	85 (1) / 128 (2)	105 (1) / 172 (2)	90 (1) / 178 (2)	101 (1) / 198 (2)	111 (1) / 245 (2)	124 (1) / 272 (2)	98 (1) / 232 (2)	110 (1) / 259 (2)	139 (1) / 305 (2)	150 (1) / 328 (2)	162 (1) / 354 (2)	
	Water volume			l	741	771	808	1,012	1,372	1,965						
Air heat exchanger	Type				High efficiency fin and tube type											
Compressor	Type				Asymmetric single screw compressor											
	Quantity				2											
Fan	Type				Direct propeller											
	Air flow rate	Nom.		l/s	50,368	60,441	70,515	80,588	95,253							
Sound power level (XS)	Cooling	Nom.		dBA	100	101			102			103				
Sound power level (XL)	Cooling	Nom.		dBA	96	97			98			99				
Sound pressure level (XS)	Cooling	Nom.		dBA	79	80			81			80				
Sound pressure level (XL)	Cooling	Nom.		dBA	76	77										
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20~45											
	Water side	Cooling	Min.~Max.	°CDB	-8~25											
Refrigerant	Type/GWP				R-134a/1,430											
	Circuits	Quantity			2											
Refrigerant charge	kg/TCO2Eq				64.0/91.5	73.0/104.4	81.0/115.8	91.0/130.1	107.0/153.0	112.5/160.9	124.0/177.3					
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				219.1mm				273mm			
Unit	Starting current	Max		A	605	619	658	924	971	1,030			1,073		1,086	
	Running current	Cooling	Nom.	A	404	430	467	515	568	628	636	701	720	773	825	
	Max			A	476	510	561	605	672	731	811	875	929	982		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

(1) Cooling: entering evaporator water temp. 16°C; leaving evaporator water temp. 10°C; ambient air temp. 35°C; full load operation.

(2) Data is calculated at ambient air temperature 5°C, inlet water temperature 16°C.

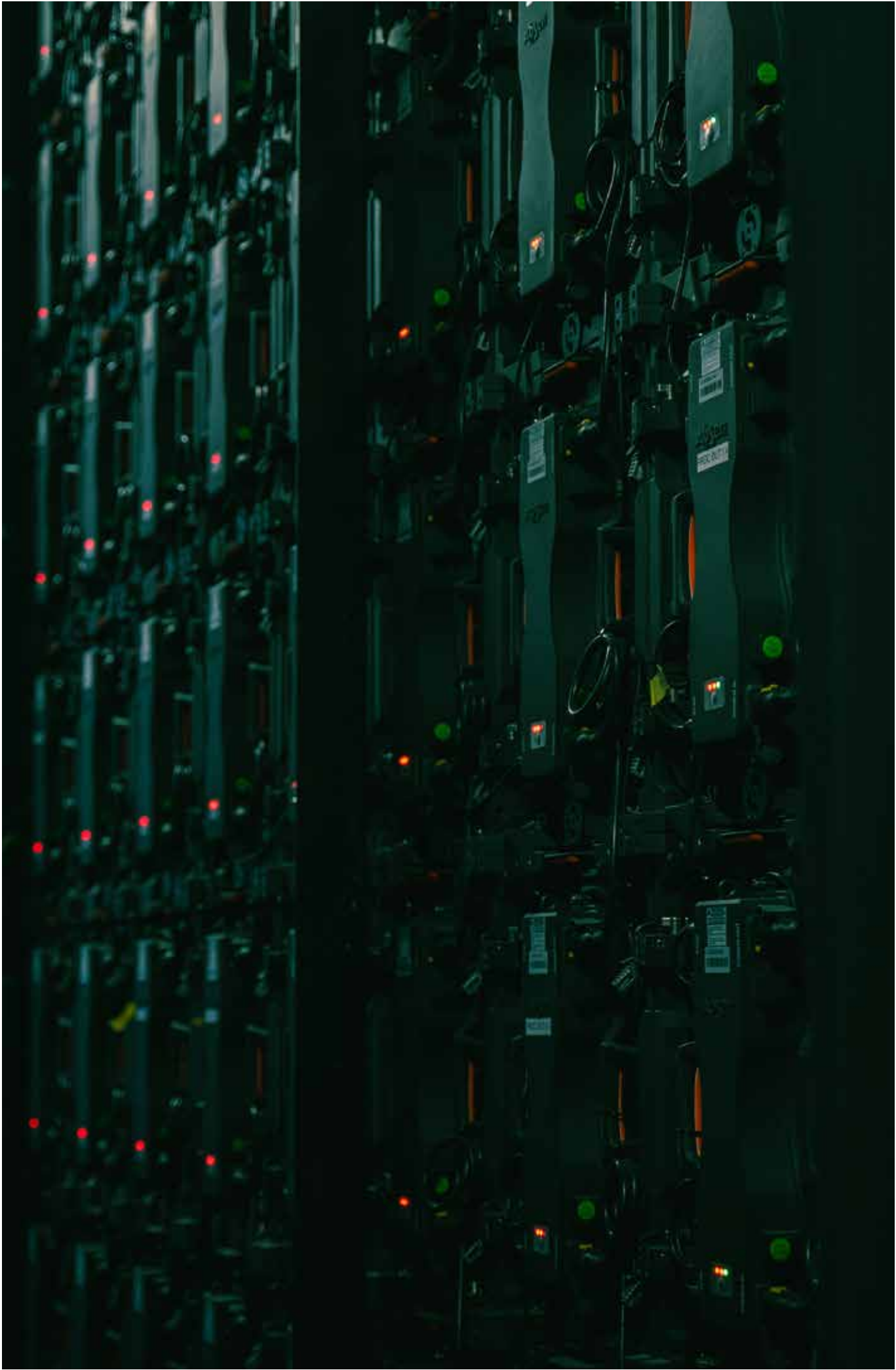
Air cooled screw chiller
with free cooling,
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- › Stepless single-screw compressor
- › Greater energy savings and reduced CO₂ emissions during cold season
- › Wide operating range: NEW OPTION 187 (high evaporator leaving temperature up to 25°C)
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Cooling Only				EWAD-CFXR	600	740	820	870	980	C10	C11	C12	C13	C14	C15	
Cooling capacity	Nom.			kW	602 (1) / 374 (2)	739 (1) / 468 (2)	821 (1) / 539 (2)	866 (1) / 562 (2)	981 (1) / 644 (2)	1,034 (1) / 670 (2)	1,229 (1) / 825 (2)	1,302 (1) / 866 (2)	1,374 (1) / 889 (2)	1,424 (1) / 909 (2)	1,476 (1) / 929 (2)	
Power input	Cooling	Nom.		kW	263 (1) / 46.6 (2)	278 (1) / 56.2 (2)	299 (1) / 58.5 (2)	334 (1) / 63.1 (2)	368 (1) / 68.5 (2)	412 (1) / 74.4 (2)	403 (1) / 80.0 (2)	450 (1) / 87.5 (2)	466 (1) / 93.4 (2)	511 (1) / 103 (2)	556 (1) / 109 (2)	
Capacity control	Method				Stepless											
	Minimum capacity			%	12.5											
EER					2.29 (1) / 12.91 (2)	2.66 (1) / 13.17 (2)	2.75 (1) / 14.04 (2)	2.59 (1) / 13.71 (2)	2.67 (1) / 14.33 (2)	2.51 (1) / 13.89 (2)	3.05 (1) / 15.36 (2)	2.90 (1) / 14.87 (2)	2.95 (1) / 14.7 (2)	2.79 (1) / 13.85 (2)	2.66 (1) / 13.56 (2)	
IPLV					4.09	4.15	4.16	4.20	4.10	4.08	4.42	4.37	4.42		4.28	
Dimensions	Unit	Height		mm	2,565											
		Width		mm	2,480											
		Depth		mm	6,300	7,200	8,100		9,000		10,800					
Weight	Unit			kg	8,050	8,620	9,190		10,450	10,710	12,190		12,830	12,910	12,960	
	Operation weight			kg	8,795	9,390	9,995		11,459	11,719	13,566		14,806	14,886	14,936	
Water heat exchanger	Type				Single pass shell & tube											
	Water flow rate	Cooling	Nom.	l/s	26.2 (1) / 26.2 (2)	32.1 (1) / 32.1 (2)	35.7 (1) / 35.7 (2)	37.6 (1) / 37.6 (2)	42.6 (1) / 42.6 (2)	44.9 (1) / 44.9 (2)	53.4 (1) / 53.4 (2)	56.6 (1) / 56.6 (2)	59.7 (1) / 59.7 (2)	61.9 (1) / 61.9 (2)	64.1 (1) / 64.1 (2)	
	Water pressure drop	Cooling	Nom.	kPa	76 (1) / 115 (2)	97 (1) / 159 (2)	84 (1) / 167 (2)	93 (1) / 184 (2)	102 (1) / 225 (2)	113 (1) / 248 (2)	92 (1) / 219 (2)	103 (1) / 243 (2)	128 (1) / 282 (2)	137 (1) / 301 (2)	146 (1) / 321 (2)	
	Water volume			l	741	771	808		1,012		1,372		1,965			
Air heat exchanger	Type				High efficiency fin and tube type											
Compressor	Type				Asymm single screw											
	Quantity				2											
Fan	Type				Direct propeller											
	Quantity				10	12	14		16		20					
	Air flow rate Nom.			l/s	38,935	46,722	54,508		62,295		73,011					
	Speed			rpm	715											
Sound power level	Cooling	Nom.		dBA	92				94				95			
Sound pressure level	Cooling	Nom.		dBA	71	72				73		72			73	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20~45											
	Water side	Cooling	Min.~Max.	°CDB	-8~25											
Refrigerant	Type/GWP				R-134a/1,430											
	Circuits	Quantity			2											
Refrigerant charge	Per circuit			kg	64.0	73.0	81.0		91.0		107.0		112.5	124.0		
	Per circuit			TCO2eq	91.5	104.4	115.8		130.1		153.0		160.9	177.3		
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				219.1mm				273mm			
Unit	Starting current	Max		A	598	611	648		912	960	1,016			1,059		1,072
	Running current	Cooling	Nom.	A	411	439	473	526	580	647	645	717	738	800	862	
	current	Max		A	462	493	542	585	649	708	783	847		901	954	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

(1) Cooling: entering evaporator water temp. 16°C; leaving evaporator water temp. 10°C; ambient air temp. 35°C; full load operation.
(2) Data is calculated at ambient air temperature 5°C, inlet water temperature 16°C.



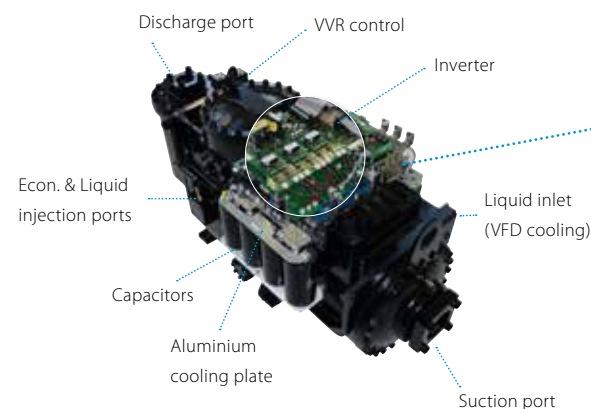
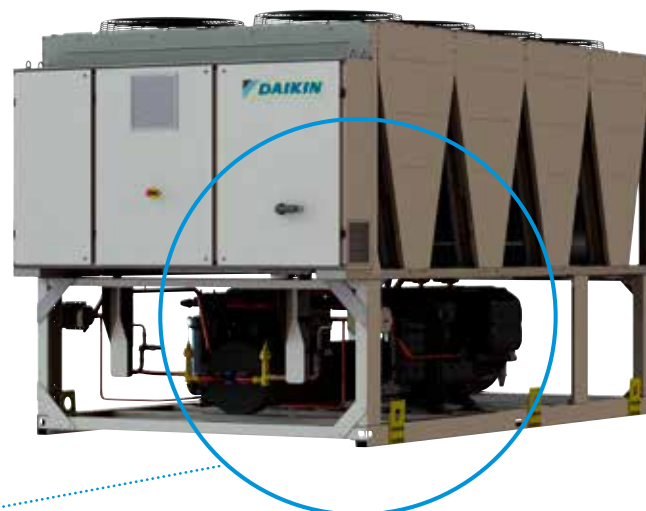


EWA(H)(D)-TZB/C screw inverter chiller High efficiency in comfort and process cooling

Over 1,000 sites around the world with screw chillers installed is demonstrating that we will never stop developing the most advanced technology with highest quality level to offer the best chiller experience to our customers.

EWA(H)(D)-TZB/C at a glance

- › Full inverter air cooled chiller
- › Capacity range from 190kW to 2,000kW for series with R134a
- › Capacity range from 170kW to 1,500kW for series with R1234ze
- › Daikin single screw compressor with integrated inverter
- › Best efficiency at full load and part load conditions



Check on
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› Daikin EWAD-TZB
Screw Inverter Chiller



Web-based chiller selection software

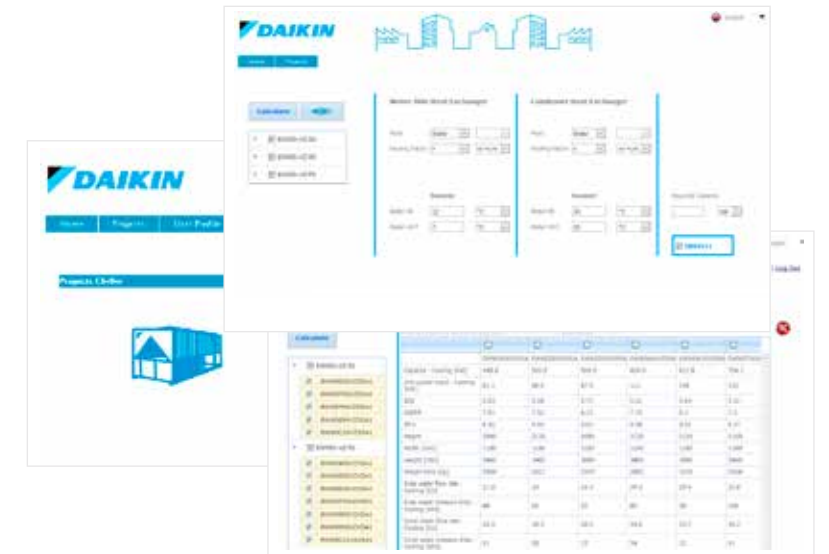
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Why choose EWA(H)(D)-TZB/C?

High efficiencies both at full load and part load:

- › Daikin compressor with in-built inverter for optimized efficiency
- › In-house developed software with dynamic condensing pressure management and innovative economizer control logic

Rapid return on investment

- › Payback of three years, compared to a non-inverter unit for comfort cooling applications
- › Less than one year a for process cooling applications

Perfect comfort level

- › Infinitely variable load regulation
- › Precise leaving water temperature control thanks to stepless regulation

Compact design

- › More compact heat exchanger with superior efficiencies
- › Reduced electrical panel dimensions thanks to the inverter compressor mounted

Lowest sound levels

- › Down to 87 dB(A) sound power at full load and even lower at part load thanks to fans and compressors variable speed
- › Quiet compressor thanks to special acoustic executions
- › Unique Daikin fans design with reduced noise impact and vibrations

Unrivalled and proven reliability

- › Extensive testing of chillers and components in laboratories, Daikin factories and selected job sites - even at extreme working conditions
- › Reduced energy demand without compromising on reliability and performance

Extensive option list

More than 60 different options are available to fit the EWA(H)(D)-TZB/C chiller to fit to your requirements:

- › Rapid restart after power failure
- › Variable speed water pumps to optimise the working efficiency
- › Total heat recovery: 80 to 85% of the total heat rejection of the chiller can be recovered
- › Partial heat recovery: 15 to 20% of the total heat rejection of the chiller can be recovered
- › Refrigerant leak detection



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.

Air cooled screw inverter chiller, standard efficiency, standard/low sound

- › Optimized energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Compact design for small footprint and minimized installation space
- › Low operating sound levels are achieved by the latest compressor and fan design
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Cooling Only				EWAD-TZSSB/SLB				160	190	240	270	300	360	380	455	500	570	610	660	700	820	900	990	C10	C11																			
Space cooling		A Condition 35°C Pdc		kW	169.1	200.88	235.29	268.82	305.99	351.41	394.74	455.64	499.81	569.52	612.22	660.72	700.94	815.92	889.95	987.19	1,045.39	1,103.99																						
		ηs,c		%	168.2	172.6	169.4	175.4	177	183	172.6	171.4	175	180.2	189.8	182.6	185.4	197.4	194.2	200.6	200.2	200.6																						
SEER					4.28	4.39	4.31	4.46	4.5	4.65	4.39	4.63	4.65	4.58	4.82	4.64	4.71	5.01	4.93	5.09	5.08	5.09																						
Cooling capacity		Nom.		kW	169.1	200.9	235.3	268.8	306	351.4	394.7	455.6	499.8	569.5	612.2	660.7	700.9	816	890	987	1,045	1,104																						
Power input		Cooling Nom.		kW	56.48	69.9	82.99	89.94	108.6	118	139.4	163.8	174.6	198.1	217.6	239	249.1	257.9	296.1	321.3	346.4	366.2																						
Capacity control		Minimum capacity		%	37	31	34	29	25	24	16	17	16	14	13	12				10																								
EER					2.995	2.874	2.835	2.989	2.817	2.954	2.832	2.783	2.862	2.876	2.813	2.764	2.813	3.164	3.005	3.072	3.017	3.015																						
ESEER					4.37	4.46	4.3	4.4	4.42	4.5	4.46	4.44	4.49	4.54	4.59	4.63	4.7	4.43		4.44		4.51																						
IPLV					5.3	5.27	5.04	5.19	5.37	5.53	5.34	5.3	5.46	5.64	5.62	5.7	5.29	5.26	5.25	5.26	5.27																							
Dimensions		Unit	Height	mm																																								
			Width	mm																																								
			Depth	mm																																								
					2,330				3,230				4,130				5,030				5,887				6,786				6,877				7,787				8,687				9,587			
Weight (SSB)		Unit		kg	2,066	2,091	2,149	2,375	2,422	2,771	4,044	4,060	4,317	4,603	4,780	4,804	5,074	6,282	6,382	6,777	7,132	7,410																						
		Operation weight		kg	2,086	2,117	2,187	2,401	2,460	2,821	4,202	4,224	4,475	4,761	5,050	5,059	5,329	6,532	6,632	7,027	7,382	7,660																						
Weight (SLB)		Unit		kg	2,081	2,106	2,164	2,390	2,437	2,786	4,074	4,090	4,347	4,633	4,810	4,834	5,104	6,282	6,382	6,777	7,132	7,410																						
		Operation weight		kg	2,101	2,132	2,202	2,416	2,475	2,836	4,232	4,254	4,505	4,791	5,080	5,089	5,359	6,532	6,632	7,027	7,382	7,660																						
Water heat exchanger		Type		Plate heat exchanger																																								
		Water volume		l	2025	26.1	37.35	26.1	37.35	49.5	158	164	158	270	255	283		485		453																								
		Water flow rate	Cooling Nom.	l/s	8.1	9.6	11.2	12.9	14.6	16.8	18.9	21.8	23.9	27.3	29.3	31.6	33.5	39.1	42.6	47.2	50	52.8																						
		Water pressure drop	Cooling Nom.	kPa	25	19.3	15.4	32.6	25.2	25.9	32.4	44	55.7	38.8	32.3	36	52.6	36.9	42.2	46.6	37.3																							
Air heat exchanger		Type		Microchannel																																								
Compressor		Type		Driven vapour compression																																								
		Quantity		1										2																														
Fan		Type		Direct propeller																																								
		Quantity		4				6				8				10				12				14				16				18				20								
		Air flow rate Nom.		l/s	15,109				22,664				30,219				37,774				45,328				52,883				69,177				79,060				88,942				98,825			
		Speed		rpm	700																																							
Sound power level (SSB)		Cooling	Nom.	dBA	96				97				98				99				100				101				102				105				102				103			
Sound power level (SLB)		Cooling	Nom.	dBA	90	91				92				93				94				95				96				97				99				100						
Sound pressure level (SSB)		Cooling	Nom.	dBA	77				78				79				80				82				84								81											
Sound pressure level (SLB)		Cooling	Nom.	dBA	71	72				73				74				75				76				77								78										
Operation range		Air side	Cooling	Min.~Max.	°CDB								-18 ~50																				-18~45											
		Water side	Cooling	Min.~Max.	°CDB								-8~-18																				-15~20											
Refrigerant		Type/GWP		R-134a/1,430																																								
		Charge		kg	27	29	33	38	41	52	58	59	68	75	77	83	90	91	104	117	130																							
		Circuits Quantity		1										2																														
Refrigerant charge		Per circuit		TCO2Eq	38.6	41.5	47.2	54.3	58.6	74.4	41.5	42.2	48.6	53.6	55.1	59.3	64.4	65.1	74.4	83.7	93.0																							
Piping connections		Evaporator water inlet/outlet (OD)			3"				4"				5"				6"				168.3 mm				219.1mm																			
Unit		Running current	Cooling Nom.	A	102	123	188	177	188	200	246	372	366	361	377	396	414	429	501	528	563	597																						
		Max		A	130	149	160	187	220	246	298	320	350	374	439	466	486	537	599	652	708	768																						
Power supply		Phase/Frequency/Voltage		Hz/V	3~/50/400																																							

performances according to CSS software 10.27

Air cooled screw inverter chiller, standard efficiency, reduced sound

- › Optimized energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor
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Cooling Only				EWAD-TZSRB																																												
Space cooling		A Condition 35°C Pdc		kW	169.1	200.88	235.29	268.82	305.99	351.41	394.01	454.57	499.14	568.6	610.43	658.99	699.87	799.95	894.94	956.14	1,013.27	1,067.02																										
		ηs,c		%	168.2	172.6	169.4	175.4	177	183	172.2	170.6	174.2	179.4	188.6	181.8	184.6	215	213.4	213.8	216.2	217.8																										
SEER					4.28	4.39	4.31	4.46	4.5	4.65	4.38	4.63	4.64	4.56	4.79	4.62	4.69	5.45	5.41	5.42	5.48	5.52																										
Cooling capacity		Nom.		kW	169.1	200.9	235.3	268.8	306	351.4	394	454.6	499.1	568.6	610.4	659	699.9	800	895	956	1,013	1,067																										
Power input		Cooling	Nom.	kW	56.48	69.9	82.99	89.94	108.6	118	140.2	164.8	175.4	199.1	218.4	240.3	250.3	247.8	294.1	316	335.6	358.9																										
Capacity control		Minimum capacity		%	37	31	34	29	25	24	16	17	16	14	13	12			10																													
EER					2.995	2.874	2.835	2.989	2.817	2.954	2.81	2.759	2.846	2.856	2.795	2.742	2.796	3.229	3.043	3.016	3.018	2.973																										
ESEER					4.37	4.46	4.3	4.4	4.42	4.5	4.44	4.43	4.47	4.53	4.61	4.6	4.68	4.8	4.85	4.83	4.98																											
IPLV					5.3	5.27	5.04	5.19	5.37	5.53	5.3	5.26	5.43	5.6	5.61	5.6	5.67	5.92	5.74	5.77	5.75	5.86																										
Dimensions		Unit	Height	mm	2,540																																											
					Width	2,282																																										
						Length																																										
Weight		Unit																																														
		Operation weight	kg	2,166	2,191	2,249	2,475	2,522	2,871	4,244	4,260	4,517	4,803	4,980	5,004	5,274	6,997	7,097	7,452	7,730	8,023																											
Water heat exchanger		Type	Plate heat exchanger																		Shell and tube																											
		Water volume	l	20.25	26.1	37.35	26.1	37.35	49.5	158	164	158	270	215	283	485	453																															
		Water flow rate	Cooling	Nom.	l/s	8.1	9.6	11.2	12.9	14.6	16.8	18.8	21.7	23.9	27.2	29.2	31.5	33.5	38.3	42.8	45.7	48.5	51																									
		Water pressure drop	Cooling	Nom.	kPa	25	19.3	15.4	32.6	25.2	25.9	25.8	32.2	43.9	55.5	38.6	32.2	35.9	52.1	36.3	41	45.6	36.3																									
Air heat exchanger		Type	Microchannel																																													
Compressor		Type	Driven vapour compression																																													
		Quantity	1										2																																			
Fan		Type	Direct propeller																																													
		Quantity	4				6				8				10				12				14				16				18				20				22									
		Air flow rate	Nom.	l/s	15,109				22,664				30,219				29,650				36,920				44,475				51,745				59,299				66,570				74,124				81,394			
		Speed	rpm	700																																												
Sound power level		Cooling	Nom.	dBA	86	87				88				90				91				92				94				95																		
Sound pressure level		Cooling	Nom.	dBA	67	68				69				70				71				73																										
Operation range		Air side	Cooling	Min.~Max.	°CDB	-18~50																						-18~45																				
		Water side	Cooling	Min.~Max.	°CDB	-8~18																						-15~20																				
Refrigerant		Type/GWP	R-134a/1,430																																													
		Charge	kg	27	29	33	38	41	52	58	59	68	75	77	83	90	104	117	130	143																												
		Circuits	Quantity	1										2																																		
Refrigerant charge		Per circuit	TCO2eq	38.6	41.5	47.2	54.3	58.6	74.4	41.5	42.2	48.6	53.6	55.1	59.3	64.4	74.4	83.7	93.0	102.2																												
Piping connections		Evaporator water inlet/outlet (OD)			3"		4"				5"				6"				168.3 mm		219.1mm																											
Unit		Running current	Cooling	Nom.	A	102	123	188	177	188	200	247	374	368	363	378	398	416	422	496	530	561	599																									
		Max	A	130	149	160	187	220	246	298	320	350	374	439	466	486	523	585	635	688	745																											
Power supply		Phase/Frequency/Voltage			Hz/V		3~/50/400																																									

Air cooled screw inverter chiller, high efficiency, standard/low sound

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Cooling Only				EWAD-TZXS/XLB				190	220	240	290	320	360	420	450	540	570	610	660	680	770	850	910	C10	C11		
Space cooling (XSB)	A Condition 35°C	Pdc		kW	180.41	211.34	239.54	203	202.6	195.4	198.2	199.8	201	563.39	599.41	639.37	678.22	763.88	850.16	911.93	1,001.2	1,045.43					
				%	195	198.6	195.4	5.15	5.14	4.96	5.03	5.07	5.1	198.6	203.8	206.2	205.4	228.6	226.6	233.4	243	237					
Space cooling (XLB)	A Condition 35°C	Pdc		kW	180.41	211.34	239.54	276.79	313.2	360.56	417.27	472.59	528.99	563.39	599.41	639.37	678.22	763.88	850.16	911.93	1,001.2	1,045.43					
				%	195	198.6	195.4	203	202.6	195.4	198.2	199.8	201	198.6	203.8	206.2	205.4	228.6	226.6	233.4	243	237					
SEER					4.95	5.04	4.96	5.15	5.14	4.96	5.03	5.07	5.1	5.04	5.17	5.23	5.21	5.79	5.74	5.91	6.15	6					
Cooling capacity	Nom.			kW	180.4	211.3	239.5	276.8	313.2	360.6	417.3	472.6	529	563.4	599.4	639.4	678.2	764	850	912	1,001	1,045					
Power input	Cooling	Nom.		kW	52.13	63.22	72.5	83.87	100.2	109.1	132.2	144.9	163.5	181.1	191.7	202.1	219.8	226.5	266.1	275.8	303.4	320.1					
Capacity control	Minimum capacity			%	34	29	34	29	25	17	16	17	16	15	14		13			10							
EER					3.46	3.343	3.304	3.3	3.127	3.304	3.156	3.261	3.236	3.111	3.127	3.164	3.085	3.374	3.195	3.306	3.3	3.265					
ESEER					5.11	5.06	4.99	5.09	5.13	5.14	5.09	5	5.07	5.11	5.15		5.09		5.13	5.15	5.22						
IPLV					6.26	6.15	6.19	6.17	6.4	6.3		6.22	6.29	6.31	6.25	6.21	6.26	6.08	6.19	6.29	6.24						
Dimensions	Unit	Height		mm	2,540																						
				mm	2,282																						
				mm	3,230		4,130		5,030		5,887		6,786		7,684		7,787		8,687		9,587		10,488				
Weight (XSB)	Unit			kg	2,362	2,409	2,421	2,770		4,292		4,602		4,800		5,072		5,425		6,677		7,132		7,410	7,703		
				kg	2,388	2,447	2,459	2,820		4,450		4,760		5,055		5,327		5,680		6,927		7,027		7,382	7,660	7,953	
Weight (XLB)	Unit			kg	2,377	2,424	2,436	2,785		4,322		4,632		4,830		5,102		5,455		6,677		7,132		7,410	7,703		
				kg	2,403	2,462	2,474	2,835		4,480		4,790		5,085		5,357		5,710		6,927		7,027		7,382	7,660	7,953	
Water heat exchanger	Type			Plate heat exchanger								Shell and tube															
				Water volume	l	26.1		37.35		49.5		158				255		301		485		453					
						Water flow rate	Cooling	Nom.	l/s	8.6	10.1	11.5	13.2	15	17.3	20	22.6	25.3	27	28.7	30.6	32.4	36.6	40.7	43.6	47.9	50
										Water pressure drop	Cooling	Nom.	kPa	16.4	13.2	16.2	17.1	21	34.3	31.2	39.7	36.7	41.1	27.1	30.5	33.3	40.5
Air heat exchanger	Type			Microchannel																							
Compressor	Type			Driven vapour compression																							
				Quantity	1						2																
Fan	Type			Direct propeller																							
				Quantity	6				8		10		12		14		16				18		20		22		
					Air flow rate	Nom.	l/s	22,664		30,219		37,774		45,328		52,883		60,438				67,993		75,547		83,102	
								Speed	rpm	700																	
Sound power level (XSB)	Cooling	Nom.		dBa	96	97	96	-						100		101						102					
Sound power level (XLB)	Cooling	Nom.		dBa	91	92	91	92	93	94				95		96		97									
Sound pressure level (XSB)	Cooling	Nom.		dBa	77				78		79				80				79								
Sound pressure level (XLB)	Cooling	Nom.		dBa	72				73		74	73		74				75									
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~-55												-18~-53										
					Water side	Cooling	Min.~Max.	°CDB	-8~-18												-15~-20						
Refrigerant	Type/GWP (XSB)			R-134a/1,430				R-134a/-				R-134a/1,430															
				Type/GWP (XLB)				R-134a/1,430																			
								Charge	kg	36	39	40	51		64	74	80	89	96	104	117	130	143				
										Circuits	Quantity	1						2									
Refrigerant charge	Per circuit			TC02eq	51.5	55.8	57.2	72.9		45.8		52.9	57.2		63.6	68.6	74.4		83.7	93.0	102.2						
Piping connections	Evaporator water inlet/outlet (OD)				3"		4"		5"		6"				168.3 mm		219.1mm										
Unit	Running current	Cooling	Nom.	A	110	113	186		192	225	231	371.0	383	392	390	387	395	394	451	469	500	537					
					A	130	149	166	198	225	256	292	333	358	385	417	450	478	508	562	590	640	694				
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																						

performances according to CSS software 10.27

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Cooling Only				EWAD-TZXR				190	220	240	290	320	360	420	450	540	570	610	660	680	770	850	910	C10	C11				
Space cooling	A Condition 35°C Pdc			kW	180.41	211.34	239.54	276.79	313.2	360.28	416.8	472.11	528.32	562.28	598.77	638.64	677.38	763.85	850.14	911.93	1,001.2	1,045.41							
	ηs,c			%	195	198.6	195.4	203	202.6	194.6	198.2	199	200.2	198.2	202.6	205	204.6	229.8	229.4	233.4	244.2	237.8							
SEER					4.95	5.04	4.96	5.15	5.14	4.94	5.03	5.05	5.08	5.03	5.14	5.2	5.19	5.82	5.81	5.91	6.18	6.02							
Cooling capacity	Nom.			kW	180.4	211.3	239.5	276.8	313.2	360.3	416.8	472.1	528.3	562.3	598.8	638.6	677.4	764	850	912	1,001	1,045							
Power input	Cooling	Nom.		kW	52.13	63.22	72.5	83.87	100.2	109.5	132.1	145.6	164.3	181.9	192.5	202	220.9	226.5	266.8	275.4	303.1	320.6							
Capacity control	Minimum capacity			%	34	29	34	29	25	17	16	17	16	15	14	13													
EER					3.46	3.343	3304	3.3	3.127	3.29	3.156	3.243	3.215	3092	3.111	3.146	3.067	3.373	3.186	3.311	3.302	3.26							
ESEER					5.11	5.06	4.99	5.09	5.13	5.12	5.09	4.99	5.04	5.05	5.13	5.07	5.09			5.13	5.15	5.22							
IPLV					6.26	6.15	6.19	6.17	6.37	6.3	6.2	6.26	6.27	6.24	6.18	6.26	6.08	6.19	6.29	6.24									
Dimensions	Unit	Height		mm	2,540																								
		Width		mm	2,282																								
		Length		mm	3,230			4,130		5,030		5,887		6,786		7,684		7,787		8,687		9,587		10,488					
Weight	Unit			kg	2,462	2,509	2,521	2,870		4,492		4,802		5,000		5,272		5,625		6,997		7,097		7,452	7,730	8,023			
	Operation weight			kg	2,488	2,547	2,559	2,920		4,650		4,960		5,255		5,527		5,880		7,247		7,347		7,702	7,980	8,273			
Water heat exchanger	Type			Plate heat exchanger						Shell and tube																			
	Water volume			l	26.1	37.35		49.5		158				255				301		485		453							
	Water flow rate	Cooling	Nom.	l/s	8.6	10.1	11.5	13.2	15	17.2	19.9	22.6	25.3	26.9	28.6	30.5	32.4	36.6	40.7	43.6	47.9	50							
	Water pressure drop	Cooling	Nom.	kPa	16.4	13.2	16.2	17.1	21	34.2	31.1	39.7	36.6	41	27.1	30.4	33.2	40.3	33.3	37.3	42.3	34.2							
Air heat exchanger	Type			Microchannel																									
Compressor	Type			Driven vapour compression																									
	Quantity			1						2																			
Fan	Type			Direct propeller																									
	Quantity			6				8		10		12		14		16				18		20	22						
	Air flow rate	Nom.		l/s	22,664				30,219		36,920		44,475		51,745		59,299				66,570		74,124	81,394					
	Speed			rpm	700																								
Sound power level	Cooling	Nom.		dBA	88				89		90		91		92		94		95										
Sound pressure level	Cooling	Nom.		dBA	68				69		70													71		73			
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~-55														-18~-53										
	Water side	Cooling	Min.~Max.	°CDB	-8~-18														-15~-20										
Refrigerant	Type/GWP			R-134a/1,430																									
	Charge			kg	36	39	40	51		64		74	80		89	96		104		117	130	143							
	Circuits	Quantity			1						2																		
Refrigerant charge	Per circuit			TCO2eq	51.5	55.8	57.2	72.9		45.8		52.9	57.2		63.6	68.6		74.4		83.7		93.0	102.2						
Piping connections	Evaporator water inlet/outlet (OD)				3"		4"		5"				6"				168.3 mm		219.1mm										
Unit	Running current	Cooling	Nom.	A	110	113	186		192	226	231	373.0	385	393	391	389	396	395	453	471	502	539							
	Max			A	130	149	166	198	225	256	292	333	358	385	417	450	478	508	562	590	640	694							
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																								

Air cooled screw inverter chiller, premium efficiency, standard/low sound

- › Premium energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Continuous fans speed modulation with EC fans for even higher part load efficiency
- › Compact design for small footprint and minimized installation space
- › Low operating sound levels are achieved by the latest compressor and fan design
- › One or two truly independent refrigerant circuits for outstanding reliability



Cooling Only				EWAD-TZPSB/PLB				190	220	240	290	300	350	420	495	550	620	720	820	950												
Space cooling	A Condition 35°C Pdc			kW	183.62	216.12	244.42	281.93	323.37	378.96	437.31	501.15	543.03	620	717	832.86	949.85															
	ηs,c			%	204.6	210.2	208.6	209	217	207	211.4	221.8	219	241.4	245.8	249	249.4															
SEER					5.19	5.33	5.29	5.3	5.5	5.25	5.36	5.62	5.55	6.11	6.22	6.3	6.31															
Cooling capacity	Nom.			kW	183.6	216.1	244.4	281.9	323.4	379	437.3	501.2	543	620	717	833	950															
Power input	Cooling	Nom.		kW	50.48	60.72	68.74	83.43	95.89	104.6	124.9	139.1	151.4	178.8	182.3	220.4	252.5															
Capacity control	Minimum capacity			%	34	29	34	29	27	19	20	17	10																			
EER					3.637	3.559	3.555	3.379	3.372	3.623	3.502	3.603	3.586	3.468	3.933	3.78	3.763															
ESEER					5.54	5.51	5.42	5.4	5.35	5.48		5.45	5.5	5.42	5.59	5.54	5.55															
IPLV					6.49	6.35	6.41	6.35	6.21	6.52	6.58	6.55	6.51	6.47	6.73	6.6	6.64															
Dimensions	Unit	Height	mm	2,540																												
		Width	mm	2,282																												
		Length	mm	4,130														5,030	5,887	6,786	7,684	8,579	9,480	9,587	10,488	11,387						
Weight (PSB)	Unit			kg	2,758		2,769	2,770	3,020	4,735	5,069	5,077	6,527	6,555	7,650	7,943	8,240															
	Operation weight			kg	2,808		2,819	2,820	3,070	4,990	5,324	5,332	6,777	6,805	7,900	8,193	8,490															
Weight (PLB)	Unit			kg	2,773		2,784	2,785	3,035	4,765	5,099	5,107	6,527	6,555	7,650	7,943	8,240															
	Operation weight			kg	2,823		2,834	2,835	3,085	5,020	5,354	5,362	6,777	6,805	7,900	8,193	8,490															
Water heat exchanger	Type				Plate heat exchanger														Shell and tube													
	Water volume			l	49.5														255				307				485				453	
	Water flow rate			l/s	8.8	10.3	11.7	13.5	15.5	18.1	20.9	24	26	29.6	34.3	39.8	45.4															
	Water pressure drop	Cooling	Nom.	kPa	10.6	11	13.4	17.1	21.5	20.4	26.5	33.3	19.8	25	24.2	31.7	29															
Air heat exchanger	Type				Microchannel																											
Compressor	Type				Driven vapour compression																											
	Quantity			1														2														
Fan	Type				Direct propeller																											
	Quantity			8														10	12	14	16	18	20	22	24							
	Air flow rate Nom.			l/s	29,610				37,013	44,415	51,818	59,220	66,623	74,025	81,428	88,830																
	Speed			rpm	700																											
Sound power level (PSB)	Cooling	Nom.		dBA	97				98	99				100				101														
Sound power level (PLB)	Cooling	Nom.		dBA	91	92	91	92		94				97																		
Sound pressure level (PSB)	Cooling	Nom.		dBA	77				78				77	78				79														
Sound pressure level (PLB)	Cooling	Nom.		dBA	71	72	71	72		73				72	73				75													
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~55														-18~53													
	Water side	Cooling	Min.~Max.	°CDB	-8~18														-15~20													
Refrigerant	Type/GWP				R-134a/1,430																											
	Charge				kg	49		50	51	58	77	86	94	105	114	130	143	156														
	Circuits	Quantity		1																		2										
Refrigerant charge	Per circuit			TCO2Eq	70.1		71.5	72.9	82.9	55.1	61.5	67.2	75.1	81.5	93.0	102.2	111.5															
Piping connections	Evaporator water inlet/outlet (OD)				3"		4"				6"				168.3 mm				219.1mm													
Unit	Running current	Cooling	Nom.	A	101	104	172	177		208	211	346	258	298	316	375	424															
	Max			A	126	144	162	188	218	246	285	324	352	436	437	512	577															
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400																										

Air cooled screw inverter chiller, standard efficiency, standard/low sound

- › Optimized energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- › Low operating sound levels are achieved by the latest compressor and fan design
- › One or two truly independent refrigerant circuits for outstanding reliability
- › Compact design for small footprint and minimized installation space



Cooling Only				EWAH-TZSSB/SLB		170	200	240	290	330	390	420	490	530	600
Space cooling	A Condition 35°C Pdc			kW	170.68	199.73	240.35	293.87	326.19	393.7	421.46	490.52	528.28	598.77	
	ηs,c			%	166.8	169.44	179.68	186.68	180.56	181.08	180.56	187.04	186.72	190.68	
SEER					4.245	4.311	4.567	4.742	4.589	4.602	4.589	4.751	4.743	4.842	
Cooling capacity	Nom.			kW	171	200	240	294	326	394	421	491	528	599	
Power input	Cooling	Nom.		kW	55.4	69.4	83.3	97.5	115	131	146	170	188	212	
Capacity control	Method				Variable										
	Minimum capacity			%	33.4	28.6	23.6	18.7		14.3	13.4	11.8	11.2	10	
EER					3.08	2.88	2.89	3.02	2.82	2.99	2.88		2.8	2.82	
IPLV					5.19	5.22	5.5	5.73	5.52	5.18	5.16	5.4	5.31	5.41	
Dimensions	Unit	Height	mm		2,540										
		Width	mm		2,282										
		Length	mm		2,330		3,230			5,030		5,887		6,009	
Weight	Unit	kg			2,160.6	2,170.6	2,449.4	2,559.4		4,170.2		4,634		5,619	
	Operation weight		kg		2,186.7	2,207.95	2,486.75	2,608.9		4,329.2	4,323.2	4,890	4,867	5,867	
Water heat exchanger	Type				Plate heat exchanger					Shell and tube					
	Water volume		l		26	37		50			159	153	256	233	248
	Water flow rate	Cooling	Nom.	l/s	8.2	9.5	11.5	14	15.6	18.8	20.1	23.4	25.2	28.6	
	Water pressure drop	Cooling	Nom.	kPa	15.1	12.3	17.1	18.2	22	24.4	31.6	33.8	31.1	27.8	
Air heat exchanger	Type				Microchannel										
Compressor	Type				Driven vapour compression										
	Quantity				1					2					
Fan	Type				Direct propeller										
	Quantity				4		6			10		12			
	Air flow rate			Nom. l/s	17,448		26,172			43,620		52,344			
	Speed			rpm	760										
Sound power level (SSB)	Cooling	Nom.		dBA	97.07	97.53	100.19	101.14		100.59	101.02	103.19	105.6	104.14	
Sound power level (SLB)					91.73	92.13	94.69	96.44		95.32	97.69		99.9	99.44	
Sound pressure level (SSB)	Cooling	Nom.		dBA	78.10	78.60	80.7	81.70		80.2	80.60	82.40	84.8	83.40	
Sound pressure level (SLB)					72.78	73.17	75.2	76.96		74.94	75.31	76.92	79.12	78.67	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~50										
	Water side	Cooling	Min.~Max.	°CDB	-8~18										
Refrigerant	Type/GWP				R-1234(ze)/7										
	Charge			kg	27.6		41.4			64.2		78		102	
	Circuits	Quantity			1					2					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm		114.3mm			139.7mm		168.3mm			
Unit	Running current	Cooling Max	Nom.	A	93.0	114.0	137.0	158.0	191.0	217.0	243.0	279.0	307.0	343.0	
				A	132.0	156.0	217.0	236.0	272.0	312.0	348.0	434.0	500.0	522.0	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

Air cooled screw inverter chiller, standard efficiency, reduced sound

- › Optimized energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- › Low operating sound levels are achieved by the latest compressor and fan design
- › One or two truly independent refrigerant circuits for outstanding reliability
- › Compact design for small footprint and minimized installation space



Cooling Only				EWAH-TZSRB	170	200	240	290	330	390	420	490	530	600	
Space cooling	A Condition 35°C Pdc			kW	170.68	199.73	240.35	293.87	326.19	393.39	421.08	489.94	527.57	597.68	
	ηs,c			%	166.8	169.44	179.68	186.68	180.56	180.04	181.36	187.4	185.56	189.6	
SEER					4.245	4.311	4.567	4.742	4.589	4.576	4.609	4.76	4.714	4.815	
Cooling capacity	Nom.			kW	171	200	240	294	326	393	421	490	528	598	
Power input	Cooling	Nom.		kW	55.4	69.4	83.3	97.5	115	132	146	171	189	214	
Capacity control	Method				Variable										
	Minimum capacity			%	33.4	28.6	23.6	18.7		14.3	13.4	11.8	11.2	10	
EER					3.08	2.88	2.89	3.02	2.82	2.98	2.87	2.86	2.78	2.79	
IPLV					5.19	5.22	5.5	5.73	5.52	5.13	5.22	5.38	5.29	5.38	
Dimensions	Unit	Height		mm	2,540										
		Width		mm	2,282										
		Length		mm	2,330		3,230			5,030		5,887		6,009	
Weight	Unit			kg	2,260.6	2,270.6	2,549.4	2,719.4		4,370.2		4,834		5,939	
	Operation weight			kg	2,286.7	2,307.95	2,586.75	2,768.9		4,529.2	4,523.2	5,090	5,067	6,187	
Water heat exchanger	Type				Plate heat exchanger					Shell and tube					
	Water volume			l	26	37			50		159	153	256	233	248
	Water flow rate	Cooling	Nom.	l/s	8.2	9.5	11.5	14	15.6	18.8	20.1	23.4	25.2	28.6	
	Water pressure drop	Cooling	Nom.	kPa	15.1	12.3	17.1	18.2	22	24.4	31.6	33.7	31	27.7	
Air heat exchanger	Type				Microchannel										
Compressor	Type				Driven vapour compression										
	Quantity				1					2					
Fan	Type				Direct propeller										
	Quantity				4		6			10		12			
	Air flow rate	Nom.		l/s	17,448		26,172			42,600		51,324			
	Speed			rpm	760										
Sound power level	Cooling	Nom.		dBA	87.67	87.93	90.25	92.27		91.42	91.65	93.25	94.9	95.27	
Sound pressure level	Cooling	Nom.		dBA	68.70	69.00	70.80	72.80		71.00	71.30	72.50	74.10	74.5	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~50										
	Water side	Cooling	Min.~Max.	°CDB	-8~18										
Refrigerant	Type/GWP				R-1234(ze)/7										
	Charge				kg	27.6		41.4		64.2		78		102	
	Circuits	Quantity			1					2					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm		114.3mm			139.7mm		168.3mm			
Unit	Running current	Cooling	Nom.	A	93.0	114.0	137.0	158.0	191.0	218.0	244.0	281.0	309.0	345.0	
		Max		A	132.0	156.0	217.0	236.0	272.0	312.0	348.0	434.0	500.0	522.0	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

Air cooled screw inverter chiller, high efficiency, standard/low sound

- › High energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- › Compact design for small footprint and minimized installation space
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- › Continuous fans speed modulation thanks to inverter driven fans to improve part load efficiency



Cooling Only				EWAH-TZXS/XLB	180	220	270	300	350	390	430	480	580	620
Space cooling	A Condition 35°C Pdc			kW	180.38	224.67	270.66	300.22	355	392	427.64	481.86	574.38	619.88
	ηs,c			%	188.68	195.84	194.04	203.08	196.16	196.4	203.28	206.2	214.96	217.88
SEER					4.792	4.971	4.926	5.152	4.979	4.985	5.157	5.23	5.449	5.522
Cooling capacity	Nom.			kW	180	225	271	300	355	392	428	482	574	620
Power input	Cooling	Nom.		kW	51.8	66.3	79	89.6	103	114	125	144	164	181
Capacity control	Method				Variable									
	Minimum capacity			%	33.4	26.7	21.6	18.7	16.7	15.4	14.3	12.5	10.8	10
EER					3.49	3.39	3.43	3.35	3.44	3.42		3.33	3.5	3.41
IPLV					6.05	6.09	5.92	6.2	5.8	5.81	5.9	6	6.01	6.2
Dimensions	Unit	Height	mm	2,540										
		Width	mm	2,282										
		Length	mm	3,230	4,130	3,230	4,130	5,887		6,786	7,684	6,877	7,778	
Weight	Unit			kg	2,447	2,813	2,557	2,923	4,445.2	4,629.2	5,004.6	5,748.6	5,720	6,364.8
	Operation weight			kg	2,484.35	2,862.5	2,606.5	2,972.5	4,598.2	4,870.2	5,237.6	5,981.6	6,021	6,656.8
Water heat exchanger	Type			Plate heat exchanger					Shell and tube					
	Water volume			l	37	50			153	241	233		301	292
	Water flow rate	Cooling	Nom.	l/s	8.6	10.7	12.9	14.3	17	18.7	20.4	23	27.4	29.6
	Water pressure drop	Cooling	Nom.	kPa	10.2	11.2	15.7	18.9	23.2	16.7	34.2	26.3	24.7	31.1
Air heat exchanger	Type			Microchannel										
Compressor	Type			Driven vapour compressor										
	Quantity			1					2					
Fan	Type			Direct propeller										
	Quantity			6	8	6	8	12		14	16	14	16	
	Air flow rate		Nom.	l/s	26,172	34,896	26,172	34,896	52,344		61,068	69,792	61,068	69,792
	Speed			rpm	760									
Sound power level (XSB)	Cooling	Nom.		dBA	97.19	98.16	101.14	96.57	100.19	100.4	100.7	101.94	99.44	104.19
Sound power level (XLB)					92.14	93.15	96.44	96.57	95.14	95.3	95.68	96.78	99.44	99.57
Sound pressure level (XSB)	Cooling	Nom.		dBA	77.7	78.20	81.70	76.60	79.40	79.60		80.40	78.70	82.70
Sound pressure level (XLB)					72.65	73.19	76.96	76.62	74.36	74.53	74.55	75.29	78.67	78.12
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~55									
	Water side	Cooling	Min.~Max.	°CDB	-8~18									
Refrigerant	Type/GWP			R-1234(ze)/7										
	Charge			kg	39	52	39	52	73.2		84.6	97.6	102	116.8
	Circuits	Quantity			1					2				
Piping connections	Evaporator water inlet/outlet (OD)			88.9mm	114.3mm			139.7mm		168.3mm				
Unit	Running current	Cooling	Nom.	A	88.5	113.05	131.55	147.5	176.4	193.47	208.66	243.65	272.5	298.67
	Max			A	134	173	190	233	266	286	311	372	403	465
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

Air cooled screw inverter chiller, high efficiency, reduced sound

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Cooling Only				EWAH-TZXR	180	220	270	300	350	390	430	480	580	620
Space cooling	A Condition 35°C Pdc			kW	180.38	224.67	270.66	300.22	354.75	391.7	427.42	481.53	573.98	619.32
	ηs,c			%	188.68	195.84	194.04	203.08	195.44	195.76	202.72	205.68	213.64	217.16
SEER					4.792	4.971	4.926	5.152	4.961	4.969	5.143	5.217	5.416	5.504
Cooling capacity	Nom.			kW	180	225	271	300	355	392	427	482	574	619
Power input	Cooling	Nom.		kW	51.8	66.3	79	89.6	103	115	125	145	164	182
Capacity control	Method				Variable									
	Minimum capacity			%	33.4	26.7	21.6	18.7	16.7	15.4	14.3	12.5	10.8	10
EER					3.49	3.39	3.43	3.35	3.42	3.41		3.32	3.48	3.39
IPLV					6.05	6.09	5.92	6.2	5.78	5.77	5.88	5.97	5.98	6.17
Dimensions	Unit	Height		mm	2,540									
		Width		mm	2,282									
		Length		mm	3,230	4,130	3,230	4,130	5,887		6,786	7,684	6,877	7,778
Weight	Unit			kg	2,547	2,913	2,717	3,083	4,645.2	4,829.2	5,204.6	5,948.6	6,040	6,684.8
	Operation weight			kg	2,584.35	2,962.5	2,766.5	3,132.5	4,798.2	5,070.2	5,437.6	6,181.6	6,341	6,976.8
Water heat exchanger	Type				Plate heat exchanger				Shell and tube					
	Water volume			l	37	50			153	241	233		301	292
	Water flow rate	Cooling	Nom.	l/s	8.6	10.7	12.9	14.3	16.9	18.7	20.4	23	27.4	29.6
	Water pressure drop	Cooling	Nom.	kPa	10.2	11.2	15.7	18.9	23.2	16.6	34.1	26.3	24.7	31.1
Air heat exchanger	Type				Microchannel									
Compressor	Type				Driven vapour compressor									
	Quantity				1				2					
Fan	Type				Direct propeller									
	Quantity				6	8	6	8	12		14	16	14	16
	Air flow rate	Nom.		l/s	26,172	34,896	26,172	34,896	51,324		59,709	68,433	59,709	68,433
	Speed				rpm									
Sound power level	Cooling	Nom.		dBA	88.63	89.73	92.27	92.6	91.63	91.73	92.25	93.09	95.27	95.6
Sound pressure level	Cooling	Nom.		dBA	69.20	69.80	72.80	72.60	70.90	71.00	71.10	71.6	74.5	74.20
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~55									
	Water side	Cooling	Min.~Max.	°CDB	-8~18									
Refrigerant	Type/GWP				R-1234(ze)/7									
	Charge			kg	39	52	39	52	73.2		84.6	97.6	102	116.8
	Circuits	Quantity			1				2					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm	114.3mm			139.7mm	168.3mm				
Unit	Running current	Cooling	Nom.	A	88.5	113.05	131.55	147.5	176.9	194.09	209.13	244.41	273.41	299.81
	Max			A	134	173	190	233	266	286	311	372	403	465
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

Air cooled screw inverter chiller, premium efficiency, standard/low sound

- › Premium energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- › Compact design for small footprint and minimized installation space
- › Low operating sound levels are achieved by the latest compressor and fan design
- › One or two truly independent refrigerant circuits for outstanding reliability
- › Continuous fans speed modulation with EC fans for even higher part load efficiency



Cooling Only				EWAH-TZPSB/PLB		370	440	530	610
Space cooling	A Condition 35°C Pdc			kW	371.15	435.24	532.06	606.43	
	ηs,c			%	206.56	213.68	220.48	224.96	
SEER					5.239	5.417	5.587	5.699	
Cooling capacity	Nom.			kW	371	435	532	606	
Power input	Cooling	Nom.		kW	102	121	137	163	
Capacity control	Method				Variable				
	Minimum capacity			%	16.7	14.3	11.7	10	
EER					3.62	3.58	3.86	3.7	
IPLV					6.15	6.35	6.36	6.35	
Dimensions	Unit	Height	mm		2,540				
		Width	mm		2,282				
		Length	mm		7,684	9,480	7,778	8,687	
Weight	Unit			kg	5,741.4	6,722	6,364.8	7,140.2	
	Operation weight			kg	5,982.4	7,023	6,656.8	7,636.2	
Water heat exchanger	Type				Shell and tube				
	Water volume			l	241	301	292	496	
	Water flow rate	Cooling	Nom.	l/s	17.7	20.8	25.4	29	
	Water pressure drop	Cooling	Nom.	kPa	24.4	15	15.3	18	
Air heat exchanger	Type				Microchannel				
Compressor	Type				Driven vapour compression				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				16	20	16	18	
	Air flow rate	Nom.		l/s	251,251.0	314,064	251,251.0	282,658.0	
	Speed			rpm	760				
	Sound power level (PSB)	Cooling	Nom.	dBA	100.3	100.8	103.24	104.21	
Sound power level (PLB)	Cooling	Nom.		dBA	95.48	96	98.71	99.63	
Sound pressure level (PSB)	Cooling	Nom.		dBA	78.80		81.80	82.40	
Sound pressure level (PLB)	Cooling	Nom.		dBA	74.03	73.96	77.25	77.86	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~55				
	Water side	Cooling	Min.~Max.	°CDB	-8~18				
Refrigerant	Type/GWP				R-1234(ze)/7				
	Circuits	Quantity			2				
Refrigerant circuit	Charge			kg	90.4	113	116.8	131.2	
Refrigerant charge	Per circuit			kg	316.4	395.5	408.8	459.2	
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				
Unit	Running	Cooling	Nom.	A	175.85	205.4	233.82	272.98	
	current	Max		A	272	319	350	424	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				

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Cooling Only				EWAH-TZPRB	370	440	530	610	
Space cooling	A Condition 35°C Pdc			kW	370.96	435.06	531.76	606.09	
	ηs,c			%	206.04	213.28	219.28	223.8	
SEER					5.226	5.407	5.557	5.67	
Cooling capacity	Nom.			kW	371	435	532	606	
Power input	Cooling	Nom.		kW	102	122	138	164	
Capacity control	Method				Variable				
	Minimum capacity			%	16.7	14.3	11.7	10	
EER					3.61	3.57	3.84	3.69	
IPLV					6.12		6.32		
Dimensions	Unit	Height			mm	2,540			
		Width			mm	2,282			
		Length			mm	7,684	9,480	7,778	8,687
Weight	Unit			kg	5,941.4	6,922	6,684.8	7,460.2	
	Operation weight			kg	6,182.4	7,223	6,976.8	7,956.2	
Water heat exchanger	Type				Shell and tube				
	Water volume			l	241	301	292	496	
	Water flow rate	Cooling	Nom.	l/s	17.7	20.8	25.4	28.9	
	Water pressure drop	Cooling	Nom.	kPa	24.4	14.9	15.3	18	
Air heat exchanger	Type				Microchannel				
Compressor	Type				Driven vapour compression				
	Quantity				2				
Fan	Type				Direct propeller				
	Quantity				16	20	16	18	
	Air flow rate Nom.			l/s	246,359.0	307,948.0	246,359.0	276,541.0	
	Speed			rpm	760				
Sound power level	Cooling	Nom.		dBa	92.37	92.94	94.94	95.73	
Sound pressure level	Cooling	Nom.		dBa	70.90		73.50	74.00	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~55				
	Water side	Cooling	Min.~Max.	°CDB	-8~18				
Refrigerant	Type/GWP				R-1234(ze)/7				
	Circuits	Quantity			2				
Refrigerant circuit	Charge			kg	90.4	113	116.8	131.2	
Refrigerant charge	Per circuit			kg	316.4	395.5	408.8	459.2	
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				
Unit	Running	Cooling	Nom.	A	176.22	205.83	234.54	273.8	
	current	Max		A	272	319	350	424	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				

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Cooling Only				EWAD-TZSSC2/SLC2		H11	H12	H13	C15	C16	H17	H18	H19	
Space cooling	A Condition 35°C Pdc			kW		1,189	1,259	1,355	1,508	1,644	1,766	1,875	1,965	
	ηs,c			%		184.5	182.4	182.9	190.1	191.8	191.4	190.1	184.2	
SEER						4.69	4.64	4.65	4.83	4.87	4.86	4.83	4.68	
Cooling capacity	Nom.			kW		1,189	1,259	1,355	1,508	1,644	1,766	1,875	1,965	
Power input	Cooling	Nom.		kW		380.9	413.4	438.6	485	532.8	581.8	636.4	709.3	
Capacity control	Method					Variable								
	Minimum capacity			%		12.5								
EER						3.12	3.05	3.09	3.11	3.09	3.04	2.95	2.77	
IPLV						4.85	4.8	4.78	5.14	5.11	5.07	5.04	4.99	
Dimensions	Unit	Height		mm		2,540								
		Width		mm		2,282								
		Length		mm		10,510	11,404		12,302	13,202	14,102			
Weight	Unit			kg		9,322	10,112		10,716	11,134	11,564	12,037		
	Operation weight			kg		9,879	11,123		11,727	12,145	12,575	13,048		
Water heat exchanger	Type					Shell and tube								
	Water volume			l		557	1,011							
	Water pressure drop	Cooling	Nom.	kPa		57.1	63.3	40.5	49.1	57.4	65.2	72.7	79	
Air heat exchanger	Type					Microchannel								
Compressor	Type					Inverter driven single screw compressor								
	Quantity					2								
Fan	Type					Direct propeller								
	Quantity					22	24		26	28	30			
	Air flow rate	Nom.		l/s		112,259	122,464			132,670	142,876	153,081		
	Speed			rpm		900								
Sound power level (SSC2)	Cooling	Nom.		dBA		100	101				102	103		
Sound power level (SLC2)	Cooling	Nom.		dBA		102	103	104			105		106	107
Sound pressure level (SSC2)	Cooling	Nom.		dBA		77	78		79			80		
Sound pressure level (SLC2)	Cooling	Nom.		dBA		80	81	82	81	82		83	84	
Refrigerant	Type/GWP					R-134a/1,430								
	Charge			kg		175	200			220	250	270		
	Circuits	Quantity				2								
Piping connections	Evaporator water inlet/outlet (OD)					219.1mm			273mm					
Unit	Running current	Cooling	Nom.	A		646.5	691.1	733.0	813.9	884.0	962.8	1,044	1,149	
		Max		A		913	969	1,027	1,165	1,205	1,301	1,398	1,487	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400								

performances according to CSS software 10.27

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Cooling Only				EWAD-TZSRC2		H11	H12	H13	C15	C16	H17	H18	H19			
Space cooling	A Condition 35°C Pdc			kW	1,164	1,229	1,323	1,463	1,595	1,712	1,812		1,876			
	ηs,c			%	206.8	201.6	203.1	204.1	205.3	205.0			201.4			
SEER					5.24	5.12	5.15	5.18	5.21	5.20			5.11			
Cooling capacity	Nom.			kW	1,164	1,229	1,323	1,463	1,595	1,712	1,812		1,876			
Power input	Cooling	Nom.		kW	384.6	423.1	446	513.9	564.5	611.2	663.5		741.2			
Capacity control	Method				Variable											
	Minimum capacity			%	12.5											
EER					3.03	2.91	2.97	2.85	2.83	2.80	2.73		2.53			
IPLV					5.43	5.29	5.34	5.53		5.5	5.51		5.36			
Dimensions	Unit	Height		mm	2,540											
				mm	2,282											
				mm	10,510		11,404		12,302		13,202		14,102			
Weight	Unit			kg	9,322		10,112		10,716		11,134		11,564		12,037	
	Operation weight			kg	9,879		11,123		11,727		12,145		12,575		13,048	
Water heat exchanger	Type				Shell and tube											
	Water volume			l	557			1,011								
	Water	Cooling	Nom.	kPa	54	60.6		38.8	46.5	54.3	61.6	68.3	72.7			
Air heat exchanger	Type				Microchannel											
Compressor	Type				Inverter driven single screw compressor											
	Quantity				2											
Fan	Type				Direct propeller											
	Quantity				22			24			26		28		30	
	Air flow rate	Nom.		l/s	81,518			89,145			96,375		104,002		111,232	
	Speed			rpm	700											
	Sound power level	Cooling	Nom.		dBA	93			94			95		96		
Sound pressure level	Cooling	Nom.		dBA	70	71			72			73				
Refrigerant	Type/GWP				R-134a/1,430											
	Charge			kg	175			200			220		250		270	
	Circuits	Quantity			2											
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm			273mm								
Unit	Running current	Cooling	Nom.	A	659.2	708.5	748.1	853.7	922.8	1,000	1,080		1,194			
					913	969	1,027	1,165	1,205	1,301	1,398		1,487			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400											

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Cooling Only		EWAD-TZXSC2		C11	C12	H12	C14	C15	H16	H17
Space cooling	A Condition 35°C Pdc ηs,c	kW	%	1,124.00	1,280	1,206	1,399	1,539	1,667	1,780
				211.5	210.8	211.1	211.9	212.6	214.2	212.6
SEER				5.36	5.35		5.37	5.39	5.43	5.39
Cooling capacity	Nom.	kW		1,124	1,280	1,206	1,399	1,539	1,667	1,780
Power input	Cooling Nom.	kW		354	401.6	375.9	431.7	478.8	524.7	575.4
Capacity control	Method	Variable								
	Minimum capacity	12.5								
EER				3.17	3.19	3.21	3.24	3.22	3.18	3.09
IPLV				5.54		5.58	5.79	5.7	5.66	5.65
Dimensions	Unit	Height	mm	2,540						
		Width	mm	2,282						
		Length	mm	10,510	12,302	11,402	12,302	13,202	14,104	
Weight	Unit		kg	9,322	10,515	10,112	10,716	11,134	11,564	12,037
	Operation weight		kg	9,879	11,526	11,123	11,727	12,145	12,575	13,048
Water heat exchanger	Type	Shell and tube								
	Water volume		l	557			1,011			
	Water pressure drop	Cooling Nom.	kPa	51.6	36.6	32.8	42.9	50.9	58.8	66.1
Air heat exchanger	Type	Microchannel								
Compressor	Type	Inverter driven single screw compressor								
	Quantity	2								
Fan	Type	Direct propeller								
	Quantity			22	26	24	26	28	30	
	Air flow rate	Nom.	l/s	83,897	99,151	91,524	122,464	132,670	142,876	153,081
	Speed		rpm		700			900		
Sound power level	Cooling	Nom.	dBA	95	97	96	101		102	
Sound pressure level	Cooling	Nom.	dBA	73	74	73	78		79	
Refrigerant	Type/GWP	R-134a/1,430								
	Charge		kg	175	220	200	220	250	270	
	Circuits	Quantity		2						
Piping connections	Evaporator water inlet/outlet (OD)			219.1mm			273mm			
Unit	Starting current	Max	A	0.0						
	Running current	Cooling	Nom.	A	608.8	686.1	647.1	735.8	806.6	957.5
	Max		A	918	994	939	1,085	1,124	1,218	1,313
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50 /400						

performances according to CSS software 10.27

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Cooling Only		EWAD-TZXRC2		C11	C12	H12	C14	C15	H16	H17
Space cooling	A Condition 35°C Pdc ηs,c	kW	%	1,122	1,204	1,279	1,362	1,499	1,625	1,735
				208.8	210.2	209.8	207.8	209.4	209.3	209.7
SEER				5.30	5.33	5.32	5.27	5.31		5.32
Cooling capacity	Nom.	kW		1,122	1,204	1,279	1,362	1,499	1,625	1,735
Power input	Cooling Nom.	kW		356.3	377.3	403	450.1	501.4	547.6	598.6
Capacity control	Method	Variable								
	Minimum capacity	12.5								
EER				3.15	3.19	3.17	3.03	2.99	2.97	2.90
IPLV				5.51	5.55	5.49	5.64	5.65	5.64	5.6
Dimensions	Unit	Height	mm	2,540						
		Width	mm	2,282						
		Length	mm	10,510	11,402	12,302	11,402	12,302	13,202	14,104
Weight	Unit		kg	9,322	10,112	10,515	10,716	11,134	11,564	12,037
	Operation weight		kg	9,879	11,123	11,526	11,727	12,145	12,575	13,048
Water heat exchanger	Type	Shell and tube								
	Water volume		l	557			1,011			
	Water pressure drop	Cooling Nom.	kPa	51.4	32.7	36.5	40.8	48.5	56.1	63.2
Air heat exchanger	Type	Microchannel								
Compressor	Type	Inverter driven single screw compressor								
	Quantity	2								
Fan	Type	Direct propeller								
	Quantity			22	24	26	24	26	28	30
	Air flow rate	Nom.	l/s	81,518	89,145	96,375	89,145	96,375	104,002	111,232
	Speed		rpm				700			
Sound power level	Cooling	Nom.	dBA	92	93	94	93	94		95
Sound pressure level	Cooling	Nom.	dBA	70			71			72
Refrigerant	Type/GWP	R-134a/1,430								
	Charge		kg	175	200	220	200	220	250	270
	Circuits	Quantity		2						
Piping connections	Evaporator water inlet/outlet (OD)			219.1mm	273mm	219.1mm		273mm		
Unit	Starting current	Max	A	0.0						
	Running current	Cooling	Nom.	A	612.3	651.0	689.6	762.5	834.0	901.3
	Max		A	918	939	994	1,085	1,124	1,218	1,313
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50 /400						

performances according to CSS software 10.27



**Air cooled screw inverter
chiller, standard efficiency,
standard/low sound**

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Cooling Only				EWAH-TZSSC2/SLC2	710	770	880	940	990	H10	C11	C12	C13	C14	C15	C16	
Space cooling	A Condition:35℃ Pdc			kW	712.28	765.6	879.39	942.78	990.5	1,055.51	1,117.22	1,230.93	1,301.55	1,431.96	1,518.61	1,603.34	
	ηs,c			%	181.52	183.08	182.16	181.72	182.84	181.4	182.24	179.28	193.88	192.32	190.76	188.92	
SEER					4.613	4.652	4.629	4.618	4.646	4.61	4.631	4.557	4.922	4.883	4.844	4.798	
Cooling capacity	Nom.			kW	712.3	765.6	879.4	942.8	990.5	1,056	1,117	1,231	1,302	1,432	1,519	1,603	
Power input	Cooling	Nom.		kW	230.7	246.6	284.9	303.9	318.9	339.4	357.4	396	418.4	465.3	510.4	567.4	
Capacity control	Method				Inverter controlled												
	Minimum capacity			%	12.5												
EER					3.088	3.104	3.087	3.102	3.107	3.11	3.126	3.109	3.111	3.077	2.975	2.826	
IPLV					4.79	4.85	4.8	4.74	4.78	4.71	4.73	4.63	5.17	5.08	5.07	4.98	
Dimensions	Unit	Height		mm	2,540												
		Width		mm	2,280												
		Length		mm	6,909	7,809	8,709	9,602	10,510	11,402	12,302	11,402	12,302	13,202	14,102		
Weight	Unit			kg	7,033	7,660	8,093	8,900	9,288	10,073	10,475	10,716	11,134	11,564	12,037		
	Operation weight			kg	7,313	8,152	8,585	9,483	9,871	11,116	11,518	11,727	12,145	12,575	13,048		
Water heat exchanger	Type				Shell and tube												
	Water volume			l	280		492		583		1,043		1,011				
	Water flow rate	Cooling	Nom.	l/s	33.97	36.51	41.94	44.96	47.24	50.34	53.27	58.70	62.06	68.28	72.41	76.45	
	Water pressure drop	Cooling	Nom.	kPa	44.6	50.8	59.7	67.7	59.9	67.2	44.3	52.7	38.7	45.9	51	56.3	
Air heat exchanger	Type				Microchannel												
Compressor	Type				Inverter driven single screw compressor												
	Quantity				2												
Fan	Type				Direct propeller, on/off fans												
	Quantity				14		16	18	20	22	24	26	24	26	28	30	
	Air flow rate	Nom.		l/s	71,438		81,644	91,849	102,054	112,259	122,464	132,670	122,464	132,670	142,876	153,081	
	Speed			rpm	900												
Sound power level (SSC2)	Cooling	Nom.		dBA	98		99	100	101		102	103	102		103	104	
Sound power level (SLC2)	Cooling	Nom.		dBA	101		102	103	104	105	106	107	105	106	107	108	
Sound pressure level (SSC2)	Cooling	Nom.		dBA	77			78			79		80	79		80	
Sound pressure level (SLC2)	Cooling	Nom.		dBA	80			81		82		83	84	83		84	85
Refrigerant	Type/GWP				R-1234(ze)/7												
	Charge				kg	120		130	141	150	175	200	220	200	220	250	270
	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	408.6	433.3	493.5	521.5	549.9	579.6	612.7	668.8	718.8	780.9	848.9	934.8	
	Max			A	609.0	640.0	717.0	763.0	811.0	869.0	924.0	1,032.0	1,029.0	1,119.0	1,198.0	1,226.0	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

performances according to CSS software 10.27



Air cooled screw inverter chiller, standard efficiency, reduced sound

- › Optimized energy efficiency both at full and part load conditions
- › New single screw compressor geometry allowing performance optimization
- › HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- › Refrigerant cooled inverter mounted on compressor all across the range
- › New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,600 kW
- › Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- › Microchannel coils



Cooling Only				EWAH-TZSRC2	710	770	880	940	990	H10	C11	C12	C13	C14	C15	C16
Space cooling	A Condition 35°C Pdc			kW	696.3	749.16	859.56	922.06	970.53	1,034.22	1,095.25	1,204.39	1,273.47	1,399.7	1,484.25	1,551.82
	ηs,c			%	204.76	202.64	202.68	204.16	209.88	207.24	210.36	207.08	216.56	213.72	213.96	213.16
SEER					5.194	5.141	5.142	5.179	5.322	5.256	5.334	5.252	5.489	5.418	5.424	5.404
Cooling capacity	Nom.			kW	696.3	749.2	859.6	922.1	970.5	1,034	1,095	1,204	1,273	1,400	1,484	1,552
Power input	Cooling	Nom.		kW	232.1	253	290.9	309.1	318.8	340.5	354	396.4	424.2	479.7	524.7	581
Capacity control	Method				Inverter controlled											
	Minimum capacity			%	12.5											
EER					3.001	2.962	2.955	2.983	3.044	3.038	3.094	3.038	3.002	2.918	2.829	2.671
IPLV					5.43	5.4	5.36	5.37	5.52	5.46	5.49	5.35	5.79	5.73	5.71	
Dimensions	Unit	Height	mm	2,540												
		Width	mm	2,280												
		Length	mm	6,909		7,809	8,709	9,602	10,510	11,402	12,302	11,402	12,302	13,202	14,102	
Weight	Unit			kg	7,033		7,660	8,093	8,900	9,288	10,073	10,475	10,716	11,134	11,564	12,037
	Operation weight			kg	7,313		8,152	8,585	9,483	9,871	11,116	11,518	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube											
	Water volume			l	280		492		583		1,043		1,011			
	Water flow rate	Cooling	Nom.	l/s	33.21	35.73	41.00	43.98	46.29	49.32	52.23	57.43	60.72	66.74	70.77	73.99
	Water pressure drop	Cooling	Nom.	kPa	42.8	48.9	57.3	64	57.8	64.8	42.7	50.7	37.2	44.1	48	53.1
Air heat exchanger	Type				Microchannel											
Compressor	Type				Inverter driven single screw compressor											
	Quantity				2											
Fan	Type				Direct propeller, on/off fans											
	Quantity				14		16	18	20	22	24	26	24	26	28	30
	Air flow rate Nom.			l/s	51,803	59,430	66,660	74,287	81,518	89,145	96,375	89,145	96,375	104,002	111,232	
	Speed			rpm	700											
Sound power level	Cooling	Nom.		dBA	91		92	93	94		95	96	95		96	97
Sound pressure level	Cooling	Nom.		dBA	70			71	72			73	72	73		74
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge			kg	120		130	141	150	175	200	220	200	220	250	270
	Circuits	Quantity			2											
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		219.1mm				273mm					
Unit	Starting current	Max		A	0											
		Cooling	Nom.	A	414.9	446.8	505.2	529.7	554.4	581.0	611.1	667.2	736.4	796.5	863.9	952.0
		Max	A	609.0	640.0	717.0	763.0	811.0	869.0	924.0	1,032.0	1,029.0	1,119.0	1,198.0	1,226.0	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

performances according to CSS software 10.27

Air cooled screw inverter chiller, high efficiency, standard/low sound

- › High energy efficiency both at full and part load conditions
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- › Refrigerant cooled inverter mounted on compressor all across the range
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- › Microchannel coils



Cooling Only				EWAH-TZXSC2/XLC2		670	780	840	950	C10	C11	C12	C13	C14	C15
Space cooling	A Condition 35°C Pdc			kW	669.32	783.42	840.22	947.7	1,014.01	1,119.73	1,236.7	1,347.06	1,442.56	1,526.76	
	ηs,c			%	209.96	211.56	212.8	215.88	216.72	213.16	219.2	218.36	217.48	216.32	
SEER					5.324	5.364	5.395	5.472	5.493	5.404	5.555	5.534	5.512	5.483	
Cooling capacity	Nom.			kW	669.3	783.4	840.2	947.7	1,014	1,120	1,237	1,347	1,443	1,527	
Power input	Cooling	Nom.		kW	206	242	260.2	292.4	310.6	351.7	380.1	420.4	460.7	507.5	
Capacity control	Method				Inverter controlled										
	Minimum capacity			%	12.5										
EER					3.249	3.237	3.229	3.241	3.264	3.184	3.253	3.204	3.131	3.009	
IPLV					5.59		5.6	5.64	5.66	5.53	5.86	5.8	5.76	5.7	
Dimensions	Unit	Height	mm	2,540											
		Width	mm	2,280											
		Length	mm	6,909	7,809	8,709	10,510	11,402	12,302	11,402	12,302	13,202	14,102		
Weight	Unit			kg	7,033	7,660	8,093	9,288	10,073	10,475	10,716	11,134	11,564	12,037	
	Operation weight			kg	7,313	8,152	8,585	9,871	11,116	11,518	11,727	12,145	12,575	13,048	
Water heat exchanger	Type				Shell and tube										
	Water volume			l	280	492		583	1,043		1,011				
	Water flow rate	Cooling	Nom.	l/s	31.92	37.36	40.07	45.20	48.35	53.39	58.97	64.23	68.78	72.80	
	Water pressure drop	Cooling	Nom.	kPa	39.9	48.5	54	55.3	37.2	44.5	35.3	41.1	46.5	51.5	
Air heat exchanger	Type				Microchannel										
Compressor	Type				Inverter driven single screw compressor										
	Quantity				2										
Fan	Type				Direct propeller, on/off fans										
	Quantity				14	16	18	22	24	26	24	26	28	30	
	Air flow rate Nom.			l/s	53,389	61,016	68,643	83,897	91,524	99,151	122,464	132,670	142,876	153,081	
	Speed			rpm	700					900					
Sound power level (XSC2)	Cooling	Nom.		dBA	98	99	100	101	103	105	104	105	106	107	
Sound power level (XLC2)	Cooling	Nom.		dBA	93	95		96	98	99	101	102		103	
Sound pressure level (XSC2)	Cooling	Nom.		dBA	76	78		79	80	82			83		84
Sound pressure level (XLC2)	Cooling	Nom.		dBA	72	73		74	75	76	79			80	
Refrigerant	Type/GWP				R-1234(ze)/7										
	Charge			kg	120	130	141	175	200	220	200	220	250	270	
	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	373.9	431.3	459.1	513.1	544.2	604.8	660.3	717.4	778.2	848.9
	Running current	Max		A	588.0	625.0	693.0	754.0	836.0	936.0	967.0	1,042.0	1,132.0	1,157.0	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

performances according to CSS software 10.27

Air cooled screw inverter chiller, high efficiency, reduced sound

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Cooling Only				EWAH-TZXRC2		670	780	840	950	C10	C11	C12	C13	C14	C15
Space cooling	A Condition 35°C Pdc			kW	669.17	783.17	840	947.47	1,013.69	1,119.41	1,212.9	1,321.24	1,415.52	1,497.21	
	ηs,c			%	208.32	211.4	212.68	215.84	216.12	212.64	219.4	220.16	218.84	217.44	
SEER					5.283	5.36	5.392	5.471	5.478	5.391	5.56	5.579	5.546	5.511	
Cooling capacity	Nom.			kW	669.2	783.2	840	947.5	1,014	1,119	1,213	1,321	1,416	1,497	
Power input	Cooling	Nom.		kW	206.2	243.3	261.9	292.6	310.8	351.9	382.2	426	467.4	514.6	
Capacity control	Method				Inverter controlled										
	Minimum capacity			%	12.5										
EER					3.246	3.219	3.207	3.238	3.261	3.181	3.174	3.101	3.029	2.91	
IPLV					5.58		5.59	5.63	5.65	5.52	5.94	5.86	5.81	5.79	
Dimensions	Unit	Height	mm	2,540											
		Width	mm	2,280											
		Length	mm	6,909	7,809	8,709	10,510	11,402	12,302	11,402	12,302	13,202	14,102		
	Weight	Unit	kg	7,033	7,660	8,093	9,288	10,073	10,475	10,716	11,134	11,564	12,037		
	Operation weight			kg	7,313	8,152	8,585	9,871	11,116	11,518	11,727	12,145	12,575	13,048	
Water heat exchanger	Type				Shell and tube										
	Water volume			l	280	492	583	1,043	1,011						
	Water flow rate	Cooling	Nom.	l/s	31.91	37.35	40.06	45.19	48.34	53.38	57.83	63.00	67.49	71.39	
	Water pressure drop	Cooling	Nom.	kPa	39.9	48.4	54	55.3	37.2	44.4	34.1	39.7	44	49.7	
Air heat exchanger	Type				Microchannel										
Compressor	Type				Inverter driven single screw compressor										
	Quantity				2										
Fan	Type				Direct propeller, on/off fans										
	Quantity				14	16	18	22	24	26	24	26	28	30	
	Air flow rate	Nom.		l/s	51,803	59,430	66,660	81,518	89,145	96,375	89,145	96,375	104,002	111,232	
	Speed			rpm	700										
Sound power level	Cooling	Nom.		dBA	90	91	92	93	94	95	94	95	96		
Sound pressure level	Cooling	Nom.		dBA	69	70		71		72			73		
Refrigerant	Type/GWP				R-1234(ze)/7										
	Charge			kg	120	130	141	175	200	220	200	220	250	270	
	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	374.9	432.6	460.2	514.2	545.4	606.0	670.1	725.0	783.7	853.8	
	Running current	Max		A	588.0	625.0	693.0	754.0	836.0	936.0	967.0	1,042.0	1,132.0	1,157.0	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

performances according to CSS software 10.27

Air Cooled Screw Chiller - fix speed

- › Optimised for use with R-134a
- › Large operation range (ambient temperature down to -18°C)
- › 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
- › 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- › Extremely wide range from 290kW to over 2 MW
- › Units with stepless regulation offer the benefit of following the system energy demand at any time with high efficiency if compared to the units with step regulation. Each unit has infinitely variable capacity control from 100% down to 12.5%
- › Advanced compressor and fans design that operate at very low sound levels
- › MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions



Cooling Only				EWAD-T-SSC/SLC																																																							
Cooling capacity	Nom.			kW		293	335	374	501	525	567	704	810	933	993	1,135	1,760	1,930	2,026	2,103	1,047	1,243	1,346	1,442	1,555	1,684	1,856																																
Power input	Cooling	Nom.		kW		92.9	113	120	165	170	187	233	269	307	349	395	611	680	706	731	373	443	471	501	533	565	662																																
Capacity control	Method			%		Stepless																																																					
	Minimum capacity					12.5																																																					
SEPR						5.14	5.1	5.16	5.5		5.51	5.56	5.51		5.52	5.51	5.42		5.38	5.51	5.5	5.52	5.5	5.54	5.56	5.5																																	
EER						3.15	2.94	3.1	3.02	3.07	3.03	3.01		3.03	2.85	2.87	2.88	2.84	2.87		2.8	2.85	2.88	2.92	2.98	2.8																																	
IPLV						4.31	4.22	4.35	4.9	4.78	5.04	4.63	4.56	4.63	4.65	4.67	4.6		4.5	4.46	4.57	4.64	4.62	4.63	4.64	4.6	4.63																																
Dimensions	Unit	Height		mm		2,540																																																					
		Width		mm		2,282																																																					
		Length		mm		3,239	4,139		5,039	6,009		6,909	7,809	11,409	12,309	13,209	14,109	6,909	7,809	8,709	9,609	10,510	11,409																																				
Weight	Unit			kg		3,062	4,104	4,724	4,860	5,316	5,663	5,950	6,468	11,277	11,808	11,999		6,490	7,062	7,362	7,654	10,157	11,277	11,385																																			
	Operation weight		kg		3,162	4,274	4,894	5,030	5,402	5,903	6,240	6,768	12,148	12,761	13,034		7,002	7,554	7,842	8,134	10,657	12,148	12,338																																				
Water heat exchanger	Type			l		Shell and tube																																																					
	Water volume					89	181	164	170	164	315	240	289	502	871	953	103		518	492	470	461	522	871	953																																		
	Water flow rate	Cooling	Nom.			l/s	14	16	17.9	23.9	25	27.1	33.6	38.7	44.5	47.4	54.2	84	92	96.6	100	49.9	59.3	64.2	68.8	74.1	80.3	88.5																															
	Water pressure drop	Cooling	Nom.			kPa	24.5	31.2	45.3	34	51.8	67.2	46.9	34.4	42.9	48	57.1	40.2	43.4	43.9	46.9	44.6	35.3	46.2	56	65.9	37.1	40.4																															
Air heat exchanger	Type					Microchannel																																																					
Compressor	Type					Asymm single screw																																																					
Fan	Quantity					2						3						2						3																																			
	Type					Direct propeller, on/off fans																																																					
	Quantity					6	8		10	12		14	16	24	26	28	30	14	16	18	20	22	24																																				
	Air flow rate			Nom.		l/s		30,245	40,326		50,408	60,490		70,571	80,653	120,981	131,062	141,143	151,224	70,572	80,654	90,735	100,816	110,899	120,981																																		
Sound power level (SSC)	Cooling	Nom.	dBA		900																																																						
			98						99						100						103						100						101						103																				
			78						79						78						80						79						78						80																				
			94						95						96						97						98						100						97						98						99						100		
Sound pressure level (SLC)	Cooling	Nom.	dBA		74						75						76						77						76						77																								
Refrigerant	Type			kg		R-134a																																																					
	Charge					50	55	58	66	67	93.6	109.2	124.8	187	203	218	234	109.2	124.8	140.4	156	172	187																																				
	Circuits	Quantity				2						3						2						3																																			
Piping connections	Evaporator water inlet/outlet (OD)					114.3	139.7				168.3				219.1		273mm				219.1mm				273mm																																		
Unit	Starting current	Max	A	260	320	354	576	583	606	642	694	909	922	1,025	1,515	1,604	1,668	1,732	1,005	1,141	1,160	1,225	1,440	1,446	1,584																																		
				161	189	204	272	278	303	377	418	476	526	602	920	1,019	1,059	1,093	558	660	704	742	812	860	984																																		
				226	256	290	364	394	417	519	571	654	712	815	1,260	1,394	1,458	1,522	750	886	950	1,015	1,116	1,191	1,329																																		
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400																																																					

performances according to CSS software 10.27

Air Cooled Screw Chiller - fix speed

- › Optimised for use with R-134a
- › Large operation range (ambient temperature down to -18°C)
- › 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
- › 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- › Extremely wide range from 290kW to over 2 MW
- › Units with stepless regulation offer the benefit of following the system energy demand at any time with high efficiency if compared to the units with step regulation. Each unit has infinitely variable capacity control from 100% down to 12.5%
- › Advanced compressor and fans design that operate at very low sound levels
- › MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions



Cooling Only				EWAD-T-XSC/XLC				350	380	400	420	440	490	540	570	730	820	950	C10	C13	C14	C17	C19	C20	H10	H11	H13	H15	H16	H18	
Cooling capacity	Nom.			kW		351	379	400	418	438	492	541	560	728	822	943	1,008	1,278	1,447	1,836	2,019	2,076	1,081	1,169	1,371	1,606	1,705	1,947			
Power input	Cooling	Nom.		kW		105	115	121	128	138	159	165	175	241	271	299	333	412	482	587	660	700	348	375	439	519	551	621			
Capacity control	Method																														
	Minimum capacity			%																											
SEPR																															
EER																															
IPLV																															
Dimensions	Unit	Height		mm																											
		Width		mm																											
		Length		mm																											
Weight	Unit			kg																											
	Operation weight			kg																											
Water heat exchanger	Type																														
	Water volume			l																											
	Water flow rate	Cooling	Nom.	l/s																											
	Water pressure drop	Cooling	Nom.	kPa																											
Air heat exchanger	Type																														
Compressor	Type																														
	Quantity																														
Fan	Type																														
	Quantity																														
	Air flow rate Nom.			l/s																											
	Speed			rpm																											
Sound power level (XSC)	Cooling	Nom.		dBA																											
Sound pressure level (XSC)	Cooling	Nom.		dBA																											
Sound power level (XLC)	Cooling	Nom.		dBA																											
Sound pressure level (XLC)	Cooling	Nom.		dBA																											
Refrigerant	Type																														
	Charge			kg																											
	Circuits	Quantity																													
Piping connections	Evaporator water inlet/outlet (OD)																														
Unit	Starting current	Max		A																											
	Running current	Cooling	Nom.	A																											
	Max			A																											
Power supply	Phase/Frequency/Voltage			Hz/V																											

Air Cooled Screw Chiller - fix speed

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Cooling Only				EWAD-T-XRC																															
Cooling capacity	Nom.			kW	342	369	390	407	427	480	527	546	708	784	912	971	1,233	1,781	1,941	1,987	1,064	1,144	1,319	1,555	1,648	1,881									
Power input	Cooling	Nom.		kW	107	116	122	130	140	161	167	177	251	281	309	350	427	607	688	739	364	390	455	541	568	638									
Capacity control	Method			Stepless																															
	Minimum capacity			%	12.5																														
SEPR					5.16	5.14	5.51	5.52	5.5	5.5	5.5	5.5	5.5	5.52	5.52	5.5	5.52	5.55	5.56	5.5	5.55	5.56	5.53	5.53	5.54	5.55									
EER					3.19	3.17	3.12	3.04	2.96	3.14	3.07	2.81	2.79	2.95	2.77	2.89	2.93	2.82	2.69	2.92	2.93	2.89	2.87	2.9	2.95										
IPLV					4.25	4.3	4.93	4.73	4.75	4.97	5.06	4.98	4.53	4.64	4.65	4.63	4.54	4.72	4.66	4.68	4.56	4.65	4.52	4.64	4.61	4.7									
Dimensions	Unit	Height		mm	2,540																														
		Width		mm	2,282																														
		Length		mm	4,139		5,039				6,009				7,809		9,609		13,209		14,109		8,709		9,609		10,510		11,409		12,309		14,109		
Weight	Unit			kg	4,344		4,640			5,140	5,678		5,596		5,943	6,616		7,894		12,238		12,432		7,602		7,632		8,260		11,652		12,059		12,047	
	Operation weight			kg	4,514		4,810			5,310	5,848		5,682		6,183	6,916		8,374		13,168		13,467		8,082		8,112		8,710		12,523		12,930		12,977	
Water heat exchanger	Type			Shell and tube																															
	Water volume			l	134	129		170			164	170	315	232	289		492	522	101		502		481		871		522								
	Water flow rate	Cooling	Nom.	l/s	16.3	17.6	18.6	19.4	20.4	22.9	25.1	26.1	33.8	37.4	43.5	46.3	58.8	84.9	92.6	94.7	50.7	54.5	62.9	74.1	78.6	89.7									
	Water pressure drop	Cooling	Nom.	kPa	21.3	27.4	19.1	20.6	22.4	44.1	37.2	35	30.4	35.4	41.1	46	34.8	40.6	42.8	44.7	50.8	57.8	42	32.1	35.7	44.9									
Air heat exchanger	Type			Microchannel																															
Compressor	Type			Asymm single screw																															
	Quantity			2										3					2			3													
Fan	Type			Direct propeller, on/off fans																															
	Quantity			8		10				12				16		20	28	30	18	20	22	24	26	30											
	Air flow rate	Nom.		l/s	29,963				37,275				44,943				59,568				59,213	74,906	105,581	113,250		67,237	74,550	82,219	90,600	98,269	113,250				
	Speed			rpm	700																														
Sound power level	Cooling	Nom.		dBA	89	90				91				92		93	95				92	93	94				95								
Sound pressure level	Cooling	Nom.		dBA	69				70				71				72		70	71	72				71										
Refrigerant	Type			R-134a																															
	Charge			kg	52	54	65	66			72	93.6		124.8		156	218	234		140.4	156	171.6	187	203	234										
	Circuits	Quantity		2										3					2			3													
Piping connections	Evaporator water inlet/outlet (OD)				139.7										168.3				219.1		273mm		219.1mm			273mm									
Unit	Starting current	Max	A		296	340	361	454	478	583	589	612	642	694	916	929	1,154	1,528	1,616	1,674	1,018	1,038	1,173	1,446	1,453	1,603									
	Running current	Cooling	Nom.		A	182	197	203	216	231	267	274	291	395	439	480	537	657	928	1,037	1,100	555	593	700	828	873	974								
	Max			A	262	276	297	321	345	371	400	423	519	571	661	719	899	1,273	1,406	1,464	763	828	963	1,122	1,198	1,348									
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400																														

performances according to CSS software 10.27





Daikin, world's first company introducing a new generation of air cooled scroll chiller series with refrigerant R-32.

EWAT-B

Multi scroll chiller with R-32 refrigerant

BLUEvolution
R-32

- ✓ Top class efficiency, SEER up to 4.84. Overcoming 2021 Eco-design requirements!
- ✓ Environmental friendly refrigerant → First in the market
- ✓ New R-32 optimized scroll compressors and heat exchangers
- ✓ 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 favour
- ✓ Wide capacity range: 80 – 700 kW
- ✓ Microchannel condensing coil, for reduced refrigerant charge
- ✓ Silver and Gold efficiency versions
- ✓ 3 sound configurations
- ✓ Full compatibility with Daikin on Site
- ✓ New Hydronic Kit configurations (single and twin pump, inertial tank, VFD)
- ✓ Single and dual circuit version overlapping between 150 kW and 350 kW
 - › Single circuit units fits 2 or 3 compressors
 - › Dual circuit units fits 4 or 5 or 6 compressors
- ✓ Extensive option lists
- ✓ Fan speed modulation option (VFD)

Extensive options list
Including new options:

- › Partial heat recovery
- › Buffer tank
- › VFD pumps and variable flow control
- › Master/Slave supplied standard
- › Fan Silent Mode



Single-V Layout

- › Slim layout
- › Higher flexibility: new intermediate sound configuration for both Silver and Gold versions

Modular-V Layout:

- › Brand new layout
- › Better part load efficiency (SEER) vs. previous generation:
 - › +4% with standard arrangement
 - › +7% with VFD fan option



Free-cooling options

It's the capability of a system/equipment to cool air or water by taking advantage of the favorable outdoor conditions when ambient temperature is reducing, for example during winter or intermediate season or even during night time operation. Free cooling operation allows to reduce the power consumption generated by traditional mechanical cooling (e.g. Compressors).

The use of the outdoor ambient as a source for cooling is the perfect way to answer to the new "EPBD Directive" (Energy Performance of Buildings Directive):

Free-cooling - Light

Refrigerant migration system allowing to recover up to 25% of normal unit capacity.

Free-cooling - Full

Refrigerant migration system allowing to recover up to 25% of normal unit capacity.

Benefits

- › Glycol free solution
- › No refrigerant pump required
- › No extra footprint vs standard unit
- › No extra pressure drops on water side

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 GSM modem



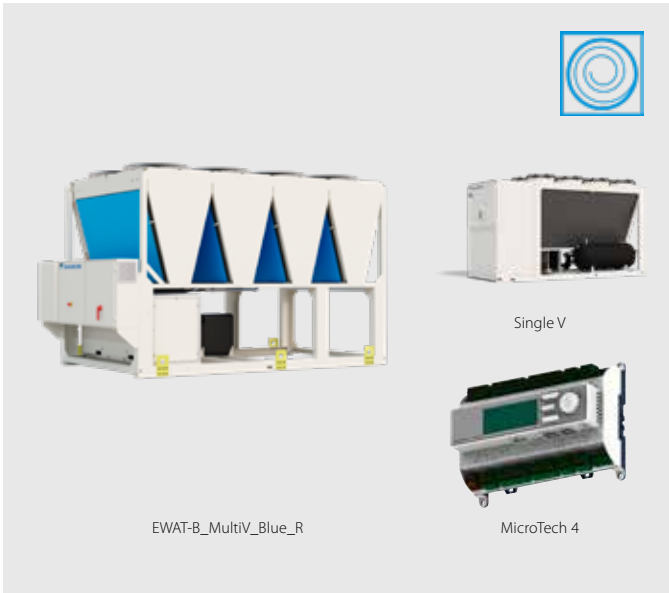
Connection to Intelligent Chiller Manager

In case of more complex installations 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:

- › High number of units
- › Peripheral controls

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

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



Cooling Only				EWAT-B-SSB/SLB				085	115	135	155	175	195	205	215	240	260	290	310	330	340	350	420	460	510	570	610	670					
Space cooling	A Condition 35°C Pdc			kW	80.92	108.97	131.42	158.15	174.93	191.39	210.53	217.08	241.41	260.58	282.93	306.42	329.59	343.51	350.1	416.28	467.54	513.41	566.53	611.64	667.91								
	ηs,c			%	161	173	161	176.2	170.6	173	161	171.8	162.6	173.8	177.8	170.2	174.6	166.6	179.4	179.4	179.4	179.4	179	179									
	ηs,c + VFDFAN			%	-																175.4	165.4	177.8	182.6	173.4	183.4	169.4	179.8	182.2	181.8	179.4	180.2	183.8
SEER					4.1	4.4	4.1	4.48	4.34	4.4	4.1	4.37	4.14	4.42	4.52	4.33	4.44	4.24	4.56				4.55										
SEER + VFDFAN					-																4.46	4.21	4.52	4.64	4.41	4.66	4.31	4.57	4.63	4.62	4.56	4.58	4.67
Cooling capacity	Nom.			kW	81	109	131	158	175	191	211	217	241	261	283	306	330	344	350	416	468	513	567	612	668								
Power input	Cooling	Nom.		kW	31.8	38.5	49.8	61.9	67.8	69.5	80	85.8	85.2	95.6	108	113	122	117	132	147	171	186	216	230	238								
Capacity control	Method				Step																												
	Minimum capacity			%	50	38	50	25	38	21	19	50	17	25	24	14	13	33	19	17	15	14	12	11	17								
EER					2.55	2.83	2.64	2.55	2.58	2.75	2.63	2.53	2.83	2.73	2.62	2.72	2.71	2.94	2.65	2.84	2.73	2.76	2.63	2.66	2.8								
IPLV					4.65	4.92	4.46	4.68	4.78	4.84	4.86	4.7	4.67	4.44	4.74	4.86	4.63	4.8	4.56	4.87	4.84	4.81	4.89	4.9	4.86								
EER + VFDFAN					-																2.83	2.73	2.62	2.72	2.7	2.93	2.65	2.83	2.73	2.76	2.62	2.66	2.8
IPLV + VFDFAN					-																4.81	4.27	4.55	5.02	4.75	5	4.7	4.91	4.89	4.9	4.93	4.89	5
Dimensions	Unit	Height	mm	1,801		1,822		1,801		1,822												2,540											
		Width	mm	1,204																				2,236									
		Length	mm	2,120	2,660	3,570	3,180	4,170		3,780	2,326				3,226				4,126				5,025				5,874						
Weight (SSB)	Unit	kg	681	767	811	1,007	984	1,166	1,158	1,184	1,712	1,739	1,912	2,186	2,214	2,343	2,242	2,721	2,881	3,037	3,278	3,712	4,073										
	Operation weight	kg	686	773	820	1,014	996	1,177	1,169	1,200	1,723	1,750	1,928	2,205	2,233	2,363	2,261	2,749	2,909	3,065	3,320	3,754	4,115										
Weight (SLB)	Unit	kg	691	777	821	1,028	994	1,187	1,179	1,194	1,815	1,842	2,004	2,289	2,317	2,434	2,345	2,824	3,066	3,223	3,484	3,918	4,279										
	Operation weight	kg	696	783	830	1,035	1,006	1,198	1,190	1,210	1,826	1,853	2,020	2,308	2,336	2,454	2,364	2,852	3,094	3,251	3,526	3,960	4,321										
Water heat exchanger	Type				Braze plate																												
	Water volume			l	5	6	9	7	12	11	16	11		16		19		20		19		28		42									
	Water flow rate	Cooling	Nom.	l/s	3.9	5.2	6.3	7.6	8.4	9.1	10.1	10.4	11.5	12.4	13.5	14.6	15.7	16.4	16.7	19.9	22.3	24.5	27	29.2	31.9								
	Water pressure drop	Cooling	Nom.	kPa	27.3	34.4	26.5	64.2	41.7	45.9	54.4	41.4	69.7	80	66.7	46.4	52.9	77.2	59	54.5	67.2	79.6	65.4	75.1	88								
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				4	6	8		10		4				5				6	5	7		8		9	11							
	Air flow rate Nom.			l/s	6,022	9,036	13,354		12,023		16,710		15,057		20,306		25,382		30,459		25,382		35,535		40,612		45,688		55,841				
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	93.3	93.8	94.8	94.9	95.3	96.1	95.6	96.7	97	97.6	97.8	98.3	99								
Sound power level (SLB)	Cooling	Nom.		dBA	83.7	86.2	87	86.7	88.8	88.1	88.7	90	90.8	91	91.8	91.9	92.7	91.9	93.3	93.4	93.9	94	94.5	95.3									
Sound pressure level (SSB)	Cooling	Nom.		dBA	67.4	70.5	72	69.5	73.8	71.3	72.3	74.8	74.3	74.8	75.8	75.4	75.8	76.6	76.1	76.7	77	77.6	77.9	78.2									
Sound pressure level (SLB)	Cooling	Nom.		dBA	66.3	68.5	69.3	68.4	70.7	69.5	70.1	71.6	71.8	72	72.3	72.4	73.2	72.4	73.3	73.4	74	74.1	74.6										
Refrigerant	Type/GWP				R-32/675																												
	Charge (SSB)			kg	7.1	8.4	12.4	10.7	14.1	14.4	12.7	19	18	18.8	25.5	25	26	25.2	34.3	36.5	40	42	46.1	52.5									
	Charge (SLB)			kg	7.1	8.2	8.4	12.4	10.7	14	13.4	12.7	19	18	19	25.5	26.5	27	24.3	34.3	36.1	39.7	42	45.5	55.5								
	Circuits	Quantity			1		2		1		2		1		2		1		2		1		2										
Piping connections	Evaporator water inlet/outlet (OD)				76.1		88.9		76.1		88.9		76.1		88.9		76.1		88.9				114.3										
Unit	Starting current	Max	A	213	313	324	284	462	384	395	498	410	420	546	573	583	588	594	636	681	719	763	801	843									
		Running current	Cooling	Nom.	A	59	69	83	108	113	117	131	142	147	160	179	194	206	196	219	238	285	310	358	381	398							
	Running current	Max	A	73	86	96	143	132	156	167	168	182	193	213	216	243	254	258	265	307	351	389	433	471	513								
Power supply	Phase/Frequency			Hz	3~/50																												

Air cooled scroll chiller, standard efficiency, reduced sound

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



Cooling Only				EWAT-B-SRB										085	115	135	155	175	195	205	215	240	260	290	310	330	340	350	420	460	510	570	610	670
Space cooling	A Condition 35°C Pdc			kW	76.49	105	123.88	150.13	164.87	181.31	200.51	203.5	231.19	248.68	266.45	290.26	311.62	329.53	330.8	398.49	443.51	488.06	534.23	578.74	637.95									
	ηs,c			%	161	173	161	166.2	162.2	167.8	161	179.8	164.2	174.2	172.2	173.8	179	165	179	179.8	179.4			179										
SEER					4.1	4.4	4.1	4.23	4.13	4.27	4.1	4.57	4.18	4.43	4.38	4.42	4.55	4.2	4.55	5.57	4.56			4.55										
Cooling capacity	Nom.			kW	76	105	124	150	165	181	201	204	231	249	266	290	312	330	331	398	444	488	534	579	638									
Power input	Cooling	Nom.		kW	33.7	40.3	53	65.9	73	73.2	84.6	91.9	89	99.9	115	119	129	122	140	147	181	197	230	244	251									
Capacity control	Method				Step																													
	Minimum capacity			%	50	38	50	25	38	21	19	50	17	25	24	14	13	33	19	17	15	14	12	11	17									
EER					2.27	2.61	2.34	2.28	2.26	2.48	2.37	2.21	2.6	2.49	2.31	2.44	2.41	2.7	2.35	2.71	2.45	2.48	2.32	2.37	2.55									
IPLV					4.67	4.97	4.5	4.63	4.74	4.64	4.91	4.66	4.93	4.27	4.51	4.82	4.7	5	4.72	4.81	4.92	4.93	5.04	5.03	5.01									
Dimensions	Unit	Height	mm	1,801										1,822										2,540										
		Width	mm	1,204																				2,236										
		Length	mm	2,120	2,660	3,570	3,180	4,170		3,780	2,326			3,226			4,126			5,025			5,874											
Weight	Unit			kg	691	777	821	1,028	994	1,187	1,179	1,194	1,815	1,842	2,004	2,289	2,317	2,434	2,345	2,824	3,066	3,223	3,484	3,918	4,279									
	Operation weight			kg	696	783	830	1,035	1,006	1,198	1,190	1,210	1,826	1,853	2,020	2,308	2,336	2,454	2,364	2,852	3,094	3,251	3,526	3,960	4,321									
Water heat exchanger	Type			Braze plate																														
	Water volume			l	5	6	9	7	12	11		16	11	16	19		20	19	28			42												
	Water flow rate	Cooling	Nom.	l/s	3.7	5	5.9	7.2	7.9	8.7	9.6	9.7	11	11.9	12.7	13.9	14.9	15.7	15.8	19	21.2	23.3	25.5	27.6	30.4									
	Water pressure drop	Cooling	Nom.	kPa	24.6	32.2	23.8	58.5	37.5	41.6	49.9	36.8	64.5	73.5	59.9	42.1	47.8	71.7	53.2	50.4	61.1	72.7	58.9	68	81									
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			4	6		8		10			4			5		6	5	7		8		9	11										
	Air flow rate	Nom.		l/s	4,929	7,396		11,352		9,838	14,202		12,325	17,064		21,330		25,596	21,330	29,862		34,128		38,394	46,926									
	Speed			rpm	1,200										780																			
Sound power level	Cooling	Nom.		dBa	78.6	82.5	84.1	81.6	86.3	83.9	85.2	87.8	87	87.2	87.5	88.2	88.3	89.1	88.4	89.8		90.4	90.5	91	91.8									
Sound pressure level	Cooling	Nom.		dBa	61.2	64.7	66.4	63.3	68.3	65.3	66.6	69.4	68.1	68.2	68.5	68.7	68.8	69.6	68.9	69.8	69.9	70.5		70.6	71.1									
Refrigerant	Type/GWP			R-32/675																														
	Charge			kg	7.1	8.4		13	10.7	13.9	14.4	12.3	18.2	18.8	19	25.7	25	25.5	24	34.3	35.5	40.6	41.5	44.4	44.7									
	Circuits	Quantity		1		2		1	2		1	2		1		2		1		2														
Piping connections	Evaporator water inlet/outlet (OD)				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	213	313	324	284	462	384	395	498	410	420	546	573	583	588	594	636	681	719	763	801	843									
	Running current	Cooling	Nom.	A	62	71	87	115	119	123	139	151		165	189	202	216	202	231	245	298	324	378	402	414									
		Max		A	73	86	96	143	132	156	167	168	182	193	216	243	254	258	265	307	351	389	433	471	513									
Power supply	Phase/Frequency			Hz	3~/50																													

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

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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	4.38	4.47	4.4	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					-	-	-	4.62	-	4.48	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					4.83	5	4.82	4.65	4.74	4.67	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 + VFDFAN					-	-	-	5.11	-	4.87	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	2,236	1,204											2,236													
		Length	mm	2,660	3,180	3,780	2,326	3,780											4,126											
Weight (XSB)	Unit	kg	737	830	949	1,633	1,066	1,663	1,699	2,082	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	2,098	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	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				Braze plate																									
	Water volume			l	5	6	9	11	12	11	16	14	19	20	19	20	28	42	50											
	Water flow rate			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			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		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	93.3	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 (XSB)			kg	8.6	9.7	10.7	19.4	11.2	19.7	19.8	23.5	24	27.3	26.8	28	27.6	32	31	36	43.5	46.8	55	60	66					
	Charge (XLB)			kg	8.6	9.4	11.2	18.8	11.2	19.4	19.1	23.7	23.4	29.1	26.6	27.4	27.6	30.3	32.2	35.1	43.5	48	53.8	61	64.9					
	Circuits	Quantity			1	2	1	2	1	2	1	2	1	2	1	2	1		2											
Piping connections	Evaporator water inlet/outlet (OD)					76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9		114.3									
Unit	Starting current	Max		A	215	315	328	290	464	388	399	506	414	543	554	564	592	602	640	678	727	779	817	855						
	Running current	Cooling	Nom.	A	56	67	78	110	108	122	135	128	145	158	168	170	183	192	208	234	259	298	334	360	387					
			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



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			%	213.28	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	5.1	4.76	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	2,540																												
		Width	mm	2,236																												
		Length	mm	2,660	3,180	3,780	2,326	3,780	2,326	3,226										4,126		5,025	5,874	6,774								
Weight	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	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			Braze 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	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		4		5		6											
Fan	Type			Direct propeller																												
	Quantity			6	8	10	4	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			1,102			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	8.4	9.1	10.3	12	11.8	19.1	18.9	22.7	22.5	28.7	27.3	28	26.6	30	33.2	35	40.9	48.2	51.5	59.2	62							
	Circuits	Quantity			1		2		1	2		1		2		1		2		1		2										
Piping connections	Evaporator water inlet/outlet (OD)				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 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



Heating & Cooling				EWYA-D	004DV3P	006DV3P	008DV3P
 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)
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		
Compressor	Type				Hermetically sealed swing compressor		
	Quantity				1		
Fan	Type				Propeller fan		
	Quantity				1		
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		
	Water side	Cooling	Min.~Max.	°CDB	5 (3)~22		
		Heating	Min.~Max.	°CDB	9 (3)~65 (3)		
Refrigerant	Type/GWP				R-32/675.0		
	Charge		kg		1.35		
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50 /230 +/-10%		

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

Air cooled mini inverter heat pump

- › Choosing 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



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	221
SEER					5.62 (6)	5.79 (6)	5.71 (6)	5.59 (6)
Space heating	Average climate water outlet 35°C	General	SCOP	Seasonal space heating eff. class	4.82	4.73	4.70	4.69
					A+++			
Cooling capacity	Nom.			kW	9.35 (2) / 9.10 (3)	11.6 (2) / 11.5 (3)	12.8 (2) / 12.7 (3)	14.0 (2) / 15.3 (3)
Heating capacity	Nom.			kW	9.37 (4) / 9.00 (5)	10.6 (4) / 9.82 (5)	12.0 (4) / 12.5 (5)	16.0 (4) / 16.0 (5)
Power input	Cooling	Nom.		kW	2.79 (2) / 1.71 (3)	3.56 (2) / 2.17 (3)	4.06 (2) / 2.51 (3)	4.58 (2) / 3.24 (3)
	Heating	Nom.		kW	1.91 (4) / 2.43 (5)	2.18 (4) / 2.68 (5)	2.46 (4) / 3.42 (5)	3.53 (4) / 4.56 (5)
Capacity control	Method				Variable (inverter)			
EER					3.35 (2) / 5.34 (3)	3.26 (2) / 5.31 (3)	3.16 (2) / 5.04 (3)	3.06 (2) / 4.74 (3)
COP					4.91 (4) / 3.71 (5)	4.83 (4) / 3.66 (5)	4.87 (4) / 3.64 (5)	4.53 (4) / 3.51 (5)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Depth		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m³/min	63	70	85	
Sound power level	Cooling	Heating	Nom.	m³/min	48.0	55.8	70.4	85.0
				dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Heating	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 (1)~60 (1)			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
Refrigerant charge	Circuits	Quantity			1			
	Per circuit			kg	3.80			
Unit	Running	Max			2.6			
		current		A	30.8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /230			

(1)For more details, see operation range drawing | (2)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (3)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (4)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (5)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (6)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
- › Daikin swing compressor
- › New casing for the outdoor units
- › Separate MMI-2 controller for indoor installation



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	5.79	5.71	5.59
 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			
		Length		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			
Fan	Quantity				1			
	Type				Propeller fan			
	Quantity				1			
Air flow rate	Cooling	Nom.		m³/min	63	70	85	
		Heating	Nom.	m³/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			
		Heating	Min.~Max.	°CDB	9 ~60			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
Refrigerant charge	Circuits		Quantity		1			
	Per circuit			kg	3.80			
	Per circuit			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)

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
- › Daikin swing compressor
- › New casing for the outdoor units
- › Separate MMI-2 controller for indoor installation



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		5.79		5.71		5.59	
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							
		Length		mm	460							
Weight	Unit			kg	147							
Water heat exchanger	Type				Plate heat exchanger							
	Water volume			l	2							
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler							
Compressor	Type				Hermetically sealed swing inverter compressor							
	Quantity				1							
Fan	Type				Propeller fan							
	Quantity				1							
	Air flow rate	Cooling	Nom.	m³/min	63	70		85				
Heating		Nom.	m³/min	48.0	55.8		70.4		85.0			
Sound power level	Cooling	Nom.		dBA	65.5	67.0		69.0		51.0		
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 ~60							
Refrigerant	Type/GWP				R-32/675.0							
	Control				Electronic expansion valve							
Refrigerant charge	Circuits	Quantity			1							
		Per circuit		kg	3.80							
	Per circuit			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)

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
- › Daikin swing compressor
- › New casing for the outdoor units
- › Separate MMI-2 controller for indoor installation



Heating & Cooling				EWYA-D	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		5.79		5.71		5.59	
Space heating	Average climate water outlet 35°C	General	SCOP	Seasonal space heating eff. class		4.82		4.73		4.70		4.69	
					A+++								
Cooling capacity	Nom.				kW	9.35 (1) / 9.10 (2)		11.6 (1) / 11.5 (2)		12.8 (1) / 12.7 (2)		14.0 (1) / 15.3 (2)	
Heating capacity	Nom.				kW	9.37 (3) / 9.00 (4)		10.6 (3) / 9.82 (4)		12.0 (3) / 12.5 (4)		16.0 (3) / 16.0 (4)	
Power input	Cooling	Nom.			kW	2.79 (1) / 1.71 (2)		3.56 (1) / 2.17 (2)		4.06 (1) / 2.51 (2)		4.58 (1) / 3.24 (2)	
	Heating	Nom.			kW	1.91 (3) / 2.43 (4)		2.18 (3) / 2.68 (4)		2.46 (3) / 3.42 (4)		3.53 (3) / 4.56 (4)	
Capacity control	Method					Variable (inverter)							
EER						3.35 (1) / 5.34 (2)		3.26 (1) / 5.31 (2)		3.16 (1) / 5.04 (2)		3.06 (1) / 4.74 (2)	
COP						4.91 (3) / 3.71 (4)		4.83 (3) / 3.66 (4)		4.87 (3) / 3.64 (4)		4.53 (3) / 3.51 (4)	
Dimensions	Unit	Height			mm	870							
		Width			mm	1,380							
		Length			mm	460							
Weight	Unit				kg	147							
Water heat exchanger	Type					Plate heat exchanger							
	Water volume				l	2							
Air heat exchanger	Type					High efficiency fin and tube type with integral subcooler							
Compressor	Type					Hermetically sealed swing inverter compressor							
	Quantity					1							
Fan	Type					Propeller fan							
	Quantity					1							
	Air flow rate	Cooling	Nom.	m³/min	63	70				85			
		Heating	Nom.	m³/min	48.0	55.8				70.4		85.0	
Sound power level	Cooling	Nom.		dBA	65.5	67.0				69.0			
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7				50.8		51.0	
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43								
		Heating	Min.~Max.	°CDB	-25~25								
	Water side	Cooling	Min.~Max.	°CDB	5~22								
		Heating	Min.~Max.	°CDB	9 ~60								
					R-32/675.0								
					Electronic expansion valve								
Refrigerant	Type/GWP												
	Control												
	Circuits Quantity				1								
Refrigerant charge	Per circuit				kg	3.80							
	Per circuit				TCO2Eq	2.6							
Unit	Running current	Max		A	30.8								
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/230							

(1)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C)





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 favour
- ✓ Wide 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



Layouts & Range overview

Parallel coils



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

Double-V coils



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

Extensive option lists Including new options:

Partial heat recovery

Introduction of condensation control allowing to maintain heat recovery capacity at lower ambient temperatures with unit operating at full capacity

Buffer tank

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

VFD pumps and variable flow control

- › Variable pump speed control via external 0-10 volt signal
- › "Thermostat on" and "thermostat off" pump speed management
- › Variable primary flow control

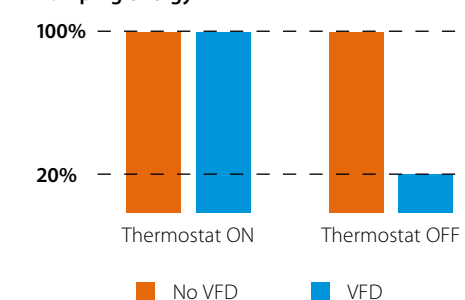
Master/Slave supplied as standard

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

Fan Silent Mode

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

Pumping energy



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

- › First R-32 air cooled heat pump with Scroll compressors in the market
- › Choosing 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



Heating & Cooling				EWYT-B-SS/SL		085	105	135	175	205	215	235	255	300	340	390	430	490	540	590	630	300- VDFAN	340- VDFAN	390- VDFAN	430- VDFAN	490- VDFAN	540- VDFAN	590- VDFAN	630- VDFAN						
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	4.28	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	72.1	78.7	86.4	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	2.67	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						2.921	2.911	2.922	2.881	2.892	2.89	2.877	2.945	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										2,514																					
			Width	mm		1,195										2,282																			
			Length	mm		2,225	2,825	3,425		4,350	4,025	4,950		3,225		4,125		5,025		3,225		4,125		5,025											
Weight (SS)	Unit			kg	955	1,065	1,165	1,320	1,500		1,800	1,825	2,100	2,250	3,180	3,190	3,180	3,370	4,267		2,100	2,250	3,180	3,190	3,180	3,370	4,267								
	Operation weight			kg	962	1,072	1,172	1,327	1,511		1,811	1,839	2,114	2,270	3,200	3,210	3,207	3,397	4,302		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	985	1,095	1,195	1,350	1,530		1,830	1,855	2,260	2,410	3,340	3,350	3,340	3,530	4,427		2,260	2,410	3,340	3,190	3,180	3,370	4,267								
	Operation weight			kg	992	1,102	1,202	1,357	1,541		1,841	1,869	2,274	2,430	3,360	3,370	3,367	3,557	4,462		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								
	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 (SS)			kg	12.7	15.8	18.5	26	34	34.8	37.2	41.4	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							
	Charge (SL)			kg	12.7	15.8	18.5	26	34	34.8	37.2	41.4	39.9	48	48.1	48.6	50	70	78.5	80	39.9	48	48.1	48.6	50	70	78.5	80							
	Circuits	Quantity			1		2		1		2																								
Piping connections	Evaporator water inlet/outlet (OD)			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							
Unit	Running current	Max	A	68.0	85.0	101.0	131.0	166.0	163.0	183.0	197.0	232.0	266.0	304.0	334.0	379.0	425.0	463.0	493.0	232	266	304	334	379	425	463	493								
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																														

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

- › First R-32 air cooled heat pump with Scroll compressors in the market
- › Choosing 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



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	80.91	105.24	131.02	167.11	207.27	209.99	233.05	251.28	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				kW	27.99	36.24	44.84	58.45	71.9	73.28	81.39	86.29	102.09	113.54	132.02	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	2.898	2.953	2.913	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	Width	mm	1,800										2,514									
				mm	1,195										2,282									
				mm	2,225	2,825	3,425	4,350	4,025	4,950		3,225		4,125					5,025					
Weight	Unit			kg	985	1,095	1,195	1,350	1,530		1,830	1,855	2,260	2,410	3,340	3,350	3,340	3,530	4,427					
	Operation weight			kg	992	1,102	1,202	1,357	1,541		1,841	1,869	2,274	2,430	3,360	3,370	3,367	3,557	4,462					
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																			
Fan	Quantity			2				4	2	4				5				6						
	Type			Direct propeller																				
	Quantity			4	6	8	10		12		5	6	8				10							
Sound power level	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 pressure level	Cooling	Nom.	dBA	78	82	84	85	84	87	86		87	88	89	89.3	89.4	89.5	90.4	90.5				
Refrigerant	Charge			kg	13.3	14.7	19.3	24.5	29	34	36.2	43	40.3	47.2	50.4	79	58.5	68.8	77.6	82				
Piping connections	Circuits	Quantity			1				2	1	2										114.3			
	Evaporator water inlet/outlet (OD)		88.9																					
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				
Unit	Running current	Max	A	68.0	85.0	101.0	131.0	166.0	163.0	183.0	197.0	232.0	266.0	304.0	334.0	379.0	425.0	463.0	493.0					
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																			

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

- › First R-32 air cooled heat pump with Scroll compressors in the market
- › Choosing 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



Heating & Cooling				EWYT-B-XS/XL																085	115	135	175	215	215	235	265	310	350	400	440	500	560	600	630	650	VDFAN 310	VDFAN 350	VDFAN 400	VDFAN 440	VDFAN 500	VDFAN 560	VDFAN 600	VDFAN 630	VDFAN 650
SEER								4.24	4.38	4.24	4.45	4.41	4.21	4.4	4.13	4.57	4.67	4.54	4.47	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.					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	1,800								2,514																																	
				Width	1,195								2,282																																
					Length																																								
							2,825	3,425	4,025	5,550	4,625	6,150	4,125	5,025	5,925	6,825	4,125	5,025	5,925	6,825	2,830	3,080	3,650	3,750	4,206	4,296	4,760	4,860	2,865	3,115	3,685.37	3,811.88	4,267.88	4,366.2	4,830.2	4,930.2									
Weight (XS)	Unit					kg	1,080	1,140	1,220	1,400	2,000	1,600	2,300	2,830	3,080	3,650	3,750	4,206	4,296	4,760	4,860	2,830	3,080	3,650	3,750	4,206	4,296	4,760	4,860																
	Operation weight					kg	1,091	1,151	1,231	1,416	2,035	1,616	2,335	2,385	2,865	3,115	3,685	3,812	4,268	4,366	4,830	4,930	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	1,110	1,170	1,250	1,430	2,030	1,610	2,330	2,380	3,140	3,240	3,810	3,910	4,366	4,456	4,920	5,020	3,140	3,240	3,650	3,750	4,206	4,296	4,760	4,860															
	Operation weight					kg	1,121	1,181	1,261	1,446	2,065	1,626	2,365	2,415	3,175	3,275	3,845	3,972	4,428	4,526	4,990	5,090	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.	I/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.	I/s	9,039	12,644	12,052	15,065	21,090	18,078	24,104	29,393	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																	
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 (XS)	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														
	Charge (XL)	kg				17.7	18.3	22	33.7	42.4	51.6	48.6	46	52.4	63	68.5	78	88.5	93	108	104	113	52.4	63	68.5	78	88.5	93	108	104	113														
	Circuits	Quantity	1				2	1	2								2																												
Piping connections	Evaporator water inlet/outlet (OD)				88.9								114.3								88.9								114.3																
Unit	Starting current	Max	A	53.0	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															
Unit	Running current	Max	A	70.0	87.0	101.0	133.0	170.0	165.0	186.0	201.0	229.0	262.0	297.0	327.0	377.0	423.0	458.0	480.0	509.0	240	274	312	342	395	441	479	509																	
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



Indoor Unit		EWYT		021CZI-A1	032CZI-A1	040CZI-A1	064CZI-A2
Casing	Colour	Ivory white					
	Material	Galvanized and painted steel sheet					
Dimensions	Unit	HeightxWidthxDepth	mm	700x1,120x830			
Weight	Unit		kg	133	144		172
Operation range	Heating	Ambient	Min.~Max.	-20 ~35			
		Water side	Min.~Max.	20 ~60			
	Cooling	Ambient	Min.~Max.	-20 ~45			
		Water side	Min.~Max.	4 ~20			
Sound power level	Nom.		dBA	63.0	64.5		66.0

Air cooled scroll inverter
heat pump, split version

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



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





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

- › Ideal solution for commercial comfort cooling and/or heating applications
- › Optimum ESEER values
- › 2-3 truly independent refrigerant circuits
- › Low starting current
- › DX shell and tube evaporator – one pass refrigerant side to 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



Heating & Cooling				EWYD-BZSS										250	270	290	320	340	370	380	410	440	460	510	530	570
SEER														3.21		3.20		3.21				3.20		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												



Air

EWYD-4Z Air to water Multipurpose unit



4-pipe system solution with full inverter technology
For independent and simultaneous cooling and heating all year round

1

Top class efficiency

Total Energy Ratio up to 8.8

Full inverter technology:
the best choice for
every application

2

Easy part load calculation
via the tool CSS WEB

3

Best solution for simultaneous
cooling and heating

Big multipurpose buildings, hotels, hospital are just
a few examples of application for multipurpose units

Daikin single screw compressor with integrated inverter and Variable Volume Ratio Technology

The inverter integrated in the compressor is refrigerant cooled:

- › Safe and robust cooling system, totally independent from outdoor ambient conditions and air quality.
- › Suitable even for aggressive installation such as industrial or desert application.

The volume ratio will change by moving the sliding valves.

VVR changes the point at which the gas leaves the compressor, and therefore changes the pressures at discharge which will be optimal at any condition.

Upon defining the design condition in the unit selection page it is possible to calculate the unit performances in every in-between condition with a different load

Check on
You Tube
www.youtube.com/
DaikinEurope

› Daikin EWYD-4Z
Multipurpose Unit



› Daikin EWYD-4Z
Multipurpose Unit –
Behind the scenes



EWYD-4ZXS2

Air to Water Multipurpose unit

- › Best solution for independent and simultaneous cooling and heating all year round
- › Daikin single screw compressor with integrated inverter and Variable Volume Ratio Technology
- › High Efficiency Inverter fans with optimized geometry ensures the best ratio between airflow and power input.
- › Wide operating envelope for cooling and heating with extra capacity in Boosted operation and Rapid Restart functionality



Multipurpose		EWYD-4ZXS2	400	450	500	550	600	650	700	800	
Air to water – cooling only (1)	Nominal Rated Capacity – Net	kW	402.4	438.4	502.8	523.4	602.4	653.7	702.9	785.7	
	EER – Net		3.06	3.04	3.13	2.97	3.13	3.07	3.25	3.17	
Air to water – heating only (2)	Nom. Rated Capacity – Net	kW	402.7	439.7	503.5	545.2	600.9	654.7	702.4	803.0	
	COP – Net		3.33	3.41	3.45	3.44	3.45	3.38	3.55	3.54	
Water to water – Cooling + heating (3)	Nom. Rated Capacity COOLNG – Net	kW	313.2	351.6	393.9	430.4	479.4	516	553.3	634.4	
	Nom. Rated Capacity HEATING – Net	kW	402.4	449.3	503.4	549.4	608.8	658.3	707.1	808.9	
	TER – Net		7.66	7.81	7.82	7.86	7.99	7.85	7.73	7.88	
Dimensions	Height	mm	2,465								
	Width	mm	2,285								
	Length	mm	5,825		6,725		7,625	8,525			
Weight	Unit Weight	kg	6,075	6,095	6,870	6,870	7,850	8,435	9,405	9,430	
	Operating Weight	kg	6,540	6,560	7,560	7,560	8,935	9,540	10,785	10,820	
	Cold/Hot side water connections	mm	219.1								
Sound level	Sound Power – Cooling (4)	dB(A)	99	98	99		100		102		
	Sound Pressure – Cooling at 1 m (5)	dB(A)	78	77		78		79	80		
Water heat exchangers	Cold Side	Water Volume	l	126	126	214	214	369	361	468	
		Water flow rate (1)	l/s	19.3	21.0	24.1	25.1	28.8	31.3	33.6	37.6
		Water pressure drop (1)	kPa	42.0	50.8	40.1	47.8	48.0	34.2	40.7	37.1
	Hot Side	Water Volume	l	126	126	214	214	369	361	468	468
		Water flow rate (2)	l/s	9.1	9.1	13.4	13.4	14.6	19.5	20.8	26.1
		Water pressure drop (2)	kPa	19.4	21.146	24.3	26.334	29	31.6	33.9	38.7
Fan	Quantity	n	10		12		14	16			
	Nominal air flow (1)	l/s	56,550		67,860		79,170	90,480			
Compressor	Type		Single screw								
	Oil charge	l	28							38	
Refrigerant circuit	Quantity	n.	2								
	Refrigerant type		R134a								
	Refrigerant charge	kg	198	207	200	219	247	260	328	354	
Power Supply	Circuits	n.	2								
	Phase/Frequency/Voltage	Hz/V	3~/50/400								

Fluid: Water; Fouling factor = 0

(1) Operation in Air to water "Cooling only" mode rated at 35°C ambient temperature, 50% R.H.; Entering water temperature 12°C, Outlet water temperature 7°C.

(2) Operation in Air to water "Heating only" mode rated at 7°C ambient temperature, 85% R.H.; Entering water temperature 40°C, Outlet water temperature 45°C.

(3) Operation in Water to water "Cooling + Heating" mode rated with water flowing on cold and hot heat exchangers determined respectively at conditions (1) and (2) - Chilled water outlet temperature 7°C, Hot water outlet temperature 45°C.

(4) Sound power level are referred to condition (1) for Cooling and (2) for Heating. The data are measured in accordance with ISO 9614 and Eurovent 8/1 for Eurovent certified units. The certification refers only to the overall sound power level.

(5) Sound pressure is calculated from the sound power level and it is for information only and not considered binding. All the above data are referred to standard units without options and are subject to change without notice.

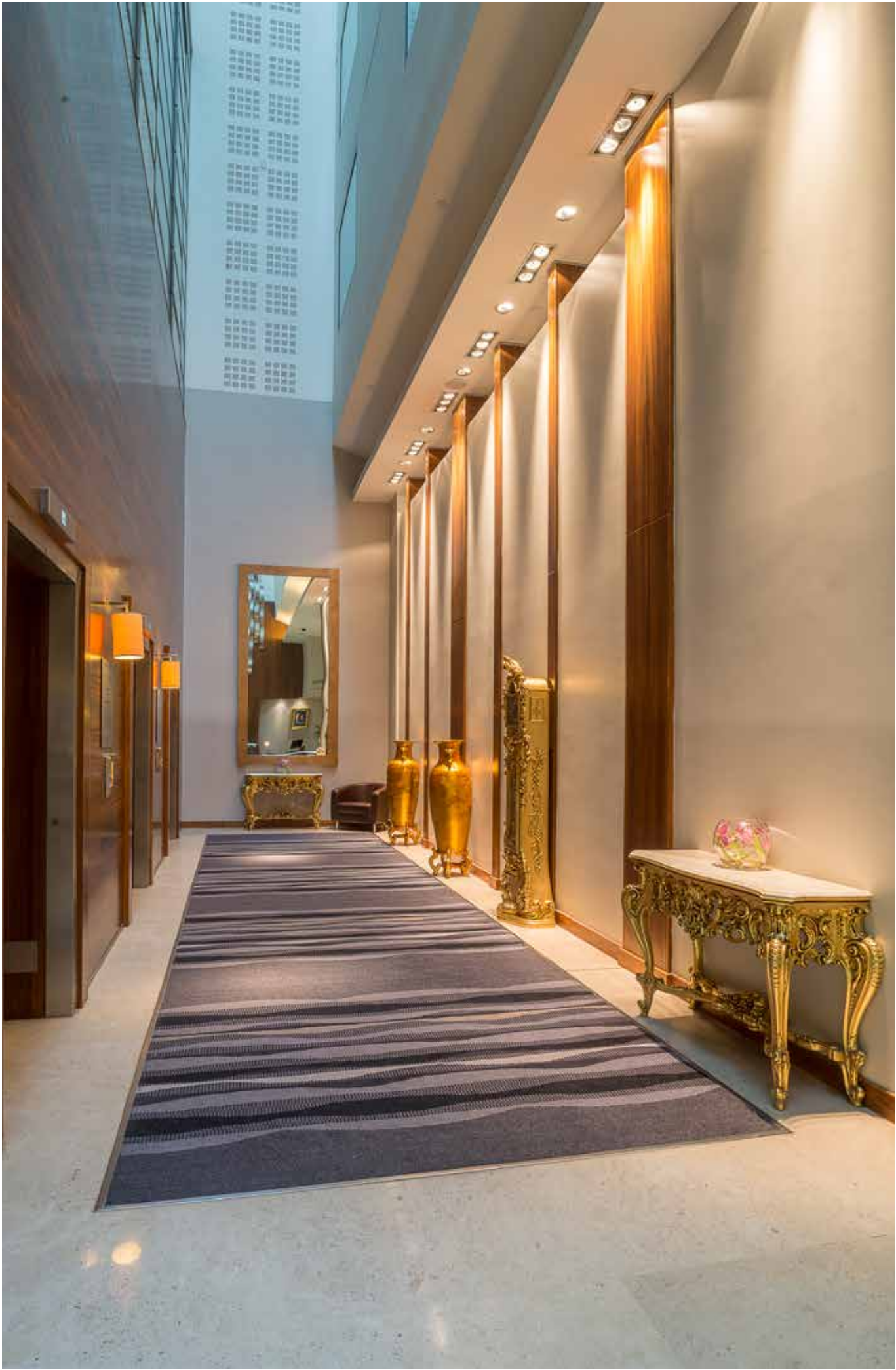
Air to Water Multipurpose unit

- › Best solution for independent and simultaneous cooling and heating all year round
- › Daikin single screw compressor with integrated inverter and Variable Volume Ratio Technology
- › High Efficiency Inverter fans with optimized geometry ensures the best ratio between airflow and power input.
- › Wide operating envelope for cooling and heating with extra capacity in Boosted operation and Rapid Restart functionality



Multipurpose		EWYD-4ZXR82	400	450	500	550	600	650	700	800	
Air to water – cooling only (1)	Nominal Rated Capacity – Net	kW	357.9	400.4	451.9	496.2	548.0	596.5	619.1	690.0	
	EER – Net		2.94	2.95	3.01	2.95	3.00	2.96	3.07	2.97	
	Nom. Rated Capacity – Net	kW	358.3	398.7	452.2	493.4	550.7	601	620.9	690.8	
Air to water – heating only (2)	COP – Net		3.48	3.65	3.65	3.63	3.59	3.55	3.67	3.71	
	Nom. Rated Capacity COOLNG – Net	kW	281.5	312.7	351.1	383.1	435.2	473.1	489.3	543.8	
	Nom. Rated Capacity HEATING – Net	kW	361.4	399.5	448.1	487.9	550.5	602.1	625.3	693.3	
Water to water – Cooling + heating (3)	TER – Net		7.66	7.82	7.85	7.94	8.16	7.95	7.71	7.89	
	Height	mm	2,465								
	Width	mm	2,285								
Dimensions	Length	mm	5,825		6,725		7,625	8,525			
	Unit Weight	kg	6,240	6,260	7,035	7,035	8,015	8,600	9,690	9,715	
	Operating Weight	kg	6,705	6,725	7,725	7,725	9,100	9,705	11,075	11,110	
Weight	Cold/Hot side water connections	mm	219.1								
	Sound Power – Cooling (4)	dB(A)	87	86	87		88		90		
	Sound Pressure – Cooling at 1 m (5)	dB(A)			66				68	69	
Sound level	Water Volume	l	126		214		369	361	468		
	Cold Side	Water flow rate (1)	l/s	17.1	19.2	21.6	23.7	26.2	28.5	29.6	33.0
		Water pressure drop (1)	kPa	31.8	37.1	31.7	38.7	39	27	33.7	28.1
Hot Side		Water Volume	l	126	126	214	214	369	361	468	468
	Water flow rate (2)	l/s	17.3	19.2	21.8	23.8	26.6	29.0	30.0	33.3	
	Water pressure drop (2)	kPa	31.8	38.5	27.7	33.6	32	23.8	28.5	24.4	
Water heat exchangers	Quantity	n	10		12		14	16			
	Nominal air flow (1)	l/s	36,110		43,332		50,554	57,776			
Fan	Type		Single screw								
	Oil charge	l	28						38		
	Quantity	n.	2								
Compressor	Refrigerant type		R134a								
	Refrigerant charge	kg	206	207	224	226	248	260	320	348	
	Circuits	n.	2								
Refrigerant circuit	Phase/Frequency/Voltage	Hz/V	3~/50/400								
Power Supply											

Fluid: Water; Fouling factor = 0
(1) Operation in Air to water "Cooling only" mode rated at 35°C ambient temperature, 50% R.H.; Entering water temperature 12°C, Outlet water temperature 7°C.
(2) Operation in Air to water "Heating only" mode rated at 7°C ambient temperature, 85% R.H.; Entering water temperature 40°C, Outlet water temperature 45°C.
(3) Operation in Water to water "Cooling + Heating" mode rated with water flowing on cold and hot heat exchangers determined respectively at conditions (1) and (2) - Chilled water outlet temperature 7°C, Hot water outlet temperature 45°C.
(4) Sound power level are referred to condition (1) for Cooling and (2) for Heating. The data are measured in accordance with ISO 9614 and Eurovent 8/1 for Eurovent certified units. The certification refers only to the overall sound power level.
(5) Sound pressure is calculated from the sound power level and it is for information only and not considered binding.
All the above data are referred to standard units without options and are subject to change without notice.



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)



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)



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										

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 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 μ C²SE controller for direct connection to a Modbus based BMS or to a remote user interface



Cooling & Heating only				EWWQ-KC		014	025	033	049	064
SEER						4.02	4.23	3.63	4.48	3.88
 Space heating	Average climate water outlet 55°C	General	SCOP			3.64	3.63	3.71	3.58	3.87
			Seasonal space heating eff. class	A++						
	Average climate water outlet 35°C	General	SCOP			4.76	4.73	4.52	4.87	4.91
			Seasonal space heating eff. class	A+++		A++		A+++		
Cooling capacity	Nom.		kW			13.25	23.89	30.47	47.15	61.00
Heating capacity	Nom.		kW			14.98	27.30	34.74	54.13	69.51
Power input	Cooling	Nom.	kW			3.20	5.70	7.30	11.4	14.6
	Heating	Nom.	kW			3.90	7.10	8.70	14.4	17.5
Capacity control	Method				Fixed					
	Minimum capacity				%	100			50	
EER						4.20	4.18	4.16	4.13	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				Brazen 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	12.0	24.7	24.6	30.1	38.4	
		Heating	Nom.	kPa	12.6	20.1	23.3	29.3	26.8	
Compressor	Type				Scroll compressor					
	Quantity				1			2		
Sound power level	Cooling	Nom.	dB(A)			69		76	72	79
Sound pressure level	Cooling	Nom.	dB(A)			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" 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



Heating & Cooling				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		38		
		Heating	Nom.	kPa	42		33		28		27		29		37		
Water heat exchanger - condenser	Type				Plate heat exchanger												
	Water volume			l	6	8		10		12		13		15		17	
	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		
		Heating	Nom.	kPa	73		59		51		50		53		57		
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



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														
	Condenser water inlet/outlet (OD)			2" 1/2														
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



Cooling only/Heating only				EWQ-L-SS	180	205	230	260	290	330	380
Space cooling	A Condition 35°C Pdc			kW	1874	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	1874	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



Cooling & Heating				EWWD-J-S5	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.		dB(A)	89						
Sound pressure level	Cooling	Nom.		dB(A)	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						

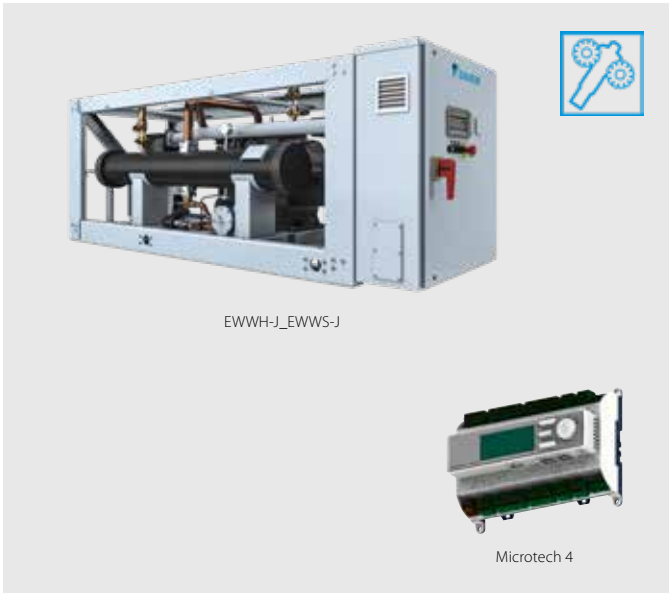
performances according to CSS software 10.34

Fluid: Water; Fouling factor = 0 m²°C/W

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

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

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

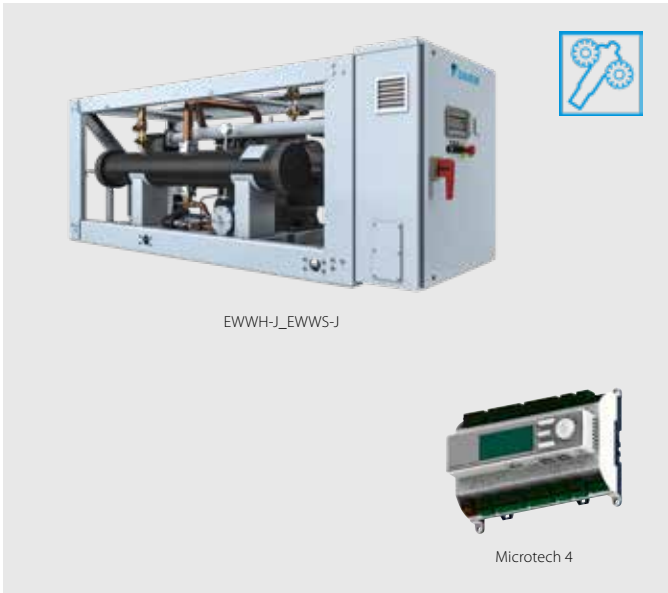


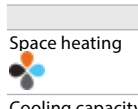
				EWWH-J-SS	090	110	120	130	150	180	200
Space heating 	Average climate water outlet 55°C	General	SCOP		3.91	3.92	3.78	3.77	3.80	3.90	3.84
Cooling capacity	Nom.		kW	88.77	107.1	115.1	133.5	150.1	181.6	200.6	
Heating capacity	Nom.		kW	107.2	129.2	140.9	162.3	182.2	220.5	245	
Power input	Cooling	Nom.	kW	30	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 = 0 m2°C/W
Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.

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

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



				EWWS-J-SS	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 = 0 m2°C/W
Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.



The highest peak
in chiller technology

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

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

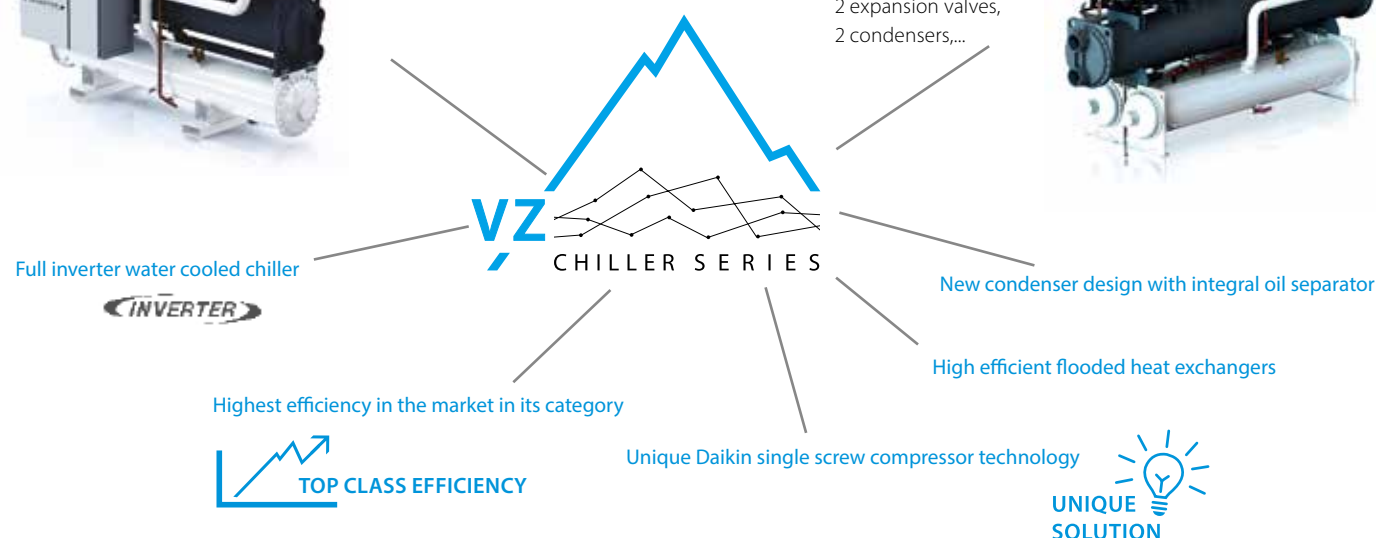
Single compressor

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

Dual compressor & dual circuit unit

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

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



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.

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!



Supporting tools

Product video



Check on

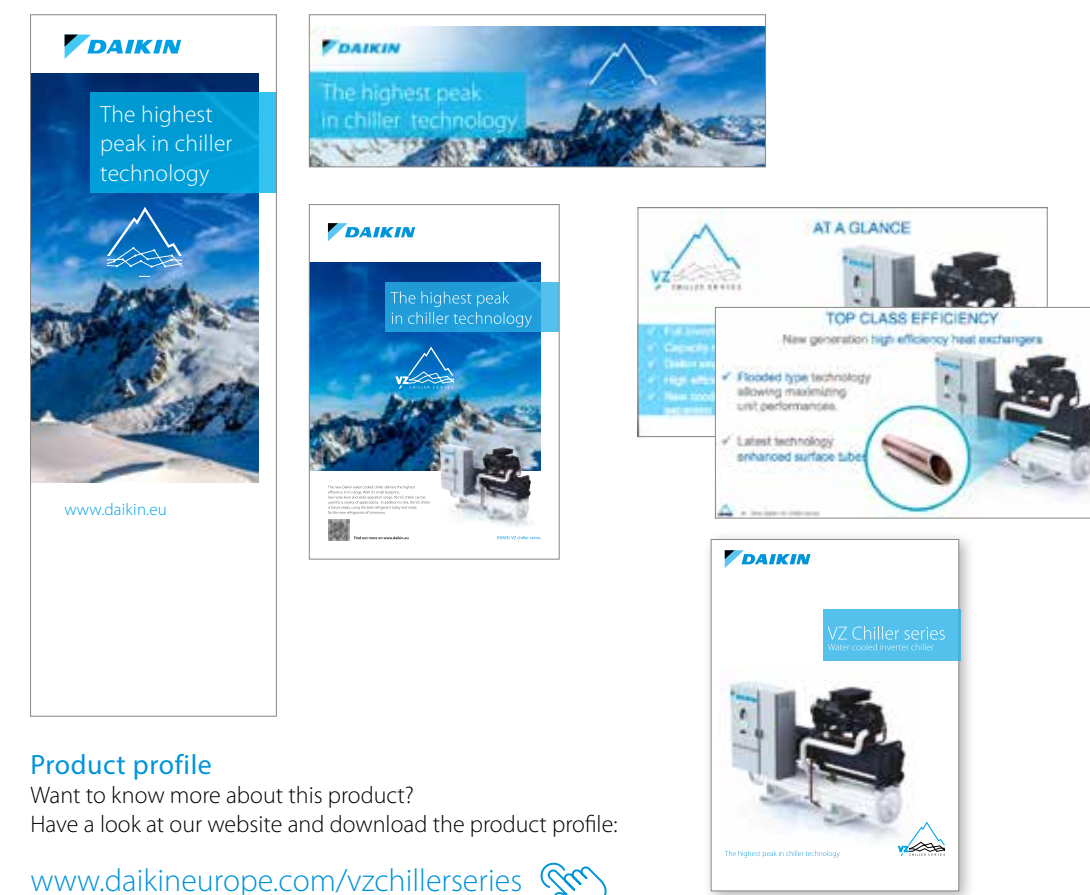


www.youtube.com/
DaikinEurope



Marketing material

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



Product profile

Want to know more about this product?
Have a look at our website and download the product profile:

www.daikineurope.com/vzchillerseries



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



Cooling only/Heating only				EWWD-VZSS	600	700	760	890	C10	C12	C13	C14	C16	C17	C19	C21
Space cooling	A Condition Pdc (35°C - 27/19)			kW	609.91	704.22	756.52	894.23	1,039.49	1,173.02	1,288.02	1,381.01	1,552.02	1,722.02	1,875.55	2,051.2
	ηs,c			%	340		337.2	331.6	332	337.2	331.6	331.2	320.8	338.8	322	338.8
SEER					8.7		8.63	8.49	8.5	8.63	8.49	8.48	8.22	8.67	8.25	8.67
Cooling capacity	Nom.			kW	610	704	757	894	1,039	1,173	1,288	1,381	1,552	1,722	1,876	2,051
Power input	Cooling Nom.			kW	110	132	142	162	196	231	252	276	315	339	380	404
Capacity control	Method				Variable											
	Minimum capacity			%	20					10						
EER					5.5	5.31	5.3	5.52	5.29	5.07	5.11	5	4.93	5.08	4.93	5.08
IPLV					9.43	9.36	9.4	9.37	9.4	9.52	9.56	9.57	9.36	9.7	9.38	9.65
Dimensions	Unit	Height	mm	2,123		2,292		2,487	2,296				2,350	2,338	2,498	
		Width	mm	1,178	1,179		1,233	1,303	1,484	1,487		1,484	1,580	1,627	1,753	
		Length	mm	3,722	3,750		3,693	3,822	4,792				4,508		4,750	
			mm	1,178	1,179		1,233	1,303	1,484	1,487		1,484	1,580	1,627	1,753	
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				
	Running current	Cooling	Nom.	A	171	202	220	249	300	349	379	414	470	508	566	604
Unit	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
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Cooling only/Heating only				EWWD-VZXS		450	500	610	710	800	900	C11	C12	C13	C14	C16	C17	C19	C21						
Space cooling	A Condition Pdc (35°C - 27/19)			kW	448.83	500.51	612.77	713.11	793.52	901.21	1,053.02	1,194.03	1,305.01	1,406.98	1,593.03	1,748.03	1,912.01	2,074.02							
	ηs,c			%	324.8	329.2	347.2	350	345.6	337.6	344.4	347.6	342.4	348	347.2	347.6	337.2	344.4							
SEER					8.32	8.43	8.88	8.95	8.84	8.64	8.81	8.89	8.76	8.9	8.88	8.89	8.63	8.81							
Cooling capacity	Nom.			kW	449	501	613	713	794	901	1,053	1,194	1,305	1,407	1,593	1,748	1,912	2,074							
Power input	Cooling Nom.			kW	81.2	89.7	108	128	146	159	192	221	244	262	296	329	365	394							
Capacity control	Method			%	Variable																				
	Minimum capacity				20							10													
EER					5.53	5.58	5.64	5.54	5.43	5.67	5.46	5.38	5.34	5.36	5.38	5.31	5.23	5.25							
IPLV					9.42	9.59	9.52	9.66	9.64	9.48	9.58	9.66	9.67	9.76	9.74	9.82	9.68	9.7							
Dimensions	Unit	Height	mm	2,135		2,123		2,235		2,487		2,296		2,301		2,350		2,500		2,469		2,493			
		Width	mm	1,178		1,179		1,189		1,303		1,484		1,639		1,579		1,580		1,610		1,704		1,769	
		Length	mm	3,722		3,750		3,690		3,822		4,792		4,508		4,750		4,874							
Weight	Unit				kg	2,968	2,911	3,102	3,470	3,451	4,257	4,552	5,860	6,240	6,520	6,920	7,530	7,790	8,670						
	Operation weight			kg	3,098	3,006	3,274	3,648	3,611	4,518	4,860	6,370	6,760	7,130	7,530	8,300	8,560	9,630							
Water heat exchanger - evaporator	Type			Flooded shell and tube																					
	Water volume			l	70	88	136	134			168	199	270			320	380	480							
	Water flow rate	Cooling	Nom.	l/s	21.5	24	29.3	34.1	38	43.2	50.4	57.1	62.5	67.3	76.3	83.6	91.4	99.2							
	Water pressure drop	Cooling	Nom.	kPa	89	63	59	63	55	67	59	52	62	52	67	58	49	58							
Water heat exchanger - condenser	Type			Shell and tube																					
	Water volume			l	81	92	126	145	126	217	241	240	250	290		390	290	480							
	Water flow rate	Cooling	Nom.	l/s	26.4	29.4	35.3	41.2	46.1	52	61	69.8	76.3	82.2	93.2	102	112	121							
	Water pressure drop	Cooling	Nom.	kPa	31	28	22	20	24	25			28		21	32	27	37	28						
Compressor	Type			Driven vapour compressor																					
	Quantity			1							2														
Sound power level	Cooling	Nom.	dBA	97	99	101	105			107	106			107		108	109	110							
Sound pressure level	Cooling	Nom.	dBA	78	80	82	86			88	87			88		89		90							
Operation range	Evaporator		Min.~Max.	°CDB	-12~-20																				
	Condenser		Min.~Max.	°CDB	19~65																				
Refrigerant	Type/GWP			R-134a/1,430																					
	Charge			kg	110		125	140	160	200	185	270	260	230	290	290	320	370							
	Circuits	Quantity		1																					
Piping connections				mm	139.7			168.3			2														
	Condenser water inlet/outlet (OD)			168.3mm		219.1mm					168.3 / 219.1 mm		219.1 / 219.1 mm					273							
	Running current	Cooling	Nom.	A	126	140	171	201	229	249	299	340	372	400	450	498	554	596							
Unit	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																				

Water cooled screw
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standard sound

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

performances according to CSS software 10.33



Water cooled screw inverter chiller, standard efficiency, standard sound

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

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Water cooled screw inverter chiller, high efficiency, standard sound

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Cooling only/Heating only				EWWH-VZXS	335	365	450	525	580	670	800	875	950	C11	C12	C13	C14	C15		
Space cooling	A Condition Pdc (35°C - 27/19)			kW	329.01	364.52	448	520.61	579.19	665.41	788.2	877.36	952.01	1,028.81	1,169.3	1,288.48	1,421.75	1,540.03		
	ηs,c			%	296	307.2	343.6	347.2	343.2	356	354.4	326	334	346.8			358	356.8		
SEER					7.6	7.88	8.79	8.88	8.78	9.1	9.06	8.35	8.55	8.87			9.15	9.12		
Cooling capacity	Nom.			kW	329	365	448	521	579	665	788	877	952	1,029	1,169	1,288	1,422	1,540		
Power input	Cooling	Nom.		kW	60.5	66.6	81	96	109	121	147	168	185	198	224	248	276	298		
Capacity control	Method				Variable															
	Minimum capacity			%	20							10								
EER					5.44	5.48	5.53	5.42	5.29	5.49	5.37	5.23	5.16	5.19	5.22	5.19	5.16			
IPLV					8.51	8.79	9.46	9.51	9.47	9.63	9.65	9.19	9.27	9.46	9.37	9.52	9.23	9.5		
Dimensions	Unit	Height	mm		2,135		2,123		2,235		2,487		2,296		2,301	2,350	2,500	2,469	2,493	
		Width	mm	1,178		1,179		1,189		1,303		1,484		1,639		1,579	1,580	1,610	1,704	1,769
		Length	mm	3,722		3,750		3,690		3,822		4,792		4,508		4,750		4,874		
Weight	Unit			kg	2,968	2,911	3,102	3,470	3,451	4,257	4,552	5,860	6,240	6,520	6,920	7,530	7,790	8,670		
	Operation weight			kg	3,098	3,006	3,274	3,648	3,611	4,518	4,860	6,370	6,760	7,130	7,530	8,300	8,560	9,630		
Water heat exchanger - evaporator	Type				Flooded shell and tube															
	Water volume			l	70	88	136	134		168	199	270		320		380	480			
	Water flow rate	Cooling	Nom.	l/s	15.8	17.5	21.4	24.9	27.7	31.8	37.7	41.9	45.5	49.1	55.9	61.6	67.9	73.6		
	Water pressure drop	Cooling	Nom.	kPa	54	38	35	37	31	39	36	29	34	28	37	32	28	33		
Water heat exchanger - condenser	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	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 Max	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		
				A	134	149	183	226	247	268	324	374	402	451	493	549	591	647		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400															

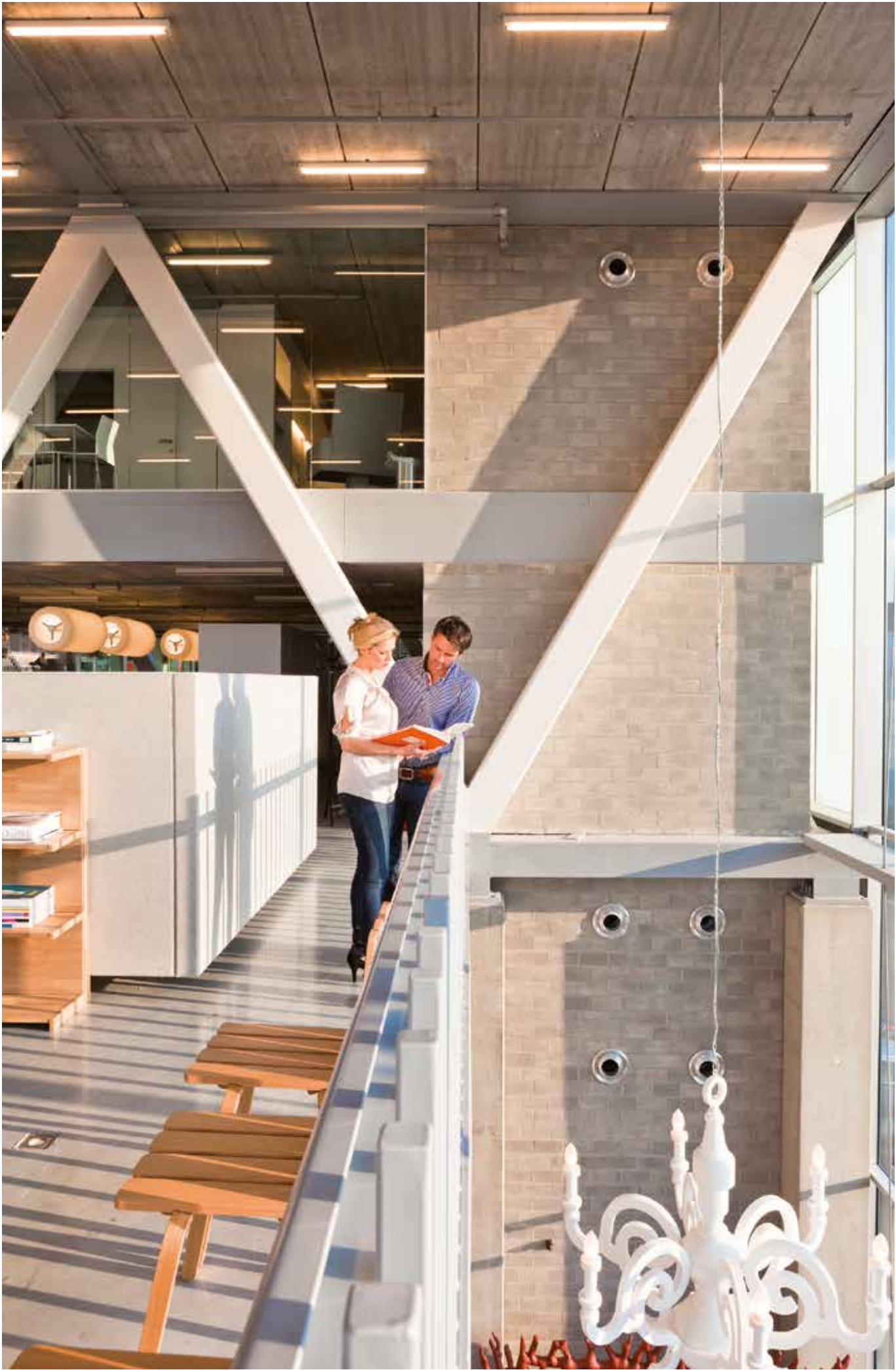
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Cooling only/Heating only				EWWH-VZPS	370	530	680	880	C12	C13
Space cooling	A Condition Pdc (35°C - 27/19)			kW	369.3	525.1	677.11	883.79	1,180.43	1,295.36
	ηs,c			%	316.8	352.8	363.6	334.4	352.4	348.8
SEER					8.12	9.02	9.29	8.56	9.01	8.92
Cooling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

performances according to CSS software 10.33



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

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Cooling only/Heating only				EWWS-VZSS		600	700	740	880	C10	C12	C13	C14	C15	C17	C18	C20
Space cooling	A Condition Pdc (35°C - 27/19)			kW	599.51	693.51	743.53	879.64	1,020.09	1,148.76	1,263.41	1,351.54	1,514.87	1,689.58	1,831.98	2,013.41	
	ηs,c			%	316	314.4	313.2	320	313.2	321.2	314.8	312	297.6	313.6	304	318.4	
SEER					8.1	8.06	8.03	8.2	8.03	8.23	8.07	8	7.64	8.04	7.8	8.16	
Cooling capacity	Nom.			kW	600	694	744	880	1,020	1,149	1,263	1,352	1,515	1,690	1,832	2,013	
Power input	Cooling Nom.			kW	120.1	143.3	154.7	175.2	212.7	251.8	273.9	301	343	367.4	413.5	437.2	
Capacity control	Method				Variable												
	Minimum capacity			%	20					10							
EER					4.99	4.84	4.81	5.02	4.8	4.56	4.61	4.49	4.42	4.6	4.43	4.61	
IPLV					9.02	9.15		8.84	8.88	9.06	9.31	9.23	8.9	9.18	8.88	9.05	
Dimensions	Unit	Height	mm		2,123			2,292	2,487	2,296			2,350		2,338	2,498	
		Width	mm	1,178	1,179		1,233	1,303	1,484	1,487		1,484	1,580	1,627	1,753		
		Depth	mm	3,722	3,750		3,690	3,822	4,792			4,508			4,750		
Weight	Unit			kg	2,892	2,928	2,941	3,451	4,237	5,570	5,790	5,820	6,220	6,890	7,260	8,260	
	Operation weight			kg	2,977	3,033	3,053	3,611	4,488	5,980	6,220	6,290	6,690	7,480	7,830	9,070	
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume			l	88		96	134	156	230		270		320		380	
	Water flow rate	Cooling	Nom.	l/s	28.7	33.3	35.7	42.2	48.9	55	60.6	64.7	72.6	80.9	87.8	96.4	
	Water pressure drop	Cooling	Nom.	kPa	80	108	89	100	103	69	85	70	89	79	92	81	
Water heat exchanger - condenser	Type				Flooded Shell & Tube												
	Water volume			l	81	102		126	217	180	200		270		250	430	
	Water flow rate	Cooling	Nom.	l/s	34.5	40.1	43.2	50.6	59.3	67.1	73.7	79.2	89	98.7	107	117	
	Water pressure drop	Cooling	Nom.	kPa	31	29	32	29	33	43	38	44	64	41	53	36	
Compressor	Type				Driven vapour compressor												
	Quantity				1					2							
Sound power level	Cooling	Nom.		dBa	101	105			107	106		107		108		110	
Sound pressure level	Cooling	Nom.		dBa	82	86			88	87		88		89		90	
Refrigerant	Type/GWP				R-513A/631												
	Charge			kg	100	110		170	180	250	260	270	290	295	320	350	
	Circuits Quantity				1					2							
Piping connections				mm	139.7			168.3		219.1							
				mm	168.3			219.1		168.3				219.1			

performances according to CSS software 10.33

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

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



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

performances according to CSS software 10.33

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

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



Cooling only/Heating only				EWWS-VZPS		500		710		900		C12		C16		C17	
Space cooling	A Condition Pdc (35°C - 27/19)			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.		dB(A)	99		105		106		107		109				
Sound pressure level	Cooling	Nom.		dB(A)	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



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



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

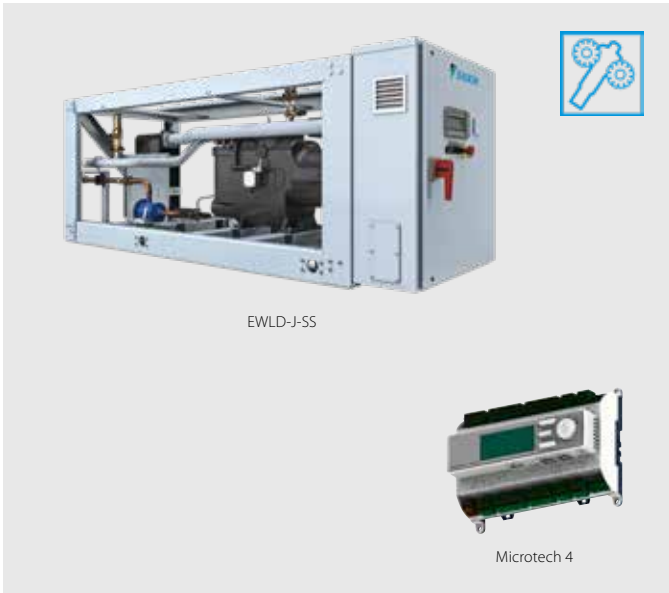
- › Dual refrigerant circuit (4 scroll compressors) with single evaporator
- › For chilled water production, to be combined with a remote condensing unit
- › Compact design to allow easy indoor installation or retrofit operations
- › High efficiency and reliable scroll compressor
- › Stainless steel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



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



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

performances according to CSS software 10.34

Condenserless screw chiller,
standard efficiency,
standard sound

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

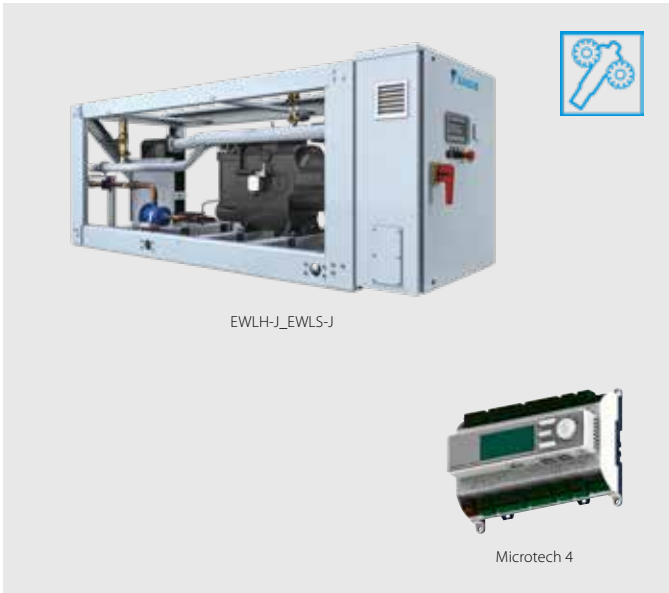


EWLH-J-SS				080	100	110	130	140	170	190	
Cooling capacity	Nom.			kW	84	102	109	127	143	174	193
Power input	Cooling	Nom.		kW	23.3	28.1	31.8	37	41.5	49.6	56.3
Capacity control	Method			%	Stepless						
	Minimum capacity				25						
EER					3.62		3.43	3.42	3.43	3.51	3.43
Dimensions	Unit	Height	mm	1,020							
		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
			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



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



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

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				1				2				3											
Piping connections	Evaporator water inlet/outlet (OD)				42mm																			
Unit	Maximum starting current			A	330	464			493	627	650	681	703		836	867	898	920	942					
	Nominal running current (RLA)	Cooling		A	131	157	181	214	260	287	313	338	361	391	420	448	470	493	517	542	571	601	631	
	Maximum running current			A	204	233	271	299	407	436	465	504	542	570	597	670	698	737	775	814	841	868	896	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																			



Water cooled 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 µC²SE controller for direct connection to a Modbus based BMS or to a remote user interface



Cooling Only				EWLQ-KC	014	025	033	049	064
Cooling capacity	Nom.			kW	12.09	19.87	28.90	39.35	57.84
Power input	Cooling	Nom.		kW	3.74	6.11	8.43	12.03	16.41
Capacity control	Method				Fixed				
	Minimum capacity			%	100			50	
EER					3.237	3.254	3.429	3.27	3.524
Dimensions	Unit	Height		mm	600				
		Width		mm	600				
		Depth		mm	600			1,200	
Weight	Unit			kg	62	124	130	238	249
	Operation weight			kg	70	129	135	247	258
Water heat exchanger - evaporator	Type				Brazen plate				
	Water volume			l	1.47	1.96	2.74	4.47	5.88
	Water	Cooling	Nom.	l/s	0.576	0.947	1.378	1.876	2.757
	Water	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
		Max		A	9.16	15.5	19.3	31.0	38.7
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50 /400				



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Cooling Only					EWWD-DZXS					320	440	530	610	640	700	880	C10	C13	C14	C15	C21				
Space cooling	A Condition Pdc (35°C - 27/19)				kW	320.01	443.01	528	610.02	638.01	699.97	883.01	1,056	1,325.26	1,402	1,564.57	2,070.42								
	ηs,c				%	334	314	324	344	349	342	350	363	349.8	362	360.6	365.4								
SEER						8.72	8.65	9.08	8.91	8.95	8.79	8.99	9.31	8.86	9.32	9.13	9.28								
Cooling capacity	Nom.				kW	320	443	528	610	638	700	883	1,056	1,325	1,402	1,565	2,070								
Power input	Cooling	Nom.			kW	66.5	88.5	102	124.7	131	126	176	205	272	256	310	391								
Capacity control	Method					Variable																			
	Minimum capacity				%	30	21		16	15	18	11		7	9	8	6								
EER						4.81	5	5.14	4.89	4.85	5.53	5.01	5.15	4.88	5.46	5.04	5.3								
ESEER						7.94	7.92	8.2	7.78	8.16	8.08	8.09	8.39	-	8.29	-									
IPLV						9.38	9.33	9.7	9.41	9.5	9.86	9.52	9.91	9.18	10.1	9.5	9.42								
Dimensions	Unit	Height		mm	1,865			1,985					2,200		2,083	2,200	2,225	2,290							
		Width		mm	1,055			1,160					1,270		1,510	1,270	1,510								
		Length		mm	3,625			3,585					3,580		4,793	3,580	4,768	4,812							
Weight	Unit					kg	1,700	1,900	2,000	2,850		2,600	2,900	3,600	4,350	3,800	4,750	5,500							
	Operation weight					kg	1,973	2,216	2,347	3,197	3,344	3,102	3,458	4,292	5,020	4,579	5,540	6,570							
Water heat exchanger - evaporator	Type		Flooded shell and tube																						
	Water volume		l		70	96	107		134		156	199	271.8	229	317.4	444.3									
	Water flow rate		Nom.	l/s	15.3	21.2	25.3	29.1	30.5	33.5	42.3	50.6	-	67.2	-	-	-	-							
	flow rate		Cooling	Nom.	l/s	-								63.4	-	74.9	99.1								
	Water pressure drop		Cooling	Nom.	kPa	47.4	40.6	45	59.1	51	61.3	64	60.4	60.1	74	61.1	71.9								
Water heat exchanger - condenser	Type		Shell and tube										Flooded Shell & Tube		Shell and tube	Flooded Shell & Tube									
	Water volume		l		83	100	120		170	188	211	263	359.9	320	442.6	603.6									
	Water flow rate		Nom.	l/s	18.3	25.3	30.1	35.1	36.7	39.4	50.5	60.1	-	79.1	-	-	-								
	flow rate		Cooling	Nom.	l/s	-								76.1	-	89.5	117								
	Water pressure drop		Cooling	Nom.	kPa	49.2	59.5	54.5	74	46.2	41.6	50.9	50.3	56	52.9	43	57								
Compressor	Type		Driven vapour compressor																						
	Quantity		1		2		1		2		3	2	3												
Sound power level	Cooling	Nom.			dBA	87.9	88.9	89.9	91.1	91	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			TC02Eq		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								
Power supply	Phase/Frequency/Voltage				Hz/V	134	208	166	267	331	631	392	511	589											
					3~/50/400																				

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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	2,100	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 heat exchanger - condenser		Water pressure drop	Cooling	Nom.	kPa	54.2	46.5	51.5	71.4	58.3	68.7	73.2	61.4	68.9	70.7	82	70.7	78.9			
		Type		Shell and tube										Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube			
		Water volume		l	83	100	120		170	188	211	326.4	263	359.9	320	442.6	603.6				
		Water flow rate	Nom.	l/s	19.6	27	32.1	38.6	39.1	41.6	53.9	-	64.1	-	83	-	-				
Compressor		flow rate	Cooling	Nom.	l/s	-						58.9		-	81.4	-	95.8	121			
		Water pressure drop	Cooling	Nom.	kPa	56.4	68.4	62.4	90	52.9	46.7	58.3	44	57.6	66	58.5	50	62			
		Type		Driven vapour compressor																	
		Quantity		1				2		1	2	3	2	3	2	3					
Sound power level		Cooling	Nom.	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															
Refrigerant		Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55	20~42	20~55		20~42	20~55	20~42						
		Type/GWP		R-134a/1,430																	
		Charge		kg	130			120	200	190	200	350	250	400	250	420	470				
Refrigerant charge		Circuits	Quantity		1																
		TCO2eq		186			172	286	272	286	-	358	-	358	-						
Piping connections					mm	139.7			168.3												
Piping connections					mm	139.7			168.3												
Unit		Running current	Cooling Max	Nom.	A	105.42	144.7	162.48	212.9	210.15	196	287.44	318.3	323.53	425.9	392	496	588			
Power supply		Phase/Frequency/Voltage			Hz/V	134	208	166	267		196	417	406	331	631	392	511	589			

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Cooling Only				EWWH-DZXS	230	320	380	430	455	460	640	755	920	945	C11	C13	
Space cooling	A Condition Pdc (35°C - 27/19)			kW	227.08	318.33	376.33	455.13	454.66	474.48	637.15	752.27	917.79	945.8	1,126	1,352	
	ηs,c			%	330	346		342		339	352	354	353	360.2	359.4	364.2	
SEER					8.78	8.66	8.67	8.8	8.78	8.32	9.04	9.07	9.06	9.02	9.04	9.13	
Cooling capacity	Nom.			kW	227	318	376	455		461	637	752	918	945.8	1,126	1,352	
Power input	Cooling	Nom.		kW	45.6	60.5	71.4	93.3	90.6	79.3	120.5	142.1	158.8	181	216.5	237.7	
Capacity control	Method				Variable									Stepless			
	Minimum capacity			%	24	21	20	13	12	20	11	10		11		16	
EER					4.98	5.27		4.88	5.02	5.81	5.29		5.78	5.22	5.2	5.69	
ESEER					7.78	7.97	7.98	7.89	8.06	7.76	8.26	8.3	8.16	-			
IPLV					9.37	9.52	9.56	9.44	9.5		9.74	9.78	9.74	9.54	9.57	9.71	
Dimensions	Unit	Height		mm	1,865			1,985			2,200			2,083	2,225	2,290	
		Width		mm	1,055			1,160			1,270			1,510			
		Length		mm	3,625			3,585			3,580			4,793	4,768	4,812	
Weight	Unit			kg	1,700	1,900	2,000	2,850		2,600	2,900	3,600	3,800	4,350	4,750	5,500	
	Operation weight			kg	1,973	2,216	2,347	3,197	3,344	3,102	3,458	4,292	4,579	5,020	5,540	6,570	
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume			l	70	96	107		134		156	199	229	271.8	317.4	444.3	
	Water flow rate	Cooling	Nom.	l/s	10.8	15.2	18	20.5	21.7	22	30.4	35.9	43.9	45.2	53.8	64.6	
	Water pressure 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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Cooling Only				EWWH-DZXE		245	345	405	470	480	490	685	740	810	955	C10	C12	C14
Space cooling	A Condition Pdc (35°C - 27/19)			kW	241.98	339.33	401.93	460.88	483.83	486.57	678.69	741	802.77	944.73	1,033	1,226	2,172.91	
	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
			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	
Weight	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	
	Type				Flooded shell and tube													
Water heat exchanger - evaporator	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	
	Type				Shell and tube								Flooded Shell & Tube	Shell and tube		Flooded Shell & Tube		
Water heat exchanger - condenser	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	
	Type				Driven vapour compressor													
Compressor	Quantity				1		2	1	2		3	2		3				
	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	20~55		20~42	20~55	20~42	20~55			20~42		20~55	20~42		
	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													

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



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

Water cooled centrifugal chiller, high efficiency, standard sound

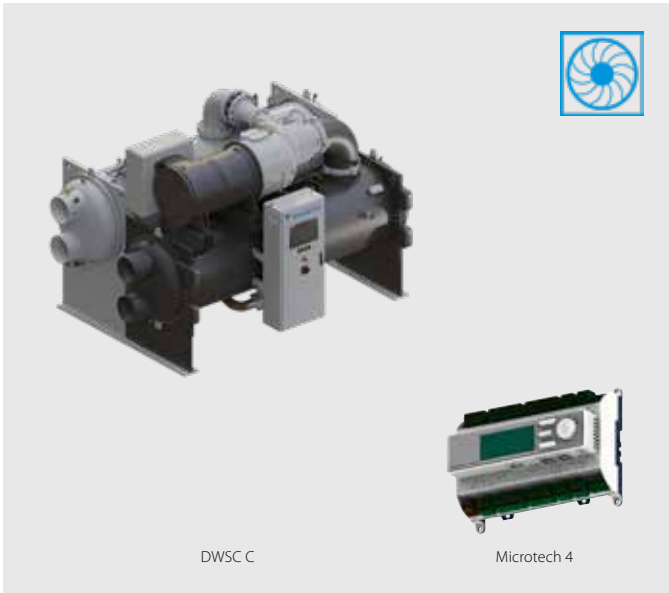
- › No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- › Excellent part load efficiency
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- › A wide portfolio of options is available to meet different requirements.
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Cooling Only				EWWS-DZXE		340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition Pdc (35°C - 27/19)			kW	336.72	471.24	558.03	676.76	674.49	728.69	941.72	1,024.55	1,117.07	1,419.67	1,450.66	1,652.82	2,128.56	
	ηs,c			%	3.428	3.396	3.568	3.452	3.52	3.464	3.532	3.444	3.664	3.464	3.668	3.556	3.656	
SEER					8.77	8.69	9.12	8.83	9	8.86	9.03	8.81	9.36	8.86	9.37	9.09	9.34	
Cooling capacity	Nom.			kW	337	471	558	671	674	729	942	1,025	1,117	1,420	1,451	1,653	2,129	
Power input	Cooling	Nom.		kW	70.2	95.1	108	139		129	188	209	215	287	259	324	385	
Capacity control	Method				Variable													
	Minimum capacity			%	29	20		15		17		10		7		9	7	6
EER					4.8	4.96	5.15	4.8	4.85	5.61	5.01	4.89	5.18	4.94	5.6	5.1	5.52	
IPLV					9.22	9.2	9.59	9.11	9.31	9.78	9.38	9.25	9.81	9.12	9.98	9.4	9.41	
Dimensions	Unit	Height		mm	1,865			1,985			2,082		2,200	2,083	2,200	2,225	2,290	
		Width		mm	1,055			1,160			1,510		1,270	1,510	1,270	1,510		
		Depth		mm	3,625			3,585			4,688		3,580	4,793	3,580	4,768	4,812	
Weight	Unit			kg	1,750	1,950	2,050	2,850		2,650	3,000	4,400	3,700	4,700	3,900	5,100	5,900	
	Operation weight			kg	2,033	2,276	2,407	3,197	3,354	3,162	3,568	4,970	4,412	5,370	4,699	5,890	6,920	
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume			l	70	96	107		134		156	207	199	272	229	317	444	
	Water flow rate	Cooling	Nom.	l/s	16.3	22.9	27	32	32.7	35.3	45.6	49.6	54.1	68.8	70.3	80.1	102	
	Water pressure drop	Cooling	Nom.	kPa	54.1	47.2	51.3	71.4	58.3	67.8	74.1	61.2	67.7	70.6	80.8	69.7	77.4	
Water heat exchanger - condenser	Type				Flooded Shell & Tube													
	Water volume			l	83	100	120		170		188	211	263	360	320	443	604	
	Water flow rate	Cooling	Nom.	l/s	19.6	27.3	32.1	38.4	39.2	41.4	54.4	59.5	64.2	82.3	82.5	95.5	121	
	Water pressure drop	Cooling	Nom.	kPa	56.5	69.8	62.4	90.8	53.2	46.1	59.4	43.6	57.7	66.4	57.7	49.5	60.7	
Compressor	Type				Driven vapour compressor													
	Quantity				1		2		1	2	3	2	3	2	3			
Sound power level	Cooling	Nom.		dBA	87.9	88.9	89.9	91.1	91.0	91.1	92.0	92.6	93.3	93.5	94.3	94.8	95.8	
Sound pressure level	Cooling	Nom.		dBA	69.6	70.6	71.6	72.6			73.6		73	74.6	73.9	75.6	75.2	76.2
Refrigerant	Type/GWP				R-513A/631													
	Charge			kg	160	130		200		190	200	270	250	270	250	300	355	
	Circuits	Quantity			1													
Piping connections				mm	139.7			168.3			219.1							
				mm	139.7			168.3			219.1							

Water cooled centrifugal chiller, high efficiency, standard sound

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



Daikin Centrifugal Compressor

- › No compromises in application flexibility
- › Proven compressor technology (Daikin centrifugal compressor design)



Water cooled centrifugal chiller, high efficiency, standard sound

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



Free cooling operation

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



Touch screen operator panel



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

Unit mounted control panel



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

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

(1)AHRI conditions

			Air-cooled chillers										Water-cooled chillers							Centrifugals			
Panels			EWAA~BVP EWYA~BVP	EWAA~DA EWYA~DA	EWYD~BZ	EWYD~4Z	EWYT~B-	EWAH~TZB & C	EWAD~TZB & C	EWAD~T- C	ERAD~E-	EWAT~B-	EWAD~CF	EWVQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWS/H/ D~J- EWLS/H/ D~J-	EWVH~VZ	EWVD~VZ	EWVH~DZ	EWVD~DZ	DWSC & DWDC
EKDICMPAB	(a) (b) (c)	ICM Primary Basic								●		●				●	●	●	●	●	●	●	●
EKDICMPAL	(a) (b) (c)	ICM Primary for evaporator peripherals Light					●	●	●			●	●			●	●	●	●	●	●	●	●
EKDICMPAF	(a) (b) (c)	ICM Primary for evaporator peripherals Full					●	●	●			●	●			●	●	●	●	●	●	●	●
EKDICMPWL	(a) (b) (c)	ICM primary Evaporator/Condenser Light														●			●	●	●	●	●
EKDICMPWF	(a) (b) (c)	ICM primary Evaporator/Condenser Full														●			●	●	●	●	●
EKDICMCTL	(a) (b)	ICM Cooling towers Light														●			●	●	●	●	●
EKDICMCTF	(a) (b)	ICM Cooling towers Full														●			●	●	●	●	●
EKDICMPABIO	(a) (b)	ICM Primary Basic with IO third party chiller					●	●	●			●											
EKDICMPALIO	(a) (b)	ICM Primary Evaporator Light with IO third party chiller					●	●	●			●											
EKTSMS		Temperature sensor for master/slave configuration				●						●				●							
EKRUMCL1		User Interface	●																				

			Air-cooled chillers										Water-cooled chillers							Centrifugals			
Serial Cards & Communication Modules			EWAA~BVP EWYA~BVP	EWAA~DA EWYA~DA	EWYD~BZ	EWYD~4Z	EWYT~B-	EWAH~TZB & C	EWAD~TZB & C	EWAD~T- C	ERAD~E-	EWAT_B- (single)	EWAD~CF	EWVQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWD~J- EWLD~J-	EWVH~VZ A	EWVD~VZ A	EWVH~DZ	EWVD~DZ	DWSC & DWDC
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				●					●	●	●			●	●	●	●	●	●	●	
EKCLON		LON communication module				●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	
EKCMBACMSTP		BACnet/MSTP communication module				●		●	●	●	●	●	●			●	●	●	●	●	●	●	
EKCMBACIP		BACnet/IP communication module				●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	
EKDOSMWO		Daikin on Site Modem without M2M card			●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	

			Air-cooled chillers										Water-cooled chillers							Centrifugals			
Other Systems & Accessories			EWAA~BVP EWYA~BVP	EWAA~DA EWYA~DA	EWYD~BZ	EWYD~4Z	EWYT~B-	EWAH~TZB & C	EWAD~TZB & C	EWAD~T- C	ERAD~E-	EWAT_B- (single)	EWAD~CF	EWVQ~KC	EWLQ~KC	EW_Q-G EW_Q_-L	EWLD~I-	EWWD~J- EWLD~J-	EWVH~VZ A	EWWD~VZ A	EWVH~DZ	EWWD~DZ	DWSC & DWDC
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												●									
EKRPIAHT	(g)	Digital input/output PCB																					
EKRUAHTB	(g)	Remote user interface																					
DTA104A62	(f)	External control adapter																					
BHGP26A1	(f)	Digital pressure gauge kit																					
EKQDP2M016	(g)	Differential Pressure Sensor 4-20 mA 0-160 kPa				●	●	●	●			●	●			●	●	●	●	●	●	●	●
EKQDP2M020	(g)	Differential Pressure Sensor 4-20 mA 0-250 kPa				●	●	●	●			●	●			●	●	●	●	●	●	●	●
EKQDP2M040	(g)	Differential Pressure Sensor 4-20 mA 0-400 kPa				●	●	●	●			●	●			●	●	●	●	●	●	●	●
EKQDP2M060	(g)	Differential Pressure Sensor 4-20 mA 0-600 kPa				●	●	●	●			●	●			●	●	●	●	●	●	●	●
EKDAPCONT		Containerization of one unit			●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	
EKDAPSTF		Containerization of additional units in the same container			●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	

Notes:

(a) Price **does not** include commissioning of panel; if commissioning is required please refer to RN17-041

(b) ICM panels work in **cooling mode only**; heat pump versions, total heat recovery and Free cooling options on A/C and W/C chillers **are not compatible**

(c) In case you are ordering iCM panels please add corresponding modbus RTU communication module (EKCM200J or EKAC200J) for each chiller unit controller

(d) For 45/55/65 Hp-units 2 pieces are needed

(e) Only available for modular units (EWWP~KAW1M)

(f) Price available in SAP system

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



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Daikin air handling units



Why choose Daikin air handling units?

- › Maximum energy efficiency and indoor air quality
- › Wide range of functions and options
- › **High quality** components
- › **Innovative** technology: Unique features and state of the art technology for short payback
- › Operation **efficiency** and **energy savings**
- › Outstanding **reliability** and **performance**
- › Various applications are possible including air conditioning applications, industry-type process cooling, and large-scale district heat source systems
- › Plug and play concept for easy installation and commissioning
- › Unique Daikin fresh air package available for connection of AHU to VRV or ERQ

Certifications

- › Eurovent certified performances
- › Exceeding 2018 ErP – ECODESIGN requirements
- › Certified according to the Hygiene Directive VDI 6022 (Modular L and Professional ranges)
- › Certified according to the Hygiene Directive DIN 1946 (Professional range)
- › RLT certified performances



The unique quality of Daikin AHU is accomplished by:

Panels

- › The outer panel is Pre-painted with Corrosion Class RC5
- › The inner panel is made of Aluzinc with Corrosion Class RC4

Gasket

- › Liquid gasket technology drastically reduces unit air leakage

Frame

- › All anodized aluminium which has the highest corrosion resistance compared to natural aluminium
- › Unique Daikin thermal break (35 mm or 27 mm thermal break). Polyamide bars design to enhance thermal break unit performances
- › Distinctive Section to section thermal break profile to ensure thermal break design on the whole unit
- › Rounded profile for increased ease of cleaning

IAQ

- › Flush internal surface and rounded corner flush surface to avoid the retention of dirt and to be easily cleanable
- › Wide filtration possibility to reduce pollution

Plug & Play Controls

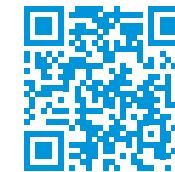
- › Pre-commissioned and Factory-tested control for quicker on site commissioning
- › Sole manufacturer to provide a complete AHU DX solution from a single manufacturer available for connection of AHU to VRV or ERQ (everything factory-mounted)

Marketing tools

- › Watch the time-lapse video of a Daikin AHU construction on www.youtube.com/daikineurope

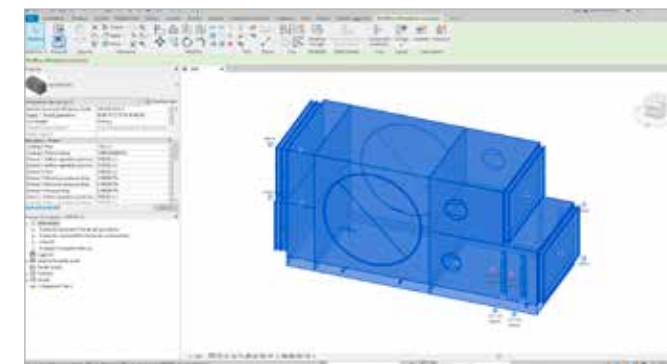
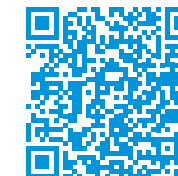
- › Watch the Modular L promotional video on www.youtube.com/daikineurope

- › Download the Modular L "Daikin Air Design" App on the App stores for iOS and Android



BIM models

- › Get the Modular L and T BIM models on bim.daikin.eu
- › Get the BIM tool plugin for Revit for Professional and Modular R/P series



Benefits for the installer

Plug and play design

- › Pre-programmed and factory-tested controls for an easier and fast commissioning
- › Low voltage fast connectors between AHU sections
- › Flush mounted or external electrical control panel

Daikin Fresh air package

- › Plug & Play connection of Professional or Modular AHU to Daikin VRV and ERQ
- › Factory-mounted package contains expansion valves, electronic interface and sensors

Benefits for the consultant

Quick selection tool

- › In-house developed web software with improved user interface and preset parameters ensure that you can always find the optimum and most energy efficient product for your application
- › Extremely flexible design
- › Infinite variable sizes (increments of 1 cm)

BIM models

- › Regardless if your AHU is standard or fully customized, BIM models are available and can be downloaded with just a few clicks

Benefits for the end user

Customized or standard

- › Amazing tailor-made capability to meet the specific customer needs with the Professional range or fast availability thanks to the "make to stock" standard Modular L and T range

Efficient control logic

- › Open communication protocols (BACnet and Modbus) that guarantee BMS, and iTM compatibility
- › Energy efficient controls with reduced energy and operating cost
- › Highest efficiency ensure savings on energy consumption costs



Products overview

Centralised ventilation

D-AHU Professional

> Infinite variable sizes

> Tailored to the individual customer



0.21 m³/s
up to 40 m³/s

MADE IN BRITAIN

D-AHU Modular R

> Pre-configured sizes

> Plug and play concept

> EC Fan technology

> Heat recovery wheel (sorption and sensible technology)

> Compact design



0.14m³/s
up to 6.94 m³/s

MADE IN BRITAIN

D-AHU Modular P

> Pre-configured sizes

> Plug and play concept

> EC Fan technology

> High efficiency aluminium counter flow PHE

> Compact design



0.14m³/s
up to 6.94 m³/s

MADE IN BRITAIN

Decentralised ventilation

Modular L

> Pre-configured sizes

> Plug and play concept

> EC Fan technology

> High efficiency aluminium counter flow PHE

> Low height unit

> For false ceiling applications



42 l/s
up to 944 l/s

Modular T

> Pre-configured sizes

> Plug and play concept

> EC Fan technology

> Small footprint

> Compact design

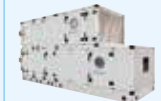
> High efficiency aluminium counter flow PHE

> Top connected unit

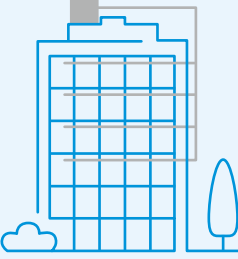


56 l/s
up to 1,167 l/s

Centralized ventilation



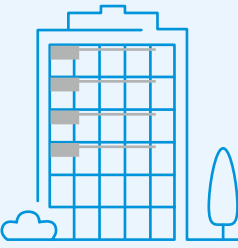




Decentralized ventilation







Eurovent certification

Daikin Applied Europe S.p.A. participates in the Eurovent Certified Performance programme for Air Handling Units. Check ongoing validity of certificate: www.eurovent-certification.com or www.certiflash.com



Result Energy TermiC° S2&F2		Eurovent Classification according to EN1886				
D1	Casing strength class	D1	D2	D3		
	Max. relative deflection mm x m ⁻¹	4.00	10.00	Exceeding10		
L1	Casing air leakage class at -400 Pa	L1	L2	L3		
	Max. leakage rate (f ₄₀₀) l x s ⁻¹ x m ⁻²	0.15	0.44	1.32		
L1	Casing air leakage lass at +700 Pa	L1	L2	L3		
	Max. leakage rate (f ₇₀₀) l x s ⁻¹ x m ⁻²	0.22	0.63	1.90		
ePM ₁ 80% (F9)	Filter bypass leakage class	ePM ₁ 80% (F9)	ePM ₁ 70% (F8)	ePM ₁ 50% (F7)	ePM _{2.5} 50% (M6)	ISO Coarse
	Max. filter bypass leakage rate k in % of the volume flow rate	0.50	1	2	4	6
T2	Thermal transmittance	T1	T2	T3	T4	T5
	(U) W x m ⁻² x K ⁻¹	U <= 0.5	0.5 < U <= 1	1 < U <= 1.4	1.4 < U <= 2	No requirements
TB2	Thermal bridging factor	TB1	TB2	TB3	TB4	TB5
	(kb)	0.75 < K _b <= 1	0.6 < K _b <= 0.75	0.45 < K _b <= 0.6	0.3 < K _b <= 0.45	No requirements

Selection software

ASTRA Web

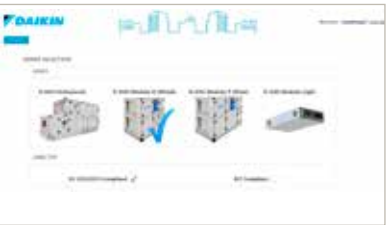
- > Quick AHU selection software interface, drastically reducing selection time.
- > Very competitive solution available within the Wizard thanks to pre-uploaded parameters.
- > High selection quality, thanks to the intelligence embedded within the software core.

Quickly select your air handling unit by following the wizard:

- 1 Select the series: D-AHU Professional, D-AHU Modular R/P, Modular L and Modular T
- 2 Insert the air flow supply and return
- 3 Insert the summer/winter air supply setpoint
- 4 Insert the summer/winter outdoor and extract temperature

You will get immediately your 3D result. Now, you will be able to modify your unit (adding or changing components) in order to have a product that meets all your needs.

When finished a technical report, price list, fan curve chart can be generated. These final reports can be downloaded in different formats.

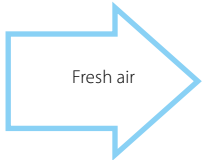


The working principle at a glance

Typical configurations for Daikin air handling units provide a versatile range of functions. Our system offers numerous options for customisation through an extensive range of variations and added functionality.

Supply side

- › Damper section including ventilation grilles, factory-mounted actuators
- › Premium efficiency filters with factory-mounted differential pressure manometer
- › Heat recovery system (cross flow and counter flow plate heat exchanger or rotary heat exchanger)
- › Mixing box with damper and factory-mounted actuators
- › Heating/cooling coil section with stainless steel condensate tray and drip protection
- › Supply air fan, EC technology (with hinged door, opening drive monitoring, mounted and cabled lighting and ON/OFF switch)

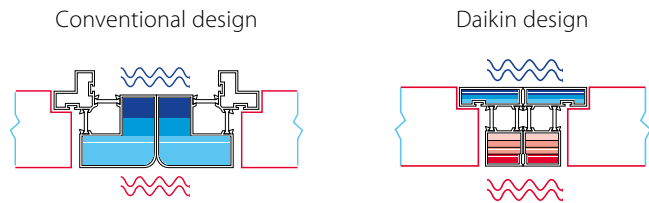


Plug and Play control solution

- › Air flow control
- › Air temperature control
- › Chilled water and DX cooling system control
- › Free cooling
- › CO₂ automatic control
- › Air temperature control (supply, return, ambient)
- › Variable Air Volume (VAV) and Constant Air Volume (CAV) systems

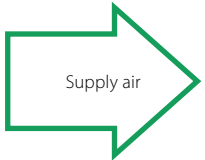
Unique section to section thermal break profile

- › Thermal bridge free for the entire AHU
- › Smooth interior surface with improved IAQ (Indoor Air Quality)



Return side

- › Premium efficiency filters with factory-mounted differential pressure manometer
- › Exhaust air fan, EC technology (with hinged door, opening drive monitoring, mounted and cabled lighting and ON/OFF switch)
- › Mixing box with damper and factory-mounted actuators
- › Heat recovery system (cross flow and counter flow plate heat exchanger or rotary heat exchanger)
- › Damper section including ventilation grilles, factory-mounted actuators



Fans

- › EC plug fan
- › Forward curved fan
- › Backward curved fan
- › Backward airfoil blades fan
- › Plug fan

Exchangers

- › Water coils
- › Steam coils
- › Direct expansion coil
- › Superheated water coils
- › Electric coils

Humidifiers

- › Evaporative humidifier without pump (loss water)
- › Evaporative humidifier with re-circulating pump
- › Steam humidifier with direct steam production
- › Steam humidifier with local distributor
- › Atomized water spray humidifier

Heat recovery systems

- › Heat wheel, sensible or sorption
- › Cross flow and Counter flow plate heat exchangers
- › Run-around coils

Other section

- › Attenuator section
- › Mixing box section with actuators or manual controlled dampers
- › Empty section

Filters

- › Synthetic pleated filter
- › Flat filter aluminium mesh
- › Rigid bag filter
- › Soft bag filter
- › High efficiency filter
- › Carbon absorption filter
- › Carbon deodorizing filter

Accessories

- › Control features
- › Frost protection
- › Manometers
- › Drive guard
- › Roof
- › ...

Professional

Flexible solution for custom applications



Highlights

- › Air flow from 0.21 m³/s up to 40 m³/s, for all customer needs
- › Indoor and outdoor versions
- › Custom designed to facilitate the transport and the assembly on site
- › Smooth interior surface with improved IAQ (Indoor Air Quality)
- › DX cooling system integration (VRV IV and ERQ coupling capability)
- › Daikin Digital Control compatible
- › Different heat recovery systems: heat wheel (sensible, enthalpy or sorption), cross flow and counter flow plate heat exchangers, run-around coils
- › Wide range of fans selectable: EC, AC plug, belt driven (forward curved, backward curved and backward airfoil blades)
- › Heating/cooling coil section with stainless steel condensate tray and drip protection
- › Different humidifiers available depending on customer needs
- › Premium efficiency filters with factory mounted differential pressure manometer
- › Profile in anodized aluminum with or without thermal break
- › Base frame in Galvanized steel, Aluminium, Stainless Steel 430 or 316
- › Panel insulation in polyurethane foam or mineral wool
- › Different material options selectable for internal, external panel skin: Pre-coated, Aluzinc, Aluminium, Stainless Steel 304 or 316
- › Wide range of accessories
- › Possibility to import BIM objects in Autodesk® Revit, thanks to a dedicated free plug-in available for [download](#)



Daikin Digital Control

Plug and play control system



Highlights

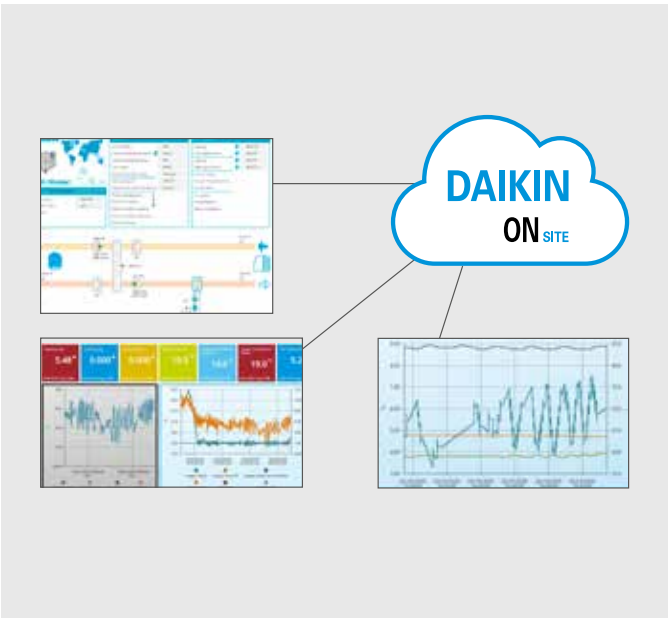
- › Free cooling/free heating management
- › VRV direct expansion systems management
- › Chilled water system control
- › Eco and reduced night modes
- › Up to 310 I/O (inputs/outputs)
- › All components internally wired
- › Fast connection between sections
- › Programming schedule
- › Indoor Air Quality (IAQ) controlled by CO₂ Probe
- › Regulation logic: Temperature Supply, Return, Ambient
- › Preloaded control parameters simplify the field commissioning
- › Unit delivered tested and programmed in the factory ensuring high quality level
- › Time and cost savings thanks to easy assembly on site
- › Minimum maintenance required
- › No involvement of external company or need of a third-party warranty thanks to integration of low and high voltage
- › User friendly control interface
- › Supervision and Control management local, remote options (Modbus, Bacnet)
- › Maximum flexibility in selecting the product and control feature directly from selection software



Daikin On Site

Control everywhere

The Daikin On Site platform offers different features and functions to monitor and control the unit.
The monitoring system makes available dashboards, remote access, scheduling, online graphics, diagnostics, software upgrade.



Modular R

Side connected rotary heat recovery air handling unit



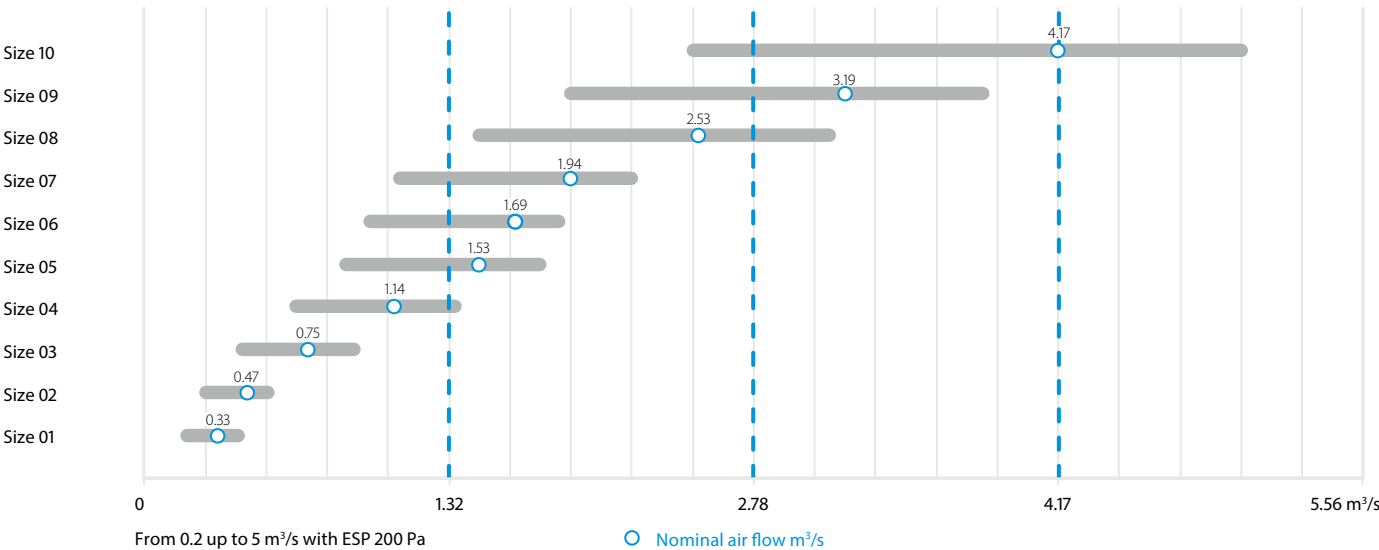
Highlights

- › 10 predefined sizes
- › Airflow from 0.14m³/s up to 6.94 m³/s (ErP 2018)
- › Rotary heat recovery (Sensible or Sorption)
- › Compact design (only 720 mm depth)
- › Indoor and outdoor versions
- › Thermal bridge free for the entire AHU
- › Smooth interior surface with improved IAQ (Indoor Air Quality)
- › Indoor air quality compliant with VDI 6022 hygiene guideline
- › Chilled water system control
- › DX cooling system integration (VRV IV and ERQ coupling capability)
- › Advanced control features
- › Monitoring and control through Daikin iTM
- › Nominal air flow programmed at factory
- › Air flow or pressure control (Variable Air Volume - Constant Air Volume)
- › Free cooling capability
- › Economy and Night mode operation
- › Possibility to import BIM objects in Autodesk® Revit



Modular R

Air flow range



Technical details

Now available with plug fan

Modular R			1	2	3	4	5	6	7	8	9	10
Airflow	m³/s		0.33	0.47	0.75	1.14	1.53	1.69	1.94	2.53	3.19	4.17
Temp. efficiency winter	%		76.9	76.7	77	77.2	78.5	77	78.4	78.7	77.9	78.2
External static pressure	Nom.	Pa	200									
Current¹	Nom.	A	2.6	3.65	2.24	3.27	4.23	5.14	5.79	6.92	9.39	12.56
Power input¹	Nom.	kW	0.6	0.84	1.36	1.98	2.56	3.11	3.51	4.19	5.69	7.61
SFPv²		kW/m³/s	1.553	1.507	1.451	1.521	1.387	1.549	1.525	1.432	1.487	1.551
Electrical supply	Phase	ph	1				3					
	Frequency	Hz	50									
	Voltage	V	230			400						
Dimensions unit	Width	mm	720	820	990	1,200	1,400		1,600	1,940		2,300
	Height	mm	1,320		1,540	1,740		1,920		2,180	2,460	2,570
	Length	mm	1,700		1,800	1,920	2,080	2,280	2,400	2,450	2,280	2,400
Weight unit	kg	325	350	475	575	750	790	950	1,330	1,410	1,750	

1. Measured with dirty filters | 2. SFPv is a parameter that quantifies the fan efficiency (the lower it is the better will be). This reduces if airflow decreases.

Modular P

Side connected plate heat recovery air handling unit



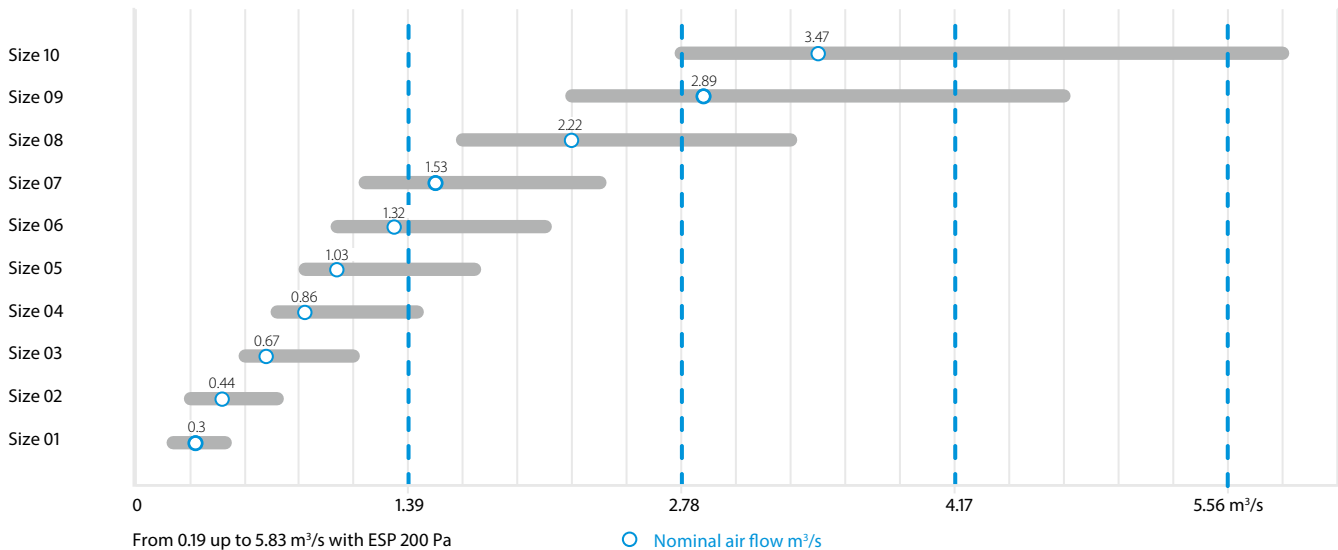
Highlights

- › 10 predefined sizes
- › Airflow from 0.14m³/s up to 6.94 m³/s (ErP 2018)
- › Counterflow plate heat recovery
- › Compact design (only 720 mm depth)
- › Indoor and outdoor versions
- › Thermal bridge free for the entire AHU
- › Smooth interior surface with improved IAQ (Indoor Air Quality)
- › Indoor air quality compliant with VDI 6022 hygiene guideline
- › Chilled water system control
- › DX cooling system integration (VRV IV and ERQ coupling capability)
- › Advanced control features
- › Monitoring and control through Daikin iTM
- › Nominal air flow programmed at factory
- › Air flow or pressure control (Variable Air Volume - Constant Air Volume)
- › Free cooling capability
- › Economy and Night mode operation
- › Possibility to import BIM objects in Autodesk® Revit, thanks to a dedicated free plug-in available for [download](#)



Modular P

Air flow range



Technical details

Now available with plug fan

Modular P			1	2	3	4	5	6	7	8	9	10
Airflow	m³/s		0.3	0.44	0.67	0.86	1.03	1.32	1.53	2.22	2.89	3.47
Heat exchanger thermal efficiency¹	%		88.1	87	87.2	87.1		92.1		91.8	92.9	
External static pressure	Nom.	Pa	200									
Current²	Nom.	A	1.78	2.48	2.08	2.73	3.45	4.58	5.25	7.53	9.55	11.55
Power input²	Nom.	kW	0.41	0.57	0.83	1.09	1.38	1.83	2.10	3.01	3.82	4.62
SFPv³		kW/m³/s	1.183	1.092	1.090	1.113	1.118	1.210	1.207	1.216	1.148	1.166
Electrical supply	Phase	ph	1			3						
	Frequency	Hz	50									
	Voltage	V	230			400						
Dimensions unit	Width	mm	720	820	990	1,200	1,400		1,600	1,940		2,300
	Height	mm	1,320		1,540	1,740		1,920		2,180	2,460	2,570
	Length	mm	2,030	2,200	2,610	2,660	2,800	3,210	3,340	3,840	4,060	4,190
Weight unit	kg		343	358	512	604	785	852	964	1,449	1,700	2,071

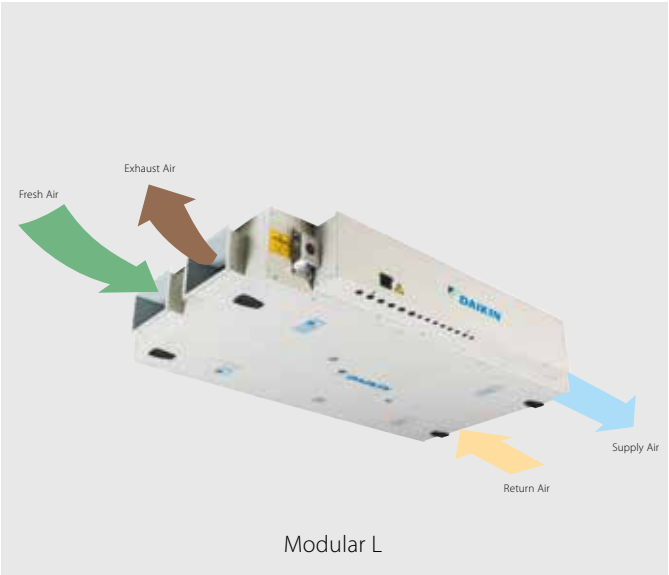
1. Winter design condition: Outdoor: -10°C, 90% Indoor: 22°C, 50% | 2. Measured with dirty filters | 3. SFPv is a parameter that quantifies the fan efficiency (the lower it is, the better will be). This reduces if airflow decreases.

Modular L

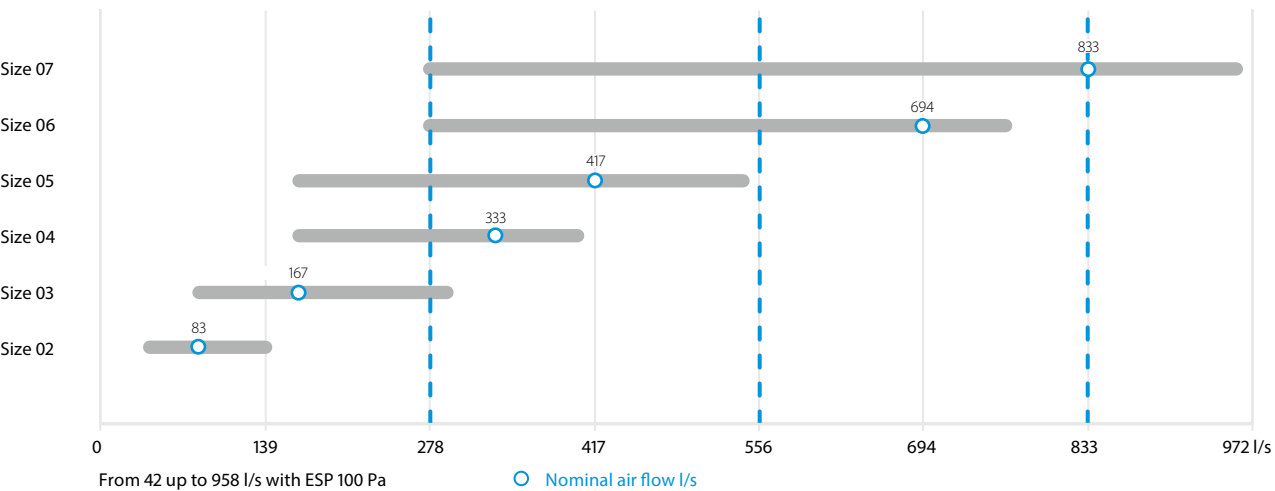
False ceiling heat recovery unit

Highlights

- › 6 Predefined sizes
- › Plug & Play control solution
- › Compact unit from 280 mm height (for air flow up to 153 l/s)
- › Wide air flow coverage from 42 to 944 l/s
- › Right and left configuration
- › Pro (open control platform) and Smart (Daikin control platform) version
- › Excellent indoor air quality (IAQ). Up to ePM1 80% (F9) filtration level with possibility to have a prefilter up to ePM1 50% (F7) for the best IAQ
- › VDI 6022 Certified
- › BIM file available at www.daikin.eu/BIM



Air flow range



Technical details

Modular L			ALB02*B		ALB03*B		ALB04*B		ALB05*B		ALB06*B		ALB07*B	
Airflow		l/s	83		167		333		417		694		833	
Heat exchanger thermal efficiency¹		%	90				91		90		91		90	
External static pressure		Nom. Pa					100							
Current		Nom. A	0.61		1.39		2.26		2.87		5.17		6.26	
Power input		Nom. kW	0.14		0.32		0.52		0.66		1.19		1.44	
SFPv²		kW/m³/s	1.27		1.55		1.32		1.38		1.49		1.54	
Electrical supply		Phase	ph				1							
		Frequency	Hz				50/60							
		Voltage	V				220/240 Vac							
Main unit dimensions		Width	mm	920		1,100		1,600				2,000		
		Height	mm	280		350		415				500		
		Length	mm	1,660		1,800				2,000				
Rectangular duct flange		Width	mm	250		400		500				700		
		Height	mm	150		200		300				400		
Weight unit		kg	125		180		270		280		355		360	

1. Winter design condition: Outdoor: -10°C, 90% Indoor: 22°C, 50% | 2. SFPv is a parameter that quantifies the fan efficiency (the lower it is the better will be). This reduces if airflow decreases.
3. Electrical current is based on 230V | 4. All data in the table refer to Modular L Pro. For Modular L Smart can be different. Please refer to Databook or Astra selection software for more details.

Modular T

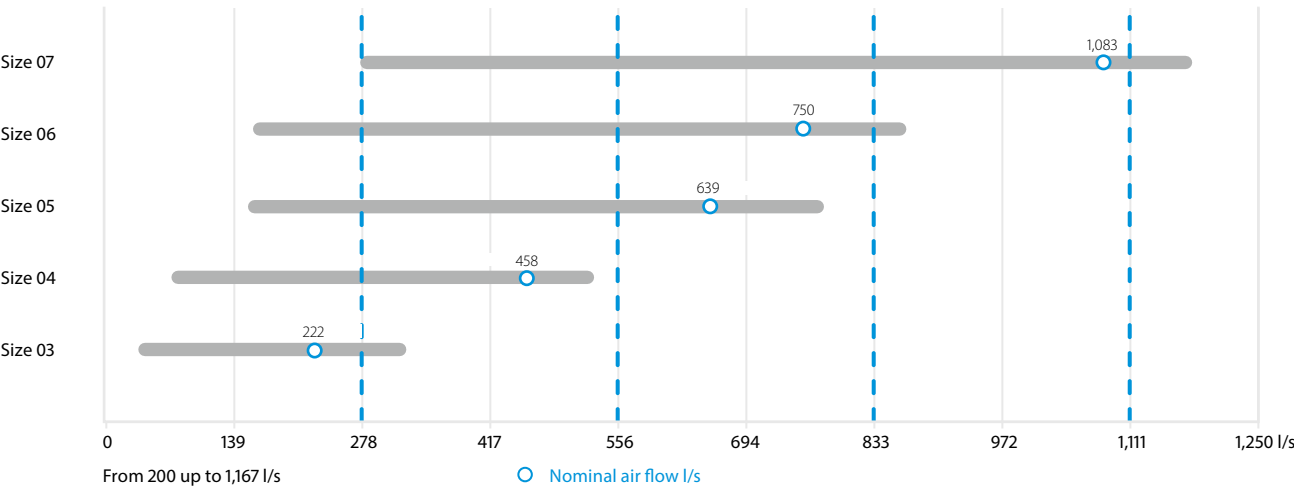
Top connected heat recovery unit

Highlights

- › 5 Predefined sizes
- › Plug & Play control solution
- › Compact unit from 550 mm width (for unit up to 306 l/s)
- › Wide air flow coverage from 200 to 4,200 m³/h
- › Right and left configuration
- › Pro (open control platform) and Smart (Daikin control platform) version
- › Excellent indoor air quality (IAQ). Up to three filtration stages: more than 90% PM1 in outdoor air are deleted achieving the best IAQ
- › DX and water coil available as option
- › Recirculation mixing damper (option)
- › BIM file available at www.daikin.eu/BIM



Air flow range



Technical details

Modular T		ATB03*A*	ATB04*A*	ATB05*A*	ATB06*A*	ATB07*A*
Size¹		03	04	05	06	07
Airflow	l/s	222	458	639	750	1,083
Heat exchanger thermal efficiency²	%	89.3	88.3	85.1	85.5	90.8
External static pressure	Pa	100				
Current	A	1.70	3.39	4.61	5.17	7.87
Power input	kW	0.39	0.78	1.06	1.19	1.81
SFPv³	kW/m³/s	1.47	1.5	1.49	1.41	1.5
Electrical supply	Phase	1				
	Frequency	50/60				
	Voltage	220/240 Vac				
Main unit dimensions	Width	mm	550	790	790	890
	Height	mm³	1,600		1,900	2,050
	Length	mm	1,580	1,650	2,170⁴	2,950⁵
	Diameter	mm	255	315	355	400
Circular duct flange						
Unit sound power level	dBA	57	52	55		58
Unit sound pressure level⁶	dBA	50	45	48		51
Weight Unit	Kg	200	250	400	500	620

1. All size available in Smart or Pro version and right or left handing | 2. Outdoor condition: -5°C, 90% Indoor condition: 25°C, 50% | 3. Including feet and duct connections | 4. Size 05 is provided in two sections
5. Size 06 and 07 are provided in three sections | 6. Simple source reference value at 1 meter, directivity factor Q=4 (quarter sphere) and non-reverberant field. Allowances on declared values: +/- 3dB

Daikin fresh air package



Plug and play connection of AHU to Daikin VRV and ERQ

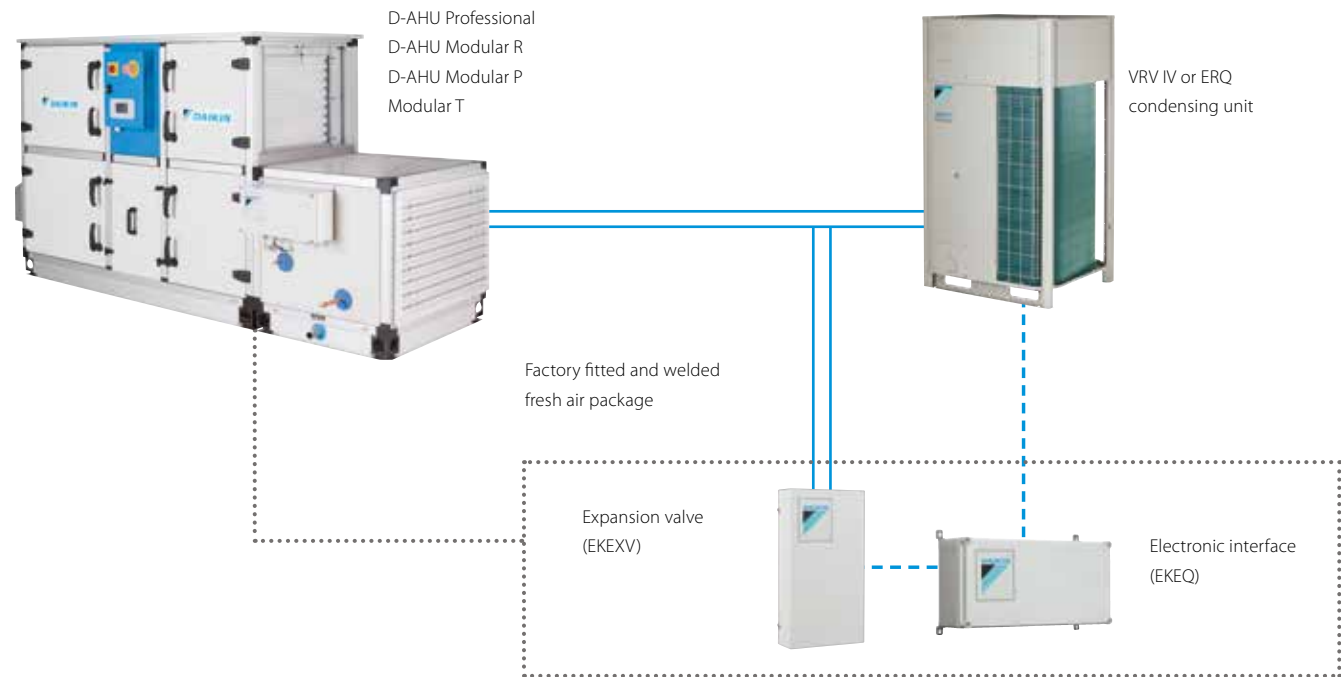
The Daikin fresh air package provides a complete solution, including all unit controls (expansion valve, control box and AHU controller) and sensors factory mounted and configured.

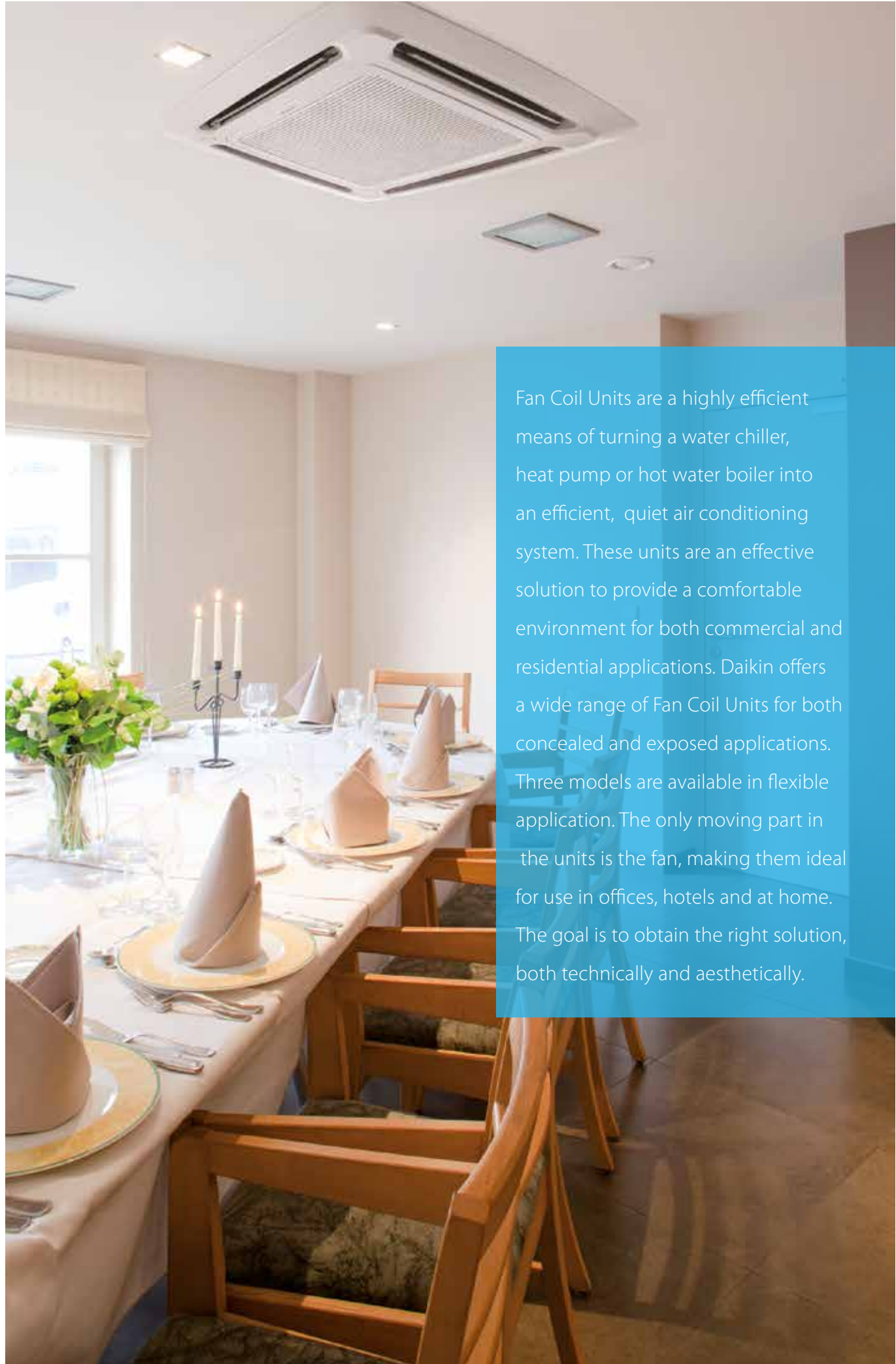
Higher efficiency

Daikin heat pumps are renowned for their high energy efficiency. Integrating the AHU with a heat recovery system is even more effective since an office system can frequently be in cooling mode while the outdoor air is too cold to be brought inside in an unconditioned state. In this case heat from the offices is merely transferred to heat up the cold incoming fresh air.

High comfort levels

Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resulting in high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.





Fan Coil Units are a highly efficient means of turning a water chiller, heat pump or hot water boiler into an efficient, quiet air conditioning system. These units are an effective solution to provide a comfortable environment for both commercial and residential applications. Daikin offers a wide range of Fan Coil Units for both concealed and exposed applications. Three models are available in flexible application. The only moving part in the units is the fan, making them ideal for use in offices, hotels and at home. The goal is to obtain the right solution, both technically and aesthetically.

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Fan coil units with BLDC motor

As more buildings undergo renovation, the need to be able to deliver high indoor air quality in a specific space in an **efficient and cost-effective way** without having to do a radical re-fit of the entire HVAC system has made fan coil technology an obvious solution.

Daikin has a full capacity range of **aesthetically pleasing** fan coil units with advanced controls that reliably deliver **excellent comfort levels**. And by using a refined range of advanced DC fan motors, we are able to offer flexibility while maintaining very low noise levels.

Why choose Daikin fan coil units?

- The new brushless DC ranges reflect Daikin's commitment to developing highly efficient fan coil units that help to reduce energy consumption, without compromising on reliability and performance.
- High level quality is written large for us and we are pleased to offer high technology solutions to the market.

Benefits for the installer

- › Reduced amount of sizes: less stock space needed
- › Modular designs for multiple configurations
- › Easy integration in BMS system via modbus protocol

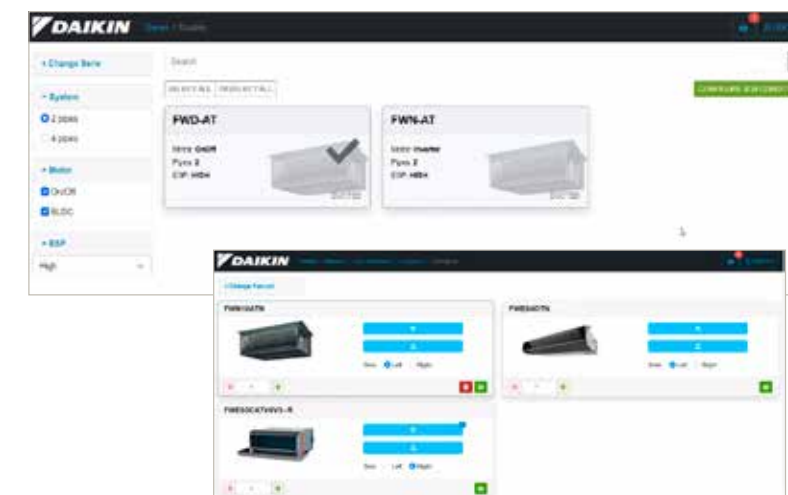
Benefits for the consultant

- › Best solution in the market in order to have top efficiency, best comfort and lowest sound levels
- › Product flexibility: wide range of options, accessories and controls

Benefits for the end user

- › High comfort level
- › Up to 70% savings on running costs with a BLDC fan motor
- › Controller with timer programmed operating mode
- › FWECSA controller that can satisfy all customer requirements in terms of FCU management

New generation web-based fan coil selection software



Select your FCU via our new web-based selection software:

- › Selection logic is based on the performance conditions requested and filtered by the user
- › The unit is completely configurable by the user with all the options/accessories available
- › A modular report with certified technical specifications and project summary can be printed

BIM objects

Our Fan Coils units are available as BIM objects in Revit format, which means they can be used in Autodesk REVIT MEP and in AutoCAD 2D files.

Visit our **BIM Application Suite**



BLDC fan motors Video

Learn more on the advantages of BLDC fan motors in Fan coil units:

Higher efficiency than AC motor
High comfort level
Low sound levels
High flexibility level



Check on
You Tube
www.youtube.com/DaikinEurope



Expanded FCU Controller Lineup

FWTOUCH
Touch interface



Full capacitive 2.8" colour touchscreen interface to use in combination with the FWECSPA control board

FWEC2T/4T/10
Simplified electronic controller

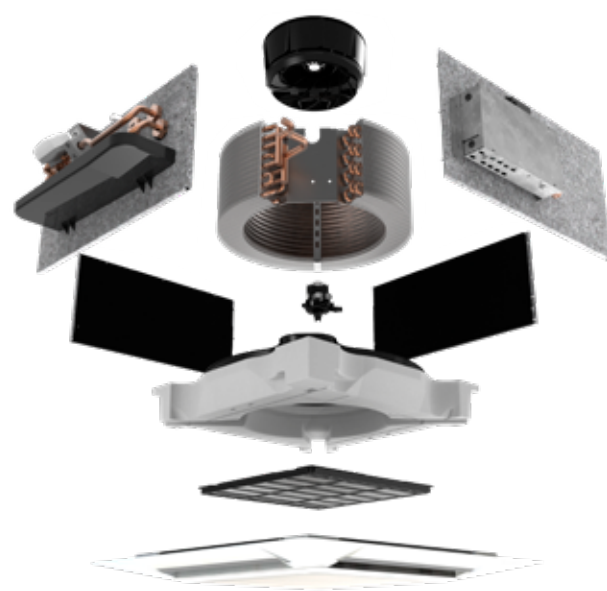


Wired wall controller available in 3 models: 2 pipe, 4 pipe, BLDC (with automatic speed function)



FWH-A (AC) & FWI-A (BLDC)

New "open protocol" cassette



Structure

- › 600x600 (02 up to 04 size)
- › 900x900 (06 up to 08 size)
- › Condensate drainage pump operates up to 0.9m
- › 4-way air discharge with RAL9003 ABS panel

Performance

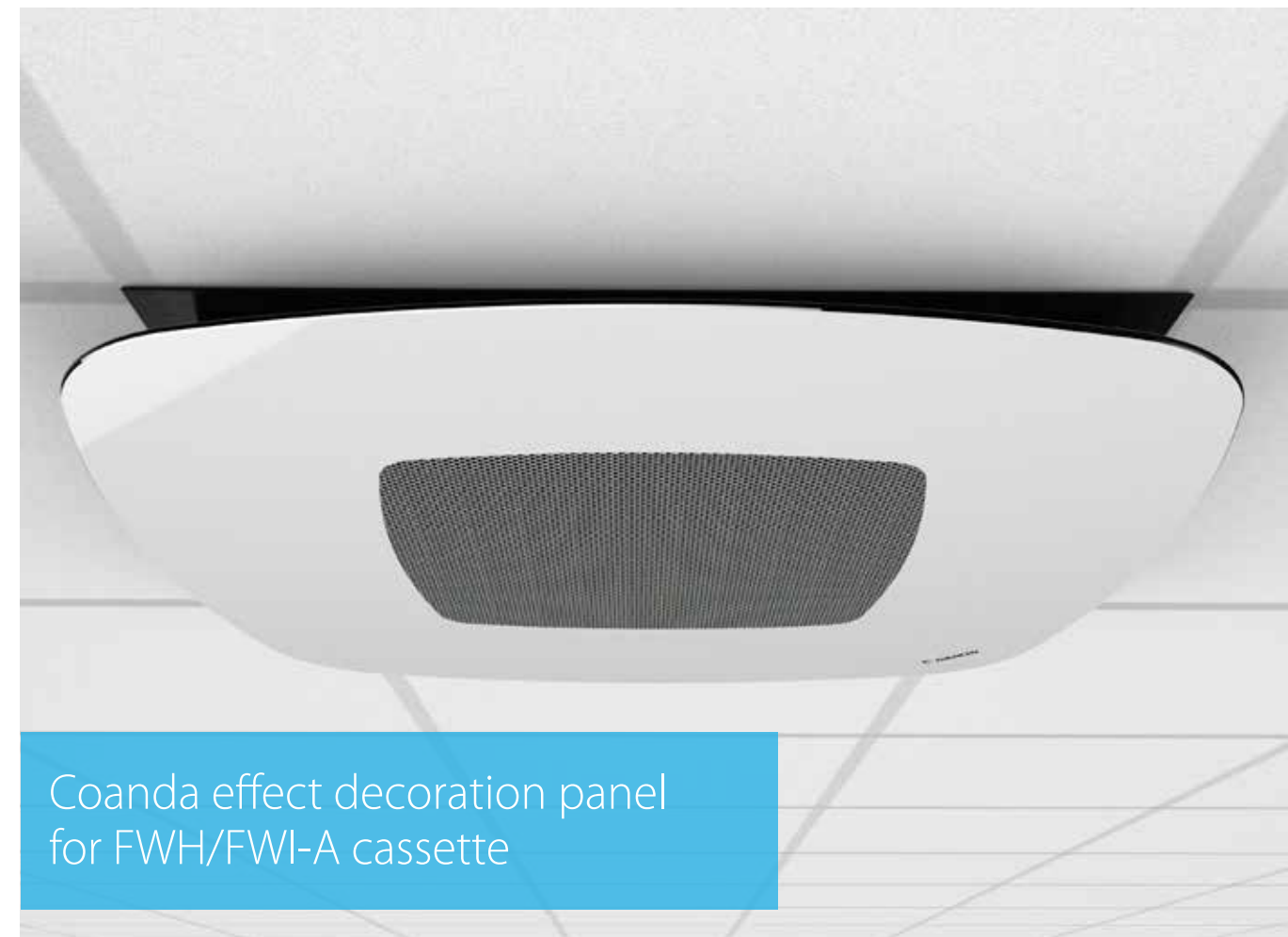
- › BLDC fan-motor technology
- › Low noise level and optimized comfort
- › up to 5 kW for 600x600 models
- › up to 10 kW for 900x900 models

Control

- › The "Open protocol" feature allows 3rd party BMS integration through the ModBus protocol
- › Can be used in combination with the Daikin "split-controller" and the FWTOUCH interface
- › Compatible with the Daikin wired room controllers

Options

- › Pressure Independent Control valve kit
- › ON/OFF and proportional valve kit
- › Ready to be combined with spigot for fresh air introduction and air distribution plenum



Coanda effect decoration panel for FWH/FWI-A cassette



Products overview

Capacity class

Type	Model	Product name	Fan motor type	Capacity	1	15	2	25	3	35	4	5	6	7	8	9	10	11	12	15	16	17	18
Round flow cassette	Round flow cassette - 900 x 900 cassette - 360° air discharge ensures uniform air flow - Integrated fresh air intake - Easy installation in corners - Standard drain pump with 850 mm lift		FWC-BT/BF		BLDC	Cooling: 4.0 - 8.7 kW Heating: 4.8 - 10.6 kW																	
4-way blow ceiling mounted cassette	4-way blow ceiling mounted cassette - 600 x 600 cassette - Integrated fresh air intake - Horizontal auto swing - Easy installation in corners - Standard drain pump with 750 mm lift		FWF-BT/BF		AC	Cooling: 1.4 - 4.9 kW Heating: 2.3 - 5.6 kW																	
Open protocol cassette	FWI-A - 600 x 600 and 900 x 900 cassette - BLDC motor with low energy consumption up to 75% - 4-way air discharge - Open protocol for control - Condensate drainage pump up to 900 mm lift		FWI-A		BLDC	Cooling: 1.33 - 10.5 kW Heating: 1.49 - 12.2 kW																	
	FWH-A - 600 x 600 and 900 x 900 cassette - ON/OFF 3-speed motor - 4-way air discharge - Open protocol for control - Condensate drainage pump up to 900 mm lift		FWH-A		AC	Cooling: 1.70 - 9.73 kW Heating: 1.97 - 11.1 kW																	
Floor standing units	Floor standing unit - For vertical mounting - Continuous air flow regulation and fan speed modulation - Up to 70% energy savings - Low sound levels		FWZ-AT/AF		BLDC	Cooling: 2.64 - 10.08 kW Heating: 2.46 - 11.18 kW																	
	Floor standing unit - For horizontal or vertical concealed mounting - Insulated valve packages, no extra drain pan required - Fast-on connections for electrical options: no tools needed - Easy maintenance		FWV-DAT/DAF		AC	Cooling: 1.46 - 8.02 kW Heating: 1.90 - 10.03 kW																	
	Flexi type unit - For horizontal or vertical mouting - Continuous air flow regulation and fan speed modulation - Up to 70% energy savings - Low sound levels		FWR-AT/AF		BLDC	Cooling: 2.64 - 10.08 kW Heating: 2.46 - 11.18 kW																	
	Flexi type unit - For horizontal or vertical concealed mounting - Insulated valve packages, no extra drain pan required - Fast-on connections for electrical options: no tools needed - Easy maintenance		FWL-DAT/DAF		AC	Cooling: 1.46 - 8.02 kW Heating: 1.90 - 10.03 kW																	
Flexi type units	Concealed flexi type unit - For horizontal or vertical concealed mounting - Continuous air flow regulation and fan speed modulation - Up to 70% energy savings - Low sound levels		FWS-AT/AF		BLDC	Cooling: 2.64 - 10.08 kW Heating: 2.46 - 11.18 kW																	
	Concealed flexi type unit - For horizontal or vertical concealed mounting - Insulated valve packages, no extra drain pan required - Fast-on connections for electrical options: no tools needed - Easy maintenance		FWM-DAT/DAF		AC	Cooling: 1.46 - 8.02 kW Heating: 1.90 - 10.03 kW																	
	Concealed flexi type - For horizontal or vertical concealed mounting - Available static pressure up to 30 Pa - Easy installation and maintenance - 5/6 speed fan motor - High power air flow		FWE-DT/DF		AC	Cooling: 1.2 - 5.6 kW Heating: 1.3 - 6.3 kW																	
	Ducted unit with low ESP - For horizontal concealed mounting - Available static pressure up to 30 Pa - Easy installation and maintenance - 4-speed fan motor - High power air flow		FWE-CT/CF		AC	Cooling: 2.10 - 9.96 kW Heating: 2.7 - 11.5 kW																	
Ducted units	Ducted unit with medium ESP - For horizontal concealed mounting - Instant adjustment to temperature and relative humidity changes - Available static pressure up to 70 Pa - Low sound levels		FWP- CT/ CF		BLDC	Cooling: 1.97 - 8.28 kW Heating: 1.99 - 8.46 kW																	
	Ducted unit with medium ESP - For horizontal concealed mounting - Available static pressure up to 60 Pa - 7-speed electrical motors (thermal protection on windings) - Easy maintenance		FWB-CT/CF		AC	Cooling: 1.90 - 8.12 kW Heating: 1.99 - 8.46 kW																	
	Ducted unit with high ESP - For horizontal or vertical concealed mounting - Aavailable static pressure up to 70 Pa - Easy maintenance		FWN-AT/AF		BLDC	Cooling: 2.83 - 8.75 kW Heating: 3.63 - 18.10 kW																	
	Ducted unit with high ESP - For horizontal or vertical concealed mounting - Available static pressure from 60 up to 145 Pa - Easy maintenance		FWD-AT/AF		AC	Cooling: 3.90 - 18.30 kW Heating: 4.05 - 21.92 kW																	
Wall mounted unit	Wall mounted unit - High aesthetic cabinet design - Optimum air distribution - Easy installation - 3-speed fan motor		FWT-GT		AC	Cooling: 2.43 - 5.28 kW Heating: 3.22 - 7.33 kW																	

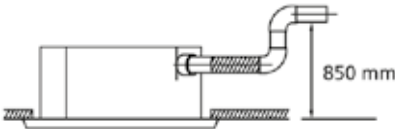
Round flow cassette

BLDC fan motor unit for ceiling mounting.
360° air discharge

- › 360° air discharge ensures uniform air flow and temperature distribution
- › Modern style decoration panel in white (RAL9010)
- › Optional fresh air intake
- › Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling



- › Possibility to shut 1 or 2 flaps for easy installation in corners
- › Standard drain pump with 850mm lift increases flexibility and installation speed



More details and final information
can be found by scanning or
clicking the QR codes.



FWC-BT



FWC-BF

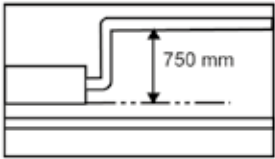
Indoor unit				FWC-BT/BF	06	07	08	09	06	07	08	09
					2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	5.5	6.1	7.2	8.1	5.9	6.3	7.2	8.3	
		Medium	kW	4.7	5.3	5.9	6.8	5.1	5.6	6.2	6.9	
		Low	kW	3.9	4.5	4.8	5.4	4.3	4.6	4.8	5.7	
	Sensible capacity	High	kW	4.2	4.7	5.7	6.5	4.2	4.6	5.4	6.4	
		Medium	kW	3.5	4.0	4.5	5.3	3.6	4.0	4.5	5.2	
		Low	kW	2.8	3.3	3.5	4.1	3.1	3.3	3.5	4.0	
Heating capacity (standard conditions)	High	kW	6.8	7.7	9.2	10.6	6.9	7.8	9.2	10.4		
	Medium	kW	5.8	6.6	7.6	8.8	6.1	6.7	7.6	8.7		
	Low	kW	4.8	5.5	5.8	7.0	5.2	5.5	5.8	6.8		
Power input	High	kW	0.045	0.054	0.077	0.107	0.046	0.055	0.077	0.107		
	Medium	kW	0.040	0.046	0.058	0.076	0.041	0.047	0.059	0.077		
	Low	kW	0.034	0.037	0.039	0.045	0.035	0.038	0.040	0.046		
FCEER				116	119	113	104	124	120	112	106	
FCCOP				143	147	141	137	149	144	138	131	
Dimensions	Unit	HeightxWidthxLength	mm	288x840x840								
Weight	Unit		kg	26				29				
Fan	Type			Turbo fan								
	Quantity			1								
	Air flow rate	High	m³/h	1,068	1,236	1,518	1,776	1,032	1,200	1,476	1,746	
		Medium	m³/h	894	1,038	1,200	1,410	864	1,002	1,164	1,374	
Low		m³/h	720	834	888	1,044	708	804	852	1,014		
Total sound power level	High	dBA	43.0	47.0	53.0	57.0	43.0	47.0	53.0	57.0		
	Medium	dBA	36.0	39.0	44.0	49.0	36.0	39.0	44.0	49.0		
	Low	dBA	31.0	33.0	36.0	40.0	33.0	36.0		40.0		
Sound pressure level	High	dBA	29.0	33.0	39.0	43.0	29.0	33.0	39.0		43.0	
	Medium	dBA	24.0	28.0	32.0	37.0	24.0	28.0	32.0		37.0	
	Low	dBA	21.0	22.0	24.0	28.0	21.0	22.0	24.0		28.0	
Piping connections	Drain	OD	mm	VP25 (External dia.32 / internal dia. 25)								
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240								
Control systems	Infrared remote control			BRC7E532F / BRC7E533F								
	Wired remote control			BRC315D7								

For standard conditions refer to Measuring Conditions table, at the end of this catalogue

4-way blow ceiling mounted cassette

AC fan motor unit for ceiling mounting.
Possibility to shut 1 or 2 flaps

- › Modern style decoration panel in white (RAL9010)
- › Compact casing (570mm in width and Length) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- › Comfortable horizontal auto swing ensures draughtfree operation and prevents ceiling soiling
- › Optional fresh air intake
- › Possibility to shut 1 or 2 flaps for easy installation in corners
- › Standard drain pump with 750mm lift increases flexibility and installation speed



More details and final information
can be found by scanning or
clicking the QR codes.



FWF-BT



FWF-BF

Indoor unit			FWF-BT/BF	02	03	04	05	02	03	04	05
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.7	3.0	4.0	4.9	1.8	2.9	3.8	4.6
		Medium	kW	1.5	2.7	3.1	4.0	1.5	2.4	3.1	3.8
		Low	kW	1.3	2.4		2.8	1.3	1.6		2.6
	Sensible capacity	High	kW	1.4	2.0	2.7	3.5	1.5	1.8	2.5	3.2
		Medium	kW	1.2	1.7	2.0	2.7	1.2	1.5	1.9	2.5
		Low	kW	1.0	1.4		1.8	1.0		1.6	
Heating capacity (standard conditions)	High	kW	2.4	3.3	4.5	5.6	3.3	3.6	4.7	5.7	
	Medium	kW	2.1	2.9	3.5	4.4	2.9	3.1	3.7	4.7	
	Low	kW	1.9	2.7		3.0	2.4	2.6		3.2	
Power input		High	kW	0.074		0.090	0.118	0.074		0.094	0.121
		Medium	kW	0.067		0.070	0.089	0.067	0.062	0.074	0.093
		Low	kW	0.060		0.055	0.062	0.060	0.055		0.066
FCEER				22	40	44	45	22	33	34	40
FCCOP				32	45	49		41	48		49
Dimensions	Unit	HeightxWidthxLength	mm	285x575x575							
Weight	Unit		kg	19					20		
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m³/h	456	468	660	876	468	438	618	822
		Medium	m³/h	384	390	486	648	390	366	456	612
	Low	m³/h	300	318		420	318	300		390	
Total sound power level	High		dBA	44.0		50.0	55.0	44.0	46.0	52.0	57.0
	Medium		dBA	40.0		44.0	49.0	40.0	42.0	46.0	51.0
	Low		dBA	36.0	38.0		42.0	36.0	38.0	41.0	44.0
Sound pressure level	High		dBA	31.0		40.0	45.0	31.0	33.0	42.0	47.0
	Medium		dBA	27.0		33.0	39.0	27.0	29.0	35.0	41.0
	Low		dBA	26.0		30.0	30.0	26.0	27.0		32.0
Piping connections	Drain	OD	mm	VP20 (External dia.26 / Internal dia. 20)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-440							
Control systems	Infrared remote control			BRC7E530 / BRC7E531							
	Wired remote control			BRC315D7							

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Open Protocol BLDC Cassette

BLDC fan motor for a precise control of operation
4-way air discharge

- › Two dimensional frames (600x600mm and 900x900mm)
- › Modern style ABS air intake diffusion grille
- › Low operating sound level
- › Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- › Condensate drainage pump up to 900mm lift
- › Available with mounted control board or in naked version to be combinable with any controller
- › Reduced installation and commissioning time with the availability of 2-way or 3-way valves, with ON-OFF or modulating actuator, and also pressure-independent control valves



Indoor unit				FWI-AT/FWI-AF				02	03	04	06	07	08	02	04	06	08
				2-pipe								4-pipe					
Cooling capacity (standard conditions)	Total capacity	High	kW	2.63	4.39	5.23	6.39	9.04	10.5	2.6	3.61	6.61	9.5				
		Medium	kW	2.24	3.4	3.95	5.36	7.26	8.37	2.18	2.8	5.34	7.62				
		Low	kW	1.93	2.68	2.76	4.8	5.92	6.7	1.85	2.05	4.61	6.09				
	Sensible capacity	High	kW	2.2	3.41	4.11	4.75	6.78	7.97	2.23	3.31	5.03	7.56				
		Medium	kW	1.81	2.54	2.96	3.92	5.31	6.15	1.79	2.38	3.94	5.82				
		Low	kW	1.51	1.94	1.98	3.8	4.24	4.8	1.46	1.62	3.34	4.5				
Heating capacity (standard conditions)	High	kW	3.25	4.58	5.55	7.30	10.20	12.20	3.86	4.98	9.53	12.90					
	Medium	kW	2.70	3.48	4.09	6.00	7.99	9.35	3.34	4.06	7.96	10.80					
	Low	kW	2.27	2.69	2.77	5.50	6.33	7.23	2.90	3.14	7.01	8.96					
Power input	High	kW	0.018	0.037	0.067	0.036	0.067	0.15	0.018	0.067	0.036	0.15					
	Medium	kW	0.01	0.015	0.022	0.018	0.036	0.06	0.01	0.022	0.018	0.06					
	Low	kW	0.007	0.009	0.009	0.013	0.018	0.025	0.007	0.009	0.014	0.025					
Dimensions	Unit	Height	mm	298			350			298			350				
		Width	mm	577			793			577			793				
		Depth	mm	577			793			577			793				
Weight	Unit		kg	23			43			23			43				
Casing	Material			Galvanised steel													
Decoration panel	Dimensions	Height	mm	41			75			41			75				
		Width	mm	730			860			730			860				
		Depth	mm	730			860			730			860				
		Weight	kg	2.5			5			2.5			5				
Air Filter	Type			Honeycomb polypropylene													
Fan	Type			Backward Centrifugal													
	Quantity			1													
	Air flow rate	High	m³/h	583	796	980	1,276	1,554	1,831	610	982	1,137	1,823				
	Medium	m³/h	454	551	650	978	1,143	1,321	460	643	841	1,314					
	Low	m³/h	397	397	397	843	864	976	356	395	687	956					
Total sound power level	High	dBA	46	54	61	45	53	58	46	61	45	58					
	Medium	dBA	40	44	49	39	45	50	40	49	39	50					
	Low	dBA	35	37	38	35	39	43	35	38	35	43					
Sound pressure level	High	dBA	38	46	61	37	45	50	46	61	45	58					
	Medium	dBA	33	36	49	31	37	42	40	49	39	50					
	Low	dBA	27	29	38	27	31	35	38	35	43						
Water flow	Cooling	High	l/h	452	754	898	1,097	1,545	1,805	447	620	1,135	1,631				
		Medium	l/h	385	584	687	921	1,245	1,436	374	480	917	1,307				
		Low	l/h	331	460	473	833	1,015	1,150	317	352	792	1,045				
	Heating	High	l/h	565	797	965	1,269	1,779	2,116	338	435	834	1,133				
		Medium	l/h	470	605	711	1,043	1,390	1,625	292	356	697	947				
		Low	l/h	395	468	481	953	1,100	1,257	254	275	613	785				
Allowed water temperature	Cooling	Min	°C	5													
	Heating	Max	°C	70													
Piping connections	Water	Inlet		1/2"			3/4"			1/2"			3/4"				
		Outlet		1/2"			3/4"			1/2"			3/4"				
	Drain	OD	mm	10													
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230														
Maximum absorbed current			A	0.64			1.20			0.64			1.20				
Control systems	Wired remote control			FWEC3A / FWEC3A / FWTOUCH / FWEC10													

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Open Protocol BLDC Cassette

AC fan motor unit for ceiling mounting
4-way air discharge

- › Two dimensional frames (600x600mm and 900x900mm)
- › Modern style ABS air intake diffusion grille
- › Reliability and sturdiness in a compact design
- › Condensate drainage pump up to 900mm lift
- › Available with mounted control board or in naked version to be combinable with any controller
- › Reduced installation and commissioning time with the availability of 2-way or 3-way valves with ON-OFF or modulating actuator



Indoor unit			FWH-AT/FWH-AF	02	03	04	06	07	08	02	03	04	06	08
				2-pipe						4-pipe				
Cooling capacity (standard conditions)	Total capacity	High	kW	2.53	4.31	5	7.01	8.24	9.73	2.35	3.38	3.62	7.45	9
		Medium	kW	1.97	3.55	4.61	5.36	6.11	8.61	1.85	2.83	3.38	6.6	8.48
		Low	kW	1.7	2.39	3.4	4.64	5.16	6.34	1.56	2.01	2.58	4.73	5.83
	Sensible capacity	High	kW	2.14	3.18	3.79	5.29	6.1	7.35	1.94	3.38	3.02	5.81	6.98
		Medium	kW	1.6	2.53	3.44	3.99	4.37	6.4	1.49	2.22	2.77	5.04	6.56
		Low	kW	1.33	1.66	2.43	3.42	3.68	4.59	1.24	1.49	2	3.47	4.29
Heating capacity (standard conditions)	High	kW	3.1	4.3	5.35	8.17	9.18	11.1	3.55	4.22	4.81	10.6	12.4	
	Medium	kW	2.33	3.44	4.92	6.06	6.53	9.53	2.88	3.62	4.54	9.6	11.7	
	Low	kW	1.97	2.29	3.49	5.16	5.22	6.71	2.53	2.75	3.67	7.20	8.64	
Power input	High	kW	0.04	0.05	0.09	0.11		0.15	0.04	0.05	0.09	0.11	0.15	
	Medium	kW	0.02	0.04	0.07	0.06		0.11	0.02	0.04	0.07	0.06	0.11	
	Low	kW	0.02	0.03	0.06	0.05		0.06	0.02	0.03	0.06	0.05	0.06	
Dimensions	Unit	Height	mm	298			350			298			350	
		Width	mm	577			793			577			793	
		Depth	mm	577			793			577			793	
Weight	Unit		kg	23			43			23			43	
Casing	Material			Galvanised steel										
Decoration panel	Dimensions	Height	mm	41			75			41			75	
		Width	mm	730			860			730			860	
		Depth	mm	730			860			730			860	
		Weight	kg	2.5			5			2.5			5	
Air Filter	Type			Honeycomb polypropylene										
Fan	Type			Backward Centrifugal										
	Quantity			1										
	Air flow rate	High	m³/h	557	640	805	1,494	1,380	1,651	533	640	805	1,380	1,651
Medium		m³/h	379	487	717	997	902	1,380	366	487	717	1,147	1,544	
Low		m³/h	297	306	479	801	718	902	289	306	479	718	902	
Total sound power level	High	dBA	45	50	58	51		56	45	50	58	51	56	
	Medium	dBA	37	44	55	40		51	37	44	55	40	51	
	Low	dBA	33	40	47	35		40	33	40	47	35	40	
Sound pressure level	High	dBA	37	42	50	43		48	37	42	50	43	48	
	Medium	dBA	29	36	47	32		43	29	36	47	32	43	
	Low	dBA	25	32	39	27		32	25	32	39	27	32	
Water flow	Cooling	High	l/h	441	749	873	1,223	1,434	1,696	410	589	637	1,299	1,571
		Medium	l/h	342	616	803	930	1,060	1,498	321	493	593	1,148	1,477
		Low	l/h	295	416	593	805	893	1,097	271	351	453	822	1,010
	Heating	High	l/h	539	747	930	1,420	1,596	1,930	311	369	421	929	1,083
		Medium	l/h	404	597	855	1,053	1,136	1,656	258	317	398	840	1,026
		Low	l/h	342	399	607	897	908	1,167	222	241	322	634	757
Allowed water temperature	Cooling	Min	°C	5										
	Heating	Max	°C	70										
Piping connections	Water	Inlet		1/2"			3/4"			1/2"			3/4"	
		Outlet		1/2"			3/4"			1/2"			3/4"	
	Drain	OD	mm	10										
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230										
Maximum absorbed current			A	0.2		0.4	0.7		0.2		0.4	0.7		
Control systems	Wired remote control			FWEC1A / FWEC2A / FWEC3A / FWEC5A / FWTOUCH / FWEC2T / FWEC4T										

Floor standing unit

BLDC fan motor unit for vertical mounting. Continuous air flow regulation and fan speed modulation

- › Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- › Instant adjustment to temperature and relative humidity changes
- › Low operating sound level
- › Highly flexible solutions: multiple sizes, piping topologies and connection valves
- › Requires very little installation space



More details and final information can be found by scanning or clicking the QR codes.



FWZ-AT



FWZ-AF

Indoor unit			FWZ-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.91	4.48	7.93	1.77	2.86	4.64	7.79
		Medium	kW	1.69	2.37	3.64	6.2	1.55	2.32	3.79	6.12
	Sensible capacity	Low	kW	1.35	1.75	2.99	4.1	1.25	1.72	3.10	4.06
		High	kW	1.49	2.09	3.62	5.87	1.44	2.06	3.54	5.76
		Medium	kW	1.30	1.69	2.90	4.59	1.21	1.65	2.85	4.54
	Low	kW	1.04	1.25	2.31	3.04	0.97	1.23	2.27	3.01	
Heating capacity (standard conditions)	High	kW	2.15	2.94	4.88	8.37	1.76	2.68	4.64	7.35	
	Medium	kW	1.81	2.37	4.11	6.53	1.56	2.31	4.07	6.29	
	Low	kW	1.50	1.76	3.36	4.39	1.36	1.88	3.55	4.85	
Power input	High	kW	0.019	0.016	0.033	0.087	0.019	0.016	0.033	0.087	
	Medium	kW	0.01		0.02	0.038	0.01		0.02	0.038	
	Low	kW	0.01					0.01			0.013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxLength	mm	564x774x226	564x984x226	564x1,190x226	564x1,404x251	564x774x226	564x984x226	564x1,190x226	564x1,404x251
Weight	Unit		kg	20.6	26.7	32.3	41.6	20.6	26.7	32.3	41.6
Casing	Colour	White - RAL9010									
Air filter	Type	Polypropylene net									
Fan	Type	Centrifugal									
	Quantity		1	2			1	2			
	Air flow rate	High	m³/h	344	442	785	1,393	327	431	763	1,362
		Medium	m³/h	271	341	605	1,022	261	332	593	1,007
		Low	m³/h	211	241	470	642	205	237	460	636
Total sound power level	High	dBA	50.0	48.0	56.0	67.0	50.0	47.0	58.0	66.0	
	Medium	dBA	44.0	42.0	49.0	60.0	44.0	41.0	53.0	58.0	
	Low	dBA	40.0	36.0	43.0	49.0	38.0	33.0	48.0		
Sound pressure level	High	dBA	45.0	43.0	51.0	62.0	45.0	42.0	54.0	61.0	
	Medium	dBA	39.0	37.0	44.0	55.0	39.0	36.0	48.0	53.0	
	Low	dBA	35.0	31.0	38.0	44.0	33.0	28.0	43.0		
Electric heater	Power input (Optional)		kW	1.5	1.6	2.0	-	1.5	1.6	2.0	-
Piping connections	Drain	OD	mm	16							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							
Control systems	Wired remote control			FWEC3A / FWEC5A / FWTOUCH / FWEC10							

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Floor standing unit

AC fan motor unit for vertical mounting

- › Quick fixing system for wall mounted installation
- › Pre-assembled 3-way/4-port on/off valves are available
- › Valve packages are insulated, no extra drain pan required
- › Valve packages contain balancing valves and sensor pocket
- › Fast-on connections for electrical options: no tools needed
- › The air filter can easily be removed for cleaning
- › Electric heater: no relay up to 2kW capacity
- › Electric heater: equipped with two overheat cut-out thermostats



More details and final information can be found by scanning or clicking the QR codes.



FWV-DAT



FWV-DAF

Indoor unit			FWV-DAT/DAF				01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10			
			2-pipe												4-pipe														
Cooling capacity (standard conditions)	Total capacity	High	kW	1.50	1.69	1.91	2.36	2.87	3.45	4.23	4.41	6.53	7.78	1.42	1.64	1.74	2.32	2.81	3.36	4.16	4.57	6.46	7.64	5.10	5.99				
		Medium	kW	1.21	1.48	1.66	1.99	2.34	2.58	3.21	3.59	5.14	6.07	1.11	1.44	1.52	1.96	2.29	2.54	3.17	3.74	5.10	5.99						
	Sensible capacity	Low	kW	1.02	1.24	1.34	1.57	1.73	1.94	2.47	2.95	3.88	4.00	0.97	1.22	1.24	1.55	1.70	1.92	2.44	3.06	3.84	3.96						
		High	kW	1.16	1.25	1.37	1.82	2.05	2.69	3.05	3.55	4.73	5.72	1.10	1.22	1.41	1.79	2.01	2.61	2.99	3.47	4.67	5.67						
		Medium	kW	0.94	1.10	1.20	1.53	1.66	1.99	2.39	2.85	3.70	4.46	0.87	1.07	1.18	1.50	1.62	1.96	2.36	2.80	3.67	4.40						
	Low	kW	0.77	0.93	0.98	1.15	1.23	1.41	1.76	2.27	2.75	2.94	0.73	0.91	0.96	1.14	1.21	1.40	1.74	2.23	2.73	2.91							
	Heating capacity (standard conditions)	High	kW	1.82	1.84	2.15	2.70	2.94	4.05	4.24	4.98	6.49	8.37	1.66		1.76	2.53	2.68	4.20	3.82	4.64	6.97	7.35						
		Medium	kW	1.48	1.72	1.81	2.26	2.37	3.13	3.24	4.08	5.17	6.53	1.49		1.56	2.18	2.31	3.47	3.22	4.07	6.02	6.29						
Power input	Low	kW	1.21	1.45	1.50	1.74	1.76	2.39	2.47	3.31	3.97	4.39	1.31		1.36	1.78	1.88	2.82	2.73	3.55	5.02	4.85							
	High	kW	0.037	0.053	0.057	0.056	0.065	0.098	0.182	0.244	0.037	0.053	0.057	0.056	0.065	0.098	0.182	0.244											
	Medium	kW	0.03		0.04	0.05	0.06	0.07	0.13	0.17	0.03	0.04	0.05	0.06	0.07	0.13	0.17												
Dimensions	Low	kW	0.02	0.03	0.02	0.03		0.04	0.05	0.09	0.11	0.02	0.03	0.02	0.03		0.04	0.05	0.13	0.17									
	Unit	HeightxWidthxLength	mm	564x774x226	564x984x226	564x1190x226	564x1400x251	564x774x226	564x984x226	564x1190x226	564x1400x251																		
	Weight	Unit	kg	19.7	20.6	25.5	26.7	31.0	30.4	32.3	41.4	41.6	19.7	20.6	25.5	26.7	31.0	30.4	32.3	41.4	41.6								
Casing	Colour	White - RAL9010																											
Air filter	Type	Polypropylene net																											
Fan	Type	Centrifugal																											
	Quantity																												
	Air flow rate	High	m³/h	319	344	442	640	706	785	1,011	1,393	307	330	327	432	431	628	690	763	998	1,362								
		Medium	m³/h	233	271	341	450	497	605	771	1,022	225	261	334	332	444	490	593	765	1,007									
Low	m³/h	178	211	241	320	361	470	570	642	174	205	238	237	316	356	460	565	636											
Total sound power level	High	dBA	47.0	49.0	50.0	48.0	52.0	53.0	56.0	61.0	67.0	45.0	49.0	50.0	48.0	47.0	53.0	56.0	58.0	60.0	66.0								
	Medium	dBA	42.0	44.0	43.0	42.0	43.0	49.0	54.0	60.0	39.0	44.0	43.0	41.0	45.0	46.0	53.0	54.0	58.0										
	Low	dBA	37.0	38.0	40.0	35.0	36.0	35.0	43.0	47.0	49.0	33.0	40.0	38.0	34.0	33.0	36.0	39.0	48.0	46.0	48.0								
	High	dBA	42.0	44.0	45.0	43.0	47.0	48.0	51.0	56.0	62.0	40.0	44.0	45.0	43.0	42.0	46.0	51.0	54.0	55.0	61.0								
Sound pressure level	Medium	dBA	37.0	39.0	38.0	37.0	38.0	44.0	49.0	55.0	34.0	39.0	38.0	36.0	38.0	41.0	48.0	49.0	53.0										
	Low	dBA	32.0	33.0	35.0	30.0	31.0	30.0	38.0	42.0	44.0	28.0	33.0	29.0	28.0	32.0	32.0	43.0	41.0	43.0									
	Electric heater	Power input (Optional)	kW	1.0	1.5	1.6		2.0		3.0	1.0	1.5		1.6		2.0		3.0											
Piping connections	Drain	OD	mm	16																									
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230																										
Control systems	Wired remote control		FWEC1A / FWEC2A / FWEC3A / FWEC5A / ECFWMB6 / FWTOUCH / FWEC2T / FWEC4T																										

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Flexi type unit

BLDC fan motor unit for horizontal or vertical mounting.
Continuous air flow regulation and fan speed modulation

- › For wall or ceiling mounted installation: ideal solution for spaces with no false ceilings
- › Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- › Instant adjustment to temperature and relative humidity changes
- › Low operating sound level
- › Highly flexible solutions: multiple sizes, piping topologies and connection valves
- › Requires very little installation space



More details and final information
can be found by scanning or
clicking the QR codes.



FWR-AT



FWR-AF

Indoor unit			FWR-AT/AF	02	03	06	08	02	03	06	08	
				2-pipe				4-pipe				
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.91	4.48	7.93	1.77	2.86	4.64	7.79	
		Medium	kW	1.69	2.37	3.64	6.20	1.55	2.32	3.79	6.12	
		Low	kW	1.35	1.75	2.99	4.10	1.25	1.72	3.10	4.06	
	Sensible capacity	High	kW	1.49	2.09	3.62	5.87	1.44	2.06	3.54	5.76	
		Medium	kW	1.30	1.69	2.90	4.59	1.21	1.65	2.85	4.54	
Heating capacity (standard conditions)	Low	Low	kW	1.04	1.25	2.31	3.04	0.97	1.23	2.27	3.01	
		Medium	kW	2.15	2.94	4.88	8.37	1.76	2.68	4.64	7.35	
		Medium	kW	1.81	2.37	4.11	6.53	1.56	2.31	4.07	6.29	
		Low	kW	1.50	1.76	3.36	4.39	1.36	1.88	3.55	4.85	
Power input	High	kW	0.019	0.016	0.033	0.087	0.019	0.016	0.033	0.087		
	Medium	kW	0.01		0.02	0.038	0.01		0.02	0.038		
	Low	kW	0.01			0.013	0.01			0.013		
FCEER				B	A			B	A			B
FCCOP				B	A			B	A			B
Dimensions	Unit	HeightxWidthxLength	mm	564x774x246	564x984x246	564x1,190x246	564x1,404x271	564x774x246	564x984x246	564x1,190x246	564x1,404x271	
Weight	Unit		kg	21.2	27.5	33.6	43.1	21.2	27.5	33.6	43.1	
Casing	Colour			White - RAL9010								
Air filter	Type			Polypropylene net								
Fan	Type			Centrifugal								
	Quantity			1	2			1	2			
	Air flow rate	High	m³/h	344	442	785	1,393	327	431	763	1,362	
		Medium	m³/h	271	341	605	1,022	261	332	593	1,007	
		Low	m³/h	211	241	470	642	205	237	460	636	
Total sound power level	High	dBA	50.0	48.0	56.0	67.0	50.0	47.0	58.0	66.0		
	Medium	dBA	44.0	42.0	49.0	60.0	44.0	41.0	53.0	58.0		
	Low	dBA	40.0	36.0	43.0	49.0	38.0	33.0	48.0			
Sound pressure level	High	dBA	45.0	43.0	51.0	62.0	45.0	42.0	54.0	61.0		
	Medium	dBA	39.0	37.0	44.0	55.0	39.0	36.0	48.0	53.0		
	Low	dBA	35.0	31.0	38.0	44.0	33.0	28.0	43.0			
Electric heater	Power input (Optional)	kW	1.5	1.6	2.0	-	1.5	1.6	2.0	-		
Piping connections	Drain	OD	mm	16								
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230								
Control systems	Wired remote control			FWEC3A / FWEC3A / FWTOUCH / FWEC10								

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Flexi type unit

AC fan motor unit for horizontal or vertical mounting

- › Quick fixing system for wall or ceiling mounted installation
- › Pre-assembled 3-way/4-port on/off valves are available
- › Valve packages are insulated, no extra drain pan required
- › Valve packages contain balancing valves and sensor pocket
- › Fast-on connections for electrical options: no tools needed
- › The air filter can easily be removed for cleaning
- › Electric heater: no relay up to 2kW capacity
- › Electric heater: equipped with two overheat cut-out thermostats



More details and final information
can be found by scanning or
clicking the QR codes.



FWL-DAT



FWL-DAF

Indoor unit			FWL-DAT/DAF																				01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
Cooling capacity (standard conditions)	Total capacity	High	kW	1.50	1.69	1.91	2.36	2.87	3.45	4.23	4.41	6.53	7.78											4-pipe																		
		Medium	kW	1.21	1.48	1.66	1.99	2.34	2.58	3.21	3.59	5.14	6.07	1.11	1.44	1.52	1.96	2.29	2.54	3.17	3.74	5.10	5.99																			
		Low	kW	1.02	1.24	1.34	1.57	1.73	1.94	2.47	2.95	3.88	4.00	0.97	1.22	1.24	1.55	1.70	1.92	2.44	3.06	3.84	3.96																			
	Sensible capacity	High	kW	1.16	1.25	1.37	1.82	2.05	2.69	3.05	3.55	4.73	5.72	1.10	1.22	1.41	1.79	2.01	2.61	2.99	3.47	4.67	5.61																			
		Medium	kW	0.94	1.10	1.20	1.53	1.66	1.99	2.39	2.85	3.70	4.46	0.87	1.07	1.18	1.50	1.62	1.96	2.36	2.80	3.67	4.40																			
		Low	kW	0.77	0.93	0.98	1.15	1.23	1.41	1.76	2.27	2.75	2.94	0.73	0.91	0.96	1.14	1.21	1.40	1.74	2.23	2.73	2.91																			
Heating capacity (standard conditions)	High	kW	1.82	1.84	2.15	2.70	2.94	4.05	4.24	4.98	6.49	8.37	1.66	1.76	2.53	2.68	4.20	3.82	4.64	6.97	7.35																					
	Medium	kW	1.48	1.72	1.81	2.26	2.37	3.13	3.24	4.08	5.17	6.53	1.49	1.56	2.18	2.31	3.47	3.22	4.07	6.02	6.29																					
	Low	kW	1.21	1.45	1.50	1.74	1.76	2.39	2.47	3.31	3.97	4.39	1.31	1.36	1.78	1.88	2.82	2.73	3.55	5.02	4.85																					
Power input	High	kW	0.037	0.053	0.057	0.056	0.065	0.098	0.182	0.244	0.037	0.053	0.057	0.056	0.065	0.098	0.182	0.244	0.037	0.053	0.057	0.056																				
	Medium	kW	0.03	0.04			0.05			0.06	0.07	0.13	0.17	0.03	0.04			0.05			0.06	0.07	0.13	0.17																		
	Low	kW	0.02	0.03	0.02	0.03	0.04			0.05	0.09	0.11	0.02	0.03	0.02	0.03	0.04			0.05	0.09	0.11																				
Dimensions	Unit	HeightxWidthxLength	mm	564x774x246		564x984x246		564x1,190x246		564x1,400x271		564x774x246		564x984x246		564x1,190x246		564x1,400x271																								
Weight	Unit		kg	20.6	21.2	26.5	27.5	32.5	33.5	33.6	43.1		20.6	21.2	26.5	27.5	32.5	33.5	33.6	43.1																						
Casing	Colour			White - RAL9010																																						
Air filter	Type			Polypropylene net																																						
Fan	Type			Centrifugal																																						
	Quantity			1		2			1			2			1		2																									
	Air flow rate	High	m³/h	319	344	442	640	706	785	1,011	1,393	307	330	327	432	431	628	690	763	998	1,362																					
		Medium	m³/h	233	271	341	450	497	605	771	1,022	225	261	334	332	444	490	593	765	1,007																						
	Low	m³/h	178	211	241	320	361	470	570	642	174	205	238	237	316	356	460	565	636																							
Total sound power level	High		dBA	47.0	49.0	50.0	48.0	52.0	53.0	56.0	61.0	67.0	45.0	49.0	50.0	48.0	47.0	53.0	56.0	58.0	60.0	66.0																				
	Medium		dBA	42.0	44.0	44.0	43.0	42.0	43.0	49.0	54.0	60.0	39.0	44.0	43.0	41.0	45.0	46.0	53.0	54.0	58.0																					
	Low		dBA	37.0	38.0	40.0	35.0	36.0	35.0	43.0	47.0	49.0	33.0	40.0	38.0	34.0	33.0	36.0	39.0	48.0	46.0	48.0																				
Sound pressure level	High		dBA	42.0	44.0	45.0	43.0	47.0	48.0	51.0	56.0	62.0	40.0	44.0	45.0	43.0	42.0	46.0	51.0	54.0	55.0	61.0																				
	Medium		dBA	37.0	39.0	39.0	38.0	37.0	38.0	44.0	49.0	55.0	34.0	39.0	38.0	36.0	38.0	41.0	48.0	49.0	53.0																					
	Low		dBA	32.0	33.0	35.0	30.0	31.0	30.0	38.0	42.0	44.0	28.0	33.0	29.0	28.0	29.0	32.0	43.0	41.0	43.0																					
Electric heater	Power input (Optional)		kW	1.0	1.5	1.6	2.0			3.0		1.0	1.5	1.6		2.0			3.0																							
Piping connections	Drain	OD	mm	16																																						
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																																						
Control systems	Wired remote control			FWEC1A / FWEC2A / FWEC3A / FWEC3A / ECFWMB6 / FWTOUCH / FWEC2T / FWEC4T																																						

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Concealed flexi type unit

- BLDC fan motor unit for horizontal or vertical concealed mounting. Continuous air flow regulation and fan speed modulation
- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
 - › Up to 70% energy savings with brushless DC motor technology compared to traditional technology
 - › Instant adjustment to temperature and relative humidity changes
 - › Low operating sound level
 - › Highly flexible solutions: multiple sizes, piping topologies and connection valves
 - › Available static pressure up to 50Pa at maximum speed



More details and final information can be found by scanning or clicking the QR codes.



FWS-AT



FWS-AF

Indoor unit		FWS-AT/AF	02	03	06	08	02	03	06	08
		2-pipe					4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.91	4.48	7.93	1.77	2.86	4.64
		Medium	kW	1.69	2.37	3.64	6.2	1.55	2.32	3.79
		Low	kW	1.35	1.75	2.99	4.1	1.25	1.72	3.10
	Sensible capacity	High	kW	1.49	2.09	3.62	5.87	1.44	2.06	3.54
		Medium	kW	1.30	1.69	2.90	4.59	1.21	1.65	2.85
Heating capacity (standard conditions)		Low	kW	1.04	1.25	2.31	3.04	0.97	1.23	2.27
	High	kW	2.15	2.94	4.88	8.37	1.76	2.68	4.64	7.35
	Medium	kW	1.81	2.37	4.11	6.53	1.56	2.31	4.07	6.29
Power input	Low	kW	1.50	1.76	3.36	4.39	1.36	1.88	3.55	4.85
	High	kW	0.019	0.016	0.033	0.087	0.019	0.016	0.033	0.087
	Medium	kW	0.01	0.02	0.038	0.01	0.02	0.038	0.01	0.038
FCEER			B	A			B	A		
FCCOP			B	A			B	A		
Dimensions	Unit	HeightxWidthxLength	mm	535x584x224	535x794x224	535x1,000x224	535x1,214x249	535x584x224	535x794x224	535x1,000x224
Weight	Unit		kg	16.9	22.1	26.6	35.4	16.9	22.1	26.6
Air filter	Type			Polypropylene net						
Fan	Type			Centrifugal						
Air flow rate	Quantity			1	2			1	2	
	High	m³/h	344	442	785	1,393	327	431	763	1,362
	Medium	m³/h	271	341	605	1,022	261	332	593	1,007
	Low	m³/h	211	241	470	642	205	237	460	636
Total sound power level	High	dBA	50.0	48.0	56.0	67.0	50.0	47.0	58.0	66.0
	Medium	dBA	44.0	42.0	49.0	60.0	44.0	41.0	53.0	58.0
	Low	dBA	40.0	36.0	43.0	49.0	38.0	33.0	48.0	48.0
Sound pressure level	High	dBA	45.0	43.0	51.0	62.0	45.0	42.0	54.0	61.0
	Medium	dBA	39.0	37.0	44.0	55.0	39.0	36.0	48.0	53.0
	Low	dBA	35.0	31.0	38.0	44.0	33.0	28.0	43.0	43.0
Electric heater	Power input (Optional)	kW	1.5	1.6	2.0	-	1.5	1.6	2.0	-
Piping connections	Drain OD	mm	16							
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230							
Control systems	Wired remote control		FWEC3A / FWEC3A / FWTOUCH / FWEC10							

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Concealed flexi type unit

- AC fan motor unit for horizontal or vertical concealed mounting
- › Quick fixing system for wall or ceiling mounted installation
 - › Pre-assembled 3-way/4-port on/off valves are available
 - › Valve packages are insulated, no extra drain pan required
 - › Valve packages contain balancing valves and sensor pocket
 - › Fast-on connections for electrical options: no tools needed
 - › The air filter can easily be removed for cleaning
 - › Electric heater: no relay up to 2kW capacity
 - › Electric heater: equipped with two overheat cut-out thermostats
 - › Available static pressure up to 50Pa at maximum speed



More details and final information can be found by scanning or clicking the QR codes.



FWM-DAT



FWM-DAF

Indoor unit			FWM-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10		
Cooling capacity (standard conditions)	Total capacity	High	kW	2-pipe										4-pipe											
		Medium	kW	1.21	1.48	1.66	1.99	2.34	2.58	3.21	3.59	5.14	6.07	1.11	1.44	1.52	1.96	2.29	2.54	3.17	3.74	5.10	5.99		
		Low	kW	1.02	1.24	1.34	1.57	1.73	1.94	2.47	2.95	3.88	4.00	0.97	1.22	1.24	1.55	1.70	1.92	2.44	3.06	3.84	3.96		
	Sensible capacity	High	kW	1.16	1.25	1.37	1.82	2.05	2.69	3.05	3.55	4.73	5.72	1.10	1.22	1.41	1.79	2.01	2.61	2.99	3.47	4.67	5.61		
		Medium	kW	0.94	1.10	1.20	1.53	1.66	1.99	2.39	2.85	3.70	4.46	0.87	1.07	1.18	1.50	1.62	1.96	2.36	2.80	3.67	4.40		
		Low	kW	0.77	0.93	0.98	1.15	1.23	1.41	1.76	2.27	2.75	2.94	0.73	0.91	0.96	1.14	1.21	1.40	1.74	2.23	2.73	2.91		
Heating capacity (standard conditions)	High	kW	1.82	1.84	2.15	2.70	2.94	4.05	4.24	4.98	6.49	8.37	1.66	1.76	2.53	2.68	4.20	3.82	4.64	6.97	7.35				
	Medium	kW	1.48	1.72	1.81	2.26	2.37	3.13	3.24	4.08	5.17	6.53	1.49	1.56	2.18	2.31	3.47	3.22	4.07	6.02	6.29				
	Low	kW	1.21	1.45	1.50	1.74	1.76	2.39	2.47	3.31	3.97	4.39	1.31	1.36	1.78	1.88	2.82	2.73	3.55	5.02	4.85				
Power input	High	kW	0.037	0.053	0.057	0.056	0.065	0.098	0.182	0.244	0.037	0.053	0.057	0.056	0.065	0.098	0.182	0.244	0.037	0.053	0.057	0.056			
	Medium	kW	0.03	0.04	0.05	0.06	0.07	0.13	0.17	0.03	0.04	0.05	0.06	0.07	0.13	0.17	0.03	0.04	0.05	0.06	0.07	0.13	0.17		
	Low	kW	0.02	0.03	0.02	0.03	0.04	0.05	0.09	0.11	0.02	0.03	0.02	0.03	0.04	0.05	0.09	0.11	0.02	0.03	0.02	0.03	0.04	0.05	0.09
Dimensions	Unit	HeightxWidthxLength	mm	535x584x224 535x794x224 535x1,000x224 535x1,210x249 535x584x224 535x794x224 535x1,000x224 535x1,210x249																					
Weight	Unit		kg	16.5 16.9 21.4 22.1 26.3 26.4 26.6 35.4 16.5 16.9 21.4 22.1 26.3 26.4 26.6 35.4																					
Air filter	Type			Polypropylene net																					
Fan	Type			Centrifugal																					
Air flow rate	Quantity			1		2				1				2				1				2			
	High	m³/h	319	344	442	640	706	785	1,011	1,393	307	330	327	432	431	628	690	763	998	1,362	1,362	1,362	1,362		
	Medium	m³/h	233	271	341	450	497	605	771	1,022	225	261	334	332	444	490	593	765	1,007	1,007	1,007	1,007	1,007		
	Low	m³/h	178	211	241	320	361	470	570	642	174	205	238	237	316	356	460	565	636	636	636	636	636		
Total sound power level	High	dBA	47.0	49.0	50.0	48.0	52.0	53.0	56.0	61.0	67.0	45.0	49.0	50.0	48.0	47.0	53.0	56.0	58.0	60.0	66.0	66.0	66.0		
	Medium	dBA	42.0	44.0	43.0	42.0	43.0	49.0	54.0	60.0	39.0	44.0	43.0	41.0	45.0	46.0	53.0	54.0	58.0	58.0	58.0	58.0			
	Low	dBA	37.0	38.0	40.0	35.0	36.0	35.0	43.0	47.0	49.0	33.0	40.0	38.0	34.0	33.0	36.0	39.0	48.0	46.0	48.0	48.0			
Sound pressure level	High	dBA	42.0	44.0	45.0	43.0	47.0	48.0	51.0	56.0	62.0	40.0	44.0	45.0	43.0	42.0	46.0	51.0	54.0	55.0	61.0	61.0	61.0		
	Medium	dBA	37.0	39.0	38.0	37.0	38.0	37.0	38.0	44.0	49.0	55.0	34.0	39.0	38.0	36.0	38.0	41.0	48.0	49.0	53.0	53.0			
	Low	dBA	32.0	33.0	35.0	30.0	31.0	30.0	38.0	42.0	44.0	28.0	33.0	29.0	28.0	29.0	32.0	43.0	41.0	43.0	43.0	43.0			
Electric heater	Power input (Optional)	kW	1.0	1.5	1.6	2.0	3.0	1.0	1.5	1.6	2.0	3.0	1.0	1.5	1.6	2.0	3.0	1.0	1.5	1.6	2.0	3.0			
Piping connections	Drain OD	mm	16																						
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230																						
Control systems	Wired remote control		FWEC1A / FWEC2A / FWEC3A / FWEC3A / FWTOUCH / FWEC2T / FWEC4T																						

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Concealed flexi type unit with low ESP

AC fan motor unit for horizontal or vertical concealed mounting

- › Low unit casing height of 200mm
- › Sirocco Fan leading to low noise operation
- › Open control
- › Factory mounted valve combinations
- › Increased flexibility of capacity setting in the field
- › The air filter can easily be removed for cleaning



FWE-DT



FWE-DF

More details and final information can be found by scanning or clicking the QR codes.

Indoor unit			FWE-DT/FWE-DF																03	04	05	06	07	08	10	11	03	04	05	06	07	08	10	11								
																			2-pipe				4-pipe																			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.06	2.58	3.12	3.43	3.92	5.22	5.6	1.94	2.06	2.58	3.12	3.42	3.92	5.22	5.6																							
		Medium	kW	1.6	1.64	2	2.4	2.79	3.66	4.19	4.41	1.6	1.64	2	2.4	2.79	3.66	4.19	4.41																							
		Low	kW	1.22	1.4	1.64	2.01	2.41	2.77	3.1	3.39	1.22	1.4	1.64	2.01	2.42	2.77	3.1	3.39																							
		Fan speed 1	kW	1.22	1.21	1.33	1.24	2.07	2.38	2.57	2.81	1.22	1.21	1.33	1.24	2.07	3.22	2.57	2.81																							
	Sensible capacity	High	kW	1.59	1.69	2.11	2.56	2.81	3.22	4.28	4.59	1.59	1.69	2.11	2.56	2.81	3.22	4.28	4.59																							
		Medium	kW	1.31	1.34	1.64	1.97	2.28	3	3.44	3.61	1.31	1.34	1.64	1.97	2.28	3	3.44	3.61																							
		Low	kW	1	1.15	1.35	1.64	1.98	2.27	2.54	2.78	1	1.15	1.35	1.64	1.98	2.27	2.54	2.78																							
		Fan speed 1	kW	1	0.99	1.09	1.02	1.7	1.95	2.11	2.3	1	0.99	1.09	1.02	1.7	1.95	2.11	2.3																							
	Latent capacity	High	kW	0.35	0.37	0.46	0.56	0.62	0.71	0.94	1.01	0.35	0.37	0.46	0.56	0.62	0.71	0.94	1.01																							
		Medium	kW	0.32	0.34	0.43	0.49	0.58	0.66	0.86	0.92	0.32	0.34	0.43	0.49	0.58	0.66	0.86	0.92																							
Heating capacity (standard conditions)	Capacity	High	kW	2	2.38	2.89	4	4.37	4.64	5.98	6.35	2.11	2.61	2.94	3.84	4.57	5.83	6.18																								
		Medium	kW	1.69	1.99	2.32	3.36	3.6	4.39	4.96	5.17	1.81	2.37	2.58	3.09	3.93	4.34	4.87	5.07																							
		Low	kW	1.34	1.78	1.98	2.94	3.15	3.56	3.89	4.17	1.47	2.23	2.36	2.69	3.57	3.87	4.14																								
		Fan speed 1	kW	1.34	1.6	1.68	2.13	2.74	3.2	3.37	3.6	1.47	2.11	2.16	1.91	3.22	3.39	3.6																								
Power input	High	kW	0.03	0.03	0.04	0.06	0.07	0.10	0.11	0.03	0.03	0.04	0.06	0.07	0.10	0.11																										
	Medium	kW		0.03		0.05		0.06		0.03		0.03		0.05		0.06																										
	Low	kW		0.03			0.04			0.03				0.04																												
	Fan speed 1	kW		0.03		0.04		0.03			0.03		0.04		0.03																											
Dimensions	Unit	Height	mm									200																														
		Width	mm	795				995				1,200				795				995				1,200																		
		Depth	mm																	610																						
	Packed unit	Height	mm																	205																						
		Width	mm	925				1,125				1,325				925				1,125				1,325																		
		Depth	mm																	745																						
Weight	Unit	kg	17.5	18.5		22	25.5				18	19	22.5	26				26																								
	Packed unit	kg	20	21		25	29				21	22	26	30				30																								
Casing	Colour																																									
	Material	Metal																																								
Air filter	Type	Galvanised sheet metal																																								
	Type	Plastic Frame / PP Filter Net (G1)																																								
Fan	Type	Sirocco fan																																								
		Quantity	2				3				4				2				3				4																			
	Air flow rate	High	m³/h	407	385	488	677	725		1,032	1,116	407	385	488	677	725		1,032	1,116																							
		Medium	m³/h	326	306	374	527	570	669	798	846	326	306	374	527	570	669	798	846																							
		Low	m³/h	235	263	304	446	481		555	619	235	263	304	446	481		555	619																							
		Fan speed 1	m³/h	235	227	243	290	397		436	489	235	227	243	290	397		436	489																							
Total sound power level	High	dBA	45	44	50				57	59	45	44	50				57	59																								
	Medium	dBA	39	38	41	44	42	46	51	52	39	38	41	44	42	46	51	52																								
	Low	dBA	33	34	37	39	34		43	44	33	34	37	39	34		43	44																								
	Fan speed 1	dBA		33		30	31		38	40		33		30	31		38	40																								
Water flow	Cooling	High	l/h	334	354	443	536	589	674	897	962	334	354	443	536	589	674	897	962																							
		Medium	l/h	275	282	343	412	479	630	720	757	275	282	343	412	479	630	720	757																							
		Low	l/h	210	241	282	345	415	477	534	583	210	241	282	345	415	477	534	583																							
		Fan speed 1	l/h	210	209	228	213	354	409	442	483	210	209	228	213	354	409	442	483																							
	Heating	High	l/h	344	409	496	689	751	797	1,029	1,092	182	225	253	330	393	502	531																								
		Medium	l/h	290	343	400	577	618	755	852	888	156	203	222	266	338	374	419	436																							
		Low	l/h	230	306	341	505	542	613	669	717	126	192	203	231	307	333	356																								
		Fan speed 1	l/h	126	182	186	164	277		291	310	230	275	289	366	471	550	579	620																							
Piping connections	Drain	OD	mm	17.3																																						
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230																																							
Current input	High	A	0.01		0.02	0.03	0.02		0.04	0.05	0.01	0.02	0.03	0.02		0.04	0.05																									
	Medium	A	0.01	0.02				0.04				0.01				0.02				0.04																						
	Low	A	0.01	0.02				0.01				0.01				0.02				0.01																						
Control systems	Wired remote control	FWEC1A / FWEC2A / FWEC3A / FWEC5A / FWTOUCH / FWEC2T / FWEC4T																																								

Concealed ceiling unit with medium ESP

BLDC fan motor unit for horizontal concealed mounting.
Continuous air flow regulation and fan speed modulation

- › Blends unobtrusively with any interior decor: only the suction and discharge grills are visible
- › Up to 50% energy savings with brush-less DC motor technology compared to traditional technology
- › Instant adjustment to temperature and relative humidity changes
- › Low operating sound level
- › Highly flexible solutions: multiple sizes, piping topologies and connection valves
- › Heat exchanger up to 4 rows
- › Available static pressure up to 80Pa at maximum speed



FWP-CT



FWP-CF

More details and final information can be found by scanning or clicking the QR codes.

Indoor unit		FWP-CT/CF			04			05			06			08			10			11			15			17		
											2-pipe																	
Speed			min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max		
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			5,6,7			5,6,7			5,6,7				
Control voltage (E)		V	2.90	8.00	9.00	4.30	7.50	8.40	4.50	7.40	8.30	5.40	8.30	9.90	3.40	7.60	8.50	3.40	7.60	8.50	6.80	7.50	8.30	6.80	7.50	8.30		
Rated air flow (E)		m³/h	109	246	276	171	275	341	195	360	402	305	532	652	333	687	760	333	687	760	1,050	1,163	1,289	1,050	1,163	1,289		
Available static pressure (E)		Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60		
Power input (E)		W	6	25	33	10	24	39	10	26	35	22	51	77	11	54	68	11	54	68	105	128	162	105	128	162		
Maximum current absorption		A	0.32			0.60			0.84			0.84			0.91			0.91			3.52			3.52				
Total cooling capacity (1)(E)		kW	0.93	1.76	1.95	1.29	1.95	2.34	1.59	2.74	3.04	1.98	3.26	3.79	2.29	4.34	4.75	2.51	4.91	5.35	6.28	6.81	7.38	7.04	7.64	8.28		
Sensible cooling capacity (1)(E)		kW	0.62	1.25	1.39	0.91	1.39	1.66	1.09	1.91	2.11	1.48	2.48	2.92	1.67	3.21	3.51	1.77	3.45	3.76	4.64	5.03	5.46	4.96	5.38	5.84		
FCEER class (E)			A										C								B							
Water flow (2)		l/h	161	306	340	222	339	408	274	476	527	343	568	664	394	753	828	432	850	930	1,094	1,190	1,295	1,225	1,332	1,448		
Water pressure drop (2)(E)		kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	-		
Heating capacity (3)(E)		kW	0.88	1.21	1.99	1.33	1.98	2.35	1.59	2.80	3.10	2.35	3.71	4.31	2.54	4.76	5.17	2.63	5.03	5.49	6.68	7.22	7.80	7.18	7.80	8.46		
FCCOP class (E)			A										B															
Water flow (3)		l/h	153	315	346	231	345	408	276	488	538	408	644	749	441	827	898	457	875	955	1,162	1,256	1,356	1,248	1,355	1,471		
Water pressure drop (3)(E)		kPa	1	4	5	2	5	7	2	6	8	4	9	11	2	7	8	3	9	11	12	14	16	17	19	22		
Standard coil - number of rows			3			3			4			3			3			4			3			4				
Total sound power level (4)		dB(A)	28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69		
Inlet + radiated sound power level (4)(E)		dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67		
Outlet sound power level (4)(E)		dB(A)	25	46	49	36	47	51	36	47	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66		
Water content - standard coil		dm³	1.20			1.20			2.20			1.60			2.50			3.30			2.50			3.30				
Cross-section area of power cables (5)		mm²	1.00			1.00			1.00			1.00			1.00			1.00			1.50			1.50				
4-pipe																												
Speed			min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max		
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			5,6,7			5,6,7			5,6,7				
Control voltage (E)		V	2.90	7.90	8.90	4.50	7.30	8.90	4.50	7.40	8.30	5.40	8.30	9.90	3.40	7.60	8.50	3.40	7.60	8.50	6.80	7.50	8.30	6.80	7.50	8.30		
Rated air flow (E)		m³/h	109	243	270	170	272	336	195	357	398	302	524	642	333	683	755	333	683	755	1,050	1,163	1,289	1,050	1,163	1,289		
Available static pressure (E)		Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60		
Power input (E)		W	6	25	32	10	23	39	10	26	35	21	50	77	11	54	67	11	54	67	105	128	162	105	128	162		
Maximum current absorption		A	0.32			0.60			0.84			0.84			0.91			0.91			3.52			3.52				
Total cooling capacity (1)(E)		kW	0.93	1.74	1.91	1.28	1.93	2.31	1.59	2.72	3.01	1.95	3.22	3.75	2.29	4.32	4.72	2.51	4.88	5.32	6.28	6.81	7.38	7.04	7.64	8.28		
Sensible cooling capacity (1)(E)		kW	0.62	1.24	1.36	0.90	1.38	1.64	1.09	1.89	2.09	1.47	2.44	2.89	1.67	3.19	3.48	1.77	3.43	3.74	4.64	5.03	5.46	4.96	5.38	5.84		
FCEER class (E)			A										A								C							
Water flow (2)		l/h	161	302	333	221	335	404	274	473	522	339	562	656	394	749	822	432	846	925	1,094	1,190	1,295	1,225	1,332	1,448		
Water pressure drop (2)(E)		kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26		
Heating capacity (3)(E)		kW	1.14	1.93	2.06	1.55	2.07	2.32	2.09	3.09	3.29	2.80	3.82	4.24	3.40	5.17	5.45	3.40	5.17	5.45	6.42	6.73	7.06	6.42	6.73	7.06		
FCCOP class (E)			A										A								C							
Water flow (3)		l/h	100	169	180	136	181	204	183	271	288	245	334	371	297	452	477	297	452	477	562	589	618	562	589	618		
Water pressure drop (3)(E)		kPa	1	2	3	2	3	3	2	3	4	3	5	6	6	13	14	6	13	14	19	21	22	19	21	22		
Total sound power level (4)			28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69		
Standard coil - number of rows		dB(A)	3+1			3+1			4+1			3+1			3+1			4+1			3+1			4+1				
Inlet + radiated sound power level (4)(E)		dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67		
Outlet sound power level (4)(E)		dB(A)	25	46	49	36	47	51	36	47	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66		
Water content - standard coil		dm³	0.47			0.47			0.59			0.59			0.97			0.97			0.97			0.97				
Cross-section area of power cables (5)		mm²	1.00			1.00			1.00			1.00			1.00			1.00			1.50			1.50				
N07V-K																												
Power supply cable type																												
Safety fuse F		A	1			1			1			1			1			1			2			2				
Fuses type			gG																									
Power supply		Phase/Frequency	1~/50																									
Control systems		Wired remote control	FWEC3A / FWECSA / FWTOUCH / FWEC10																									

Concealed ceiling unit with high ESP

BLDC fan motor unit for horizontal or vertical mounting.
Continuous air flow regulation and fan speed modulation

- › Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- › Instant adjustment to temperature and relative humidity changes
- › Low operating sound level
- › Highly flexible solutions: multiple sizes, piping topologies and connection valves
- › The air filter can easily be removed for cleaning
- › Straight duct connector mounted to discharge side
- › Available static pressure up to 120Pa at maximum speed



More details and final information can be found by scanning or clicking the QR codes.



FWN-AT



FWN-AF

Indoor unit			FWN-AT/AF		04	05	06	07	08	10	04	05	06	07	08	10		
			2-pipe							4-pipe								
Cooling capacity (standard conditions)	Total capacity	High	kW	3.80	4.65	6.01	6.65	7.57	8.49	3.76	4.61	5.91	6.55	7.46	8.35			
		Medium	kW	3.47	4.20	5.65	6.25	6.84	7.62	3.44	4.17	5.58	6.17	6.75	7.52			
		Low	kW	2.83	3.38	5.22	5.78	6.20	6.84	2.82	3.36	5.17	5.71	6.14	6.77			
	Sensible capacity	High	kW	2.98	3.56	4.47	5.04	6.29	6.83	2.95	3.53	4.39	4.97	6.19	6.71			
		Medium	kW	2.70	3.19	4.20	4.73	5.60	6.07	2.68	3.17	4.15	4.66	5.52	5.98			
		Low	kW	2.19	2.54	3.90	4.35	5.01	5.40	2.18	2.52	3.84	4.30	4.96	5.34			
Heating capacity (standard conditions)	High	kW	4.05	4.83	6.42	7.26	7.88	8.93	3.91	3.89	5.72	5.65	7.99	7.94				
	Medium	kW	3.69	4.36	6.03	6.80	7.11	8.04	3.68	3.66	5.51	5.45	7.47	7.44				
	Low	kW	3.04	3.55	5.59	6.29	6.47	7.28	3.23		5.25	5.21	7.02	6.99				
Power input	High	kW	0.112		0.152		0.248		0.112		0.152		0.248					
	Medium	kW	0.07		0.13		0.17		0.73		0.13		0.17					
	Low	kW	0.04		0.10		0.12		0.45	0.40	0.10		0.12					
FCEER			C	B	C				B		C							
FCCOP			B	A	B		C	B		C								
Dimensions	Unit	HeightxWidthxLength	mm	559x754x280		559x964x280		559x1,170x280		559x754x280		559x964x280		559x1,170x280				
Weight	Unit		kg	32.5	33.3	40.6	41.7	47.3	48.7	34.7	35.5	43.2	44.4	50.3	51.7			
Air filter	Type	Acrylic - Filtering class EU2																
Fan	Type	Centrifugal																
	Quantity		1		2				1		2							
	Air flow rate	High	m³/h	802	791	1,238	1,203	1,606	1,581	793	783	1,211	1,182	1,576	1,550			
		Medium	m³/h	700	692	1,134	1,107	1,384	1,371	694	686	1,115	1,088	1,362	1,349			
		Low	m³/h	534	532	1,019	1,000	1,207	1,198	531	529	1,005	985	1,192	1,184			
Total sound power level	High	dBA	66.0		69.0		72.0		66.0		69.0		72.0					
	Medium	dBA	61.0		63.0		67.0		61.0		63.0		67.0					
	Low	dBA	54.0		59.0	61.0	62.0		54.0		59.0	61.0	62.0					
Sound pressure level	High	dBA	61.0		64.0		67.0		61.0		64.0		67.0					
	Medium	dBA	56.0		58.0		62.0		56.0		58.0		62.0					
	Low	dBA	49.0		54.0	56.0	57.0		49.0		54.0	56.0	57.0					
Electric heater	Power input (Optional)		kW	2.0		6.0		9.0		2.0		6.0		9.0				
Piping connections	Drain	OD	mm	17														
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230														
Control systems	Wired remote control			FWEC3A / FWECSA / FWTOUCH / FWEC10														

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Concealed ceiling unit with high ESP

AC fan motor unit for horizontal or vertical concealed mounting

- › Quick fixing system for wall or ceiling mounted installation
- › Straight duct connector mounted to discharge side
- › The air filter can easily be removed for cleaning
- › Available static pressure up to 180Pa at maximum speed



More details and final information can be found by scanning or clicking the QR codes.



FWD-AT



FWD-AF

Indoor unit			FWD-AT/AF		04	06	08	10	12	16	18	04	06	08	10	12	16	18
			2-pipe								4-pipe							
Cooling capacity (standard conditions)	Total capacity	High	kW	3.65	5.71	7.33	8.25	11.86	15.92	17.74	3.62	5.60	7.20	8.10	11.66	15.84	17.66	
		Medium	kW	3.36	5.39	6.63	7.41	10.12	13.83	15.36	3.33	5.32	6.54	7.31	10.00	13.77	15.29	
		Low	kW	2.74	4.99	6.03	6.68	8.42	11.63	12.92	2.73	4.92	5.97	6.61	8.33	11.59	12.87	
	Sensible capacity	High	kW	2.83	4.16	6.04	6.58	9.22	12.21	13.49	2.80	4.08	5.94	6.46	9.06	12.14	13.41	
		Medium	kW	2.59	3.94	5.39	5.86	7.75	10.43	11.40	2.57	3.89	5.31	5.77	7.66	10.38	11.34	
		Low	kW	2.10	3.66	4.84	5.23	6.35	8.61	9.37	2.09	3.60	4.79	5.17	6.29	8.58	9.34	
Heating capacity (standard conditions)	High	kW	4.05	6.42	7.88	8.93	12.72	17.29	19.05	3.91	5.72	7.99	7.94	14.43	19.30	19.20		
	Medium	kW	3.69	6.03	7.11	8.04	10.84	15.05	16.40	3.68	5.51	7.47	7.44	12.63	17.17	17.03		
	Low	kW	3.04	5.59	6.47	7.28	9.06	12.68	13.73	3.23	5.25	7.02	6.99	10.86	14.88	14.79		
Power input	High	kW	0.265	0.460	0.505		0.750	1.300		0.265	0.460	0.505		0.750	1.300			
	Medium	kW	0.19	0.39	0.38		0.54	1.09		0.19	0.39	0.38		0.54	1.09			
	Low	kW	0.14	0.35	0.29		0.37	0.87		0.14	0.35	0.29		0.37	0.87			
Dimensions	Unit	HeightxWidthxLength	mm	559x754x280	559x964x280	559x1,170x280		718x1,170x353	718x1,380x353		559x754x280	559x964x280	559x1,170x280		718x1,170x353	718x1,380x353		
Weight	Unit		kg	32.5	40.6	47.3	48.7	65.3	77.0	79.5	34.7	43.2	50.3	51.7	70.9	83.4	85.9	
Air filter	Type	Acrylic fiber - Filtering class G2 (G4 on request)																
Fan	Type	Centrifugal																
	Quantity		1	2						1		2						
	Air flow rate	High	m³/h	802	1,241	1,609	1,584	2,380	3,206	3,175	794	1,212	1,573	1,550	2,328	3,186	3,155	
		Medium	m³/h	700	1,134	1,384	1,371	1,898	2,641	2,604	694	1,115	1,362	1,349	1,871	2,626	2,590	
Low		m³/h	534	1,021	1,208	1,200	1,485	2,092	2,073	532	1,004	1,194	1,186	1,466	2,084	2,065		
Total sound power level	High	dBA	66.0	69.0	72.0		74.0	78.0		66.0	69.0	72.0		74.0	78.0			
	Medium	dBA	61.0	63.0	67.0			73.0		61.0	64.0	67.0			73.0			
	Low	dBA	54.0	59.0	62.0		60.0	69.0		54.0	61.0	62.0		60.0	69.0			
Sound pressure level	High	dBA	61.0	64.0	67.0		69.0	73.0		61.0	64.0	67.0		69.0	73.0			
	Medium	dBA	56.0	58.0	62.0			68.0		56.0	59.0	62.0			68.0			
	Low	dBA	49.0	54.0	57.0		55.0	64.0		49.0	56.0	57.0		55.0	64.0			
Electric heater	Power input (Optional)	kW	2.0	6.0	9.0			12.0		2.0	6.0	9.0			12.0			
Piping connections	Drain	OD	mm	17														
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230															
Control systems	Wired remote control		FWEC1A / FWEC2A / FWEC3A / FWEC5A / FWTOUCH / FWEC2T / FWEC4T															

Wall mounted unit

AC fan motor unit for wall mounting

- › High aesthetic cabinet design
- › Optimum air distribution
- › Easy to install
- › Wireless remote control up to 9 m distance
- › 3-speed fan motor
- › Wide operating range
- › Low operating sound level thanks to tangential fan
- › Insulated with self-extinguishing class 1 heat insulation
- › Removable washable air filter (self-extinguishing class 1)



More details and final information can be found by scanning or clicking the QR codes.



Indoor unit			FWT-GT	02	03	04	05	06
Cooling capacity (standard conditions)	Total capacity	High	kW	2.40	2.67	2-pipe		5.21
		Medium	kW	2.20	2.23	2.79	4.02	4.32
		Low	kW	1.94	2.02	2.52	3.76	4.04
	Sensible capacity	High	kW	1.82	1.99	2.60	3.38	4.03
		Medium	kW	1.73	1.69	2.21	3.00	3.52
		Low	kW	1.50	1.49	1.91	2.77	3.22
Heating capacity (standard conditions)	High	kW	2.71	2.96	3.71	5.07	6.23	
	Medium	kW	2.41	2.62	3.29	4.51	5.38	
	Low	kW	2.06	2.25	2.75	4.03	4.83	
Power input	High	kW	0.031	0.032	0.042	0.053	0.072	
	Medium	kW	0.03		0.04	0.05	0.07	
	Low	kW	0.03			0.04	0.06	
FCEER				D		C	D	
FCCOP				C				
Dimensions	Unit	HeightxWidthxLength	mm	288x800x206			310x1,070x224	
Weight	Unit		kg	9.00			14.0	
Casing	Colour			White				
Air filter	Type			Washable Saranet				
Fan	Type			Cross flow fan				
	Quantity			1				
Air flow rate	High		m³/h	442	476	629	866	1,053
		Medium	m³/h	391	425	544	765	883
		Low	m³/h	340	374	442	663	782
Total sound power level	High		dBA	45.0	48.0	55.0		59.0
	Medium		dBA	41.0	44.0	50.0	51.0	54.0
	Low		dBA	36.0	39.0	45.0	47.0	51.0
Sound pressure level	High		dBA	34.0	35.0	42.0		46.0
	Medium		dBA	29.0	30.0	39.0	38.0	42.0
	Low		dBA	25.0		32.0	34.0	39.0
Piping connections	Drain	OD	mm	19				
Power supply	Phase/Frequency/Voltage		Hz/V	1N~/50/220-240				
Control systems	Infrared remote control			WRC-HPC				
	Wired remote control			MERCA / SRC-HPA				

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue



INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWH-AT/AF	FWI-AT/AF	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF	FWL-DAT/DAF
Panels	Decoration panel 600x600		BYFQ60B3	FPAN02A (2 up to 4 class)	FPAN02A (2 up to 4 class)				
	Decoration panel 900x900	BYCQ140C		FPAN06A (6 up to 8 class)	FPAN06A (6 up to 8 class)				
	Panel spacer for reducing required installation height	KDBQ44B60							
	Sealing member of air discharge outlet	KDBHQ55C140	KDBH44BA60						
	Spigot for fresh air			SPFA11A					
	Air distribution plenum			PPAI02A (2 up to 4 class) PPAI06A (6 up to 8 class)	PPAI02A (2 up to 4 class) PPAI06A (6 up to 8 class)				
	Rear panel				ERPVO2A6 (2 class) ERPVO3A6 (3 class) ERPVO6A6 (6 class) ERPVI0A6 (8 class)	ERPVO2A6 (1, 15 & 2 class) ERPVO3A6 (25 & 3 class) ERPVO6A6 (35, 4 & 6 class) ERPVI0A6 (8 & 10 class)	ERPVO2A6 (2 class) ERPVO3A6 (3 class) ERPVO6A6 (6 class) ERPVI0A6 (8 class)	ERPVO2A6 (1,15 & 2 class) ERPVO3A6 (25 & 3 class) ERPVO6A6 (35, 4 & 6 class) ERPVI0A6 (8 & 10 class)	
	Air intake & discharge grille				EAIDF02A6 (2 class) EAIDF03A6 (3 class) EAIDF06A6 (6 class) EAIDF10A6 (10 class)	EAIDF02A6 (1, 15 & 2 class) EAIDF03A6 (25 & 3 class) EAIDF06A6 (35, 4 & 6 class) EAIDF10A6 (8 & 10 class)	EAIDF02A6 (2 class) EAIDF03A6 (3 class) EAIDF06A6 (6 class) EAIDF10A6 (10 class)	EAIDF02A6 (1, 15 & 2 class) EAIDF03A6 (25 & 3 class) EAIDF06A6 (35, 4 & 6 class) EAIDF10A6 (8 & 10 class)	
Individual control systems & network	Wired remote controller (standard)	BRC315D	BRC315D				FWEC1A		FWEC1A
	Wired remote controller (advanced)						FWEC2A		FWEC2A
	Wired remote controller (advanced Plus)					FWEC3A	FWEC3A	FWEC3A	FWEC3A
	Simplified electronic controller (2 pipe)			FWEC2T	FWEC10	FWEC10	FWEC2T	FWEC10	FWEC2T
	Simplified electronic controller (4 pipe)			FWEC4T	FWEC10	FWEC10	FWEC4T	FWEC10	FWEC4T
	Wired remote controller (heat pump)								
	Wireless controller (heat pump)	BRC7F532F	BRC7F530						
	Controller electromechanical						ECFWMB6		ECFWMB6
	Split controller - power control board					FWECSAP	FWECSAP	FWECSAP	FWECSAP
	Split controller - control panel					FWECSAC	FWECSAC	FWECSAC	FWECSAC
	Split controller - touch screen control panel					FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)
	On-board mounting kit for wired remote controller					FWECKA	FWECKA	FWECKA	FWECKA
	On-board mounting kit for simplified controller					FWCKRX (right side) FWCKLX (left side)	FWCKRX (right side) FWCKLX (left side)	FWCKRX (right side) FWCKLX (left side)	FWCKRX (right side) FWCKLX (left side)
Wall-mounting kit for wired remote controller					FWFCKA	FWFCKA	FWFCKA	FWFCKA	
Centralised control systems	Central remote control	DCS302CA51	DCS302CA51						
	Unified ON/OFF control	DCS301BA51	DCS301BA51						
	Schedule timer	DST301BA51	DST301BA51						
Building Management System & Standard protocol interface	Intelligent Touch Manager	DCM601A5A	DCM601A5A						
	Intelligent Touch Controller	DCS601C51C	DCS601C51C						

1. Decoration panel code includes wireless controller

FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-CT/CF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT
EAIDF02A6 (2 class) EAIDF03A6 (3 class) EAIDF06A6 (6 class) EAIDF10A6 (10 class)	EAIDF02A6 (1, 15 & 2 class) EAIDF03A6 (25 & 3 class) EAIDF06A6 (35, 4 & 6 class) EAIDF10A6 (8 & 10 class)							
	FWEC1A	FWEC1A	FWEC1A		FWEC1A	FWEC1A		MERCA
	FWEC2A	FWEC2A	FWEC2A		FWEC2A	FWEC2A		
FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	
FWEC10	FWEC2T	FWEC2T	FWEC2T	FWEC10	FWEC2T	FWEC2T	FWEC10	
FWEC10	FWEC4T	FWEC4T	FWEC4T	FWEC10	FWEC4T	FWEC4T	FWEC10	
								SRC-HPA
								WRC-HPC
	ECFWMB6							
FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	
FWECSAC	FWECSAC	FWECSAC	FWECSAC	FWECSAC	FWECSAC	FWECSAC	FWECSAC	
FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	
FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	

INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWH-AT/AF	FWI-AT/AF	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF	FWL-DAT/DAF
ON/OFF valves 230V	3-ways 230V ON/OFF valve kit (2-pipe)	EKMV3C09B	EKMV3C09B	E2C3V02A (2 up to 4 class) E2C3V06A (6 up to 8 class)	E2C3V02A (2 up to 4 class) E2C3V06A (6 up to 8 class)	E2MV03A6 (2, 3 & 6 class) E2MV06A6 (4 & 6 class) E2MV10A6 (8 class)	E2MV03A6 (1 up to 35 class) E2MV06A6 (4 & 6 class) E2MV10A6 (8 & 10 class)	E2MV03A6 (2, 3 & 6 class) E2MV10A6 (8 class)	E2MV03A6 (1 up to 35 class) E2MV06A6 (4 & 6 class) E2MV10A6 (8 & 10 class)
	3-ways 230V ON/OFF valve kit (4-pipe)	EKMV3C09B x2	EKMV3C09B x2	E4C3V02A (2 up to 4 class) E4C3V06A (6 up to 8 class)	E4C3V02A (2 up to 4 class) E4C3V06A (6 up to 8 class)	E4MV03A6 (2, 3 & 6 class) E4MV10A6 (8 class)	E4MV03A6 (1 up to 35 class) E4MV06A6 (4 & 6 class) E4MV10A6 (8 & 10 class)	E4MV03A6 (2, 3 & 6 class) E4MV10A6 (8 class)	E4MV03A6 (1 up to 35 class) E4MV06A6 (4 & 6 class) E4MV10A6 (8 & 10 class)
	2-ways 230V ON/OFF valve kit (2-pipe)	EKMV2C09B	EKMV2C09B	E2C2V02A (2 up to 4 class) E2C2V06A (6 up to 8 class)	E2C2V02A (2 up to 4 class) E2C2V06A (6 up to 8 class)				
	2-ways 230V ON/OFF valve kit (4-pipe)	EKMV2C09B x2	EKMV2C09B x2	E4C2V02A (2 up to 4 class) E4C2V06A (6 up to 8 class)	E4C2V02A (2 up to 4 class) E4C2V06A (6 up to 8 class)				
	2-ways 230V ON/OFF valve kit (cooling heat exchanger)					E2MV2B07A6 (2, 3 & 6 class) E2MV2B10A6 (8 class)	E2MV2B07A6 (1 up to 6 class) E2MV2B10A6 (8 & 10 class)	E2MV2B07A6 (2 up to 6 class) E2MV2B10A6 (8 class)	E2MV2B07A6 (1 up to 6 class) E2MV2B10A6 (8 & 10 class)
	2-ways 230V ON/OFF valve kit (additional heat exchanger)					E2MV2B07A6	E2MV2B07A6	E2MV2B07A6	E2MV2B07A6
	3-ways 230V ON/OFF valve kit (additional heat exchanger)								
	Simplified 3-ways 230V ON/OFF valve kit (2-pipe)					E2MVD03A6 (2 & 3 class) E2MVD06A6 (6 class) E2MVD10A6 (8 class)	E2MVD03A6 (1 up to 35 class) E2MVD06A6 (4 & 6 class) E2MVD10A6 (8 & 10 class)	E2MVD03A6 (2 & 3 class) E2MVD06A6 (6 class) E2MVD10A6 (8 class)	E2MVD03A6 (1 up to 35 class) E2MVD06A6 (4 & 6 class) E2MVD10A6 (8 & 10 class)
ON/OFF valves 24V	Simplified 3-ways 230V ON/OFF valve kit (4-pipe)					E4MVD03A6 (2 & 3 class) E4MVD06A6 (6 class) E4MVD10A6 (8 class)	E4MVD03A6 (1 up to 35 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)	E4MVD03A6 (2 & 3 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)	E4MVD03A6 (1 up to 35 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)
	3-ways 24V ON/OFF valve kit (cooling heat exchanger)			E2C324V02A (2 up to 4 class) E2C324V06A (6 up to 8 class)	E2C324V02A (2 up to 4 class) E2C324V06A (6 up to 8 class)	E2M2V03A6 (2 & 3 class) E2M2V06A6 (6 class) E2M2V10A6 (8 class)	E2M2V03A6 (1 up to 35 class) E2M2V06A6 (4 & 6 class) E2M2V10A6 (8 & 10 class)	E2M2V03A6 (2 & 3 class) E2M2V06A6 (6 class) E2M2V10A6 (8 class)	E2M2V03A6 (1 up to 35 class) E2M2V06A6 (4 & 6 class) E2M2V10A6 (8 & 10 class)
	3-ways 24V ON/OFF valve kit (4-pipe)			E4C324V02A (2 up to 4 class) E4C324V06A (6 up to 8 class)	E4C324V02A (2 up to 4 class) E4C324V06A (6 up to 8 class)	E4M2V03A6 (2 & 3 class) E4M2V06A6 (6 class) E4M2V10A6 (8 class)	E4M2V03A6 (1 up to 35 class) E4M2V06A6 (4 & 6 class) E4M2V10A6 (8 & 10 class)	E4M2V03A6 (2 & 3 class) E4M2V06A6 (6 class) E4M2V10A6 (8 class)	E4M2V03A6 (1 up to 35 class) E4M2V06A6 (4 & 6 class) E4M2V10A6 (8 & 10 class)
	2-ways 24V ON/OFF valve kit (cooling heat exchanger)			E2C224V02A (2 up to 4 class) E2C224V06A (6 up to 8 class)	E2C224V02A (2 up to 4 class) E2C224V06A (6 up to 8 class)	E2M2V207A6 (2, 3 & 6 class) E2M2V210A6 (8 class)	E2M2V207A6 (1 up to 6 class) E2M2V210A6 (8 & 10 class)	E2M2V207A6 (2, 3 & 6 class) E2M2V210A6 (8 class)	E2M2V207A6 (1 up to 35 class) E2M2V210A6 (8 & 10 class)
	2-ways 24V ON/OFF valve kit (additional heat exchanger)			E4C224V02A (2 up to 4 class) E4C224V06A (6 up to 8 class)	E4C224V02A (2 up to 4 class) E4C224V06A (6 up to 8 class)	E2M2V207A6	E2M2V207A6	E2M2V207A6	E2M2V207A6
	2-ways 24V ON/OFF valve kit (4-pipe)								

FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-CT/CF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT
E2MV03A6 (2, 3 & 6 class) E2MV10A6 (8 class)	E2MV03A6 (1 up to 35 class) E2MV06A6 (4 & 6 class) E2MV10A6 (8 & 10 class)	E3V2VN02V3WA	EK2MV3B10C5	E4V2N05OV3WA (4 & 5 class) E4V2N08OV3WA (6 & 8 class) E2MV10B6 (10 up to 17 class)	E4V2N05OV3WA (4 & 5 class) E4V2N08OV3WA (6 & 8 class) E2MV10B6 (10 up to 17 class)	ED2MV04A6 (4 class) ED2MV10A6 (6, 8 & 10 class) ED2MV12A6 (12 class) ED2MV18A6 (16 & 18 class)	ED2MV04A6 (4 & 5 class) ED2MV10A6 (6 up 10 class)	
E4MV03A6 (2, 3 & 6 class) E4MV10A6 (8 class)	E4MV03A6 (1 up to 35 class) E4MV06A6 (4 & 6 class) E4MV10A6 (8 & 10 class)	E3V4VN02V3WA	EK4MV3B10C5	E4V2N05OV3WA + E4VHN08OV3WA (4 up to 5 class) E4V2N08OV3WA + E4VHN08OV3WA (6 up to 8 class) E2MV10B6 + E4VHN17OV3WA (10 up to 17 class)	E4V2N05OV3WA + E4VHN08OV3WA (4 up to 5 class) E4V2N08OV3WA + E4VHN08OV3WA (6 up to 8 class) E2MV10B6 + E4VHN17OV3WA (10 uo to 17 class)	ED4MV04A6 (4 class) ED4MV10A6 (6, 8 & 10 class) ED4MV12A6 x2 (12 class) ED4MV18A6 x2 (16 & 18 class)	ED4MV04A6 (4 & 5 class) ED4MV10A6 (6 up 10 class)	
		E2V2VN01V3WA	EK2MV2B10C5					
		E2V4VN01V3WA	EK4MV2B10C5	E2MV2B07A6 + E2MV2B07A6 (4 up to 8 class) E2MV2B10A6 + E2MV2B07A6 (10 up to 17 class)	E2MV2B07A6 + E2MV2B07A6 (4 up to 8 class) E2MV2B10A6 + E2MV2B07A6 (10 up to 17 class)			
E2MV2B07A6 (2 up to 6 class) E2MV2B10A6 (8 class)	E2MV2B07A6 (1 up to 6 class) E2MV2B10A6 (8 & 10 class)			E2MV2B07A6 (4 up to 8 class) E2MV2B10A6 (10 up to 17 class)	E2MV2B07A6 (4 up to 8 class) E2MV2B10A6 (10 up to 17 class)			
E2MV2B07A6	E2MV2B07A6			E2MV2B07A6	E2MV2B07A6			
				E4VHN08OV3WA (4 up to 8 class) E4VHN17OV3WA (10 up to 17 class)	E4VHN08OV3WA (4 up to 8 class) E4VHN17OV3WA (10 uo to 17 class)			
E2MVD03A6 (2 & 3 class) E2MVD06A6 (6 class) E2MVD10A6 (8 class)	E2MVD03A6 (1 up to 35 class) E2MVD06A6 (4 & 6 class) E2MVD10A6 (8 & 10 class)							
E4MVD03A6 (2 & 3 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)	E4MVD03A6 (1 up to 35 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)							
E2M2V03A6 (2 & 3 class) E2M2V06A6 (6 class) E2M2V10A6 (8 class)	E2M2V03A6 (1 up to 35 class) E2M2V06A6 (4 & 6 class) E2M2V10A6 (8 & 10 class)			E4V2N05O24WA (4 & 5 class) E4V2N08O24WA (6 & 8 class) E4V2N17O24WA (10 up to 17 class)	E4V2N05O24WA (4 & 5 class) E4V2N08O24WA (6 & 8 class) E4V2N17O24WA (10 up to 17 class)			
E4M2V03A6 (2 & 3 class) E4M2V06A6 (6 class) E4M2V10A6 (8 class)	E4M2V03A6 (1 up to 35 class) E4M2V06A6 (4 & 6 class) E4M2V10A6 (8 class)							
E2M2V207A6 (2, 3 & 6 class) E2M2V210A6 (8 class)	E2M2V207A6 (1 up to 35 class) E2M2V210A6 (8 & 10 class)			E2M2V207A6 (4 up to 8 class) E2M2V210A6 (10 up to 17 class)	E2M2V207A6 (4 up to 8 class) E2M2V210A6 (10 up to 17 class)			
E2M2V207A6	E2M2V207A6			E2M2V207A6	E2M2V207A6			
				E2M2V207A6 + E2M2V207A6 (4 up to 8 class) E2M2V210A6 + E2M2V207A6 (10 up to 17 class)	E2M2V207A6 + E2M2V207A6 (4 up to 8 class) E2M2V210A6 + E2M2V207A6 (10 up to 17 class)			

INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWH-AT/AF	FWI-AT/AF	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF	FWL-DAT/DAF
Proportional valves	3-ways proportional valve kit (2-pipe)			E2C3PV02A (2 up to 4 class) E2C3PV06A (6 up to 8 class)	E2C3PV02A (2 up to 4 class) E2C3PV06A (6 up to 8 class)	E2MPV03A6 (2 & 3 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 class)	E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)	E2MPV03A6 (2 & 3 class) E2MPV06A6 (6 class) E2MPV10A6 (8 class)	E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)
	3-ways proportional valve kit (additional heat exchanger)			E4C3PV02A (2 up to 4 class) E4C3PV06A (6 up to 8 class)	E4C3PV02A (2 up to 4 class) E4C3PV06A (6 up to 8 class)				
	3-ways proportional valve kit (4-pipe)					E4MPV03A6 (2 & 3 class) E4MPV06A6 (6 class) E4MPV10A6 (8 class)	E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)	E4MPV03A6 (2 & 3 class) E4MPV06A6 (6 class) E4MPV10A6 (8 class)	E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)
	2-ways proportional valve kit (cooling heat exchanger)			E2C2PV02A (2 up to 4 class) E2C2PV06A (6 up to 8 class)	E2C2PV02A (2 up to 4 class) E2C2PV06A (6 up to 8 class)	E2MPV207A6 (2, 3 & 6 class) E2MPV210A6 (8 class)	E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)	E2MPV207A6 (2, 3 & 6 class) E2MPV210A6 (8 class)	E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)
	2-ways proportional valve kit (additional heat exchanger)			E4C2PV02A (2 up to 4 class) E4C2PV06A (6 up to 8 class)	E4C2PV02A (2 up to 4 class) E4C2PV06A (6 up to 8 class)	E2MPV207A6	E2MPV207A6	E2MPV207A6	E2MPV207A6
	2-ways proportional valve kit (4-pipe)								
Pressure independent controlled valves	Pressure independent controlled valves ON-OFF 230V (2-pipe)			E2C2PICV02A (2 up to 4 class) E2C2PICV06A (6 up to 8 class)	E2C2PICV02A (2 up to 4 class) E2C2PICV06A (6 up to 8 class)				
	Pressure independent controlled valves ON-OFF 230V (4-pipe)			E4C2PICV02A (2 up to 4 class) E4C2PICV06A (6 up to 8 class)	E4C2PICV02A (2 up to 4 class) E4C2PICV06A (6 up to 8 class)				
	Pressure independent controlled valves modulating 24V (2-pipe)			E2C2PRPICV02A (2 up to 4 class) E2C2PRPICV06A (6 up to 8 class)	E2C2PRPICV02A (2 up to 4 class) E2C2PRPICV06A (6 up to 8 class)				
	Pressure independent controlled valves modulating 24V (4-pipe)			E4C2PRPICV02A (2 up to 4 class) E4C2PRPICV06A (6 up to 8 class)	E4C2PRPICV02A (2 up to 4 class) E4C2PRPICV06A (6 up to 8 class)				
Adapters	Installation box/ Mounting plate for adapter PCBs (when there is no space in the switchbox)	KRP1H98A	KRP1BB101						
	Wiring adapter for electrical appendices	KRP2A52 (2) KRP4AA53 (2)	KRP2A52 (2) KRP4AA53 (2)						
	Remote ON/OFF		EKROROA						
	Remote sensor	KRCS01-4	KRCS01-1						
	Optional PCB for MODBUS connection	EKFCMBCB	EKFCMBCB						
	Wiring adapter with 4 output signals for valve control PCB	EKR1C11	EKR1C11						
	Temperature sensor kit					FWTSKA	FWTSKA	FWTSKA	FWTSKA
	Relative humidity sensor kit					FWHSKA	FWHSKA	FWHSKA	FWHSKA
	Water temperature sensor for simplified controller			FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA
	Fan stop thermostat						YFSTA6		YFSTA6
	Master-slave interface						EPIMSA6		EPIMSA6
	Power interface								

FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-CT/CF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT
E2MPV03A6 (2 & 3 class) E2MPV06A6 (6 class) E2MPV10A6 (8 class)	E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)	E4V2PN04V3DA (3 up to 5 class) E4V2PN06V3DA (6 up to 8 class) E4V2PN10V3DA (10 & 11 class)		E4V2N05P24WA (4 & 5 class) E4V2N08P24WA (6 & 8 class) E2MPV10A6 (10 up to 17 class)	E4V2N05P24WA (4 & 5 class) E4V2N08P24WA (6 & 8 class) E2MPV10A6 (10 up to 17 class)			
				E4VHN08P24WA (4 up to 8 class) E4VHN17P24WA (10 up to 17 class)	E4VHN08P24WA (4 up to 8 class) E4VHN17P24WA (10 up to 17 class)			
E4MPV03A6 (2 & 3 class) E4MPV06A6 (6 class) E4MPV10A6 (8 class)	E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)	E4V4PN04V3DA (3 up to 5 class) E4V4PN06V3DA (6 up to 8 class) E4V4PN10V3DA (10 & 11 class)		E4V2N05P24WA + E4VHN08P24WA (4 & 5 class) E4V2N08P24WA + E4VHN08P24WA (6 & 8 class) E2MPV10A6 + E4VHN17P24WA (10 up to 17 class)	E4V2N05P24WA + E4VHN08P24WA (4 & 5 class) E4V2N08P24WA + E4VHN08P24WA (6 & 8 class) E2MPV10A6 + E4VHN17P24WA (10 up to 17 class)			
E2MPV207A6 (2, 3 & 6 class) E2MPV210A6 (8 class)	E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)			E2MPV207A6 (4 up to 8 class) E2MPV210A6 (10 up to 17 class)	E2MPV207A6 (4 up to 8 class) E2MPV210A6 (10 up to 17 class)			
E2MPV207A6	E2MPV207A6			E2MPV207A6	E2MPV207A6			
				E2MPV207A6 + E2MPV207A6 (4 up to 8 class) E2MPV210A6 + E2MPV207A6 (10 up to 17 class)	E2MPV207A6 + E2MPV207A6 (4 up to 8 class) E2MPV210A6 + E2MPV207A6 (10 up to 17 class)			
				FWBPVPIC2V15 (4 & 6 class) FWBPVPIC2V20 (8 & 10 class) FWBPVPIC2V25 (11 up to 17 class)	FWBPVPIC2V15 (4 & 6 class) FWBPVPIC2V20 (8 & 10 class) FWBPVPIC2V25 (11 up to 17 class)			
				FWBPVPIC2V1515LF (4 & 5 class) FWBPVPIC2V1515 (6 class) FWBPVPIC2V2015 (8 & 10 class) FWBPVPIC2V2515 (11 up to 17 class)	FWBPVPIC2V1515LF (4 & 5 class) FWBPVPIC2V1515 (6 class) FWBPVPIC2V2015 (8 & 10 class) FWBPVPIC2V2515 (11 up to 17 class)			
FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	
FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	
FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	FWCSWA	
	YFSTA6				YFSTA6	YFSTA6		
	EPIMSA6	EPIMSA6	EPIMSA6		EPIMSA6	EPIMSA6		
						EPIB6 (only 16 & 18 class)		

Others	INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWH-AT/AF	FWI-AT/AF	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF	FWL-DAT/DAF
	Fresh air intake kit (direct installation type)			KDDQ44XA60						
	Fresh air intake					EFA02A6 (2 class) EFA03A6 (3 class) EFA06A6 (6 class) EFA10A6 (8 class)	EFA02A6 (1, 15 & 2 class) EFA03A6 (25 & 3 class) EFA06A6 (35, 4 & 6 class) EFA10A6 (8 & 10 class)			
	Electrical box with earth terminal (2 blocks)		KJB212A	KJB212A						
	Electrical box with earth terminal (3 blocks)		KJB311A	KJB311A						
	Eletrical box with earth terminal		KJB411A	KJB411A						
	Electric heater (standard)					EEH02A6 (2 class) EEH03A6 (3 class) EEH06A6 (6 class) EEH10A6 (8 class)	EEH01A6 (1 class) EEH02A6 (15 & 2 class) EEH03A6 (25 & 3 class) EEH06A6 (35, 4 & 6 class) EEH10A6 (8 & 10 class)	EEH02A6 (2 class) EEH03A6 (3 class) EEH06A6 (6 class) EEH10A6 (8 class)	EEH01A6 (1 class) EEH02A6 (15 & 2 class) EEH03A6 (25 & 3 class) EEH06A6 (35, 4 & 6 class) EEH10A6 (8 & 10 class)	
	Electric heater (big)									
	Additional heat exchanger					ESRH02A6 (2 class) ESRH03A6 (3 class) ESRH06A6 (6 class) ESRH10A6 (8 class)	ESRH02A6 (1, 15 & 2 class) ESRH03A6 (25 & 3 class) ESRH06A6 (35, 4 & 6 class) ESRH10A6 (8 & 10 class)	ESRH02A6 (2 class) ESRH03A6 (3 class) ESRH06A6 (6 class) ESRH10A6 (8 class)	ESRH02A6 (1, 15 & 2 class) ESRH03A6 (25 & 3 class) ESRH06A6 (35, 4 & 6 class) ESRH10A6 (8 & 10 class)	
	Supporting feet					ESFV06A6 (2, 3 & 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)	ESFV06A6 (2, 3 and 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)	
	Supporting feet and grille					ESFVG02A6 (2 class) ESFVG03A6 (3 class) ESFVG06A6 (6 class) ESFVG10A6 (8 class)	ESFVG02A6 (1, 15 & 2 class) ESFVG03A6 (25 & 3 class) ESFVG06A6 (35, 4 & 6 class) ESFVG10A6 (8 & 10 class)			
	Plenum box with rectangular connections									
	Plenum box with circular connections									
	Plenum box (not insulated insulated) with circular connections (supply side)									
	Plenum box (insulated) with circular connections (supply side)									
	Plenum box (insulated) with circular connections (intake side)									
	Cover box for electric connections									
	G4 Filter									
	Vertical auxiliary drain pan					EDPVB6	EDPVB6	EDPVB6	EDPVB6	
	Horizontal auxiliary drain pan					EDPHB6	EDPHB6	EDPHB6	EDPHB6	
	Drain pump	included	included			CDRP1A	CDRP1A	CDRP1A (only vertical installation)	CDRP1A (only vertical installation)	
	Vertical installation kit (Wall Mounted)									

FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-CT/CF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT
						EDMFA04A6 (4 class) EDMFA06A6 (6 class) EDMFA10A6 (8 & 10 class) EDMFA12A6 (12 class) EDMFA18A6 (16 & 18 class)	EDMFA04A6 (4 & 5 class) EDMFA06A6 (6 & 7 class) EDMFA10A6 (8 & 10 class)	
EEH02A6 (2 class) EEH03A6 (3 class) EEH06A6 (6 class) EEH10A6 (8 class)	EEH01A6 (1 class) EEH02A6 (15 & 2 class) EEH03A6 (25 & 3 class) EEH06A6 (35, 4 & 6 class) EEH10A6 (8 & 10 class)			EH060V3A (4 & 5 class) EH100V36A (6 & 8 class) EH200V36A (10 up to 17 class)	EH060V3A (4 & 5 class) EH100V36A (6 & 8 class) EH200V36A (10 up to 17 class)	EDEH04A6 (4 class) EDEHS06B6 (6 class) EDEHS10B6 (8 & 10 class) EDEHS12B6 (12 class) EDEHS18B6 (16 & 18 class)	EDEH04A6 (4 & 5 class) EDEHS06B6 (6 & 7 class) EDEHS10B6 (8 & 10 class)	
						EDEH04A6 (4 class) EDEHB06A6 (6 class) EDEHB10A6 (8 & 10 class) EDEHB12A6 (12 class) EDEHB18A6 (16 & 18 class)	EDEH04A6 (4 & 5 class) EDEHB06A6 (6 & 7 class) EDEHB10A6 (8 & 10 class)	
ESRH02A6 (2 class) ESRH03A6 (3 class) ESRH06A6 (6 class) ESRH10A6 (8 class)	ESRH02A6 (1, 15 & 2 class) ESRH03A6 (25 & 3 class) ESRH06A6 (35, 4 & 6 class) ESRH10A6 (8 & 10 class)			EAHD04A (4 & 5 class) EAHD06A (6 & 8 class) EAHD10A (10 up to 17 class)	EAHD04A (4 & 5 class) EAHD06A (6 & 8 class) EAHD10A (10 up to 17 class)			
ESFV06A6 (2, 3 & 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)	ESFH01D5 (installation leg for vertical application)						
						PRD04A6 (4 class) PRD06A6 (6 class) PRD08A6 (8 & 10 class) PRD12A6 (12 class) PRD16A6 (16 & 18 class)	PRD04A6 (4 & 5 class) PRD06A6 (6 & 7 class) PRD08A6 (8 & 10 class)	
						PCIC04A6 (4 class) PCIC06A6 (6 class) PCIC08A6 (8 & 10 class) PCIC12A6 (12 class) PCIC16A6 (16 & 18 class)	PCIC04A6 (4 & 5 class) PCIC06A6 (6 & 7 class) PCIC08A6 (8 & 10 class)	
				PLT1NAA (4 & 5 class) PLT2NAA (6 & 8 class) PLT3NAA (10 up to 17 class)	PLT1NAA (4 & 5 class) PLT2NAA (6 & 8 class) PLT3NAA (10 up to 17 class)			
EPCC02A6 (2 class) EPCC03A6 (3 class) EPCC06A6 (6 class) EPCC10A6 (8 class)	EPCC02A6 (1,15 & 2 class) EPCC03A6 (25 & 3 class) EPCC06A6 (35, 4 & 6 class) EPCC10A6 (8 & 10 class)			PLT1CAA (4 & 5 class) PLT2CAA (6 & 8 class) PLT3CAA (10 up to 17 class)	PLT1CAA (4 & 5 class) PLT2CAA (6 & 8 class) PLT3CAA (10 up to 17 class)			
EICC02A6 (2 class) EICC03A6 (3 class) EICC06A6 (6 class) EICC10A6 (8 class)	EICC02A6 (1,15 & 2 class) EICC03A6 (25 & 3 class) EICC06A6 (35, 4 & 6 class) EICC10A6 (8 & 10 class)							
				FWBOX	FWBOX			
				FG4T1AA (4 & 5 class) FG4T2AA (6 & 8 class) FG4T3AA (10 up to 17 class)	FG4T1AA (4 & 5 class) FG4T2AA (6 & 8 class) FG4T3AA (10 up to 17 class)	FSDG404A (4 class) FSDG406A (6 class) FSDG408A (8 & 10 class) FSDG412A (12 class) FSDG416A (16 & 18 class)	FSDG404A (4 & 5 class) FSDG406A (6 & 7 class) FSDG408A (8 & 10 class)	
EDPVB6	EDPVB6	ESFD01D6				EDDPV10A6 (4, 6, 8, 10 class) EDDPV18A6 (12, 16 & 18 class)	EDDPV10A6	
EDPHB6	EDPHB6			EDPD7 (4 up to 8 class) EDPD9 (10 up to 17 class)	EDPD7 (4 up to 8 class) EDPD9 (10 up to 17 class)	EDDPH10A6 (4, 6, 8, 10 class) EDDPH18A6 (12, 16 & 18 class)	EDDPH10A6	
CDRP1A	CDRP1A			CDRP1A	CDRP1A	CDRP1A	CDRP1A	
		ESFH02D5						

Connect with Daikin



If you are a user or installer it is important you can **interact with our systems** in the easiest way, from **anywhere you are**. For any user our interfaces create **peace of mind** that their system is running in the best possible way.

Depending on the type of user and application Daikin develops controls and cloud services to ensure the best experience.

- › For home owners it means **app and voice control** of their home comfort.
- › For hotel owners it means easy and stylish **personal control for guests**, with an integration in hotel booking software for central control
- › For technical managers it means **cloud access** to all sites, with the possibility to benchmark, optimize performance
- › For installers it means **easy transfer of settings during commissioning**, remote retrieval of errors and preventive alerts to save time on maintenance or interventions

Our controls enable you to **connect with your customer**, save time, improve your comfort intelligently and reduce energy bills.

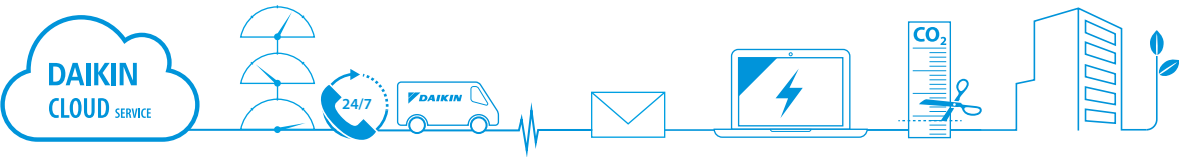


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Remote monitoring

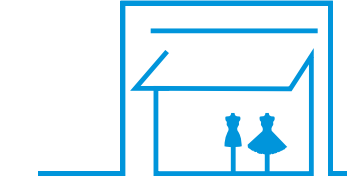


Control solutions summary

Daikin offers various control solution adapted to the requirements of even the most demanding commercial application.

- › Basic control solutions for those customers with few requirements and limited budget
- › Integrating control solutions for those customers that would like to integrate Daikin units into their existing BMS system
- › Advanced control solutions for those customers that expect Daikin to deliver a mini BMS solution, including advance energy management

Shop



	Unit control			Integrating control			Advanced control	
								
	BRP069*	BRC1H52W/S/K	RTD-20	RTD-Net	KLIC DI V2	EKMBDXA	DCC601A51	DCM601B51
	Smartphone control for up to 50 indoor units	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	Two additional probes can be connected	1 gateway for max. 64 indoor unit(s) & 10 outdoors	1 unit for 32 indoor unit(s) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	●	●	●	●
Limit control possibilities for shop staff	●	●	●	●	●	●	●	●
Create zones within the shop			●				●	●
Interlock with eg. Alarm, PIR sensor			●				● (limited)	●
Integration into smart home systems	● (7)							
Integrate Daikin units into existing BMS via Modbus				●		●		
Integrate Daikin units into existing BMS via KNX					●			
Integrate Daikin units into existing BMS via HTTP								●
Monitor energy consumption	● (4)	● (4)					● (2)	●
Advanced energy management							● (2)	● (6)
Allows free cooling								●
Voice control	● (6)							
Integrate Daikin products cross pillars into Daikin BMS								●
Integrate third party products into Daikin BMS							●	●
Online control	●						● (2)	● (3)
Manage multiple sites							● (2)	● (3)

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via Daikin cloud service (3) Through own IT set-up (not Daikin cloud sever) (4) Not available on all indoors (5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service (6) Only for BRP069C51, connection to Google Assistant and Amazon Alexa; (7) only for BRP069C51, contact your local sales representative for an overview of available services.

Hotel



	Unit control	Integrating control		Advanced control	
					
	BRC1H52W/S/K	RTD-HO	KLIC DI V2	DCM010A51	DCM601B51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	Two additional probes can be connected	1 interface for up to 2,500 indoor units	1 iTM for 64 indoor unit(s) (groups) (1)
Hotel guest can control & monitor basic functionalities from his room	●	●	● (3)		●
Limit control possibilities for hotel guests	●	●	●	●	●
Interlock with window contact	● (2)	●			●
Interlock with key-card	● (2)	●			●
Integrate Daikin units into existing BMS via Modbus		●			
Integrate Daikin units into existing BMS via KNX			●		
Integrate Daikin units into existing BMS via HTTP					●
Integrate Daikin unit control in hotel booking software				● Oracle Opera PMS	
Monitor energy consumption					●
Advanced energy management					●
Integrate Daikin products cross pillars into Daikin BMS					●
Integrate third party products into Daikin BMS					●
Online control					●

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via BRP7A51 adapter (3) requires KNX compatible controller

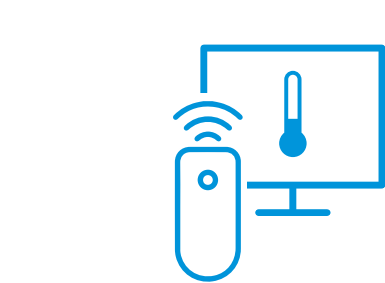
Office



	Unit control	Integrating control			Advanced control	
						
	BRC1H52W/S/K	EKMBDXB	DMS504B51	DMS502A51	DCC601A51	DCM601B51
	1 remote controller for 1 indoor unit (group)	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 gateway for 64 indoor unit(s) (groups)	1 gateway for 128 indoor unit(s) (groups), 20 outdoors (2)	1 unit for 32 indoor unit(s) (groups) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	●	●
Centralised control for management		●	●	●	●	●
Local control for office staff	●				● (4)	● through Web Remote management
Limit control possibilities for office staff	●	●	●	●	●	●
Integrate Daikin units into existing BMS via Modbus		●				
Integrate Daikin units into existing BMS via HTTP						●
Integrate Daikin units into existing BMS via LonTalk			●			
Integrate Daikin units into existing BMS via BACnet				●		
Energy consumption read out	● (3)					
Monitor energy consumption					● (4)	●
Advanced energy management					● (4)	●
PPD software to distribute used kWh/indoor unit				● (6)		● (7)
Integrate Daikin cross pillar products into Daikin BMS						●
Integrate third party products into Daikin BMS					●	●
Online control					● (4)	●
Manage multiple sites					● (4)	● (5)

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) extension (DAM411B51) needed to have up to 256 indoor unit(s) (groups), 40 outdoors (3) Not available on all indoor units (4) Via Daikin cloud service (5) Through own IT set-up (not Daikin cloud sever) (5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service (6) via DAM412B51 option (7) via DCM002A51 option

Infrastructure cooling



	Unit	Integrating	Advanced
			
	BRC1H52W/S/K	RTD-10	DCM601B51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●
Back-up operation	●	●	●
Duty rotation	●	●	●
Limit control possibilities in the technical cooling room	●	●	●
If room temperature above max., then show alarm & start standby unit.		●	●
If an error occurs, an alarm will be shown.	●	●	●
If an error occurs, activate an alarm output	Via KRP2/4A option (3)	●	Via WAGO I/O

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Infrastructure cooling functions only compatible with indoor units connected to RZQG*/RZAG* outdoor units. (3) See option list of indoor unit



Daikin mAP

Digital interface for your HVAC equipment



The Daikin mAP is the brand-new Digital HMI solution for all Daikin Applied products, designed to let end-users and technician operate easily and effectively from their smartphone or tablet while performing field activities.

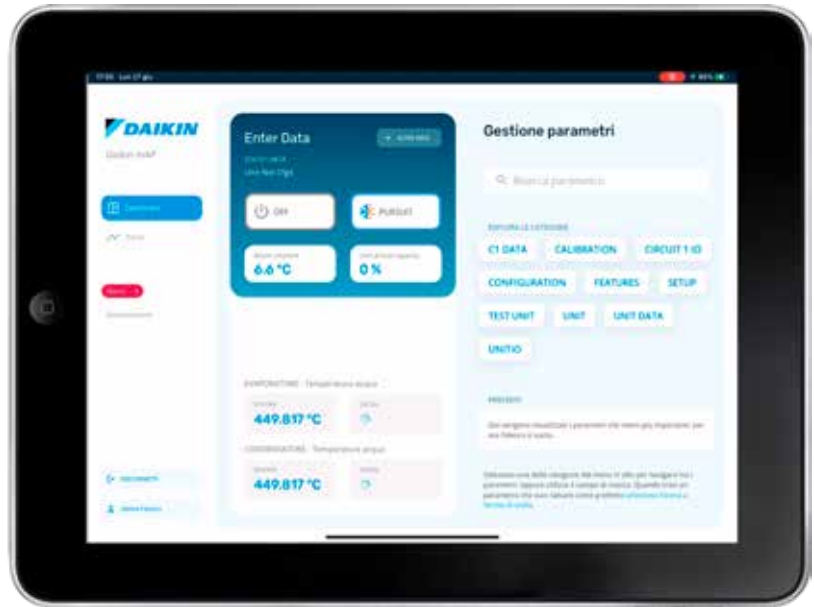


Daikin mAP

NEW

Digital Interface

The Daikin mAP is the brand-new Digital HMI solution for all Daikin Applied products, designed to let end-users and technician operate easily and effectively from their smartphone or tablet while performing field activities.



Control

Change settings and control parameters with more flexibility.

- ✓ Up to 4 user levels with different privileges
- ✓ Improved unit access security



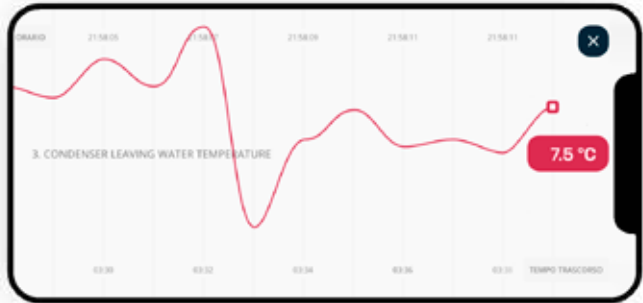
Select

Explore and search for a specific unit parameter.

- ✓ Search bar to easily find the desired parameter
- ✓ Select & change and pin in the dashboard your preferred parameters

Monitor

Start a live monitoring and trending of your preferred parameters



- ✓ Background monitoring for a non-stop operations
- ✓ Export and share monitoring data in .CSV file
- ✓ Up to 20 live trends and monitoring

DCC601A51

Intelligent ^{Tablet} Controller

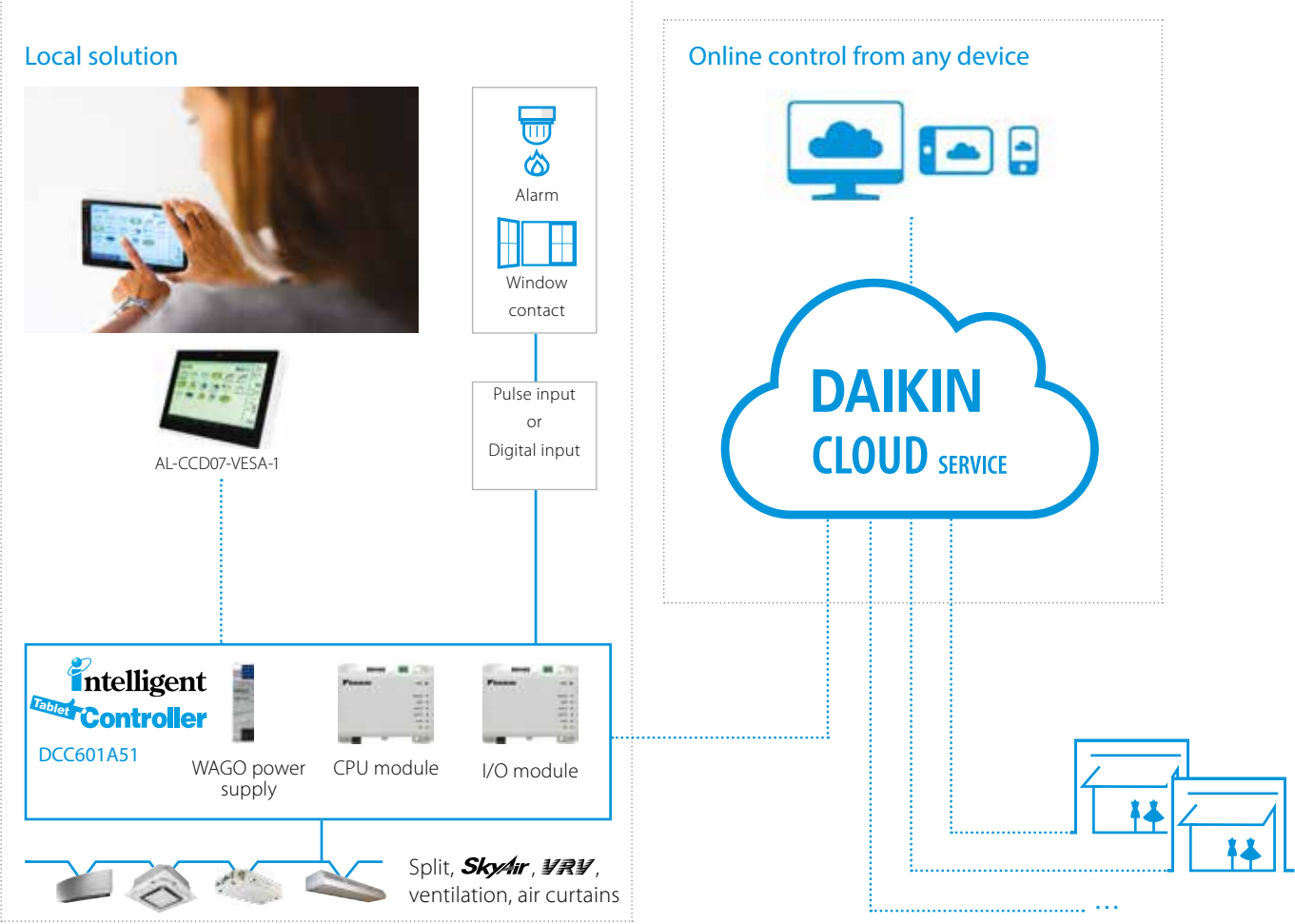
Advanced centralised controller with Cloud connection

2 solutions:

- Local solution**
- › Offline centralised control
 - › Stylish optional screen fits any interior

- Cloud solution**
- › Flexible online control from any device (Laptop, tablet...)
 - › Monitor & control one or multiple sites
 - › Benchmark the energy consumption of different installations (1)
 - › Energy consumption follow-up to comply with local regulations

System layout



(1) For VRV and Sky Air R-32 ranges the consumption data is integrated; for other (HVAC) systems, field supplied kWh meters will be required

Total solution

- › Total solution thanks to a large integration of Daikin products and 3rd party equipment
- › Connect a wide range of units (Split, Sky Air, VRV, Ventilation, Biddle air curtains)
- › Simply control your entire building centrally
- › Increased customer shopping experience by better management of your shop comfort level

Daikin Cloud Services

- › Control your building no matter where you are
- › Monitor and control multiple sites
- › Installer or technical manager can remotely login to the cloud for first troubleshooting
- › Benchmark the energy consumption of different installations (1)
- › Manage & track your energy use

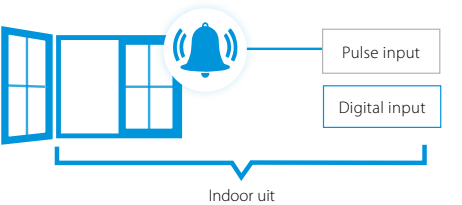
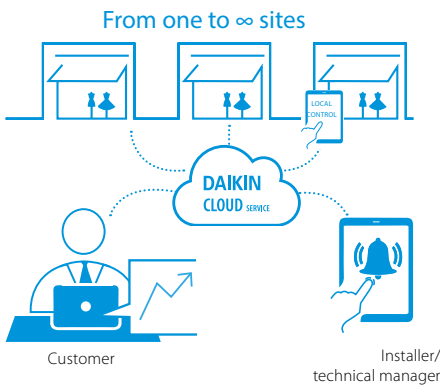
User friendly touch control

- › Stylish Daikin supplied optional screen for local control fits any interior
- › Intuitive and user-friendly interface
- › Full solution with simple control
- › Easy commissioning

Flexible

- › Pulse/digital inputs for 3rd party equipment such as kWh meters, emergency input, window contact, ...
- › Modular concept allows your cloud to grow with your business
- › Control up to 32 indoor units per controller and 320 units per site

(1) only available in combination with certain indoor units



Functions overview

	Local solution	Cloud solution
Languages	Depends on local device	EN, DE, FR, NL, ES, IT, EL, PT, RU, TR, DA, SV, NO, FI, CS, HR, HU, PL, RO, SL, BG, SK
System layout	N° of connectable indoor units	
	Multiple sites control	32
Monitoring & control	Basic control functions (ON/OFF, mode, filter sign, setpoint, fan speed, ventilation mode, room temperature, ...)	•
	Remote control prohibition	•
	All devices ON/OFF	•
	Zone control	•
	Group control	•
	Weekly schedule	•
	Yearly schedule	•
	Interlock control	•
	Set point limitation	•
	Visualisation of energy use per operation mode	•
Connectable to	DX split, Sky Air, VRV	•
	Modular L Smart, VAM, VKM ventilation	•
	Air curtains	•

For available Daikin Cloud Service options refer to the option list



Mini BMS

with full integration
across all product pillars

DCM601B51



- Price competitive mini BMS
- Cross-pillar integration of Daikin products
- Integration of third party equipment



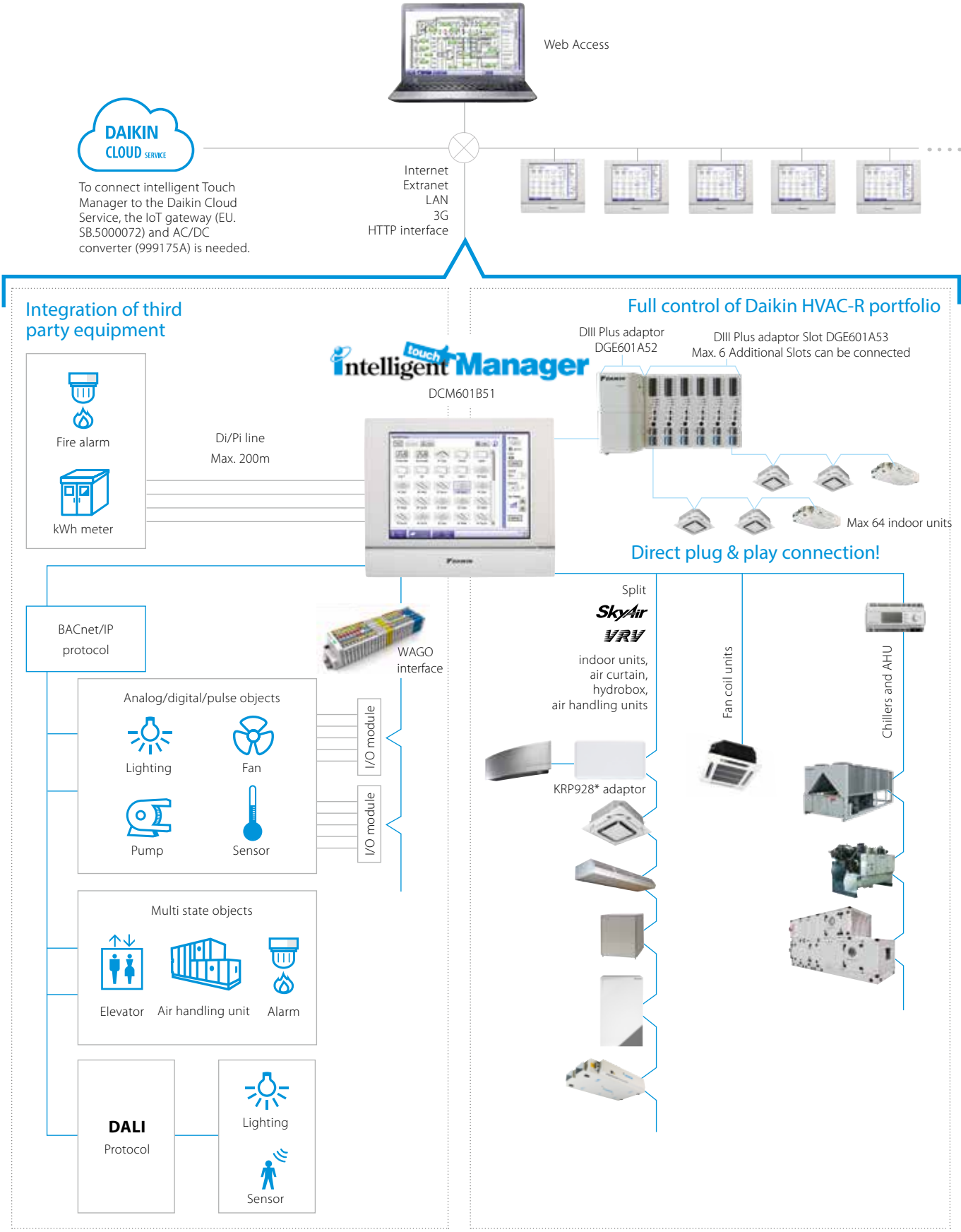
Download the WAGO selection tool from
my.daikin.eu

- › Easy selection of WAGO materials
- › Material list creation
- › Time saving
 - Includes wiring schemes
 - Contains commissioning/preset data for iTM



Check on
You Tube
<https://www.youtube.com/DaikinEurope>

System overview





User friendliness

- › Intuitive user interface
- › Visual lay out view and direct access to indoor unit main functions
- › All functions direct accessible via touch screen or via web interface
- › Simplified electrical wiring, only one power supply & one connection wiring required

Smart energy management

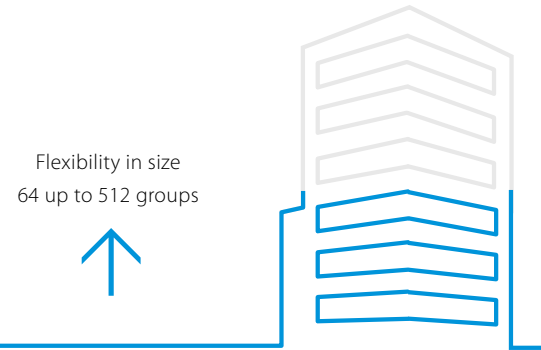
- › Monitoring if energy use is according to plan
- › Helps to detect origins of energy waste
- › Powerful schedules guarantee correct operation throughout the year
- › Save energy by interlocking A/C operation with other equipment such as heating
- › Peak Power Cut off Control: Activating this feature in schedule function allows users to operate the outdoor unit in 4 settings i.e. 100%,70%, 40% and 0%

Flexibility

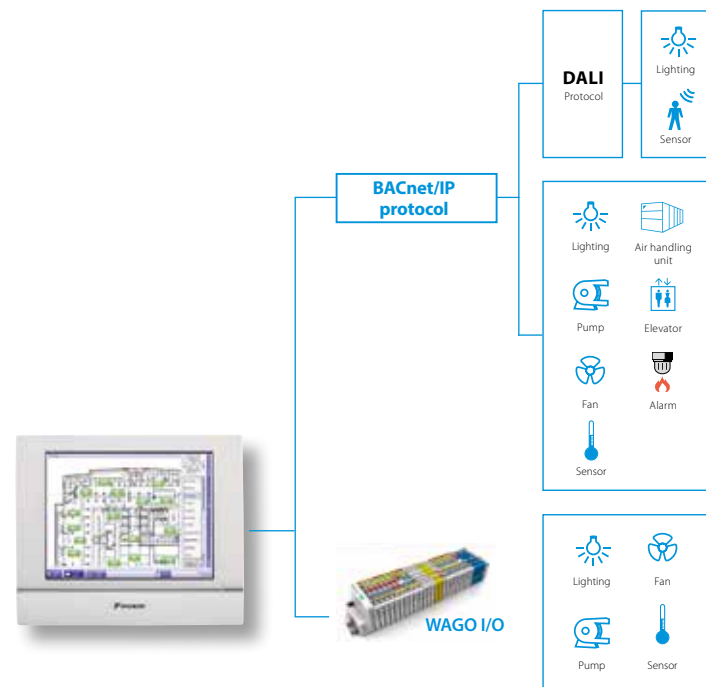
- › Cross-pillar integration (heating, air conditioning, applied systems, refrigeration, air handling units)
- › BACnet protocol for 3rd party products integration
- › I/O for integration of equipment such as lights, pumps... on WAGO modules
- › Modular concept for small to large applications
- › Control up to 512 indoor unit groups via one ITM and combine multiple ITM via web interface

Easy servicing and commissioning

- › Remote refrigerant containment check reducing on site visit
- › Simplified troubleshooting
- › Save time on commissioning thanks to the pre-commissioning tool
- › Auto registration of indoor units



Plug & play



Functions overview

Languages

- › English
- › French
- › German
- › Italian
- › Spanish
- › Dutch
- › Portuguese

Management

- › Web access via html 5
- › Power Proportional Distribution (option)
- › Operational history (malfunctions, ...)
- › Smart energy management
 - monitor if energy use is according to plan
 - detect origins of energy waste
- › Setback function
- › Sliding temperature

WAGO Interface

- › Modular integration of 3rd party equipment
- › Large variety of input and outputs available. For more details refer to the options list

Open http interface

- › Communication to any third party controller (domotics, BMS, etc.) is possible via http open interface (http option DCM007A51)

System layout

- › Up to 512 unit groups can be controlled (ITM + 7 ITM Plus adapters)

Control

- › Individual control (512 groups)
- › Schedule setting (Weekly schedule, yearly calendar, seasonal schedule)
- › Interlock control
- › Setpoint limitation
- › Temperature limit
- › Schedule function to activate quiet operation mode on outdoor unit

DALI integration

- › Control and monitor the lights
- › Easier facility management: receive error signal when light or light controller has a malfunction
- › Flexible approach and less wiring needed, compared to classic light scheme
- › Easier to make groups and control scenes
- › Connection between intelligent Touch Manager and DALI through WAGO BACnet / IP interface

Connectable to

- › DX Split, Sky Air, VRV
- › HRV
- › Chillers (via MT3-EKCMACIP controller)
- › Daikin AHU (via MT3-EKCMACIP controller)
- › Fan coils
- › LT and HT hydroboxes
- › Biddle Air curtains
- › WAGO I/O
- › BACnet/IP protocol
- › Daikin PMS interface (option DCM010A51)



Daikin Applied Control Solutions

Chiller Intelligent Manager

The intelligent Chiller Manager is a factory-engineered control solution to manage a chiller plant room. It is responsible for the **optimal sequencing and staging** of Chillers, Heat Pumps and Multipurpose units even in a **mixed plant configuration** and in both Heating and Cooling modes.

The extended control solution integrated the management of Cooling Towers and manifolded Pumps for air and water cooled chiller plant.

By reaching higher plant performance and efficiency levels, the intelligent Chiller Manager is the best and qualified solution for your HVAC equipment in a wide range of **Applications**.

Key Benefits

- > High performance
- > Lower energy & Maintenance Costs
- > Increase reliability & lifetime
- > Remote control and monitoring through Daikin on Site
- > **No additional installation required**



Daikin on Site

Daikin on Site is the unique solution for remote monitoring and smart maintenance. It allows a complete remote operation of every unit with different users and levels of access.

Daikin on site is fully compatible with All Daikin Applied Europe products and it can integrate **third-party products** like **IoT devices** (i.e. IAQ sensors).

Daikin has developed two offers called Daikin on Site: Partner and Daikin on Site: Premium.

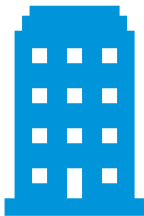
REMOTE MONITORING

REPORTING

ALARM TROUBLESHOOTING

ENERGY ANALYSIS

REFRIGERANT LEAKAGE DETECTION



Building management system Integration

With MT4 unit the communication protocols such as **Modbus** and **BACNet** are available directly from the controller and activated from Factory when ordered or through the after-sales channel.



Performance Monitoring

With MT4, advanced algorithms 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**.

Microtech® 4 Unit Controller

The new **Microtech® 4** (MT4) controller is **faster, smarter and connected**. With the hardware improvements introduced by the new controller on all air/water cooled chillers, **advanced logics and algorithms** development at unit level are possible. Communication protocols like **Modbus** and **BACNet** are also available without any additional hardware required because the MT4 controller supports them natively.



intelligent
SECONDARY CIRCUITS
Management

intelligent
COOLING TOWER
Management

intelligent
PUMP
Management



Factory-engineered system control to manage a chiller plant room

- Thus optimising its performance and increasing its reliability by:
- › Optimal start-up, sequencing & staging of chillers
 - › Matching chiller capacity to load demand

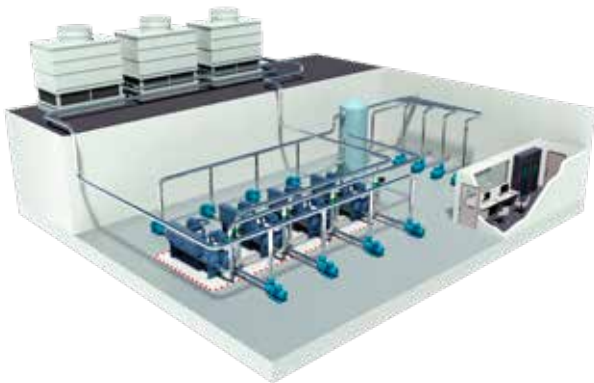
iCM's main functionalities:

Availability

- Determines whether chillers are available or not, based on:
- › Inputs from the chiller unit controllers
 - › Modbus communication status
 - › Pump status

Sequencing

Optimises the order in which available chillers are turned on and off depending on operating hours, energy efficiency, etc.



Staging

Calculates **energy-optimal stage-up/stage-down** of the chiller by determining the increased capacity demand by capacity control, compensation of temperature and rotation. This function aims at providing the most energy-efficient combination of chillers on a continuous basis.

Stopping Last Chiller/Recycling

Captures a rise in demand when the **last chiller is staged down**, by operating the pump dedicated to the next ON chiller at a minimum VFD frequency.

Min/Max Operating Chiller Setting

Ensures that the number of operating chillers always **stays within a certain range**, regardless of changes in demand.

Primary Pump control

Primary evaporator and condenser pump control for dedicated and manifolded pumps thanks to iPM panel

Secondary Pump Control

Control of up to 12 secondary circuits thanks to iSM panel extension

Cooling Tower Optimization

Control and Optimization of Cooling Tower systems thanks to iCT extension modules.

Remote Connection through Daikin on Site

24/7 monitoring and control of iCM plants through Daikin on Site cloud service.

Why choose iCM?

- › Optimise performance
- › Increase reliability
- › Reduce energy costs
- › Reduce maintenance costs
- › Factory-engineered and tested
- › Remote control and monitoring. From one-time commissioning to real-time commissioning

Remote control and monitoring possibilities

(valid for both Standard and Customised versions)

- › **Connectivity to Daikin's remote monitoring and control system (www.daikinonsite.com)** for remote monitoring and service providing Internet connection to the main controller
- › **Integration with general BAS/BMS** offered through BACnet or Modbus Modules based on BACnet/IP or Modbus RTU/RS-485 protocols
- › **Built-in HMI, Remote HMI, Web HMI and daikinonsite.com** are available for control and configuration

Integrated logics for Plant Management



Key Benefits

- › High performance
- › Lower energy & Maintenance Costs
- › Increase reliability & lifetime
- › Remote control and monitoring through Daikin on Site
- › **No additional installation required**



Control strategies

Advanced control strategies can be chosen to optimise units life time and the energy efficiency of a chillers plant:

- › by sequencing it is decided which unit must start or stop
- › by staging the unit shares the load based on a threshold specified by the user

Control options

iCM can manage:

- › Up to 16 units Heating/Cooling mode, with iCM expanded kit
- › Up to 8 units Heating/Cooling mode
- › Special control options such as: VPF, Demand Limit, Rapid Restart are managed by iCM in a multiple unit system
- › Heat recovery option management
- › Free cooling option management
- › Manifolded pumps management (evaporator/condenser) – iPM control panel is required
- › Cooling tower system management – iCT control panel is required
- › Secondary circuits management - iSM control panel is required

What are the main differences between Master/Slave and iCM?

For Daikin unit equipped with MT4, iCM are set of functions embedded directly in the unit controller. In addition for those applications not covered by the embedded functions, iCM customized are also available.

While Master/Slave can manage systems composed by units model of the same type, iCM can manage cooling, heating and plants made of different kind of units

Feature	Master/Slave	New iCM
Number of chillers	UP TO 4	UP TO 16
Plants with All Chillers	same models	YES
Plants with all Heat Pumps	same models	YES
Plants with Multipurpose	YES	YES
Mix of Chillers (max 2 circuits) + Multipurpose	NO	YES
Mix of Chillers + Heat Pumps	NO	YES
Chillers with Heat Recovery	NO	YES
Chillers with free cooling	NO	YES
Units with modulable capacity control	YES	YES
Units with step capacity control	YES	YES

Product line-up



iCM as unit option 184 (up to 16 with iCM expanded kit):

- › Up to 8 daikin chillers
- › Mixed systems (Chiller + heat pumps or chillers + multipurpose)
- › Heating/cooling operating modes
- › Heat recovery and Free cooling management
- › Units with modulable and step capacity control

Intelligent Pump Manager:

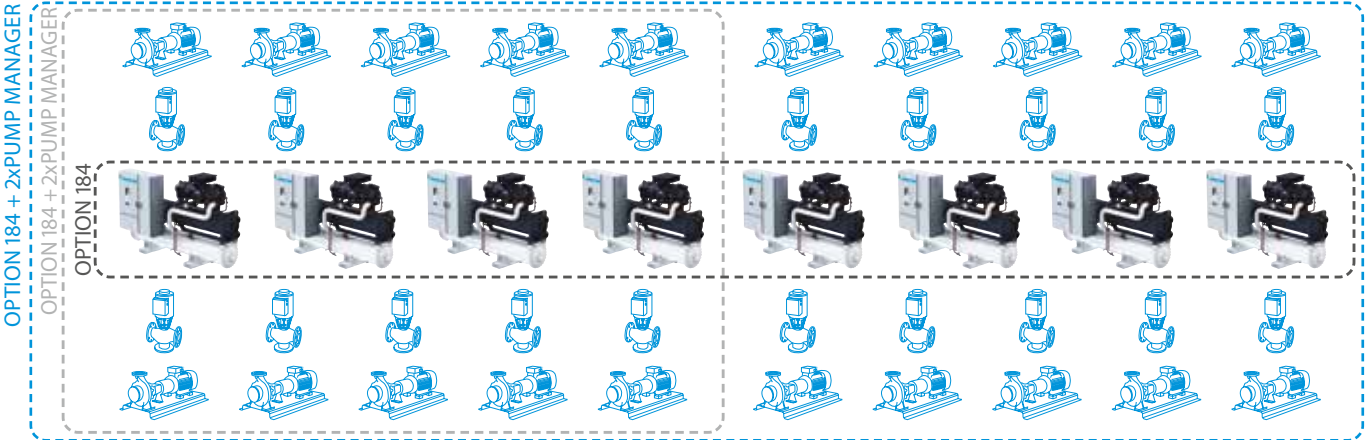
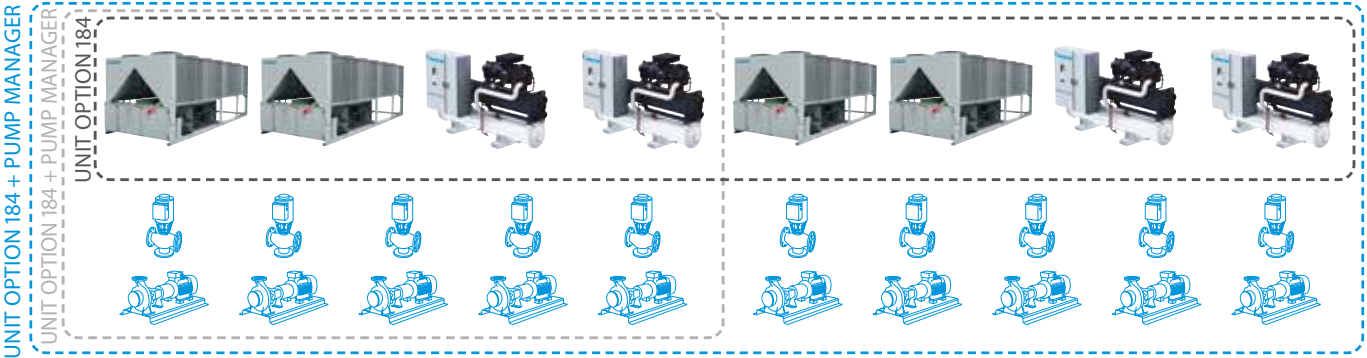
- › Up to 5 dedicated or manifolded pumps (evaporator or condenser)
- › Up to 10 dedicated or manifolded pumps (evaporator or condenser)

Intelligent Cooling Tower Manager:

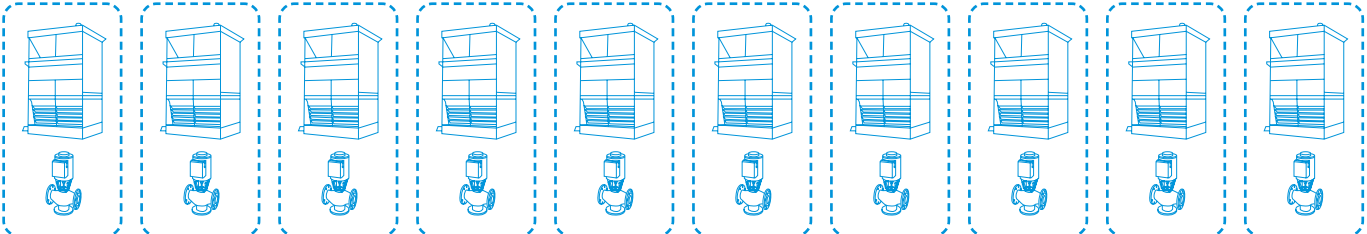
- › Up to 10 manifolded cooling towers (available with Pump Manager at the condenser side)
- ›

intelligent Secondary Circuits Manager:

- › Up to 8 pumps divided in up to 4 pump groups (up to 3 ism can be connected for a total of 12 pump groups and 24 secondary pumps)



Up to 10 COOLING TOWER MANAGER (only available with PUMP MANAGER at the condenser side)



Up to 3 INTELLIGENT SECONDARY MANAGER (each ism can control up to 4 pump groups and up to 8 pumps)



EKMBOXB

DIII-net Modbus interface

Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

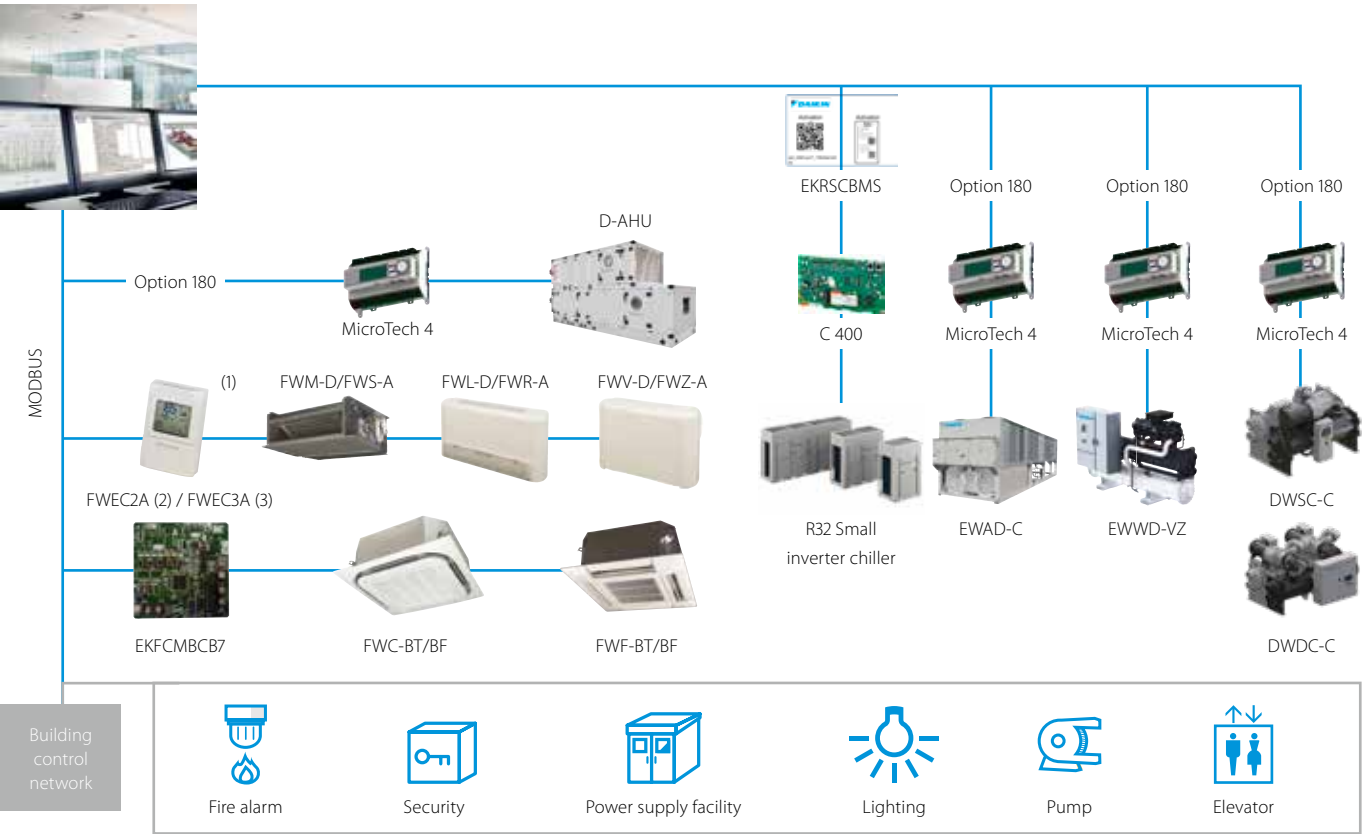
- › Communication via Modbus RS485 protocol
- › Detailed monitoring and control of the VRV total solution
- › Easy and fast installation via DIII-net protocol
- › As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor units systems).



			EKMBOXB7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9,600 bps or 19,200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation	Indoor installation		
Power supply	Frequency	Hz	50
	Voltage	V	220-240

Modbus interface

Integrate chillers, fan coil units and air handling units in BMS systems via modbus protocol



(1) The communication module is integrated in the controller (2) Connection to FWV-D, FWL-D & FWM-D (3) Connection to FWV-D, FWL-D, FWM-D and to FWZ-A, FWR-A, FWS-A

Integrate Refrigeration units in BMS systems via modbus protocol

BRR9A1V1



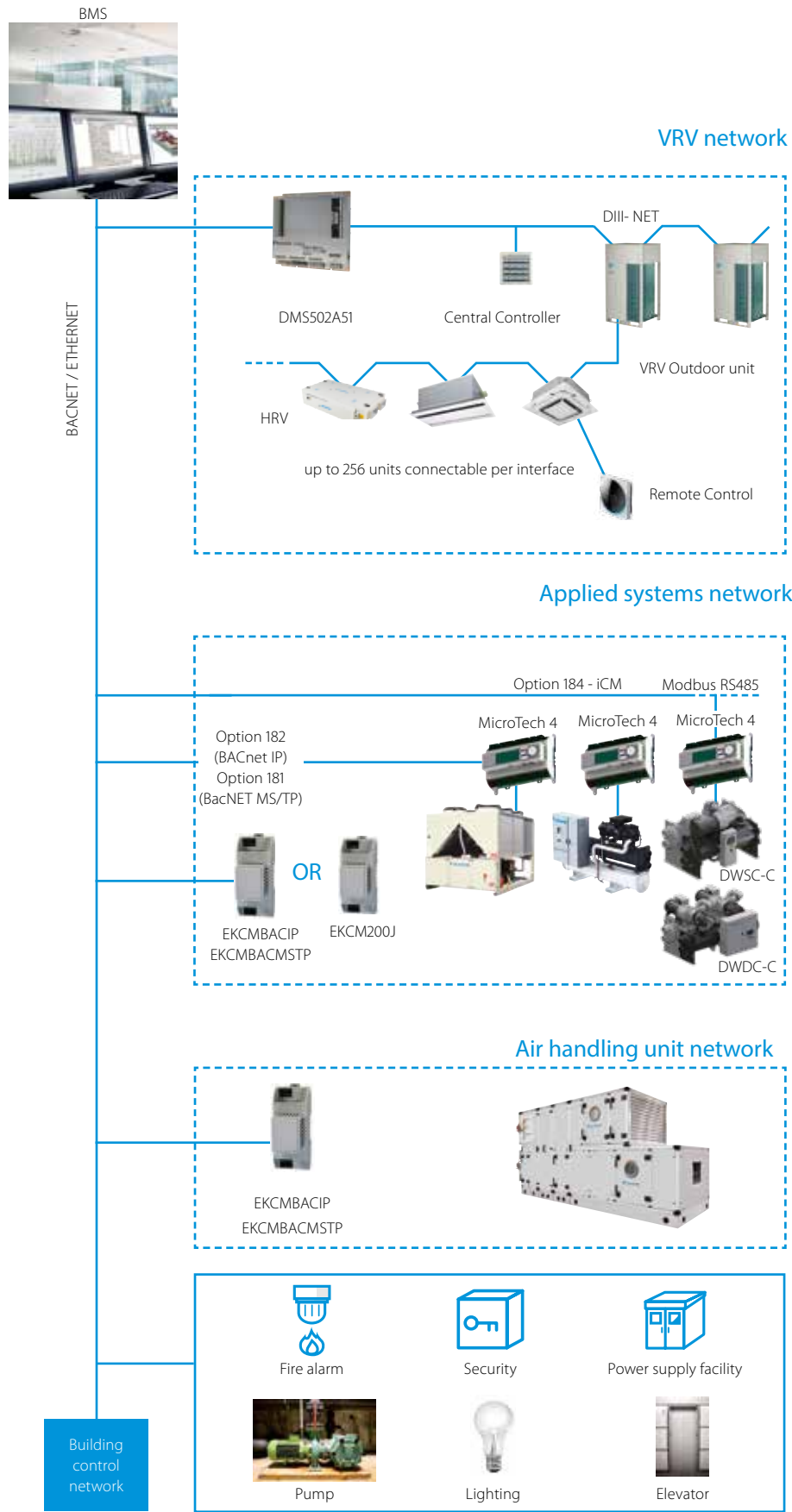
* For all connectable indoor units and Biddle air curtains please refer to the Conveni-pack pages in this catalogue

DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP

BACnet Interface

Integrated control system for seamless connection between VRV, applied systems, air handling units and BMS systems

- › Interface for BMS system
- › Communication via BACnet protocol (connection via Ethernet)
- › Unlimited site size
- › Easy and fast installation
- › PPD data is available on BMS system (only for VRV)

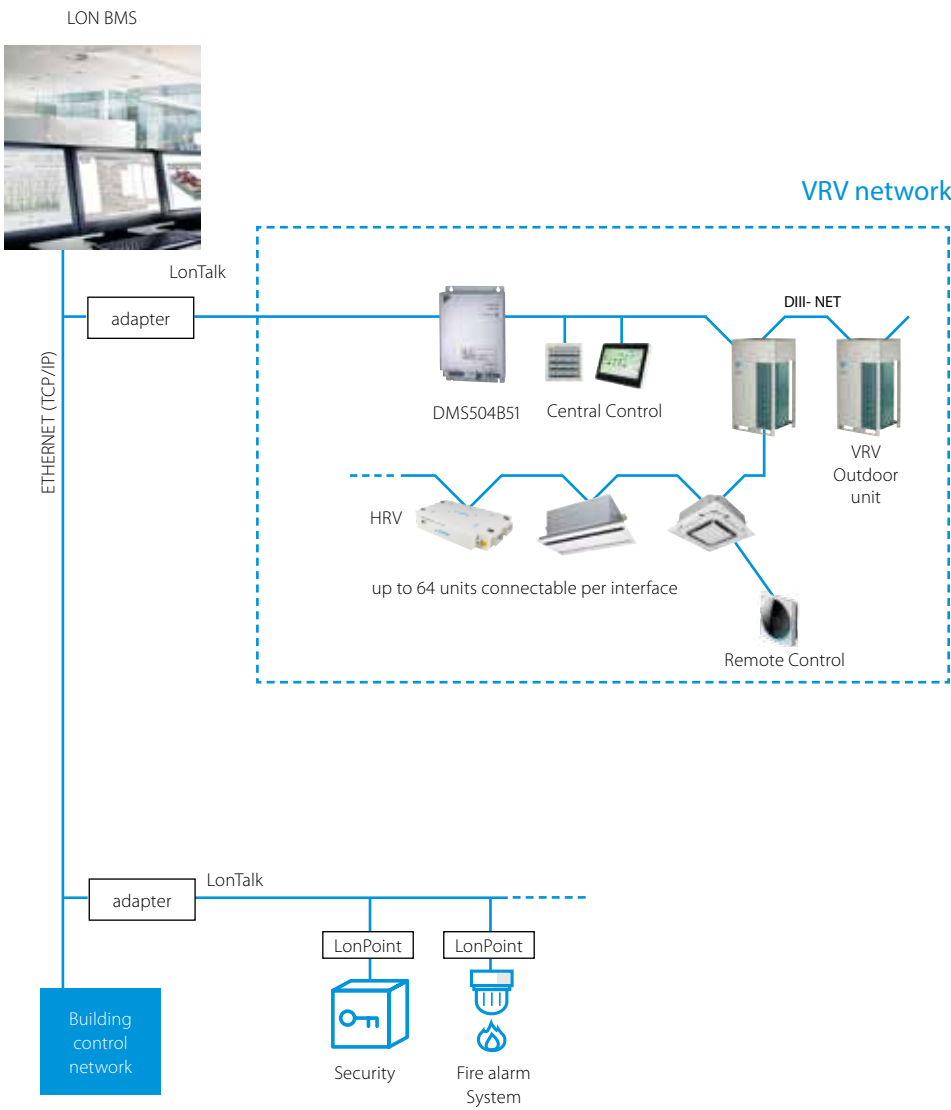


DMS504B51

LonWorks Interface

Open network integration of VRV monitoring and control functions into LonWorks networks

- › Interface for Lon connection to LonWorks networks
- › Communication via Lon protocol (twisted pair wire)
- › Unlimited sitesize
- › Quick and easy installation



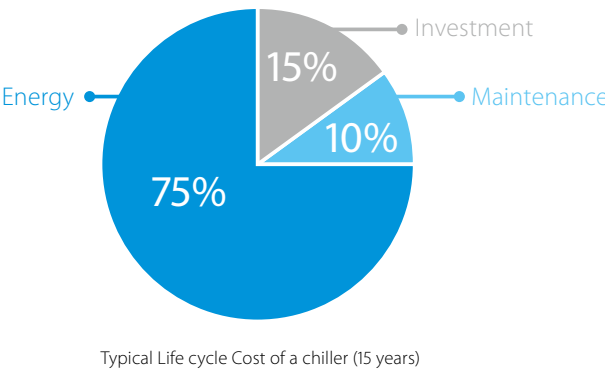
Daikin on Site

Why Daikin on Site?

Operating costs like energy and maintenance typically account for 85% of the system's total lifetime cost. Undiscovered energy waste and incorrect operation will increase costs and can even lead to unscheduled interruptions.

Using Daikin on Site monitoring 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
- › Controls your IEQ by connecting our sensor



What is Daikin on Site?

A solution for customer specific needs

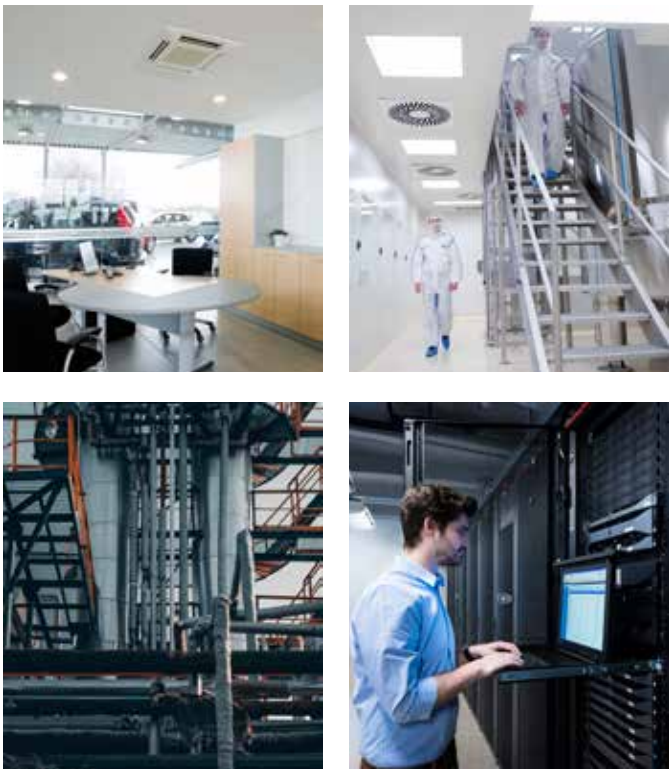
The Daikin on Site cloud server collects operational data from the control system of a Daikin chiller or air handling unit plant. Daikin's Smartcentre then turns this data into useful information on a web user interface. Daikin on Site has predefined user roles like:

- › operator
- › service provider
- › Daikin specialists

The Daikin on Site platform's features are designed to:

- › Increase uptime, reduce unscheduled interruptions
- › Optimise efficiency and reduce energy waste
- › Increase lifetime and avoid wear by misuse
- › Give insight into the optimum use of equipment, including advice from a Daikin expert

We will combine Daikin on Site remote monitoring with the complementary service programme best suited to your needs.



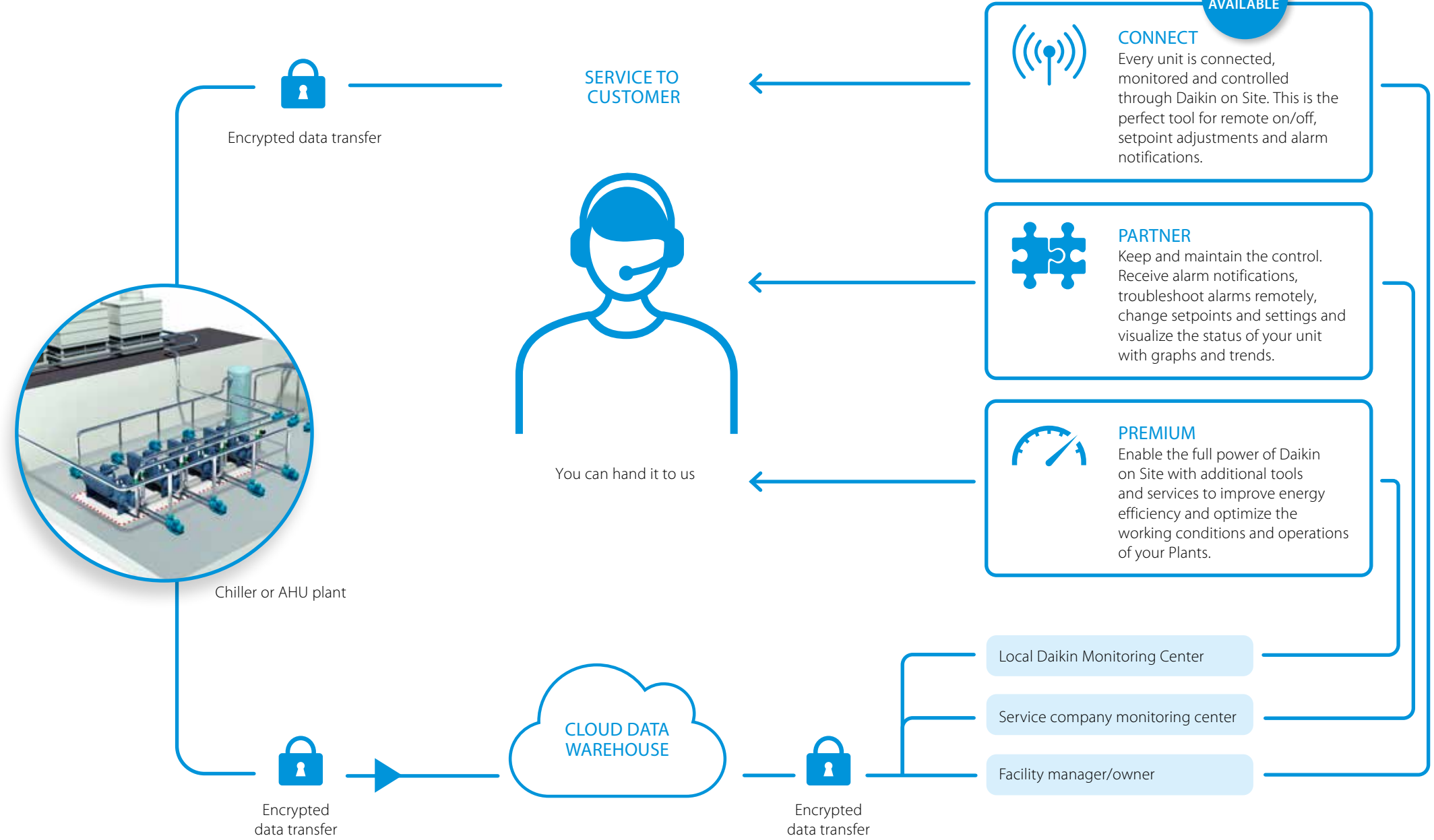
The remote monitoring for Daikin products

Let's enter in Daikin connected HVAC with Daikin on Site cloud solution. An enriched offer meeting every needs. From a basic control up to a full and advanced monitoring of your HVAC equipment directly from your desk. A wide variety of HVAC application can benefit from Daikin on Site and its connected services.

With Daikin on Site, your HVAC equipment will reach high reliability and efficiency levels. No more stops and long waiting time for Alarm troubleshooting. Thanks to a continuous monitoring and advanced tools, Daikin on Site helps to improve the overall system lifetime. A Daikin expert is ready to help and keep monitored your plant, suggesting actions and system improvements.

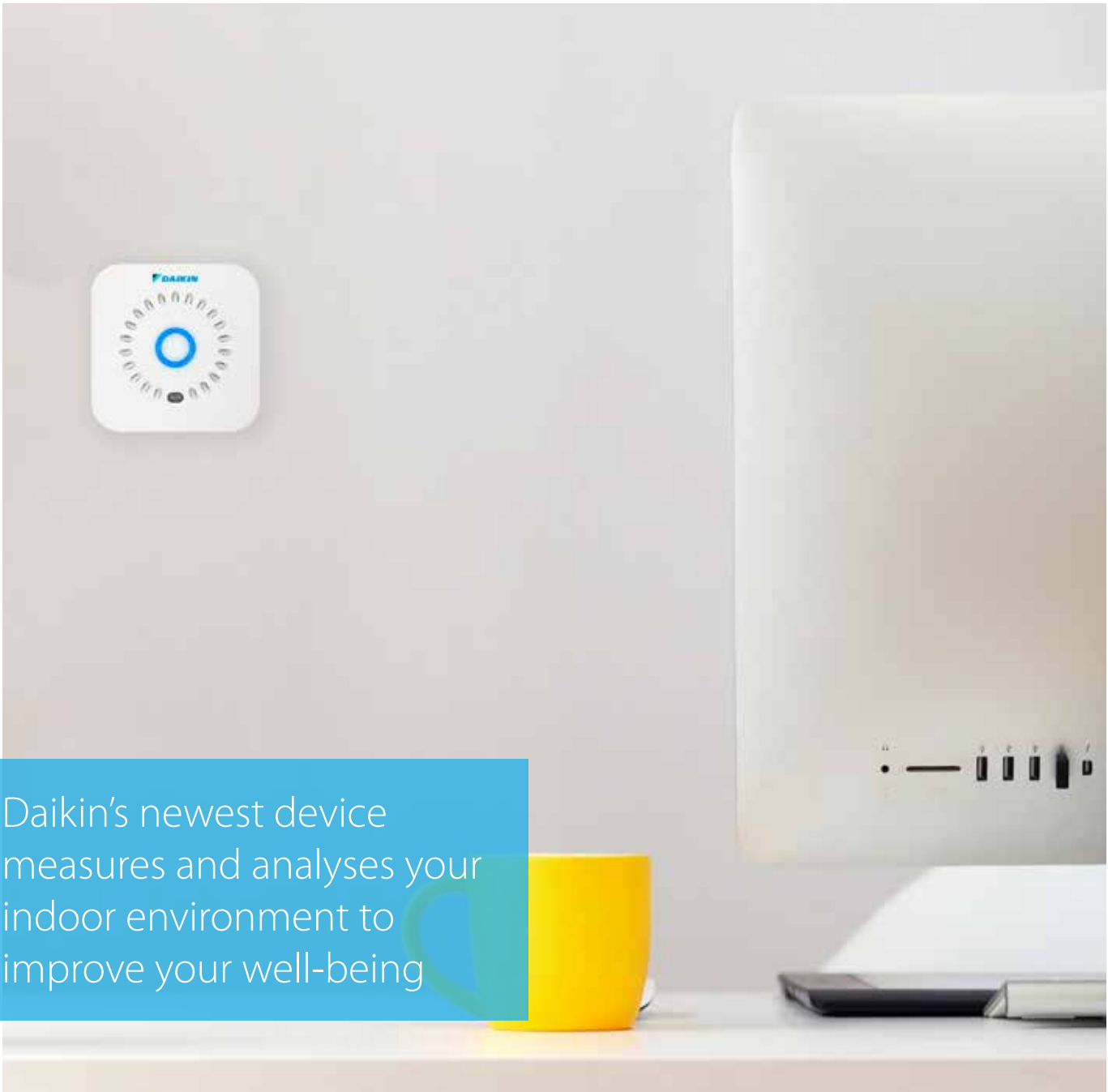
Daikin on Site is the best solution to improve your HVAC efficiency.

SOON AVAILABLE



IEQ Sensor

Our New Indoor Environmental Quality Sensor



Daikin's newest device measures and analyses your indoor environment to improve your well-being



Why Indoor Air Quality Matters

☒ Indoor Air Quality

☒ Indoor Air Quality components

Indoor Air Quality (IAQ) refers to the quality of the air in indoor environments, which affects building's occupants during their everyday lives. When designing HVAC systems for residential buildings, schools, offices, or light commercial buildings, many things must be considered. While it is important to meet the cooling and heating demand, we should also consider aspects such as ventilation, air filtration, and indoor air quality.

Did you know that breathing indoor air, whether it is at home, at the office, or in a hotel room, can be much more polluted than outdoor air? Remember that 90% of our life is spent indoors, and indoor air quality can be 2 to 5 times worse than outdoor air.

Indoor Environment Quality (IEQ) is broader than IAQ, and includes lighting, noise, and electromagnetic fields.

- 1. Ventilation**
Ensures the provision of fresh and clean air
- 2. Energy recovery**
Delivers energy savings by transferring heat and moisture between airflows
- 3. Air processing**
Ensures clean and healthy air by filtering out pollen, dust, and odours that are harmful to our health
- 4. Humidification**
Ensures the desired moisture level in the conditioned space

☒ Ventilation

☒ Monitoring Indoor Air Quality

Ventilation systems ensure optimal climate conditions by providing a fresh, healthy, and comfortable environment for buildings of all sizes, as well as for different applications.

In a completely closed room, air cannot easily enter or leave, causing air pollutants to accumulate which could affect the health of the people who use the room. Ventilation is essential for diluting and removing these air pollutants.

A well-maintained ventilation system with an adequate air-exchange rate have been demonstrated to be an effective solution to protect people from contaminants, including viruses.

Nowadays, most things that surround us can be monitored and tracked, even Indoor Air Quality (IAQ). Monitoring and tracking IAQ values can help us to understand how our surrounding environment affects our well-being, and then take action to improve the quality of the environment in which we live, whether this is our homes, the office, a restaurant, schools, or shops.

Features

The Daikin IEQ Sensor measures your well-being by tracking indoor air quality values, environmental comfort, and electromagnetic pollution. It is available with 12 sensors and 15 parameter measures, and connects through your Wi-Fi network or via NB-IoT technology.

✔ Complete Standalone Installation

The Daikin IEQ Sensor does not have to be paired with another product, for an extremely easy and completely standalone installation that takes about a minute. The device can be powered up with microUSB power supply (included). The material code is AIRSENSEPROPLUS.

✔ Caelum Monitoring Platform

The device connects to Caelum, Daikin’s monitoring platform, at www.daikiniaq.com. This enables you to easily monitor Indoor Air Quality levels and create regular reports based on the data detected by the sensor. You can even use the platform to show your indoor air quality levels to your visitors.

✔ Mobile App

The configuration app is available as Daikin AirSense on both the App Store and Play Store. Once installed on your mobile device and logged in, scan the QR code on the IEQ sensor and the app will guide you through the entire configuration process. Once your sensor is configured, you will have access to the entire set of functions from your mobile.

✔ Connectivity

The IEQ sensor ensures perfect integration with Daikin on Site and Daikin Cloud Service, Daikin’s remote monitoring and smart maintenance platform. It gives you perfect control over the entire heating, ventilation and air conditioning system installed in your building. You can use interlock function between IAQ sensor and AHUs.

✔ Available ReFilter tools

Product Hierarchy
› Material – Product hierarchy: Accessory
› Material name: AIRSENSEPROPLUS
› Business Pillar: SERVICES

✔ Green Building Certification

Installing the Daikin IEQ sensor can help you achieve better sustainability ratings and green building projects certified with LEED and WELL certification thanks to Indoor Environmental Quality credits.

✔ Video wall

The video wall is a great tool to have a general overview of the measurements conducted by the device. This screen can be shared with the occupants of the buildings to show in each moment the Indoor Air Quality status.

✔ Communication capability

NB-IoT: This technology can reach devices in areas where reception is poor or difficult to reach. Complete standalone installation. This is a perfect solution for service purposes where access to local Wi-Fi is not allowed or not available.

Wi-Fi: Easy and complete standalone installation.

✔ Sensor characteristics

Fine Dust (PM10/PM2.5)

Range: 0 to 1,000 µg/m3
Precision: (from 0 µg/m3 to 100 µg/m3): ±15 µg/m3
Precision: (from 100 µg/m3 to 1,000 µg/m3): ±15%
Resolution: 1 µg/m3

Temperature

Range: -40 °C a 85 °C
Precision: ±1 °C (between 0 °C and 65 °C)
Resolution: 0.1 °C

Humidity

Range: 0 to 100% RH
Precision: ±3% RH
Resolution: 0.1% RH

Ambient Light

Range: 0 lux to 120,000 lux
Precision: ±10%
Resolution: 0.1 lux

Air Pressure hPa

Range: 300 to 1,100 mbar (hPa)
Precision: 0.1 mbar (hPa)
Resolution: 0.1 mbar (hPa)

Electrosmog

LF Range: 0 - 20.000 nT - Range: 5 Hz - 120 Hz
Precision: ±5% - Resolution: 25nT
HF Range: 0 to -10 V/m - Range: 50 MHz - 300 GHz
Precision: ±10% - Resolution: 0.1 V/m
Measurements performed on 3 axes

CO₂

Range: 0 to 5,000 ppm
Precision: ±30 ppm (between 0 and 1,000 ppm)
±3% (over 1,000 ppm)
Resolution: 1 ppm

TVOC

Range: 0 ppb to 1,187 ppb
Resolution: 1 ppb
Precision: ±10%

Air quality

Range: 0 to 500
Precision: ±15%
Resolution: 0.1

Sound Pressure

Range: 28 to 120 dBspl
Frequency: from 50 Hz to 20 KHz
Precision: ±1 dBspl
Resolution: 0.1 dBspl

CO₂e

Range: 400 to 6,000 ppm
Precision: 20%
Resolution: 1 ppm

Wi-Fi networks & signal intensity (2.4GHz band)/(PM10-PM2.5)

Detects Access Point n° in band 2.4Ghz and overall signal level (from 0 to -100 dBm)

Daikin IEQ Sensor kit

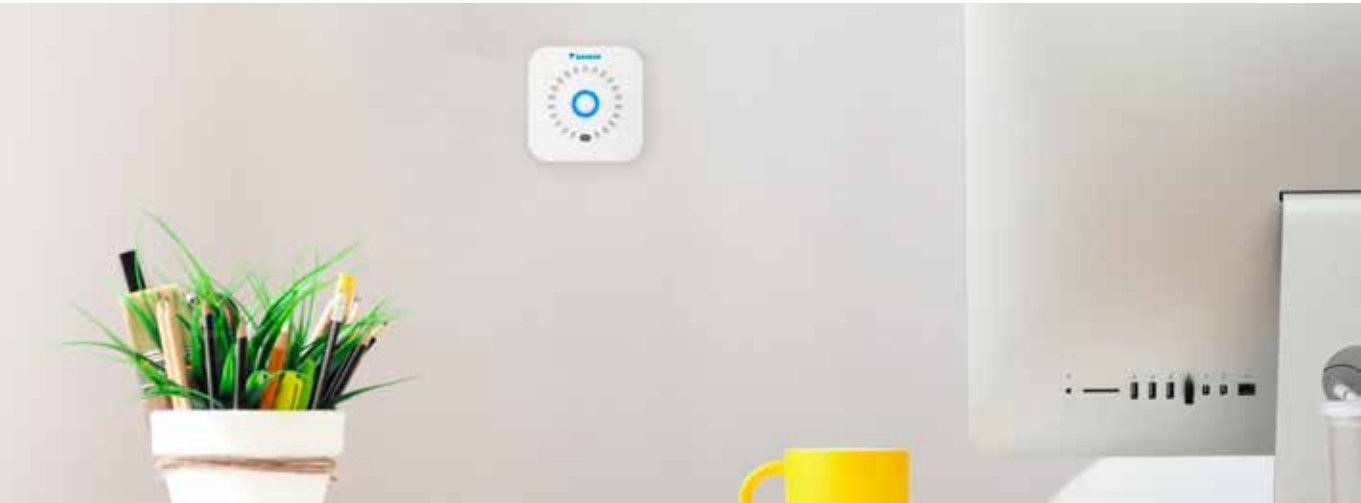
The IEQ sensor kit comes in a carton box containing the following items:

- › Power Supply plug
- › USB - Micro USB Cables
- › Wall fixing kit
- › Quick installation guides



NB-IoT or WiFi?

Communication is either Wifi or NB-IoT network (mobile network). The NB-IoT services is available in the following 18 countries: Austria, Belgium, Czech Republic, Denmark, Estonia, Germany, Greece, Hungary, Ireland, Italy, the Netherlands, Norway, Portugal, Romania, Spain, Switzerland, United Kingdom. NB-IoT services carry a fee (invoiced after the first year of usage).



Power supply

- T1 = 3~, 220V, 50Hz
- V1 = 1~, 220-240V, 50Hz
- VE = 1~, 220-240V/220V, 50Hz/60Hz*
- V3 = 1~, 230V, 50Hz
- VM = 1~, 220~240V/220~230V, 50Hz/60Hz
- W1 = 3N~, 400V, 50Hz
- Y1 = 3~, 400V, 50Hz

* For VE power supply only 1~, 220-240V, 50Hz data is displayed in this catalogue.

Conversion table refrigerant piping

inch	mm
1/4"	6.4 mm
3/8"	9.5 mm
1/2"	12.7 mm
5/8"	15.9 mm
3/4"	19.1 mm
7/8"	22.2 mm
1 1/8"	28.5 mm
1 3/8"	34.9 mm
1 5/8"	41.3 mm
1 3/4"	44.5 mm
2"	50.8 mm
2 1/8"	54 mm
2 5/8"	66.7 mm

F-gas regulation

Any refrigeration system that contains fluorinated greenhouse gases is in scope of the F-gas regulations. For fully/partially pre-charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels and in the notes underneath the specification tables in this catalogue. For non pre-charged equipment (including, but not limited to racks): its functioning relies on fluorinated greenhouse gases. The F-gas regulations do not apply to systems that contain only natural refrigerants such as propane or carbon dioxide.

Measuring conditions

Air conditioning

1) Nominal cooling capacities are based on:	
Indoor temperature	27°CDB/19°CWB
Outdoor temperature	35°CDB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m
2) Nominal heating capacities are based on:	
Indoor temperature	20°CDB
Outdoor temperature	7°CDB/6°CWB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m

Applied systems

Air cooled	Cooling only		Evaporator: 12°C/7°C	Ambient: 35°CDB
	Heat pump		Evaporator: 12°C/7°C Condenser: 40°C/45°C	Ambient: 35°C Ambient: 7°CDB/6°CWB
Water cooled	Cooling only	Evaporator: 12°C/7°C		
		Condenser: 30°C/35°C		
	Heating only	Evaporator: 12°C/7°C		
		Condenser: 40°C/45°C		
Condenserless chiller		Evaporator: 12°C/7°C		
		Condensing temperature: 45°C / liquid temperature: 40°C		
Fan coil units	Cooling		Indoor temperature 27°CDB, 19°CWB; entering water temperature 7°C, water temperature rise 5K	
	Heating	2-pipe	Indoor temperature 20°CDB, 15°CWB; entering water temperature 45°C, water temperature drop 5K	
		4-pipe	Indoor temperature 20°CDB, 15°CWB; entering water temperature 65°C, water temperature drop 10K	
Air Handling Units			Temperature and humidity conditions: Extract air 22°C / 50%; Fresh air -10°C / 90%	

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks). The sound power level is an absolute value indicating the "power" which a sound source generates. For more detailed information please consult our technical databooks.



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Daikin Applied Service

Why choose Daikin Applied Service?

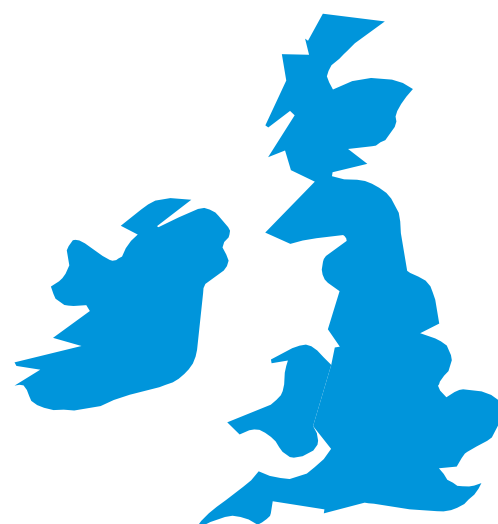
Daikin Applied Service is one of the leading specialists in the maintenance and refurbishment of **all brands of HVAC equipment**. Operating across the UK offering rapid response and specialist solutions to your maintenance needs. Our service is further enhanced by **Daikin On Site - active remote monitoring**, proactive monitoring and diagnosis of AHUs and chillers, 24/7/365, supported by a reliable network of technical and on-site personnel, helping you to optimise your system efficiency.

Service capabilities

- › Flexible maintenance contracts tailored to your business needs
- › Maintenance of ALL brands of HVAC equipment
- › 24/7 emergency call out service
- › Up to four hour response time
- › Qualified site service engineers (F-Gas Registered)
- › Remote monitoring with Daikin On Site (DOS)
- › On site training for front-line personnel
- › Tailored Service Level Agreement (SLA)
- › Full chiller running logs taken on every service visit
- › Comprehensive spare parts availability & support on all brands
- › Retrofitting & refurbishment

Benefits of a maintained system

- › Lower operation costs and energy usage
- › Extended life-cycle of assets
- › Fast and reliable remote diagnostics with Daikin On Site
- › Reduced equipment downtime and costly repairs
- › Improved indoor air quality



Daikin PROtect

Maintenance solutions

Daikin PROtect is your long term economical and sustainable maintenance solution, direct from the manufacturer.

We offer a three year maintenance package (option to extend to five years) designed to protect and optimise your HVAC equipment. Because your maintenance is directly from the manufacturer, you can have peace of mind knowing that your assets are in the hands of the experts.

With the Daikin PROtect maintenance package we can offer you:

- ✓ Fast and reliable remote diagnostics with Daikin On Site active monitoring
- ✓ Rapid fault identification and resolution
- ✓ Protected three year parts warranty (option to extend to five years) plus labour in the first year
- ✓ Up to four hour response time for emergency callouts
- ✓ Factory trained technicians (F-gas registered)



What you get with Daikin PROtect:

Conforms to SFG20 maintenance standard	✓
F-Gas leak test	✓
Oil Analysis	✓
Daikin on Site active monitoring	✓
Four visits per annum (1 major / 3 minor)	✓
3 years parts warranty	✓
1 point vibration analysis	Optional extra

Daikin on Site

Active remote monitoring

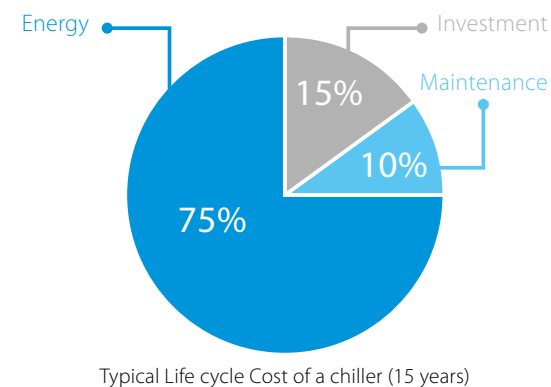
What is Daikin on Site?

Daikin on Site (DoS) is a web-based 24/7/365 active remote monitoring system that collects complex operational data from the AHU or chiller control system.

Daikin's Smart Centre turns the operational data into useful information that allows the user to remotely monitor performance. It also allows Daikin professionals to remotely optimise and maintain the equipment.

Lifetime cost of your system

Energy costs and maintenance typically account for 85% of the system's total lifetime cost. With DoS we can provide a preventative maintenance schedule to ensure maximum efficiency and reliability of your equipment, preventing costly downtime and major repairs and keeping your energy costs to a minimum.



What you get with Daikin on Site



Active monitoring and assistance

- › 24/7/365 automated alarm via email
- › Remote diagnostic support from Daikin experts
- › Quick site assessment
- › Smart mobilisation of service personnel to site if necessary

User friendly

- › Access to DoS web app
- › Remote software upgrades
- › Interactive personalised dashboards



Control and measuring

- › Master / slave functionality
- › Real time operational data and trend insights 24/7/365
- › Lifecycle data log
- › Automated and tailored reports



Efficiency and reliability

- › Reduced operational costs
- › Optimised energy efficiency
- › Reduced waste
- › Reduced carbon footprint
- › Enhanced system reliability
- › Reduced system downtime

How it works



Cloud technology to hand

Using cloud technology, process data is collected automatically in real time and stored centrally.



Insight into operational data for enhanced control and reliability

Through enhanced operational data, Daikin engineers are able to remotely monitor system performance, run diagnostics and software upgrades. If an on-site visit is required, the service engineer will arrive already informed of the issue, reducing system downtime.



Simple, effective connection

Most Daikin Applied Chiller and AHU controllers allow connection through LAN or with a wireless modem.



High security

Secure in all aspects such as data privacy, data storage security and data transport.

- › All connections are encrypted (HTTPS) to prevent wiretapping and man-in-the-middle (MITM) attacks
- › CSA security attestation - security level 2.
- › EU General Data Protection GDPR compliant
- › Geo-redundant data storage in Northern Europe



Daikin IEQ sensor

[see page 208 for more details](#)

Daikin IEQ sensor is an IoT device measuring your well-being, recording various values relating to indoor air quality, environmental comfort and electromagnetic pollution. It has 12 embedded sensors that monitor 15 different parameters.

Caelum monitoring and reporting platform
Integration with remote monitoring Daikin on Site
Get green building projects certified with LEED thanks to Indoor Environmental Quality credits

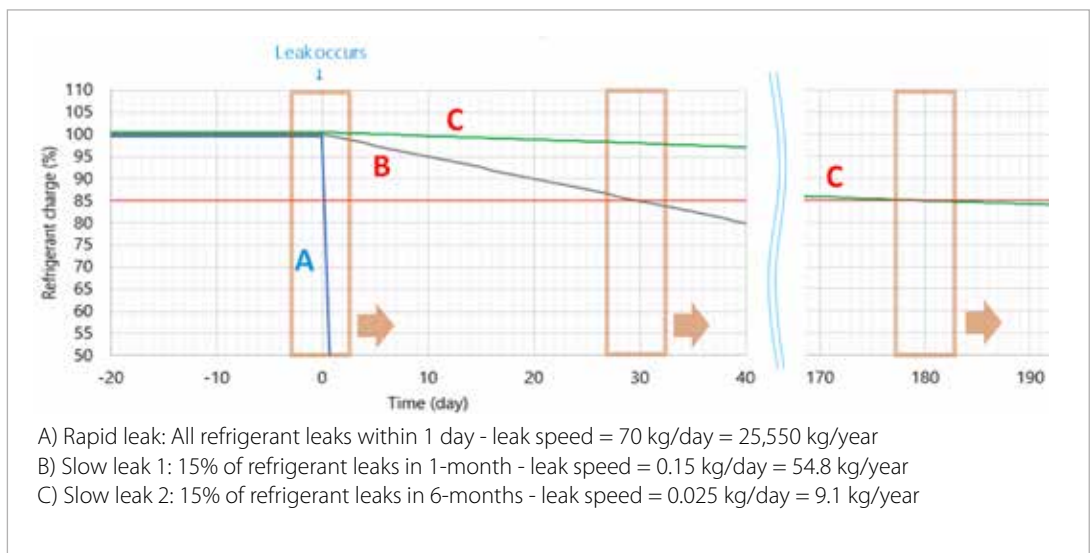


Refrigerant leak detection

with active remote monitoring

New technology to the market, remote monitoring can now detect potential gas losses. An alarm is triggered, notifying the operator and allowing rapid response to the machinery to prevent further gas loss. This feature can detect losses that are in a range of 0-15% of the total amount of gas. (Automatically available on Daikin on Site with units equipped with liquid temperature sensor). Users can view leak detection data through the DoS dashboard.

Assumption: 100% refrigerant charge=30kg



Since your HVAC-R equipment contains fluorinated greenhouse gases (F-gases) such as hydrofluorocarbons (HFCs), you must comply with a series of requirements adopted in the European Union to ensure emission prevention and containment; and hence reduce the environmental impact of refrigerants. **For more details see page 226.**

Oil Analysis

diagnostic and predictive maintenance

Oil comes in contact with many important internal components and therefore holds valuable information about a chiller's condition. The presence of harmful acids, corrosion causing water and abnormal metal wear particles can all be detected.

What you get

- › Expert comments and corrective recommendations
- › History and trend lines of chemicals, contamination, wear, acidity and moisture

Benefits

- Reduced downtime**
Prevent chiller failures and eliminate the cost of unexpected shutdowns.
- Minimise costly repairs**
Identify and remedy problems early before they become bigger problems that are more expensive to repair.
- Environment**
Extending oil lifetime reduces handling of oil waste. It is a win-win for the environment and it is cost saving.

Oil analysis can identify

- › Lubricant condition
- › Internal contamination
- › Abnormal wear and mechanical condition



Vibration analysis

All HVAC equipment with rotating components has its own vibration signature. Any deviation from this signature can be used to accurately predict developing problems such as bearing wear, shaft unbalancing and degrading compressor rotor tolerances.

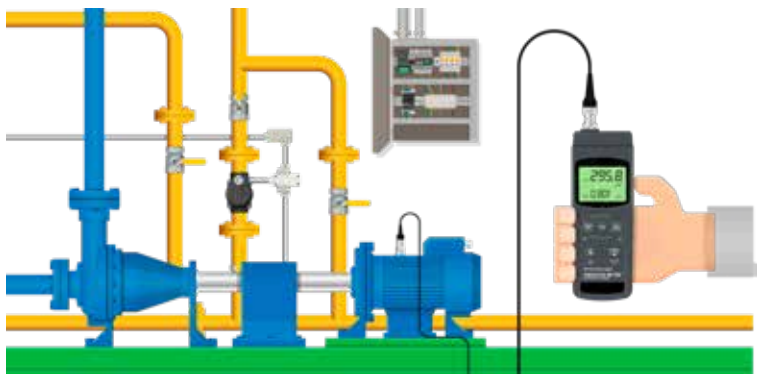
Benefits

- Reduced downtime**
Vibration analysis when used as part of a condition based monitoring programme can prevent catastrophic failures and equipment downtime.

- Minimise costly repairs**
Early detection of potential failures allows corrective action to take place preventing a major component failure.
- Environment**
Non-intrusive diagnostics minimises internal mechanical inspections and subsequent waste.

What you get

- › Expert knowledge of compressor kinematics.
- › A detailed report identifying equipment trends and corrective action required.
- › Improved reliability and reduced lifecycle costs.



Rental Services

keeping you up and running

Daikin Rental provides rental chillers, heat pumps, air handling, heat, power and services to meet your temporary cooling needs while reducing CAPEX and optimizing your OPEX.



1. Daikin on Site, a solution for customer specific needs

Your cooling unit will reach high reliability and efficiency levels. No more stops and long waiting time for alarm troubleshooting. Thanks to a continuous monitoring and advanced tools, Daikin on Site helps to improve the overall system lifetime. A Daikin expert is ready to help and keep monitoring your plant, analysing your energy consumption, suggesting actions and system improvements.

2. Solutions for cooling emergencies

Whether a natural disaster and/or an equipment failure takes your cooling system down, Daikin temporary cooling can get you up and running again fast!

3. Standby cooling for critical applications and processes

A temporary cooling system is sometimes used to back-up manufacturing, and chemical processes, or when a hospital's required system redundancy has been reduced.

4. Special events

We can support you with creating a comfortable climate for your special events and parties by putting together the right equipment for your specialty cooling requirements. Quick and easy solutions for fairs, trade shows, festivals, events in temporary structures, etc.

5. Solutions for cooling load fluctuations

During facility expansions there is a need to test equipment and process areas but not sufficient load to keep new or large chillers running. A simple rental solution ensures the correct load and energy efficiency while the expansion new build is being finalized.

6. Cooling supply during planned shutdowns and outages

Daikin temporary cooling is an excellent way to supply cooling during planned equipment maintenance, which elevates the time pressure to get your primary cooling system back on line. This way, the work can be completed correctly the first time, and avoid costly overtime. In addition to the cooling solutions, we also have the same rental solutions available for heating.

Daikin temporary cooling makes it possible for your facility to maintain full cooling capabilities during retrofit, renovation, or replacement

Why use Daikin rental?

System modernisation

Be smart – replace components, not systems



Chiller Modernisation

Even if the R-22 chiller has been maintained well and is still in good condition, R-22 is no longer allowed to be used. That's why Daikin offers chiller modernisation packages. Not only is the chiller made compliant with the latest legislation, the technology upgrade also revives your system, increasing reliability and efficiency.

Main benefits

- › Convert R-22 to be compliant with legislation
- › Limit capital
- › Save money for future equipment thanks to the chiller's longer lifetime, increased reliability, and improved maintenance efficiency
- › Enhance energy efficiency up to +20% ESEER by manufacturer pre-engineered upgrade

Benefits for budget and risk management

- › No chiller removal
- › No water pipe work
- › No electrical modifications
- › Low logistic expenses (transport, crantage, permissions ...)
- › Quick delivery
- › Government-sponsored subsidies may be available

Lower GWP refrigerants

With ever reducing F-Gas quota targets, new equipment can be supplied with low GWP refrigerants. Options for Retrofit to lower GWP solutions are also feasible to reduce potential long term maintenance costs.

- Soft starter
- Inverter



Controller box upgrade



Compressor upgrade

AHU Refurbishment

AHU refurbishment offers a cost effective, streamlined solution to improve the performance of existing AHUs and aid with compliance to the latest HVAC regulations. Our engineers at Daikin Applied UK can refurbish ANY BRAND of air handling unit.

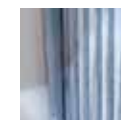
By refurbishing your AHU, you could increase the life expectancy of the system by a further **10-15 years**.

What services can we offer?



Fan upgrades to EC fan arrays

- › Benefits - Higher efficiencies, significant energy and CO2 savings, additional redundancy and easy maintenance.



Filters

- › Update from BS EN 779 to ISO 16890 means more effective filter solutions to the market.
- › Benefits - Significant impact on IAQ and system pressure drop.



Coil replacement where damaged or worn

- › Benefits - Re-establish optimal performance. DX coils can offer significant cost savings. Over-time, set point parameters can change which can require the implementation of new coils.



Damper repair or replacement

- › Benefits - airflow set-points are re-established at the lowest pressure drop.



Panel replacement where damaged

- › Benefits - Improve casing leakage and thermal performance and help align to the latest specifications such as HTM-03-01 with the requirements for BS EN 1886 T2/TB2 and Euroclass A insulation.



Other

- › Site surveys of controls often highlight areas where control set-up is sub-optimal for desired performance.
- › We can offer individual component or full system upgrades and re-commissioning.
- › This can also reduce overall energy consumption, performance.

Benefits

- › Improved efficiency
- › Energy savings
- › Reduced CO2
- › Improved IAQ
- › Maintainability
- › Extended lifecycle
- › Redundancy
- › Compliance to regulations
- › Low upfront cost



F-Gas Regulations

Reduce the environmental impact of your equipment

Since your HVAC-R equipment contains fluorinated greenhouse gases (F-gases) such as hydrofluorocarbons (HFCs), you must comply with a series of requirements adopted in the European Union to ensure emission prevention and containment; and hence reduce the environmental impact of refrigerants.

Why conduct F-gas leak checks?

HVAC-R equipment that contains fluorinated greenhouse gases in quantities of 5 tonnes of CO₂ equivalent or more must be checked for F-gas leakage by certified personnel only.

During these checks, precautionary measures are taken to prevent leakages.

In case a leak is detected, it is repaired without undue delay.

We can manage your F-gas requirements for you

All commercial, industrial and public sector organisations must comply with obligations under the government's environmental policy on F-Gas and Ozone-Depleting Substances.

Our F-Gas registered site service engineers can help you carry out different tasks such as regular leak checks, installation of leakage detection systems and diligent on-site record keeping with supporting templates. As well as recovery and/or destruction of gases before the equipment is discarded.

You can also combine the required F-gas inspections with one of our service plans.

How often to conduct leak checks?

The frequency of your equipment's leak inspections depends on its F-gas charge size measured in CO₂ equivalents as shown in the table.

The installation of a leakage detection system is mandatory for equipment that contains 500 t CO₂ or more. The proper functioning of the system should be checked at least once every 12 months.

If the equipment has a leakage detection system, the required frequency of leak checks is reduced by half.

For more details on leak detection see page 226.

Spare parts

With next day delivery

Replacement parts for Daikin and McQuay products

If your cooling equipment is running 24/7 throughout the year, it is inevitable that components may wear over time.

Daikin Applied UK offers genuine replacement spare parts and components for Daikin and McQuay products.

Benefit from the support and expertise of our qualified engineers

Our engineers can conduct a site visit to discuss any critical components you may require at short notice, in the event of an unexpected breakdown.

Need your parts in a hurry?

We offer next day delivery from our dedicated stock stored at our factory in Cramlington, Northumberland.

Additional Services

Retrofit kits
Compressor upgrades
VFD upgrades
Controls software upgrades: Micro Tech®/Siemens/Carel



Our Range of Spares

Compressors
Condensers
Controls
Software
Critical spares list
Electricals
Evaporators
Fans
Gaskets
Sensors
Transducers
Valves
And many more!



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