



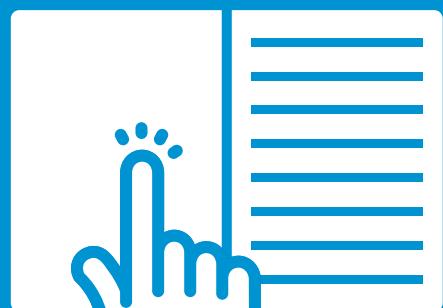
Catalogue 2018-2019

Chillers

and air side

equipment

INTERACTIVE



pdf

NEW

Webbased Chiller Selection Software

High performance and reliability for comfort and process applications

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.

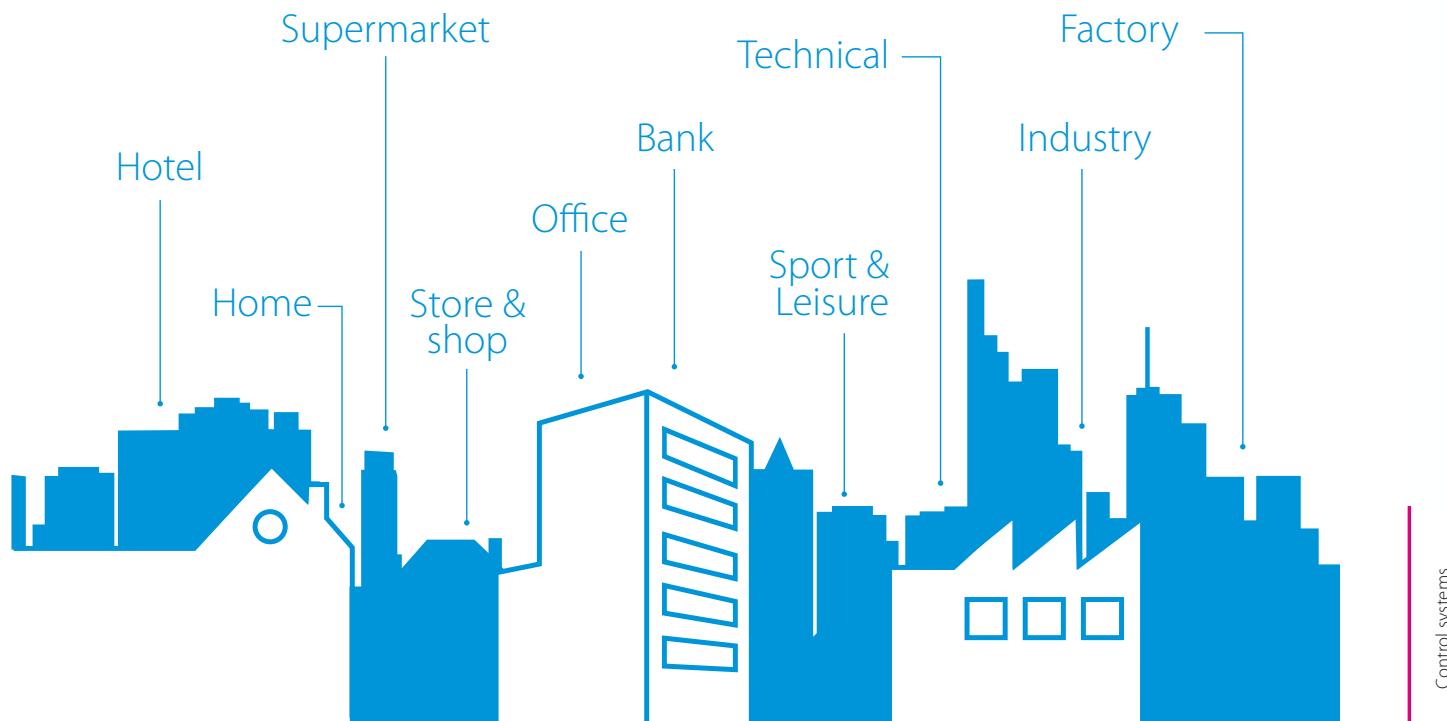
We will deliver on these core values of our brand and enjoy sustainable success with continued growth.



Table of content

Daikin, your partner of choice	4
Tools and platforms	5
The best partner for your green project	6
Seasonal efficiency	7
The phase-out period for R-22 is over	8
Daikin chillers, the best choice	13
Why choose Daikin chillers?	13
Why Maintenance?	22
Chillers	24
Air cooled chillers (Cooling only)	25
Air cooled chillers (Heat pump)	66
Multipurpose units	76
Water cooled chillers	90
Cooling & Heating only	94
Centrifugal chillers	112
Condenserless chillers	120
Fan coil units	129
Air handling units	159
Control systems	174
Daikin Services	192

Daikin world





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.

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/>



Selection software

ASTRA Web

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

Online support

Business portal

Experience our new extranet that thinks with you

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

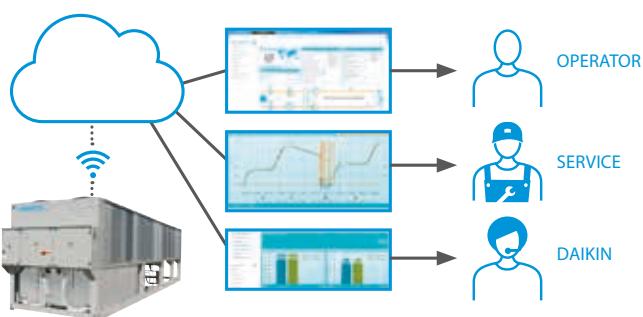
Daikin on Site



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

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

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



BREEAM®

Daikin, the best partner for your green project

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

93% percent of developers & investors consider green certification important

BREEAM and LEED green building programmes are the two most important sustainable building certificates in Europe, covering more than 75% of the total sustainable-building certificate market.

Property developers are setting high standards

- › Aiming for a BREEAM Excellent or LEED Gold target is no longer rare
- › The real challenge? Achieving these targets while staying within budget

HVAC-R systems play an important role

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

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It is essential to choose an HVAC-R partner with the knowledge and portfolio to achieve your BREEAM or LEED objectives, and other green needs.

Daikin has successfully participated in many green and sustainable projects. Helping builders achieve BREEAM Excellent, LEED Gold, NZEB and similar certificates has become one of our specialities.



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

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



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

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

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

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

› Top seasonal efficiency

Both BREEAM and LEED green building programmes put the strongest focus on energy efficiency. This is exactly why it's so important to choose Daikin.

› Smart air conditioning management with Intelligent Network

To drastically reduce your energy consumption and CO₂ emissions it's not enough to simply make your equipment more efficient.

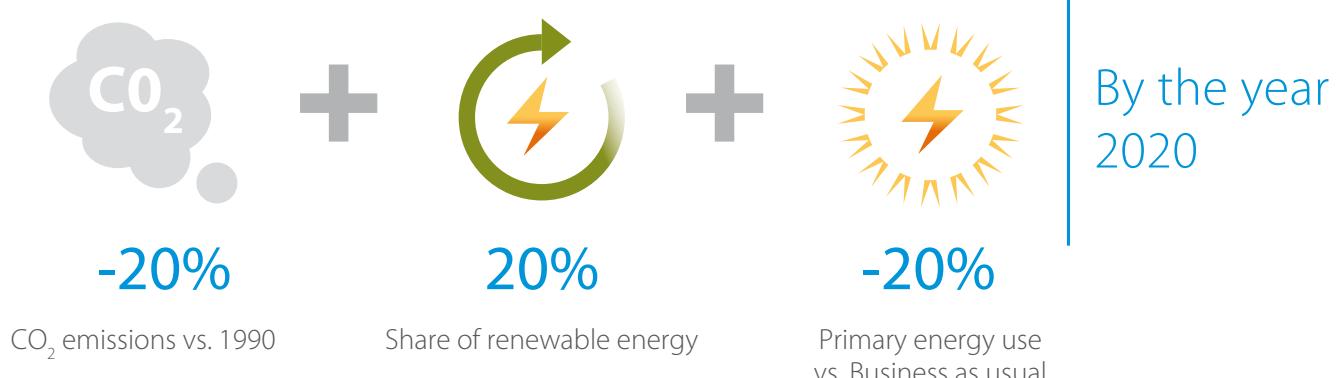
Seasonal efficiency,

Smart use of energy

Challenging 20-20-20 environmental targets

The European Commission has set challenging targets for improving energy efficiency in the EU. These so-called 20-20-20 targets aim at a 20% reduction in CO₂ emissions, 20% share of renewable energy and a 20% reduction in the use of primary energy, all by the year 2020. To realise these objectives, Europe issued the Eco-Design Directive [2009/125/EC]. This sets minimum efficiency requirements for energy related products.

European action plan 20-20-20



Applied systems: products in scope

Since 26 September 2015, heat generators for space heating (LOT 1) also need to comply to these 20-20-20 targets. For the applied systems market it means that all heat pumps below 400 kW need to comply to minimum efficiency requirements. Heat pumps below 70 kW must be marked with a product energy label.

Our service

Daikin helps its partners to meet their obligations regarding the Ecodesign Directive and energy labelling. Labels, product and technical fiches for each individual product are available as downloads at any time from the Energy Label Generator at https://www.daikin.eu/en_us/about/daike-innovations/seasonal-efficiency.html.

Chiller modernisation

Be smart – replace components, not systems

Our concept

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, craneage, permissions ...)
- › Quick delivery
- › Government-sponsored subsidies may be available

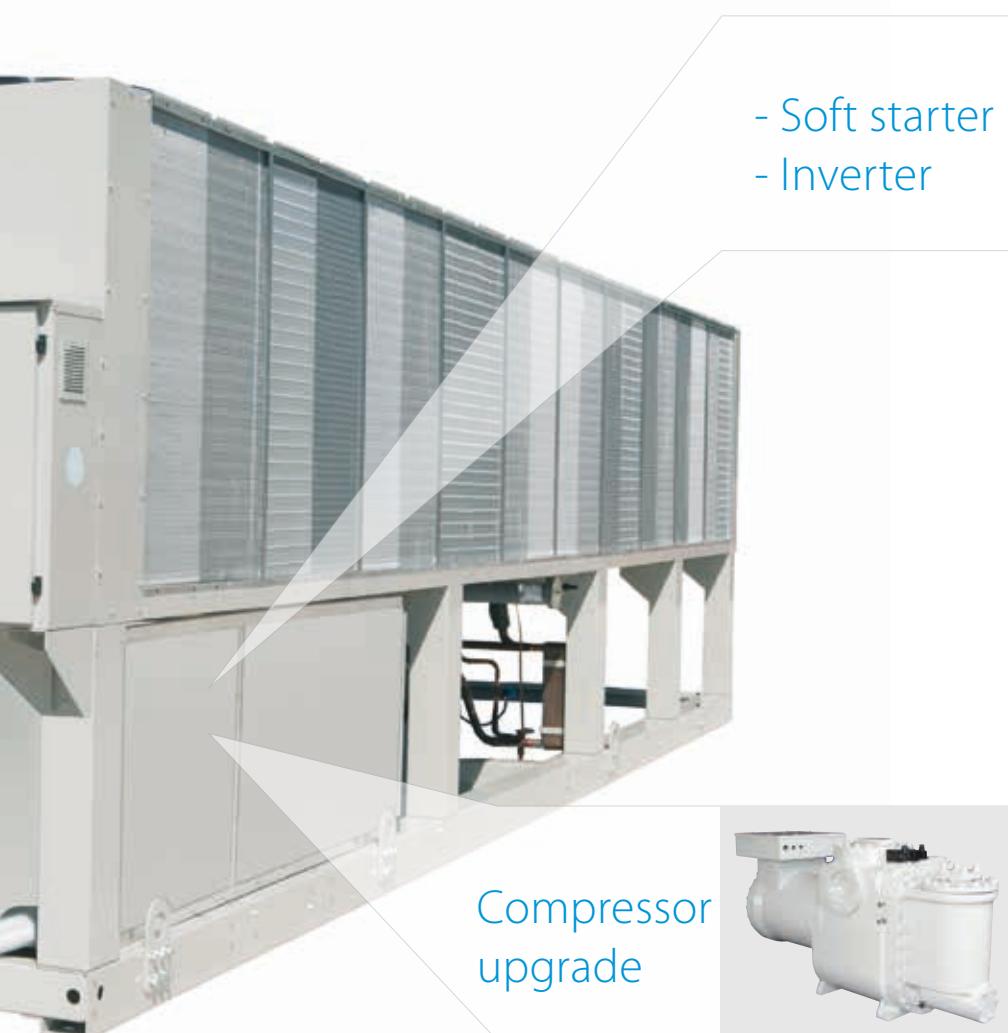


Controller box
upgrade



Fact: R-22 has been banned in Europe*

If your equipment is more than 15 years old, it probably still uses R-22 refrigerant. Since 31 December 2014 repairs to R-22 systems are prohibited, possibly resulting in unexpected downtime. Keep your business running at all times with Daikin replacement technology.



Day-to-day reliability and efficiency

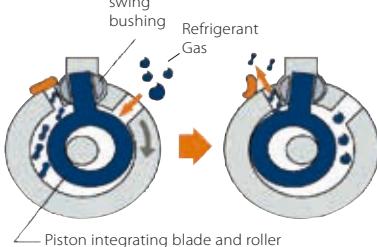
Inhouse development and manufacturing of compressors

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

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



Swing compressor



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



Scroll compressor for controlled capacity

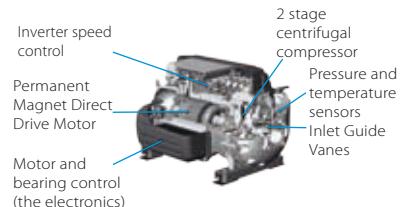
Being compact, the Daikin scroll compressor is used with R-407C and R-410A to provide constant reliability and high efficiency throughout its service life. Designed for small and medium capacities, the scroll compressors are used with air cooled and water cooled chillers.

Characteristics:

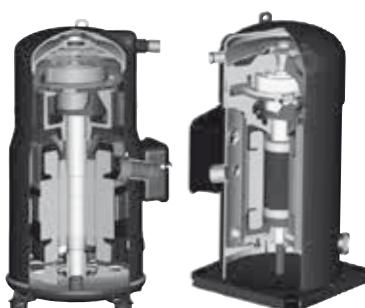
- › Compact, simple yet robust design
- › Absence of valves and oscillating connecting mechanisms providing maximum reliability
- › Constant compression guaranteeing low energy consumption
- › Increased compression efficiency thanks to the absence of volumetric re-expansion
- › Low sound level
- › Low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



Innovative frictionless centrifugal compressor



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

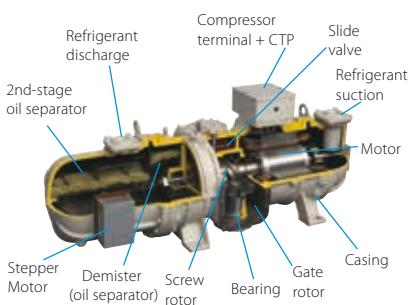


Whatever the requirements of the customer - large systems requiring constant capacity or small systems for flexibility - Daikin always provides a reliable and efficient solution.



The single-screw stepless compressor for high capacity

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



Characteristics:

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



Screw compressor with integrated inverter (EWAD-TZB)

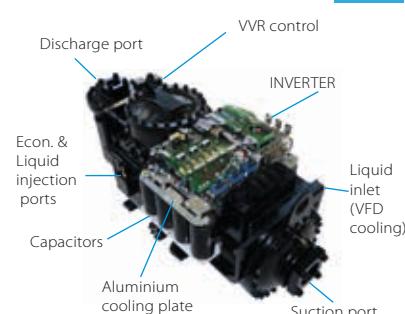
Characteristics:

- › 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

NEW







Why choose Daikin chillers

The widest and most flexible chiller portfolio

- › From the smallest chiller for residential use to the largest chiller for district cooling
- › Tailor made solutions based on the most advanced technologies

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

Benefits for the installer

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

Benefits for the consultant

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

Benefits for the end user

- › Remarkable savings on running costs
- › "Green" solutions to preserve the environment
- › Eurovent and AHRI certification

The highest efficiency for every installation

- › 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

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.

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Lower your running costs with our energy saving options



Inverter technology

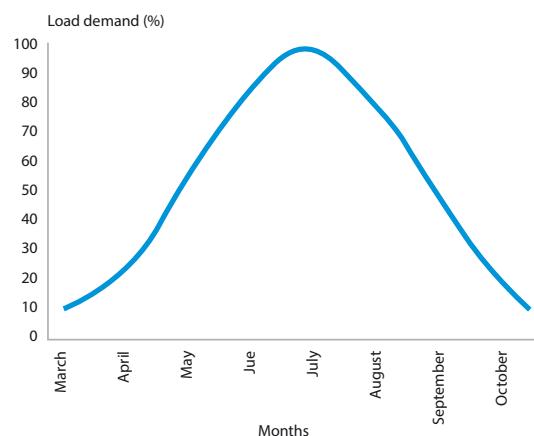
Traditional electric motors run at full load even when not needed (in chiller part load operations), resulting in energy waste.

Since in a building most of the energy consumption comes from HVAC systems and the cooling/heating load varies during the year depending on the application, energy saving becomes vital, especially with the current soaring price of energy and global warming concerns.

VFD (Variable Frequency Drive) allows the use of only the power necessary to perfectly match the real load, a highly efficient and green solution for HVAC applications (compressors, fans and pumps).

During most of the chiller operating time, the cooling capacity required in a building is lower than the peak load conditions, according to the building load profile.

The higher load variations during the year, the more vital is operating efficiency of the machine.



What are your benefits when choosing an inverter chiller ?

- › Energy efficient: displacement power factor always > 0.95
Usually the power factor of a motor progressively worsens with the decrease of the power output. However, thanks to the inverter, there is no need for additional power factor correction capacitors as the power factor is always > 0.95 and there are no power surges so costs are constrained.
- › Quick start-up: start-up time reduced by 1/3
The ability to vary the output power in direct relation to the cooling requirements of the system by allowing compressor boosts gives the inverter chiller a reduced start-up-to-operating-capacity, making it possible to achieve comfort conditions in 1/3 less time than with conventional systems.
- › Less frequent start/stop cycles and low starting current
The inverter technology ensures fewer start/stop cycles as well as ensuring that the start-up current is always lower than the current absorbed maximum operating conditions (FLA). This generates obvious cost savings.
- › Seasonal quietness: reduced sound levels
Low sound levels in partial load conditions are achieved by the variation of compressor frequency, thus ensuring minimum sound levels at all times.

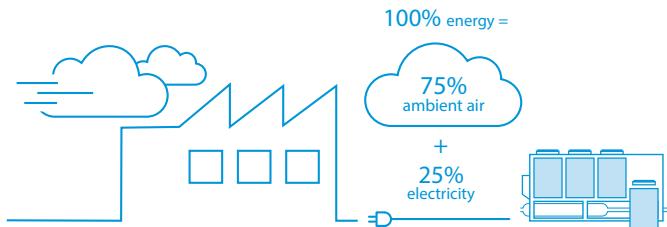
All these benefits will lead to a decrease in the overall running costs, resulting in a rapid return on investment.



Air-to-water heat pump technology

Air-to-air water pumps obtain 75% of their output energy from a renewable source: the ambient air, in summer and winter, even when it is freezing outside; air which is both renewable and inexhaustible.

A heat pump's efficiency is measured in SCOP (Seasonal Coefficient Of Performance) for heating and ESEER (Seasonal Energy Efficiency Ratio) for cooling. Our units deliver maximum energy efficiency and the minimum of operating costs.



Heat recovery (option n°01-03)

For those particular applications where heating and cooling may be required at the same time during operation of the chiller (e.g. hotels, manufacturing, hospitals) partial or total heat recovery options are available. The heat recovery technology extracts heat from the cooling process to ensure free or low-cost heating for other facilities in your company.



Free cooling (option n°113)

Free cooling uses cold air from outside to assist in chilling water for applications such as data centers that need cooling during cold season. When the ambient air temperature drops below a set point, all or part of the chilled water bypasses the existing chiller and runs through the free cooling system, thus using less power.

Rapid restart (option n°110)

In case of power failure the Daikin chillers can quickly restart and load up to 100 % in a very short time (typically less than 6 minutes versus circa 20 minutes in case of a standard chiller) Rapid restart means lower impact on the customer side especially in critical applications where they cannot afford to lose cooling: e.g. data centers and hospitals

When outside temperatures are +2°C or lower, the chiller compressors are fully shut down and cooling is almost for free. This dramatically reduces the load on the system and cuts energy consumption by up to 75%, as well as prolonging the lifespan of the chiller.

Chillers



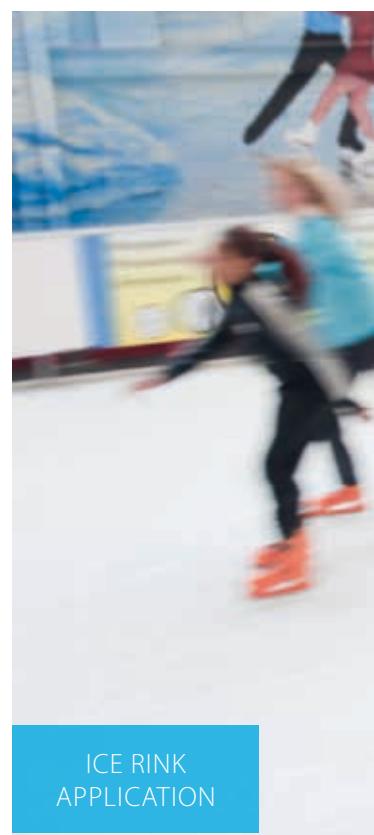
AIR COOLED CHILLER INSTALLATION



PRINTING COMPANY APPLICATION

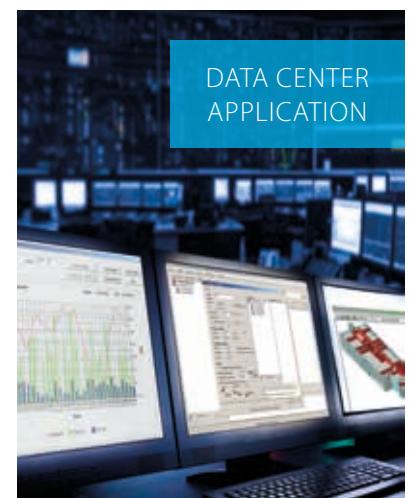


AIR COOLED CHILLER INSTALLATION



ICE RINK
APPLICATION

EWAQ-E-
INSTALLATION



DATA CENTER
APPLICATION

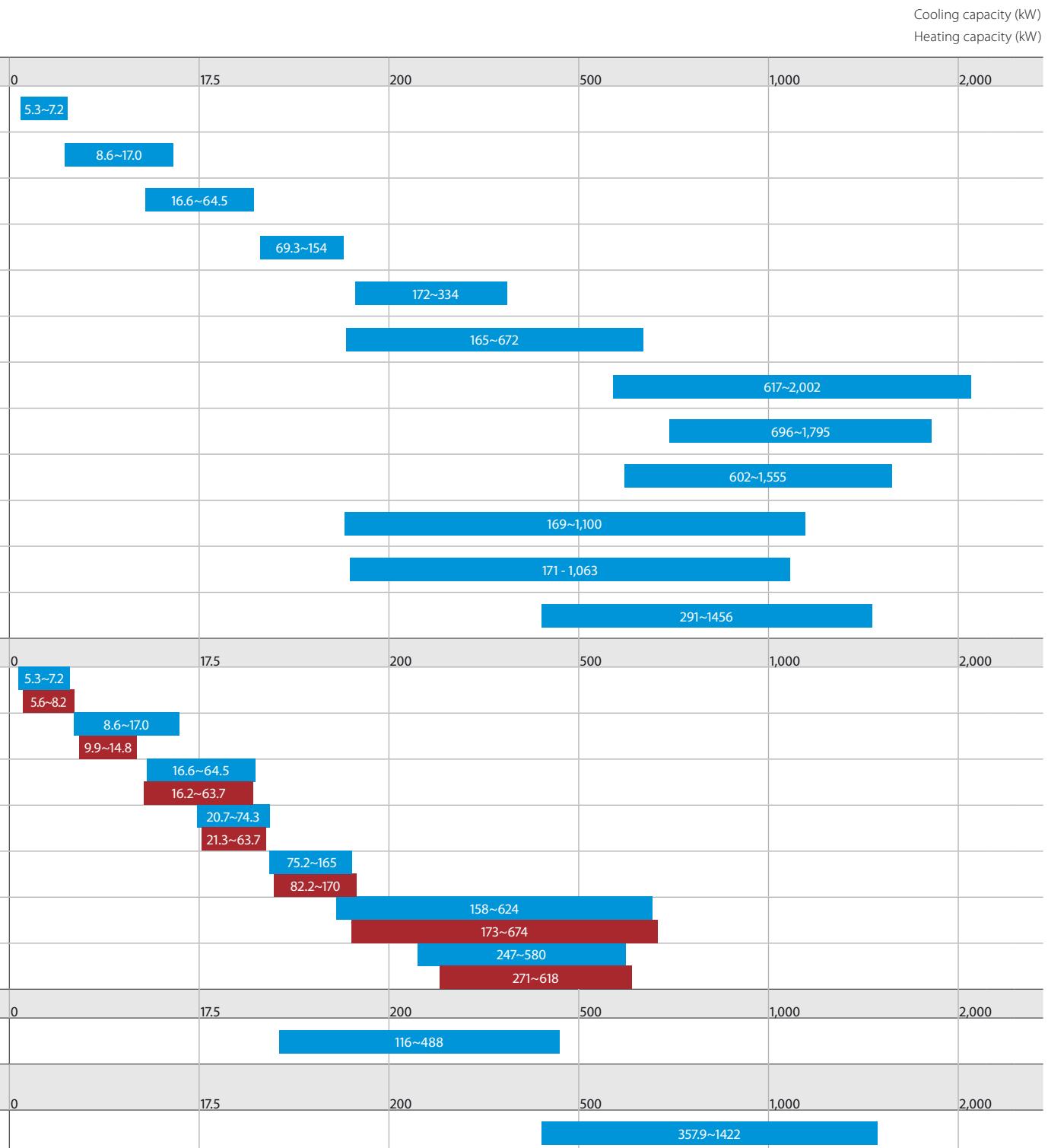


PROCESS COOLING
APPLICATION

Products overview

Refrigerant type*	Refrigerant circuits	Inverter	Free cooling	Compressor			Water heat exchanger	Efficiency version		Sound version		
				Swing	Scroll	Screw		Plate **	Single pass shell and tube	Standard	High	Premium
Cooling only												
EWAQ~BVP		R-410A	1	●			●			●		●
EWAQ~ACV3/ACW1		R-410A	1	●			●			●		●
EWAQ~CWN/P		R-410A	1-2	●			●			●		●
EWAQ~G-		R-410A	1				●			●	●	●
EWAQ~E-		R-410A	1				●			●	●	●
EWAQ~F-		R-410A	2				●			●	●	●
EWAD~C-		R-134a	2-3				●			●	●	●
EWAD~CZ		R-134a	2-3	●			●			●	●	●
EWAD~CF		R-134a	2		●		●			●	●	●
EWAD-TZ B		R-134a	1-2	●			●	●	●	●	●	●
EWAH-TZ B		R1234ze	1-2	●			●	●	●	●	●	●
EWAD-T-B		R-134a	2				●			●	●	●
Heat pump												
EWYQ~BVP		R-410A	1	●			●			●		●
EWYQ~ACV3/ACW1		R-410A	1	●			●			●		●
EWYQ~CWN/P		R-410A	1-2	●			●			●		●
SEHVX-BW SERHQ-BW1		R-410A	1	●			●			●		●
EWYQ~G-		R-410A	1				●			●		●
EWYQ~F-		R-410A	1-2				●			●	●	●
EWYD~BZ		R-134a	2-3	●			●			●	●	●
Condensing unit												
ERAD~E-		R-134a	1					●		●		●
Multipurpose unit												
EWYD-4Z		R-134a	2	●				●		●	●	●

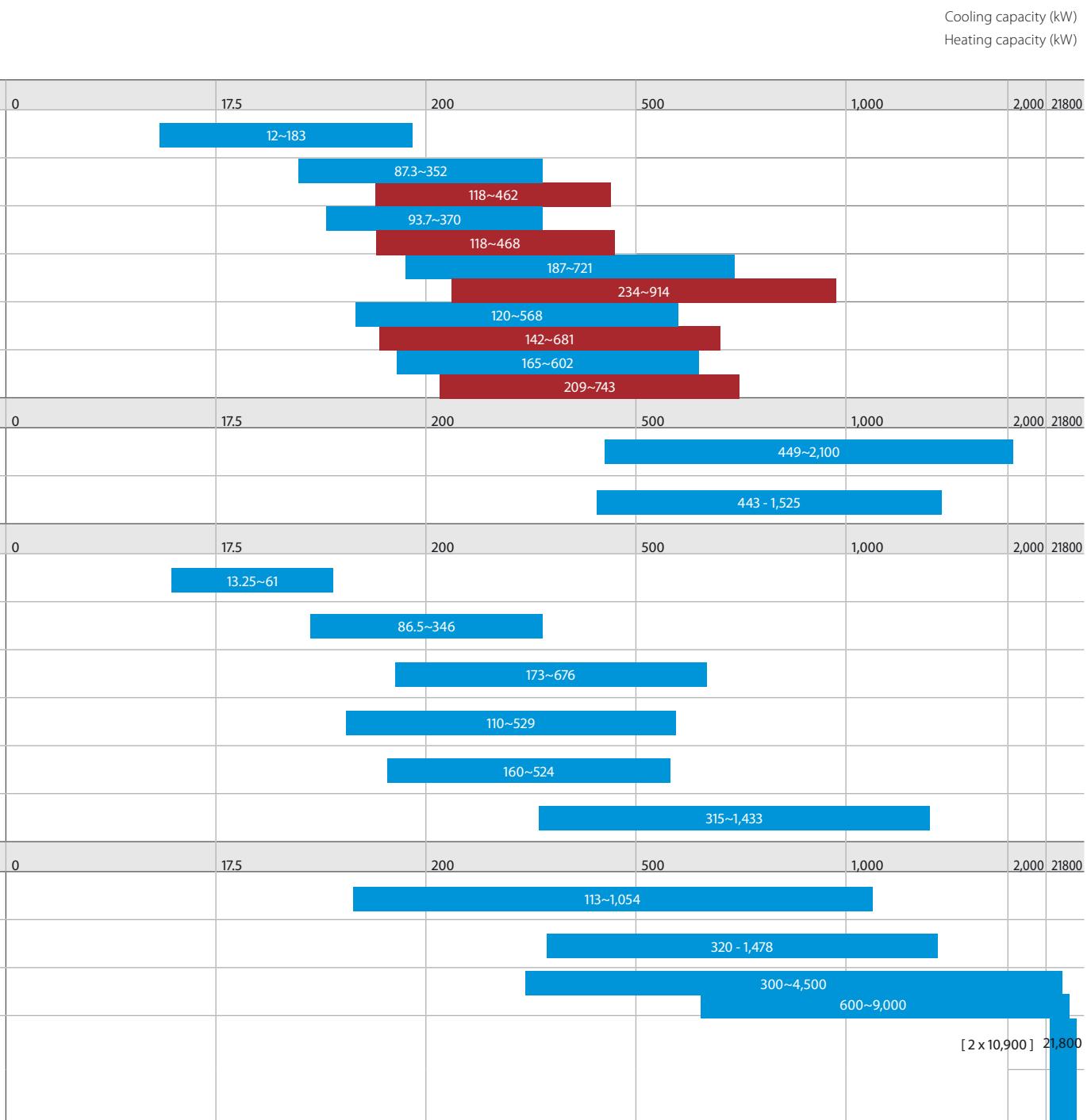
Air cooled chillers, condensing units and Multipurpose units



Products overview

	Refrigerant Type *	Refrigerant circuits	Inverter	Compressor			Water heat exchanger			Efficiency version			Sound version
				Scroll	Screw	Centrifugal	Plate **	Single pass shell and tube	Shell and tube	Standard	High	Premium	
Water cooled chillers (Cooling only & Heating only)													
EWWQ-KBW1N NEW		R-410a	1-2		●			●			●		●
EWHQ~G-		R-410A	1		●			●			●		●
EWWQ~G-		R-410A	1		●			●			●		●
EWWQ~L-		R-410A	2		●			●			●		●
EWWD~J-		R-134a	1-2			●		●			●		●
EWWD~G-		R-134a	1-2			●			●		●	●	●
Water cooled chillers (Cooling only)													
EWWD-VZ		R-134a	1	●		●				●	●	●	●
EWWH-VZ NEW		R1234ze	1	●		●				●	●	●	●
Condenserless chillers													
EWLQ-KBW1N NEW		R-410a	1-2		●			●			●		●
EWLQ~G-		R-410A	1		●			●			●		●
EWLQ~L-		R-410A	2		●			●			●		●
EWLD~J-		R-134a	1-2			●		●			●		●
EWLD~G-		R-134a	1-2			●			●		●		●
EWLD~I-		R-134a	1-2-3			●			●		●		●
Water cooled centrifugal chillers													
EWWD~FZ		R-134a	1	●			●		Flooded		●		●
EWWD-DZ NEW		R-134a	1				●			●	●		●
DWSC DWDC		R-134a	1	optional			●		Flooded		●		●
6,000 RT CENTRIFUGAL		R-134a	2 per chiller				●		Flooded		●		●

* (GWP) : R-410A (2087.5), R-134a (1430), R-407C (1773.9) - ** BPHE: Brazed plate heat exchanger



Why Maintenance?



Peace of mind

Our Daikin service team strives to develop smart services & solutions to exceed your expectations. Ensuring that your HVAC systems are maintained by Daikin professionals gives you peace of mind!

Improved Safety

When a system doesn't operate in optimal condition over longer periods of time, it could cause unsafe working conditions or accidents. Regular maintenance ensures the unit operates safely and complies with local regulations and requirements.

Full Legal Compliance

Knowing that your units are maintained and serviced gives you the assurance all relevant legal requirements (e.g. F-gas regulation) are fulfilled.

REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Healthy Air

A properly maintained system will not only keep premises warm or cool, but it will prevent problems with air quality. Clean filters and coils mean better breathing for all users. An unmaintained system is a breeding ground for dirt, mould and bacteria, all of which can cause or worsen respiratory problems for those living or working in the building or house.

Cost Savings

In the long run, maintenance is always cheaper than ad-hoc service interventions. Preventive maintenance allows you and Daikin to plan ahead and avoid rushed interventions. Our specialists will come prepared, thus avoiding repeated visits and extra interruptions.

Another benefit is the clear and transparent costs which can easily be budgeted, as well as clear and well-founded lifecycle reports which indicate future needs and requirements to be considered well in advance. Over time this reduces the Total Cost of Ownership (TCO) and related operational costs.

Minimized System Downtime

Scheduled care visits are transparent and easy to plan which gives sufficient time to find suitable dates for visits to avoid impact on production or comfort. A well-maintained system is less likely to fail during high season. Keeping a unit up-to-date on all inspections and maintenance checks means less worry that the unit will break down when it is needed the most.



Increased System Efficiency

Regular maintenance of a HVAC system ensures that electricity costs and performance are not jeopardized, and that the safety features and the integrity of the system are in line with the latest standards and regulations.

Routine maintenance such as inspections, oil and fluid changes, part replacements and other little fixes can help your system to run much more efficiently. In turn, you will benefit from fuel and energy savings because the units will be running at peak performance.

Emergency Call-out

In case your system should still break down, all Daikin Care packages include access to a Hotline number for emergency call-out. Preventive and Extended Care also include Emergency Service Hotline access outside of regular office hours.

Genuine Spare Parts, Tools and Equipment

The spare parts used are all certified by Daikin, which means that the risk of failure and disturbances can be reduced while ensuring that the warranty is valid.

In case opening, overhaul or repair is needed, Daikin as an OEM manufacturer has all the original tools, casts and equipment to ensure the repair is carried out according to factory recommendations and will keep your equipment up and running.

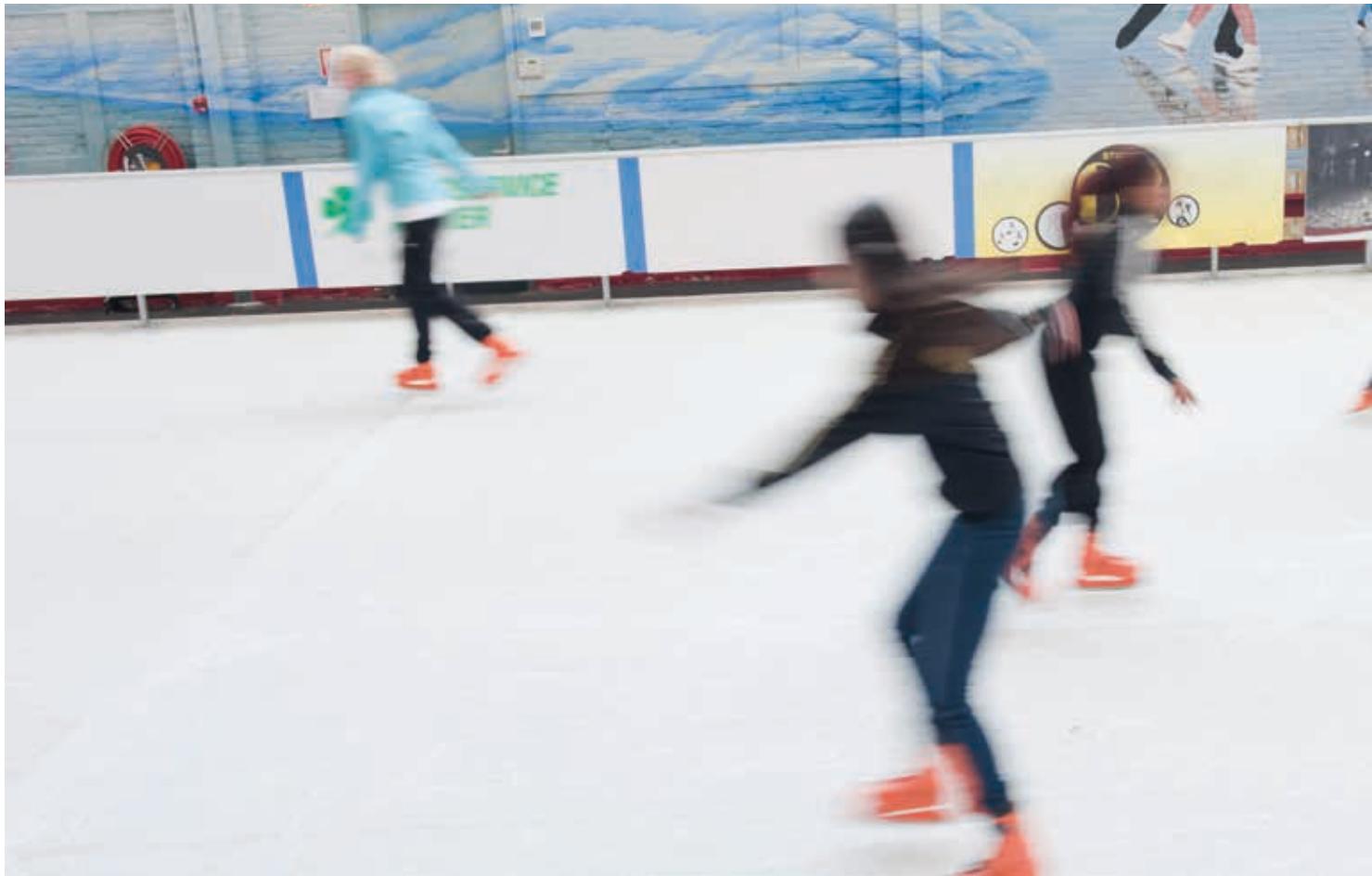
Daikin uses advanced service tools when we care for our systems. These tools are not found on the

open market and they facilitate advanced troubleshooting and reporting to be done to ensure that the unit is optimized and parametrised correctly as well as verifying the integrity of the system.

Attractive Modernisation Solutions

Daikin also offers attractive modernisation solutions (retrofit or full replacement) for a range of older Applied systems. In the case of retrofit, core parts of the system will be replaced to ensure it can run for many more years. Using Daikin certified retrofit solutions from Daikin or Daikin Certified partners allow you to enjoy the benefits of reduced operating costs, no need to refurbish or reinstall and will include an attractive warranty policy if performed under a care agreement.





Why choose a Daikin air cooled chiller?

Daikin air cooled chillers are designed for small to large cooling and heating capacities. A wide range of chillers are available to match every building's air conditioning and process cooling needs. Air cooled chillers are available in different versions:

Mini chillers

Daikin mini chillers are equipped with an inverter swing or scroll compressor allowing a smooth, more reliable and energy-efficient operation with low noise levels and leader-of-class ESEER. Ideal for residential or light commercial applications.

Air cooled scroll chillers

Daikin scroll chillers are designed for small and medium cooling and heating capacities. A wide range to match every building's air conditioning and process cooling needs.

Air cooled screw chillers

Manufactured for large capacities, Daikin screw chillers deliver unparalleled reliability and efficiency, both for comfort and process cooling. Equipped with an inverter they provide high efficiency at part load.

Wide range of products

Thanks to an extensive product line-up for medium-to large-scale facilities, you can select your optimum model.

Application versatility

Daikin delivers solutions to a wide range for process and comfort climate applications, for all conditions and both cooling or heating requirements.

Energy and cost savings

Utilizing the latest technology, Daikin has achieved industry-leading efficiency and energy-saving operation for outstanding cost saving performance.

Options flexibility

Multiple unique options are available for customizing the chiller to your specific building's needs.

Table of content

Air cooled

Air cooled chillers (Cooling only)

R-410A

NEW	EWAQ-BVP	26
	EWAQ-ACV3/ACW1	27
NEW	EWAQ-CWN/CWP	28
	EWAQ-G-SS	30
	EWAQ-G-SR	31
	EWAQ-G-XS	32
	EWAQ-G-XR	33
	EWAQ-E-XS/XL	34
	EWAQ-E-XR	35
	EWAQ-F-SS/SL	36
	EWAQ-F-SR	37
	EWAQ-F-XS/XL	38
	EWAQ-F-XR	39

R-134a

	EWAD-CZXS/XL	40
	EWAD-CZXR	41
	EWAD-CFXS/XL	42
	EWAD-CFXR	43
	EWAD-TZSSB/SLB	46
	EWAD-TZSRB	47
	EWAD-TZXS/SLB	48
	EWAD-TZXRB	49
	EWAD-TZPSB/PLB	50
	EWAD-TZPRB	51
NEW	EWAD-T-SSB/SLB	52
	EWAD-T-SRB	53
	EWAD-T-XSB/XLB	54
	EWAD-T-XRB	55

R-1234ze(E)

NEW	EWAH-TZSSB/SLB	56
	EWAH-TZSRB	58
	EWAH-TZXS/SLB	59
	EWAH-TZXRB	60
	EWAH-TZPSB/PLB	61
	EWAH-TZPRB	62
		63

Air cooled chillers (Heat pump)

R-410A

NEW	EWYQ-BVP	66
	EWYQ-ACV3/ACW1	67
NEW	EWAQ-CWN/CWP	68
NEW	SEHVX-BW + SERHQ-BW1	69
	EWYQ-G-XS	70
	EWYQ-G-XR	71
	EWYQ-F-XS/XL	72
	EWYQ-F-XR	73

R-134a

	EWYD-BZSS	74
	EWYD-BZSL	75

Multipurpose unit

NEW	EWYD-4ZXS	76
	EWYD-4ZXL	77
	EWYD-4ZXR	78
		79

Air cooled mini inverter chiller

- › Top product in terms of energy efficiency and operation range
- › All capacities available in 2 versions: standard version and version with OP10 option (no freeze up of water when not in operation thanks to the water piping heater tape)
- › Easy, plug and play' installation
- › Amongst the most quiet units in the market (63dBA - sound power)
- › Single phase power supply and low starting currents make the unit ideal for residential applications
- › Weight reduced with 20% compared with the previous models.
- › Built-in Hydraulic kit: no buffer tank required, standard inverter driven pump, main flow sensor and switch included.
- › Standard wired remote control enables setting of different set points (cooling, heating, water leaving temperature) or based on outdoor conditions (weather dependent control). It has an alarm history, night time noise reduction function and is language based.



EWAQ-BVP

EKRUMCL1



› More information
about EWAQ-BVP

Cooling Only			EWAQ-BVP	004	005	006	008
Space cooling	A Condition 35°C	Pdc	kW	4.00	4.93	5.88	7.95
	ηs,c		%	172	173	174	178
SEER				4.38	4.39	4.42	4.53
Cooling capacity	Nom.		kW	4.00 (1) / 4.01 (2)	4.93 (1) / 5.07 (2)	5.88 (1) / 6.07 (2)	7.95 (1) / 8.23 (2)
Power input	Cooling	Nom.	kW	1.27 (1) / 0.840 (2)	1.61 (1) / 1.12 (2)	1.87 (1) / 1.13 (2)	2.57 (1) / 1.65 (2)
Capacity control	Method			Variable (inverter)			
EER				3.14 (1) / 4.80 (2)	3.06 (1) / 4.51 (2)	3.15 (1) / 5.35 (2)	3.10 (1) / 4.99 (2)
ESEER				4.45	4.49	5.25	5.24
Dimensions	Unit	Height	mm	735			997
		Width	mm	1,090			1,160
		Depth	mm	350			380
Weight	Unit		kg	83			106
Water heat exchanger	Type			Brazed plate			
	Water volume		l	1			2
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and chromate coated waffle louvre fins			
Compressor	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins			
	Quantity			Hermetically sealed swing compressor			
Fan	Type			1			
	Quantity			Propeller fan			
	Air flow rate	Cooling	Nom.	m³/min	53		72 (1)
Sound power level	Cooling	Nom.		dBA	63 (1)	64 (1)	69 (1)
Sound pressure level	Cooling	Nom.		dBA	48	49	52
Operation range	Air side	Cooling	Min.-Max.	°CDB	10~43	5~22	10~46
	Water side	Cooling	Min.-Max.	°CDB			
Refrigerant	Type/GWP			R-410A/2,088			R-410A/2,087.5
	Control				Electronic expansion valve		
	Circuits	Quantity			1		
Refrigerant charge	Per circuit		kg	2.10			2.70
	Per circuit		TCO2Eq	4.4			5.6
Water circuit	Piping connections diameter		inch		1" MBSP		
Unit	Starting current Max		A	15.7			19.9
	Running current Max		A	15.7			19.9
Power supply	Phase/Frequency/Voltage		Hz/V		1N~50/230		

(1)Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C | (2)Cooling: entering evaporator water temp. 23°C; leaving evaporator water temp. 18°C

Air cooled mini inverter chiller

- › Inverter technology to ensure low sound values and leader-of-class ESEER
- › Wide operating range
- › Built-in hydronic module: no buffer tank required and a standard pump and main switch are included
- › Easy, plug and play' installation
- › Single phase power supply for residential applications, three phase power supply model available for light commercial applications



› More information
about EWAQ-ACW1



› More information
about EWAQ-ACV3



Cooling Only			EWAQ	009ACV3	010ACV3	011ACV3	009ACW1	011ACW1	013ACW1
Space cooling	A Condition 35°C	Pdc	kW	8.49	9.89	11.2	8.75	11.0	13.2
	ηs,c		%	162	169	171	155		163
SEER				4.13	4.29	4.35	3.94	4.16	4.15
Cooling capacity	Nom.		kW	12.2 (1) / 8.60 (2)	13.6 (1) / 9.60 (2)	15.7 (1) / 11.1 (2)	12.9 (1) / 9.10 (2)	15.7 (1) / 11.1 (2)	17.0 (1) / 13.3 (2)
Power input	Cooling	Nom.	kW	2.85 (1) / 2.83 (2)	3.41 (1) / 3.28 (2)	4.13 (1) / 3.90 (2)	3.08 (1) / 3.05 (2)	4.13 (1) / 3.90 (2)	5.52 (1) / 5.18 (2)
Capacity control	Method					Variable (inverter)			
EER				4.27 (1) / 3.05 (2)	4.00 (1) / 2.93 (2)	3.79 (1) / 2.85 (2)	4.19 (1) / 2.99 (2)	3.79 (1) / 2.85 (2)	3.08 (1) / 2.57 (2)
ESEER				4.31	4.30	4.33	4.43	4.44	4.36
Dimensions	Unit	Height	mm				1,435		
		Width	mm				1,420		
		Depth	mm				382		
Weight	Unit		kg				168		
Water heat exchanger	Type					Brazed plate			
	Water volume		l			1.01			
Air heat exchanger	Type					Hi-XSS			
Compressor	Type					Hermetically sealed scroll compressor			
	Quantity					1			
Fan	Type					Propeller fan			
	Quantity					2			
	Air flow rate	Cooling	Nom.	m³/min	96.0	100	97.0	96.0	100
Sound power level	Cooling	Nom.		dBA			64		66
Sound pressure level	Cooling	Nom.		dBA			51		52
Operation range	Air side	Cooling	Min.-Max.	°CDB			10~46		
	Water side	Cooling	Min.-Max.	°CDB			5~20		
Refrigerant	Type/GWP					R-410A/2,087.5			
	Control					Electronic expansion valve			
	Circuits	Quantity				1.00			
Refrigerant charge	Per circuit		kg			2.95			
	Per circuit		TCO2Eq			6.16			
Water circuit	Piping connections diameter		inch			G 5/4" (female)			
	Piping		inch			5/4"			
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230			3N~/50/400	

(1)Underfloor program: cooling Ta 35°C - LWE 18°C (Dt: 5°C) | (2)Fan coil program: cooling Ta 35°C - LWE 7°C (Dt: 5°C)

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



› More information about EWAQ-CWN



› More information about EWAQ-CWP



Cooling Only		EWAQ-CWN/CWP	016	021	025	032	040	050	064		
Space cooling	A Condition 35°C Pdc	kW	16.8(1)/17.0(2)	21.0(1)/21.2(2)	25.3(1)/25.5(2)	31.6(1)/31.8(2)	42.1(1)/42.3(2)	50.5(1)/50.7(2)	63.2(1)/63.4(2)		
	ηs,c	%	168(1)/184(2)	163(1)/178(2)	165(1)/180(2)	154(1)/163(2)	164(1)/168(2)	165(1)/172(2)	154(1)/161(2)		
Cooling capacity	Nom.	kW	16.8(1)/17.0(2)	21.0(1)/21.2(2)	25.3(1)/25.5(2)	31.6(1)/31.8(2)	42.1(1)/42.3(2)	50.5(1)/50.7(2)	63.2(1)/63.3(2)		
Power input	Cooling Nom.	kW	5.93(1)/5.81(2)	7.61(1)/7.47(2)	9.60(1)/9.45(2)	12.9(1)/12.7(2)	15.1	19.2(1)/19.0(2)	25.7(1)/25.5(2)		
Capacity control	Method		Inverter controlled						25		
	Minimum capacity	%									
EER			2.84(1)/2.93(2)	2.77(1)/2.84(2)	2.63(1)/2.70(2)	2.45(1)/2.50(2)	2.79(1)/2.80(2)	2.63(1)/2.67(2)	2.46(1)/2.48(2)		
ESEER			4.37(1)/4.85(2)	4.26(1)/4.70(2)	4.17(1)/4.57(2)	3.87(1)/4.10(2)	4.28(1)/4.40(2)	4.18(1)/4.36(2)	3.87(1)/4.05(2)		
Dimensions	Unit	Height	mm			1,684					
		Width	mm			1,370					
		Depth	mm			774					
Weight	Unit	kg	268(1)/280(2)			321(1)/332(2)	403(1)/414(2)	579(1)/604(2)	741(1)/765(2)		
Water heat exchanger	Type		Brazed plate								
	Water volume	l							9		
	Water pressure drop	Cooling Total	kPa	8	10	14	8	10	14		
Air heat exchanger	Type		Air cooled coil								
Compressor	Type		Hermetically sealed scroll compressor								
	Quantity		1	2	3	4	4	6			
Fan	Type		Axial								
	Quantity		1	1	2	2	4	4			
	Air flow rate	Cooling Nom.	m³/min	171	185	233	370	466			
Sound power level	Cooling	Nom.	dBA			78	80	81	83		
Operation range	Air side	Cooling Min.-Max.	°CDB	-5~43							
	Water side	Cooling Min.-Max.	°CDB	-10~20							
Refrigerant	Type/GWP		R-410A/2,087.5								
	Control		Electronic expansion valve								
	Circuits	Quantity		1	1	2	2	2			
Refrigerant charge	Per circuit	kg		7.60	9.60	7.60	9.60	9.60			
	Per circuit	TCO2Eq		15.9	20.0	15.9	20.0	20.0			
Water circuit	Piping connections diameter	inch		1-1/4" (female)		2" (female)		1-1/2"			
	Piping	inch		1-1/4"							
Unit	Starting current Max	A	0.0	77.7	78.7	88.7	99.8	101.9	120.7		
	Running current Max	A	22.2	25.3	26.4	35.2	47.4	49.6	67.2		
Power supply	Phase/Frequency/Voltage	Hz/V		3N~/50/400							

(1) EWAQ-CWN: Version without pump. (2) EWAQ-CWP: Version with pump.



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

- › Single refrigerant circuit (2 scroll compressors) with single evaporator
- › Compact design
- › Micro channel heat exchanger technology reduces the amount of refrigerant used in the system, lowering environmental impact
- › Partial and total heat recovery option available
- › Stainless steel plate heat exchanger
- › MicroTech III controller with superior control logic and easy interface

› More information
about EWAQ-G-SS



Cooling Only			EWAQ-G-SS	075	085	100	110	120	140	155
Space cooling	A Condition 35°C	Pdc	kW	74.7	84.2	96.7	106.7	116.9	139.4	154.4
	ηs,c		%	149.8	153.6	160.9	157.7	157.2	158.2	150.1
SEER				3.8	3.9	4.1		4.0		3.8
Cooling capacity	Nom.		kW	74.69	84.16	96.67	106.70	116.90	139.40	154.40
Power input	Cooling	Nom.	kW	27.7	31.2	35.0	39.5	43.4	51.1	57.2
Capacity control	Method						Staged			
	Minimum capacity		%	50	44	50	44	50	43	50
EER				2.698		2.762	2.699	2.696	2.728	2.698
ESEER				4.11	4.23	4.04	4.12	3.91	4.20	4.06
IPLV				4.79	4.97	4.78	4.86	4.66	4.92	4.78
Dimensions	Unit	Height	mm				1,800			
		Width	mm				1,195			
		Depth	mm	2,140		2,680			3,200	
Weight	Unit		kg	681	792	923	953	982	1,037	1,066
	Operation weight		kg	692	802	934	963	993	1,054	1,085
Water heat exchanger	Type			Brazed plate heat exchanger						
	Water volume		l	5.60		4.90		5.60	8.10	9.40
	Waterflow rate	Cooling	Nom.	l/s	3.6	4.0	4.6	5.1	5.6	6.7
	Water pressure drop	Cooling	Nom.	kPa	15.5	27.3	36.9	31.6	36.0	27.5
Air heat exchanger	Type			Microchannel						
Compressor	Type			Driven vapour compression						
	Quantity			2						
Fan	Type			Direct propeller						
	Quantity			4		6			8	
	Air flow rate	Nom.	l/s	6,017.0	6,444.0		9,029.0		12,008.0	
	Speed		rpm				1,360			
Sound power level	Cooling	Nom.	dBA	83.0	85.0	87.0			89.0	
Sound pressure level	Cooling	Nom.	dBA	66.0	68.0	69.0			71.0	
Operation range	Air side	Cooling	Min.-Max.	°CDB			-10~42			
	Water side	Cooling	Min.-Max.	°CDB			-10~15			
Refrigerant	Type/GWP			R-410A/2,088.0						
	Circuits	Quantity		1						
Refrigerant charge	Per circuit		kg	8.5	10.4	10.7	11.5	12.9	14.1	13.4
Piping connections	Evaporator water inlet/outlet (OD)			2" 1/2						
Unit	Starting current	Max	A	211	262	270	317	325	365	379
	Running current	Cooling Nom.	A	54	58	62	70	79	89	102
	current	Max	A	68	74	81	89	97	114	129
Power supply	Phase/Frequency/Voltage			3~/50/400						

Air cooled multi-scroll chiller, standard efficiency, reduced sound



EWAQ-G-SS/SR

MicroTech III



› More information
about EWAQ-G-SR

Cooling Only			EWAQ-G-SR	075	085	100	110	120	140	155
Space cooling	A Condition 35°C	Pdc	kW	69.3	78.9	91.0	99.7	108.6	130.4	143.4
	ηs,c		%	149.0	149.9	156.7	152.4	151.5	153.8	150.6
SEER				3.8		4.0		3.9		3.8
Cooling capacity	Nom.		kW	69.33	78.85	90.96	99.68	108.60	130.40	143.40
Power input	Cooling	Nom.	kW	29.4	33.1	36.8	42.0	46.3	54.0	61.2
Capacity control	Method						Staged			
	Minimum capacity		%	50	44	50	44	50	43	50
EER				2.358	2.383	2.470	2.376	2.347	2.416	2.343
ESEER				3.94	4.12	3.94	4.02	3.74	4.12	3.88
IPLV				4.67	4.85	4.71	4.78	4.50	4.85	4.61
Dimensions	Unit	Height	mm				1,800			
		Width	mm				1,195			
		Depth	mm	2,140		2,680			3,200	
Weight	Unit	kg	kg	711	822	953	983	1,012	1,067	1,096
	Operation weight	kg	kg	722	832	964	993	1,023	1,084	1,115
Water heat exchanger	Type						Braze plate heat exchanger			
	Water volume	l	l	5.58		4.86		5.60	8.10	9.36
	Water flow rate	Cooling	Nom.	l/s	3.3	3.8	4.4	4.8	5.2	6.2
	Water pressure drop	Cooling	Nom.	kPa	13.3	24.0	32.6	27.6	31.1	24.1
Air heat exchanger	Type						Microchannel			
Compressor	Type						Driven vapour compression			
	Quantity						2			
Fan	Type						Direct propeller			
	Quantity				4		6		8	
	Air flow rate	Nom.	l/s	4,523.0	5,046.0		6,787.0		9,023.0	
	Speed	rpm					1,108			
Sound power level	Cooling	Nom.	dBA	79.0	82.0	84.0			86.0	
Sound pressure level	Cooling	Nom.	dBA	62.0	65.0	66.0			68.0	
Operation range	Air side	Cooling	Min.-Max.	°CDB			-10~42			
	Water side	Cooling	Min.-Max.	°CDB			-10~15			
Refrigerant	Type/GWP						R-410A/2,088.0			
	Circuits	Quantity					1			
Refrigerant charge	Per circuit	kg	kg	8.5	10.4	10.7	11.5	12.9	14.1	13.4
Piping connections	Evaporator water inlet/outlet (OD)						2" 1/2			
Unit	Starting current	Max	A	211	262	270	317	325	365	379
	Running current	Cooling Nom.	A	57	61	65	74	84	93	109
	current	Max	A	68	74	81	89	97	114	129
Power supply	Phase/Frequency/Voltage	Hz/V					3~/50/400			

Air cooled multi-scroll chiller, high efficiency, standard sound

- › Single refrigerant circuit (2 scroll compressors) with single evaporator
- › Compact design
- › Micro channel heat exchanger technology reduces the amount of refrigerant used in the system, lowering environmental impact
- › Partial and total heat recovery option available
- › Stainless steel plate heat exchanger
- › MicroTech III controller with superior control logic and easy interface

› More information
about EWAQ-G-XS



			EWAQ-G-XS	080	090	105	115	130	150
Space cooling	A Condition 35°C	Pdc	kW	79.8	90.3	105.3	116.8	130.0	149.0
	ηs,c		%	155.0	164.5	167.2	166.0	169.6	165.4
SEER				4.0	4.2	4.3	4.2	4.3	4.2
Cooling capacity	Nom.		kW	79.79	90.26	105.30	116.80	130.00	149.00
Power input	Cooling	Nom.	kW	25.8	29.0	33.8	37.7	42.3	48.1
Capacity control	Method						Staged		
	Minimum capacity		%	50	44	50	44	50	43
EER				3.099	3.108	3.121	3.099	3.100	3.099
ESEER				4.20	4.30	4.28	4.34	4.22	4.36
IPLV				4.82	5.04	4.96	5.02	4.92	5.05
Dimensions	Unit	Height	mm			1,800			1,820
		Width	mm				1,195		
		Depth	mm	2,680		3,200			3,800
Weight	Unit		kg	734	850	987	1,024	1,086	1,123
	Operation weight		kg	744	860	1,002	1,040	1,102	1,144
Water heat exchanger	Type					Braze plate heat exchanger			
	Water volume		l	5.58		4.86		5.60	8.10
	Waterflow rate	Cooling	Nom.	l/s	3.8	4.3	5.0	5.6	6.3
	Water pressure drop	Cooling	Nom.	kPa	25.7	32.7	20.3	19.9	25.4
Air heat exchanger	Type					Microchannel			
Compressor	Type					Driven vapour compression			
	Quantity					2			
Fan	Type					Direct propeller			
	Quantity				6	8		10	
	Air flow rate	Nom.	l/s	9,029.0	9,498.0		12,008.0		15,046.0
	Speed		rpm			1,360			
Sound power level	Cooling	Nom.	dBA	84.0	85.0	87.0			89.0
Sound pressure level	Cooling	Nom.	dBA	66.0	68.0	69.0			71.0
Operation range	Air side	Cooling	Min.-Max.	°CDB			-10~45		
	Water side	Cooling	Min.-Max.	°CDB			-10~15		
Refrigerant	Type/GWP					R-410A/2,088.0			
	Circuits	Quantity				1			
Refrigerant charge	Per circuit		kg	9.1	12.7	13.1	13.2	16.1	15.0
Piping connections	Evaporator water inlet/outlet (OD)					2" 1/2			
Unit	Starting current	Max	A	213	264	272	319	329	367
	Running current	Cooling Nom.	A	52	56	61	69	76	87
	current	Max	A	70	75	83	91	101	116
Power supply	Phase/Frequency/Voltage		Hz/V			3~/50/400			

Air cooled multi-scroll chiller, high efficiency, reduced sound



EWAQ-G-XS/XR

MicroTech III



› More information
about EWAQ-G-XR

Cooling Only			EWAQ-G-XR	080	090	105	115	130	150
Space cooling	A Condition 35°C	Pdc	kW	76.0	86.0	100.3	110.5	124.8	140.8
	ηs,c		%	150.9	157.4	167.0	161.7	169.8	160.5
SEER				3.8	4.0	4.3	4.1	4.3	4.1
Cooling capacity	Nom.		kW	75.95	86.00	100.30	110.50	124.80	140.80
Power input	Cooling	Nom.	kW	26.4	29.9	34.7	39.0	43.3	49.8
Capacity control	Method						Staged		
	Minimum capacity	%		50	44	50	44		43
EER				2.877	2.875	2.894	2.832	2.880	2.825
ESEER				4.18	4.29	4.27	4.31	4.21	4.33
IPLV				4.85	4.99	4.93	4.99	4.89	5.03
Dimensions	Unit	Height	mm			1,800			1,820
		Width	mm				1,195		
		Depth	mm	2,680		3,200			3,800
Weight	Unit	kg		764	880	1,017	1,054	1,116	1,153
	Operation weight	kg		774	890	1,032	1,070	1,132	1,174
Water heat exchanger	Type					Braze plate heat exchanger			
	Water volume	l		5.58		4.86		5.60	8.10
	Waterflow rate	Cooling	Nom.	l/s	3.6	4.1	4.8	5.3	6.0
	Water pressure drop	Cooling	Nom.	kPa	23.3	29.6	18.4	17.8	23.0
Air heat exchanger	Type					Microchannel			
Compressor	Type					Driven vapour compression			
	Quantity					2			
Fan	Type					Direct propeller			
	Quantity				6	8		10	
	Air flow rate	Nom.		l/s	6,787.0	7,356.0	9,023.0		11,309.0
	Speed			rpm			1,108		
Sound power level	Cooling	Nom.	dBA	80.0	82.0	84.0		86.0	
Sound pressure level	Cooling	Nom.	dBA	62.0	65.0	66.0	68.0		67.0
Operation range	Air side	Cooling	Min.-Max.	°CDB			-10~45		
	Water side	Cooling	Min.-Max.	°CDB			-10~15		
Refrigerant	Type/GWP					R-410A/2,088.0			
	Circuits	Quantity				1			
Refrigerant charge	Per circuit	kg		9.1	12.7	13.1	13.2	16.1	15.0
Piping connections	Evaporator water inlet/outlet (OD)					2" 1/2			
Unit	Starting current	Max	A	213	264	272	319	329	367
	Running current	Cooling	Nom.	A	54	58	63	71	78
		Max	A	70	75	83	91	101	116
Power supply	Phase/Frequency/Voltage	Hz/V				3~/50/400			

Air cooled multi-scroll chiller, high efficiency, standard sound

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› More information
about EWAQ-E-XS



› More information
about EWAQ-E-XL



			EWAQ-E-XS/XL	180	200	230	260	320	340
Space cooling	A Condition 35°C	Pdc	kW	177.6	199.9	226.1	262.7	314.7	334.2
	ηs,c		%	152.1	153.0	154.7	155.8	162.0	156.4
SEER					3.9		4.0	4.1	4.0
Cooling capacity	Nom.		kW	177.6	199.9	226.1	262.7	314.7	334.2
Power input	Cooling	Nom.	kW	58.01	65.35	73.82	86.18	103.00	109.70
Capacity control	Method						Staged		
	Minimum capacity (XS)	%		50	21	50	22		
	Minimum capacity (XL)	%		43	43	22	25	30	23
EER				3.062	3.058	3.063	3.048	3.055	3.047
ESEER				4.02	4.11	3.91	4.18	4.17	4.14
IPLV				4.50	4.68	4.51	4.83	4.76	4.66
Dimensions	Unit	Height	mm			2,271		2,447	2,271
		Width	mm				1,224		
		Depth	mm		4,413		5,313		6,213
Weight (XS)	Unit	kg		1,722	1,807	1,871	2,173	2,304	2,492
	Operation weight	kg		1,734	1,819	1,885	2,188	2,318	2,507
Weight (XL)	Unit	kg		1,876	1,965	2,032	2,370	2,507	2,705
	Operation weight	kg		1,889	1,978	2,047	2,385	2,522	2,719
Water heat exchanger	Type					Plate heat exchanger			
	Water volume	l			12			14	
	Water flow rate	Cooling	Nom.	l/s	8.5	9.6	10.8	12.6	15.1
	Water pressure drop	Cooling	Nom.	kPa	27.2	34.2	35.3	46.7	46.8
Air heat exchanger	Type					High efficiency fin and tube type			
Compressor	Type					Driven vapour compression			
	Quantity				2			3	
Fan	Type					Direct propeller			
	Quantity				4		5		6
	Air flow rate	Nom.		l/s	21,845	21,148	26,874	25,884	32,953
	Speed		rpm				900		32,065
Sound power level (XS)	Cooling	Nom.		dBA	93.0	94.0	96.0	95.0	96.0
Sound power level (XL)	Cooling	Nom.		dBA	91.0	92.0	93.0	92.0	93.0
Sound pressure level (XS)	Cooling	Nom.		dBA	75.0		76.0		77.0
Sound pressure level (XL)	Cooling	Nom.		dBA			73.0		74.0
Operation range	Air side	Cooling	Min.-Max.	°CDB			-18~52		
	Water side	Cooling	Min.-Max.	°CDB			-13~18		
Refrigerant	Type/GWP					R-410A/2,088.0			
	Circuits	Quantity				1			
Refrigerant charge	Per circuit		kg		28.0	31.0	34.0	27.0	40.0
Piping connections	Evaporator water inlet/outlet (OD)						3"		
Unit	Starting current	Max	A		445	557		576	639
	Running current	Cooling	Nom.	A	103	115		151	179
	Max		A		137	151		170	200
Power supply	Phase/Frequency/Voltage		Hz/V				3~/50/400		233
									248

Air cooled multi-scroll chiller, high efficiency, reduced sound



› More information
about EWAQ-E-XR

Cooling Only			EWAQ-E-XR	170	190	220	260	300	320
Space cooling	A Condition 35°C	Pdc	kW	172.1	193.5	219.2	253.6	302.3	322.1
	ηs,c		%	155.8		158.3		163.1	170.3
SEER					4.0		4.2	4.3	4.2
Cooling capacity	Nom.		kW	172.1	193.5	219.2	253.6	302.3	322.1
Power input	Cooling	Nom.	kW	56.49	64.44	71.63	85.48	102.30	109.50
Capacity control	Method						Staged		
	Minimum capacity		%	50	43	25	33	22	23
EER				3.047	3.003	3.059	2.967	2.956	2.941
ESEER				4.45	4.55	4.33	4.65	4.62	4.54
IPLV					5.09	4.90	5.04	5.07	5.14
Dimensions	Unit	Height	mm				2,271		
		Width	mm				1,224		
		Depth	mm		4,413		5,313		6,213
Weight	Unit		kg	1,970	2,064	2,134	2,489	2,632	2,840
	Operation weight		kg	1,982	2,076	2,148	2,503	2,647	2,855
Water heat exchanger	Type						Plate heat exchanger		
	Water volume		l		12			14	
	Water flow rate	Cooling	Nom.	l/s	8.2	9.3	10.5	12.1	14.5
	Water pressure drop	Cooling	Nom.	kPa	25.6	37.3	33.0 / 33	43.6	49.8
Air heat exchanger	Type						High efficiency fin and tube type		
Compressor	Type						Driven vapour compression		
	Quantity					2		3	
Fan	Type						Direct propeller		
	Quantity				4		5		6
	Air flow rate	Nom.	l/s	16,743	16,285	20,618	20,056	25,243	24,604
	Speed		rpm			705			
Sound power level	Cooling	Nom.	dBA	85.0	86.0	87.0	86.0	88.0	89.0
Sound pressure level	Cooling	Nom.	dBA	66.0	67.0	68.0	67.0	68.0	69.0
Operation range	Air side	Cooling	Min.-Max.	°CDB			-18~52		
	Water side	Cooling	Min.-Max.	°CDB			-13~18		
Refrigerant	Type/GWP						R-410A/2,088.0		
	Circuits	Quantity					1		
Refrigerant charge	Per circuit		kg	28.0	31.0	27.0	35.0	43.0	53.0
Piping connections	Evaporator water inlet/outlet (OD)					3"			
Unit	Starting current	Max	A	439	551		569	630	644
	Running current	Cooling	Nom.	A	101	113	126	150	178
		Max	A	131	145	162	193	224	239
Power supply	Phase/Frequency/Voltage			Hz/V			3~/50/400		

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› More information
about EWAQ-F-SL



› More information
about EWAQ-F-SS



		EWAQ-F-SS/SL		210	230	250	280	320	350	360	400	410	480	550	610
Space cooling	A Condition 35°C Pdc	kW	205.0	223.9	247.1	283.2	313.4	359.5	406.8	480.2	551.4	609.4			
	$\eta_{S,C}$	%	153.9	157.2	154.8	160.9	161.0	160.4	160.5	162.4	164.5	166.0	168.3	166.7	
SEER			3.9	4.0	3.9			4.1				4.2	4.3	4.2	
Cooling capacity	Nom.	kW	205.0	223.9	247.1	283.2	313.4	359.5	406.8	480.2	551.4	609.4			
Power input	Cooling Nom.	kW	73.34	84.87	93.58	108.70	121.60	141.10	153.90	186.90	206.60	228.90			
Capacity control	Method														Staged
	Minimum capacity (SS)	%	43	25	50	30	33	27	23	25	21	25	20		
	Minimum capacity (SL)	%	43	50		33		23	25	33	25	21	20		
EER			2.808	2.638	2.641	2.605	2.577	2.548	2.644	2.570	2.669	2.662			
ESEER			3.79	3.77	3.81	3.74	3.78	3.73	4.02	3.74	4.04	4.13	4.05	4.08	
IPLV			4.50	4.45	4.50	4.44	4.53	4.29	4.41	4.30	4.46	4.55	4.63	4.72	
Dimensions	Unit	Height	mm			2,271			2,221	2,447	2,397		2,221		
		Width	mm			1,224			2,258	1,224			2,258		
		Depth	mm	4,413		5,313		6,213	3,210	6,213	3,210	4,110		5,010	
Weight (SS)	Unit	kg	2,058	2,130	2,202	2,284	2,409	2,509	2,659	2,759	2,990	3,336	3,558		
	Operation weight	kg	2,070	2,142	2,216	2,298	2,424	2,524	2,699	2,799	3,036	3,382	3,604		
Weight (SL)	Unit	kg	2,297	2,373	2,449	2,535	2,666	2,766	2,968	3,068	3,315	3,679	3,912		
	Operation weight	kg	2,309	2,385	2,463	2,549	2,681	2,781	3,008	3,108	3,362	3,725	3,958		
Water heat exchanger	Type														Plate heat exchanger
	Water volume	l		12		14			40		46				
	Water flow rate	Cooling Nom.	l/s	9.9	10.7	11.8	13.6	15.0	17.2	19.5	23.0	26.4	29.2		
	Water pressure drop	Cooling Nom.	kPa	36.7	43.4	52.9	56.0	69.3	29.9	32.3	34.7	45.8	56.0		
Air heat exchanger	Type														High efficiency fin and tube type
Compressor	Type														Driven vapour compression
	Quantity								4					6	
Fan	Type														Direct propeller
	Quantity			4		5		6		8		10			
	Air flow rate Nom.	l/s	21,845	21,148	27,306	26,435	32,767	32,513	43,690	54,612	52,870				
	Speed	rpm					900								
Sound power level (SS)	Cooling Nom.	dBA	93.0	94.0	95.0				97.0						99.0
Sound power level (SL)	Cooling Nom.	dBA	91.0	92.0	93.0				94.0		95.0				96.0
Sound pressure level (SS)	Cooling Nom.	dBA	75.0		76.0		77.0		78.0						79.0
Sound pressure level (SL)	Cooling Nom.	dBA			73.0		74.0	75.0	74.0	75.0					76.0
Operation range	Air side Cooling Min.-Max.	°CDB							-18~52						
	Water side Cooling Min.-Max.	°CDB							-13~18						
Refrigerant	Type/GWP								R-410A/2,088.0						
	Circuits Quantity								2						
Refrigerant charge	Total	kg	28.0	31.0	33.0	40.0	46.0		54.0		56.0	65.0	80.0		
Piping connections	Evaporator water inlet/outlet (OD)				3"							4"			
Unit	Starting current Max	A	349	404	419	476	505	621	649	634	768	810			
	Running current Max	A	130	147	161	187	208	242	259	262	322	356	391		
Power supply	Phase/Frequency/Voltage	Hz/V						3~/50/400		383	433	474			

Air cooled multi-scroll chiller, standard efficiency, reduced sound



EWAQ-F-SS/SL/SR

MicroTech III

› More information
about EWAQ-F-SR



Cooling Only			EWAQ-F-SR	200	220	240	270	300	330	340	370	380	460	530	580
Space cooling	A Condition 35°C	Pdc	kW	197.0	213.9	234.0	270.4	297.7	341.1	383.3	455.9	527.3	579.9		
	ηs,c		%	151.1	150.7	150.8	151.7	152.9	153.3	153.0	154.1	156.5	163.0	162.8	164.6
SEER				3.9	3.8				3.9		4.0	4.1	4.2		
Cooling capacity	Nom.		kW	197.0	213.9	234.0	270.4	297.7	341.1	383.3	455.9	527.3	579.9		
Power input	Cooling	Nom.	kW	73.37	85.97	95.61	110.20	124.00	143.00	158.80	191.10	208.20	232.80		
Capacity control	Method														
	Minimum capacity		%	21	50	25	33	22	25	33	23	25	21	20	
EER				2.698	2.488	2.458	2.454	2.382	2.369	2.414	2.386	2.532	2.491		
ESEER				4.27	4.20	4.13	4.16	4.08	4.10	4.27	4.03	4.16	4.53	4.49	4.43
IPLV				4.96	4.89	4.82	4.92	4.85	4.71	4.86	4.61	4.73	5.09	5.00	4.93
Dimensions	Unit	Height	mm			2,271			2,221	2,447	2,397		2,221		
		Width	mm				1,224			2,258	1,224		2,258		
		Depth	mm		4,413		5,313	6,213	3,210	6,213	3,210	4,110		5,010	
Weight	Unit		kg	2,412		2,491	2,571	2,661	2,799	2,899	3,116	3,216	3,481	3,863	4,108
	Operation weight		kg	2,424		2,504	2,585	2,676	2,814	2,914	3,156	3,256	3,527	3,909	4,154
Water heat exchanger	Type								Plate heat exchanger						
	Water volume		l		12			14		40		46			
	Waterflow rate	Cooling	Nom.	l/s	9.5	10.2	11.3	13.0	14.3	16.3		18.3	21.8	25.2	27.8
	Water pressure drop	Cooling	Nom.	kPa	33.9	39.6	47.8	51.0	62.5	26.9		28.7	31.2	41.8	50.7
Air heat exchanger	Type								High efficiency fin and tube type						
Compressor	Type								Driven vapour compression						
	Quantity								4			6			
Fan	Type								Direct propeller						
	Quantity					4		5		6		8		10	
	Air flowrate	Nom.	l/s	16,743		16,285	20,929	20,356	25,115		24,922		33,487	41,858	40,713
	Speed	rpm							705						
Sound power level	Cooling	Nom.	dBA	85.0	86.0		87.0		89.0		90.0		89.0	91.0	92.0
Sound pressure level	Cooling	Nom.	dBA	66.0	67.0		68.0		69.0		70.0		71.0	70.0	72.0
Operation range	Air side	Cooling	Min.-Max.						-18~52						
	Water side	Cooling	Min.-Max.	°CDB						-13~18					
Refrigerant	Type/GWP								R-410A/2,088.0						
	Circuits	Quantity							2						
Refrigerant charge	Total	kg		32.0		36.0	38.0	40.0	46.0		54.0		56.0	65.0	80.0
Piping connections	Evaporator water inlet/outlet (OD)					3"						4"			
Unit	Starting current	Max	A	344	398	414	469	498	613		641		623	754	796
	Running current	Cooling Nom.	A	129	149	164	189	214	247		270		328	359	398
	current	Max	A	155	170	186	218	247	277		305		372	419	460
Power supply	Phase/Frequency/Voltage		Hz/V						3~/50/400						

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› More information
about EWAQ-F-XS



› More information
about EWAQ-F-XL



Cooling Only			EWAQ-F-XS/XL	170	200	220	250	310	320	350	360	400	430	450	520	610	680	
Space cooling	A Condition 35°C	Pdc	kW	170.4	194.5	220.4	244.5	315.9	355.9	402.0	428.2	456.7	527.5	606.6	672.3			
		ηs,c	%	163.4	157.4	157.0	162.8	163.6	166.6	160.4	166.2	168.2	171.2	171.6	168.1	168.0		
SEER				4.2	4.0	4.1	4.2	4.1	4.2	4.3	4.4	4.4	4.4	4.4	4.3			
Cooling capacity	Nom.		kW	170.4	194.5	220.4	244.5	315.9	355.9	402.0	428.2	456.7	527.5	606.6	672.3			
Power input	Cooling	Nom.	kW	54.81	62.23	70.63	78.32	102.10	115.30	130.10	137.20	146.40	170.10	197.70	219.10			
Capacity control	Method																	
	Minimum capacity (XS)		%	25	21	50	22	27	23	25	33				25			
	Minimum capacity (XL)		%	25	43	25	22	33	27	33	27	23	25		21		25	
EER				3.108	3.125	3.120	3.122	3.094	3.087	3.097	3.122	3.120	3.101	3.069				
ESEER (XS)				3.90	4.10	3.95	4.08	4.04	4.30	4.05	4.33	4.24	4.27	4.23	4.35	4.30	4.23	
ESEER (XL)				3.86	4.06	3.90	4.04	4.00	4.30	4.01	4.33	4.19	4.22	4.18	4.30	4.25	4.18	
IPLV (XS)				4.56	4.76	4.67	4.70	4.67	4.60	4.64	4.80	4.72	4.65	4.61	4.95	4.82	4.68	
IPLV (XL)				4.51	4.71	4.60	4.66	4.61	4.60	4.58	4.80	4.66	4.60	4.55	4.90	4.77	4.62	
Dimensions	Unit	Height	mm			2,271		2,221	2,271						2,221			
		Width	mm			1,224		2,258	1,224						2,258			
		Depth	mm		4,413	5,313		6,213	3,210	6,213	3,210		4,110		5,010	5,910		
Weight (XS)	Unit	kg	1,688	1,958	2,210	2,339		2,500	2,600	2,632	2,732	2,744	2,845	2,861	3,569	3,667	4,054	
	Operation weight	kg	1,700	1,973	2,225	2,353		2,514	2,672	2,772	2,784	2,891	2,907	3,615	3,727	4,115		
Weight (XL)	Unit	kg	1,921	2,193	2,457	2,592		2,761	2,861	2,900	3,000	3,017	3,124	3,141	3,923	4,026	4,434	
	Operation weight	kg	1,909	2,207	2,472	2,607		2,776	2,876	2,940	3,040	3,057	3,170	3,187	3,970	4,087	4,494	
Water heat exchanger	Type														Plate heat exchanger			
	Water volume	l	12			14				40					46		60	
	Water flow rate	Cooling	Nom.	l/s	8.2	9.3	10.5	11.7	15.1		17.0	19.3	20.5	21.8	25.3	29.0	32.2	
	Water pressure drop	Cooling	Nom.	kPa	25.1	26.6	33.5	42.1	22.2		23.3	30.5	28.6	29.6	41.1	44.1	55.2	
Air heat exchanger	Type														High efficiency fin and tube type			
Compressor	Type														Driven vapour compression			
	Quantity														4		6	
Fan	Type														Direct propeller			
	Quantity					4	5		6			8		10		12		
	Air flow rate	Nom.		l/s	21,845	21,148	26,874	25,204	31,722		30,245	42,296	40,326	50,408	60,489			
	Speed		rpm									900						
Sound power level (XS)	Cooling	Nom.		dBA	91.0	93.0	94.0	95.0		96.0		97.0		98.0		99.0	100.0	
Sound power level (XL)	Cooling	Nom.		dBA	90.0	91.0	92.0			93.0				95.0		96.0	97.0	
Sound pressure level (XS)	Cooling	Nom.		dBA	72.0	74.0	75.0	76.0	77.0	76.0	77.0	78.0	79.0	78.0		79.0		
Sound pressure level (XL)	Cooling	Nom.		dBA	71.0		73.0			74.0				75.0		76.0		
Operation range	Air side	Cooling	Min.-Max.	°CDB								-18~52						
	Water side	Cooling	Min.-Max.	°CDB								-13~18						
Refrigerant	Type/GWP											R-410A/2,088.0						
	Circuits	Quantity										2						
Refrigerant charge	Total		kg	28.0	31.0	33.0	40.0		52.0			62.0		74.0	72.0	83.0		
Piping connections	Evaporator water inlet/outlet (OD)					3"			4"	3"				4"				
Unit	Starting current	Max	A	281	338	353	408	480		509	629	643	657	642	768	818		
	Running current	Cooling Nom.	A	110	117	128	141	181		202	229	240	254	300	343	379		
	current	Max	A	138	149	164	180	229		258	294	308	322	391	433	482		
Power supply	Phase/Frequency/Voltage		Hz/V						3~/50/400									

Air cooled multi-scroll chiller, high efficiency, reduced sound



EWAQ-F-XS/XL/XR

MicroTech III



› More information
about EWAQ-F-XR

Cooling Only			EWAQ-F-XR	170	190	210	240	300	310	330	340	390	410	430	500	580	650		
Space cooling			A Condition 35°C Pdc	kW	165.4	187.9	211.4	235.8	304.2	339.9	385.1	407.1	432.6	502.3	579.4	645.1			
			ηs,c	%	160.5	163.1	162.6	160.8	163.4	166.0	166.7	166.9	164.6	166.4	164.7	166.2	167.1	166.1	
SEER					4.1	4.2	4.1					4.2			4.3	4.2			
Cooling capacity			Nom.	kW	165.4	187.9	211.4	235.8	304.2	339.9	385.1	407.1	432.6	502.3	579.4	645.1			
Power input			Cooling Nom.	kW	52.97	61.16	68.70	77.28	101.30	116.60	128.10	136.20	146.20	169.60	199.60	218.70			
Capacity control			Method																
			Minimum capacity	%	25	50		25		33	27	33	21		25				
EER					3.123	3.073	3.077	3.051	3.003	2.916	3.007	2.988	2.959	2.963	2.903	2.950			
ESEER					4.53	4.64	4.51	4.60	4.53	4.68	4.44	4.63	4.68	4.64	4.54	4.82	4.69	4.65	
IPLV					5.25	5.04	5.19	5.27	5.04	5.16	5.01	4.89	5.04	4.90	4.99	5.13	5.15	5.18	
Dimensions	Unit	Height		mm			2,271		2,221	2,271					2,221				
		Width		mm			1,224		2,258	1,224					2,258				
		Depth		mm	4,413		5,313		6,213	3,210	6,213	3,210		4,110		5,010	5,910		
Weight	Unit	kg		kg	2,004	2,303	2,580	2,722	2,900	3,000	3,045	3,145	3,168	3,280	3,298	4,120	4,228	4,655	
		Operation weight		kg	2,017	2,317	2,594	2,736	2,914	3,014	3,085	3,185	3,208	3,326	3,344	4,166	4,288	4,716	
Water heat exchanger			Type																
			Water volume	l	12		14		40		46		60						
			Waterflow rate	Cooling Nom.	l/s	7.9	9.0	10.1	11.3	14.5	16.3	18.4	19.5	20.7	24.0	27.7	30.9		
			Water pressure drop	Cooling Nom.	kPa	23.6	24.8	31.4	39.1	20.6	21.3	28.4	26.4	27.1	38.0	40.2	50.8		
Air heat exchanger			Type																
			Compressor																
			Type																
			Quantity																
Fan			Type																
			Quantity																
			Air flow rate	Nom.	l/s	16,743	16,285	20,618	19,522	24,428	23,426	32,570	31,235	39,044	46,852				
			Speed		rpm						705								
Sound power level			Cooling Nom.	dBA	83.0	84.0	85.0	86.0		87.0		89.0	90.0	89.0	90.0	92.0			
Sound pressure level			Cooling Nom.	dBA	64.0	65.0	66.0	67.0	68.0	67.0	68.0	69.0	70.0	69.0	70.0	71.0			
Operation range			Air side Cooling Min.-Max.	°CDB						-18~52									
			Water side Cooling Min.-Max.	°CDB						-13~18									
Refrigerant			Type/GWP							R-410A/2,088.0									
			Circuits	Quantity						2									
Refrigerant charge			Total	kg	28.0	31.0	33.0	40.0	48.0		52.0		62.0		70.0	72.0	83.0		
Piping connections			Evaporator water inlet/outlet (OD)						3"		4"	3"			4"				
Unit	Starting current	Max	A		276	332	346	401		472		501		618	632	646	628	754	801
	Running current	Cooling Nom.	A		107	116	125	139		180		204		226	239	255	300	347	380
Power supply			Phase/Frequency/Voltage	Hz/V							3~/50/400								

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

- › High efficiency with leader-of-class ESEER
- › Inverter stepless single-screw compressor
- › Highly efficient fans with patented blade profile for quiet operation
- › Extensive option list (heat recovery option available)
- › Wide operating range
- › Low starting current
- › MicroTech III controller with superior control logic and easy interface

› More information
about EWAD-CZXS



› More information
about EWAD-CZXL



Cooling Only			EWAD-CZXS/XL												
Space cooling	A Condition 35°C	Pdc	kW	734.12	828.54	898.15	C10	C11	C12	C13	C14	C15	C16	C17	C18
ηs,c		%	191	196.2	197	202.2	197.8	205.8	204.6	206.2	201.4	199.8	203	207.4	
SEER			4.85	4.98	5	5.13	5.02	5.22	5.19	5.23	5.11	5.07	5.15	5.26	
Cooling capacity	Nom.		kW	734.1	828.5	898.2	1,033	1,090	1,232	1,303	1,444	1,538	1,616	1,701	1,795
Power input	Cooling	Nom.	kW	238	269.5	309.2	343.3	379.9	404.3	446.6	493.7	538.4	564.3	595.9	618.7
Capacity control	Method			Variable											
	Minimum capacity	%		20											
EER			3.072	3.075	2.904	3.008	2.869	3.047	2.919	2.926	2.856	2.863	2.855	2.9	
ESEER			4.72	4.89	4.88	4.91		4.7	4.51	4.73	4.83	4.59	4.62	4.61	
IPLV			5.68	5.72	5.79	5.73	5.56	5.58	5.45	5.61	5.75	5.65	5.46	5.29	
Dimensions	Unit	Height	mm	2,540											
		Width	mm	2,285											
		Depth	mm	7,625		8,525		10,325		11,625		12,525		13,425	14,325
Weight (XS)	Unit	kg	6,000	6,620	6,870	7,440	8,570	8,970	9,600	9,940	11,370	12,190	12,920		
	Operation weight	kg	6,250	6,860	7,110	7,880	8,960	9,360	9,980	10,320	12,220	13,040	13,790		
Weight (XL)	Unit	kg	6,280	6,900	7,150	7,720	8,850	9,250	9,880	10,220	11,790	12,610	13,340		
	Operation weight	kg	6,530	7,140	7,390	8,160	9,240	9,640	10,260	10,600	12,640	13,460	14,210		
Water heat exchanger	Type			Shell and tube											
	Water volume	l	248	241		441	383		374		850		871		
	Water flow rate	Cooling	Nom.	l/s	35.2	39.7	43	49.5	52.3	59	62.4	69.2	73.7	77.4	81.5
	Water pressure drop	Cooling	Nom.	kPa	82.7	58.2	64.6	63.2	70.3	47	52.1	61.9	71.9	62.8	69.1
Air heat exchanger	Type			High efficiency fin and tube type											
Compressor	Type			Driven vapour compression											
	Quantity			2											
Fan	Type			Direct propeller											
	Quantity		12	14		16	20	22	24		26		28		
	Air flow rate	Nom.	l/s	65,026	75,863		86,701	108,376	119,214	130,051	129,455	140,143	151,130		
	Speed		rpm	900											
Sound power level (XS)	Cooling	Nom.	dBA	102	103		104						106		
Sound power level (XL)	Cooling	Nom.	dBA	99	100		101						103		
Sound pressure level (XS)	Cooling	Nom.	dBA			81							83		
Sound pressure level (XL)	Cooling	Nom.	dBA			78							80		
Operation range	Air side	Cooling	Min.~Max.	°CDB			-18~50								
	Water side	Cooling	Min.~Max.	°CDB			-8~15								
Refrigerant	Type/GWP			R-134a/1,430											
	Charge		kg	146	162		200	250	280	320	340	350			
	Circuits	Quantity		2											
Piping connections	Evaporator water inlet/outlet (OD)			219.1mm											
Unit	Starting current	Max	A	377	420	451	501	540	590	626	709	772	848	899	949
	Running current	Cooling Nom.	A	406	442	485	537	591	636	698	769	837	881	931	970
	current	Max	A	529	584	632	697	755	824	877	979	1,081	1,132	1,193	1,255
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400											

Air cooled screw inverter chiller, high efficiency, reduced sound



MicroTech III

EWAD-CZXS/XL/XR



› More information
about EWAD-CZXR

Cooling Only			EWAD-CZXR	700	790	850	980	C10	C11	C12	C13	C14	C15	C16	C17												
Space cooling	A Condition 35°C	Pdc	kW	696.24	785.91	848.82	972.4	1,027.02	1,166	1,231.01	1,327	1,437	1,539	1,624.03	1,706.04												
	ηs,c		%	195.4	209	195.4	214.2	195.4	219	202.2	206.2	199.8	211.4	214.6	220.2												
SEER				4.96	5.3	4.96	5.43	4.96	5.55	5.13	5.23	5.07	5.36	5.44	5.58												
Cooling capacity	Nom.		kW	696.2	785.9	848.8	972.4	1,027	1,166	1,231	1,327	1,437	1,539	1,624	1,706												
Power input	Cooling	Nom.	kW	245.7	274.4	317.8	351.4	392.9	411.8	458	492	523.4	585.5	616.7	638.1												
Capacity control	Method			Variable										13													
	Minimum capacity	%		20								13															
EER				2.833	2.864	2.671	2.768	2.613	2.831	2.681	2.692	2.745	2.628	2.634	2.673												
ESEER				5.23	5.39	5.36	5.41	5.11	5.15	4.8	5.12	5.22	5.1	4.83	4.77												
IPLV				6.14	6.32	6.37	6.34	6.05	5.96	5.67	6.03	6.21	6.17	5.89	5.85												
Dimensions	Unit	Height	mm	2,540																							
		Width	mm	2,285																							
		Depth	mm		7,625		8,525		10,325	11,625		12,525	13,425	14,325													
Weight	Unit		kg	6,470	7,100	7,360		7,950	9,120	9,530	10,180	10,530	12,150	12,990	13,740												
	Operation weight		kg	6,720	7,340	7,600		8,390	9,500	9,920	10,550	10,910	13,000	13,840	14,610												
Water heat exchanger	Type			Shell and tube																							
	Water volume	l	248	241			441			383			374		850												
	Water flow rate	Cooling	Nom.	l/s	33.4	37.6	40.7	46.6	49.2	55.8	58.9	63.6	68.8	73.7	77.8												
	Water pressure drop	Cooling	Nom.	kPa	76	53.9	59.4	57.8	63.8	43.2	47.6	56.5	65.8	57.3	63.2												
Air heat exchanger	Type			High efficiency fin and tube type																							
Compressor	Type			Driven vapour compression																							
	Quantity			2																							
Fan	Type			Direct propeller																							
	Quantity			12	14			16			20			24													
	Air flow rate	Nom.		l/s	49,843	58,151			66,458			83,072			99,687												
	Speed		rpm		700																						
Sound power level	Cooling	Nom.	dBA	95	96			97			99			99													
Sound pressure level	Cooling	Nom.	dBA		74																						
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~50																						
	Water side	Cooling	Min.~Max.	°CDB	-8~15																						
Refrigerant	Type/GWP				R-134a/1,430																						
	Charge		kg	146	162			200			250			280		320											
	Circuits	Quantity			2																						
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm																						
Unit	Starting current	Max	A	369	410	442	490	528	576	606	686	756	825	873	921												
	Running current	Cooling Nom.	A	416	449	498	549	610	647	709	782	859	912	960	998												
	current	Max	A	512	565	612	675	732	796	841	940	1,048	1,098	1,157	1,215												
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400																						

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
- › MicroTech III controller with superior control logic and easy interface



› More information
about EWAD-CFXL



› More information
about EWAD-CFXS

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)		
ESEER			3.44	3.52	3.78	3.50	3.74	3.54	3.88	3.78	4.01	3.96	3.85		
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	HeightxWidthxDepth	mm	2,565 x2,480 x6,300	2,565 x2,480 x7,200	2,565x2,480x8,100		2,565 x2,480 x9,000			2,565x2,480x10,800				
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					-8~15							
Refrigerant	Type/GWP			R-134a/1,430											
	Circuits	Quantity		2											
Refrigerant charge		kg/TCO ₂ Eq	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)			DN150PN16(168.3mm)				DN200PN16(219.1mm)				DN250PN16(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	
	current	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, high efficiency, reduced sound



› More information
about EWAD-CFXR

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)	
ESEER			3.59	3.66	3.89	3.62	3.83	3.63	4.13	3.89	4.09	4.02	3.92	
IPLV			4.09	4.15	4.16	4.20	4.10	4.08	4.42	4.37	4.42	4.28		
Dimensions	Unit	HeightxWidthxDepth	mm	2,565x2,480 x6,300	2,565x2,480 x7,200	2,565x2,480 x8,100	2,565x2,480 x9,000	2,565x2,480 x9,000					2,565x2,480 x10,800	
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)	
	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					-8~15							
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)				DN150PN16(168.3mm)		DN200PN16(219.1mm)		DN250PN16(273mm)					
Unit	Starting current Max	A	598	611	648	912	960	1,016		1,059	1,072			
	Running current Max	A	411	439	473	526	580	647	645	717	738	800	862	
	Power supply Phase/Frequency/Voltage	Hz/V				3~/50/400				847		901	954	

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

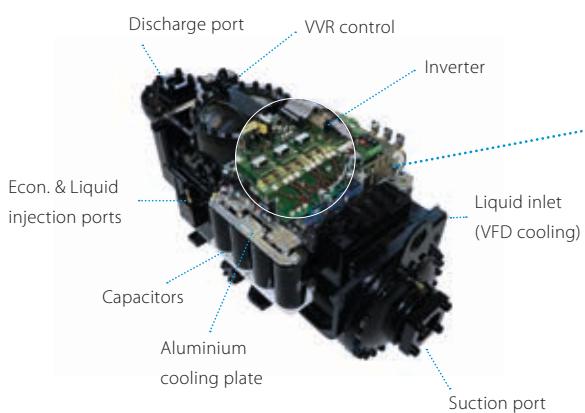
(2) Data is calculated at ambient air temperature 5°C, inlet water temperature 16°C.



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.

EWAD-TZB at a glance

- › Full inverter air cooled chiller
- › Capacity range from 170 up to 1,100 kW
- › Daikin single screw compressor with integrated inverter and variable volume ratio
- › Best efficiency at full load and part load conditions



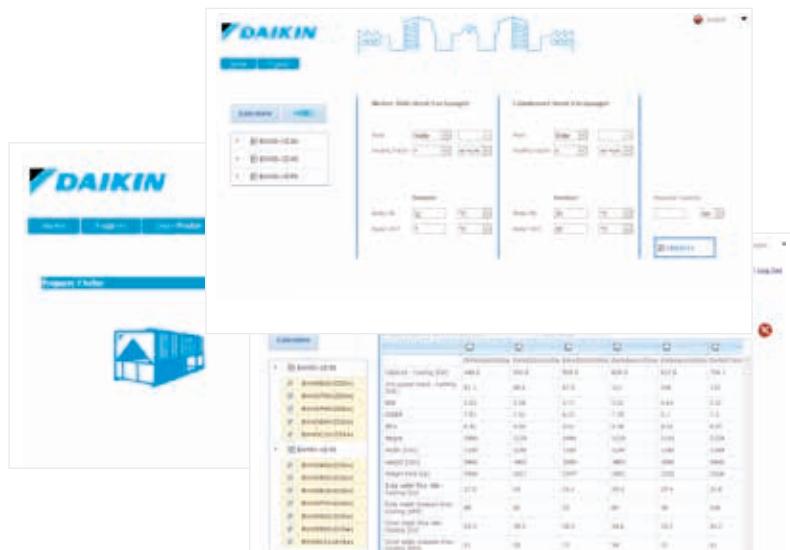
Web-based chiller selection software

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/>



Why choose EWAD-TZB?

High efficiencies both at full load and part load: ESEER up to 5.5 & EER up to 3.6

- › Daikin compressor with in-built inverter and Variable Volume Ratio (VVR) 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 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

Unrivaled 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 EWAD-TZ B 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

Check on YouTube

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



Air cooled screw inverter chiller, standard efficiency, standard 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
- › One or two truly independent refrigerant circuits for outstanding reliability



› More information
about EWAD-TZSSB



Cooling Only			EWAD-TZSSB/SLB		160	190	240	270	300	360	380	450	495	570	610	660	700	820	900	990	C10	C11
Space cooling	A Condition 35°C	Pdc	kW	169.1	200.88	235.3	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	4.3	4.46	4.5	4.65	4.39	4.36	4.45	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	235.30	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	83.0	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	Method			Variable															10			
	Minimum capacity		%	37	31	34	29	25	24	16	17	16	14	13	12					10		
EER				299	2.874	2.835	2.989	2.817	2954	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	4.30	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	5.25	5.27	
Dimensions	Unit	Height	mm	2,483															2,482			
		Width	mm	2,283															2,258			
		Depth	mm	3,183															7,783			
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	6,382	7,027	7,382	7,660		
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	158	270	255	283	283	485	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															Microchannel			
Compressor	Type			Driven vapour compression															Driven vapour compression			
Fan	Type			1															2			
	Quantity			4															4			
	Air flow rate	Nom.	l/s	15,109	6															10		
	Speed	rpm		30,219															105			
Sound power level (SSB)	Cooling	Nom.	dBA	96															103			
Sound power level (SLB)	Cooling	Nom.	dBA	90	91	92	93			94			95	96	97			99		100.0		
Sound pressure level (SSB)	Cooling	Nom.	dBA	77															81			
Sound pressure level (SLB)	Cooling	Nom.	dBA	71	78															78		
Operation range	Air side	Cooling	Min.-Max.	°CDB	-18~47															-18~45		
	Water side	Cooling	Min.-Max.	°CDB	-8~18															-15~20		
Refrigerant	Type/GWP			R-134a/1,430.0															R-134a/1,430.0			
	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	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"															168.3 mm			
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															3~/50/400			

Air cooled screw inverter chiller, standard efficiency, reduced sound



› More information
about EWAD-TZSRB

Cooling Only			EWAD-TZSRB		160	190	240	270	300	360	380	450	495	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	394.01	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	4.34	4.43	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	Method			Variable																		
	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	2,483																		
		Width	mm	2,258																		
		Depth	mm	2,283	3,183	4,083	4,983	5,883	6,783	7,783	8,820	9,591	10,461									
Weight	Unit	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		
	Operation weight	kg	2,186	2,217	2,287	2,501	2,560	2,921	4,402	4,424	4,675	4,961	5,250	5,259	5,529	7,247	7,347	7,702	7,980	8,273		
Water heat exchanger	Type			Plate heat exchanger																		
	Water volume	l	20.25	26.1	37.35	26.1	37.35	49.5	158	164	158	270	255	283	485	453						
	Waterflow 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																		
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	-18~47																	-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"
Unit	Running current	Nom.	A	102	123	188	177	188	200	247	374	368	363	378	398	416	422	496	530	561	599	
	Max	A	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

- › 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)
- › Continuous fans speed modulation thanks to inverter driven fans to improve 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

› More information
about EWAD-TZXS



› More information
about EWAD-TZXLB



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	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
	ηs,c		%		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	Method				Variable																	
	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		2,483																2,482	
		Width	mm		2,258																	
		Depth	mm		3,183		4,083		4,983		5,883		6,783		7,683		7,783		8,820		9,591	10,461
Weight (XSB)	Unit	kg			2,362	2,409	2,421	2,770	4,292	4,602	4,800	5,072	5,425	6,677	6,777	7,132	7,410	7,703				
	Operation weight	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	6,777	7,132	7,410	7,703				
	Operation weight	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	33.5	37.5	42.4	34.3
Air heat exchanger	Type				Microchannel																	
Compressor	Type				Driven vapour compression												2					
Fan	Type				1												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	96.0	97.0	96.0	97.0	98.0		99		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	77.0				78		79.0				80			79				
Sound pressure level (XLB)	Cooling	Nom.		dBA	72				73		74		73		74			75				
Operation range	Air side	Cooling	Min.-Max.	°CDB	-18~50												-15~20					
	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		219.1 mm					
Unit	Running current	Cooling Nom.	A		110	113	186	192	225	231	371.0	383	392	390	387	395	394	451	469	500	537	
	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, high efficiency, reduced sound



EWAD-TZXSB/XLB/XRB

MicroTech III

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about EWAD-TZXRB



Cooling Only			EWAD-TZXRB	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	226.8	266.8	275.4	303.1	320.6	
Capacity control	Method			Variable																		
	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	3.29	3.156	3.243	3.215	3.092	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																	2,482		
		Width	mm																	2,258		
		Depth	mm																		3,183	
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																		
	Water volume		l	26.1	37.35	49.5														Shell and tube		
	Waterflow 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																		
Fan	Type			Direct propeller																		
	Quantity			6																		
	Air flow rate	Nom.	l/s	22,664																		
	Speed	rpm		700																		
Sound power level	Cooling	Nom.	dBA	88																		
Sound pressure level	Cooling	Nom.	dBA	68																		
Operation range	Air side	Cooling	Min.-Max.	°CDB	70																	
	Water side	Cooling	Min.-Max.	°CDB	-8~18																	
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																		
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"																		
Unit	Running current	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



› More information
about EWAD-TZPSB



› More information
about EWAD-TZPLB

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	183.6	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	219	241.4	245.8	249	249.4							
SEER				5.2	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	183.60	216.1	244.4	281.9	323.4	379	437.3	501.2	543	620	717	833	950						
Power input	Cooling	Nom.	kW	50.5	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	Method			Variable																		
	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	2,483								2,482										
		Width	mm	4,083								2,258										
		Depth	mm																			
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		49.50								307										
	Water flow rate	Cooling	Nom.	l/s	8.8	10.3	11.7	13.5	15.5	18.1	20.9	24	26	29.6	34.3	39.8						
	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						
Air heat exchanger	Type			Microchannel																		
Compressor	Type			Driven vapour compression																		
	Quantity			1								2										
Fan	Type			Direct propeller																		
	Quantity			8								12										
	Air flow rate	Nom.		l/s	29,610								14									
	Speed		rpm										16									
	Sound power level (PSB)	Cooling	Nom.	dBA	97.0								18									
	Sound power level (PLB)	Cooling	Nom.	dBA	91.0	92	91		92				20									
	Sound pressure level (PSB)	Cooling	Nom.	dBA	77.0								24									
	Sound pressure level (PLB)	Cooling	Nom.	dBA	71.0	72	71		72				26									
Operation range	Air side	Cooling	Min.-Max.	°CDB	-18~52																	
	Water side	Cooling	Min.-Max.	°CDB	-8~18																	
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"									
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, premium efficiency, reduced sound



› More information
about EWAD-TZPRB

Cooling Only			EWAD-TZPRB	190	220	240	290	300	350	420	495	550	620	720	820	950				
Space cooling			A Condition 35°C Pdc	kW	187.3	218.24	246.75	279.23	317.21	382.29	436.87	505.48	543.03	620.04	717	832.86	949.86			
			ηs,c	%	208.6	212.2	210.6	207	212.2	208.2	210.2	221	218.2	219.8	248.6	249.4	251			
SEER					5.29	5.38	5.34	5.25	5.38	5.28	5.33	5.6	5.53	5.57	6.29	6.31	6.35			
Cooling capacity			Nom.	kW	187.3	218.2	246.8	279.2	317.2	382.3	436.9	505.5	543	620	717	833	950			
Power input			Cooling Nom.	kW	50.48	60.72	68.74	83.42	95.88	105.1	125.3	139.7	151.3	178.5	182.2	220.2	252.4			
Capacity control			Method		Variable															
			Minimum capacity	%	34	29	34	29	27	19	20	17			10					
EER					3.71	3.594	3.59	3.347	3.308	3.637	3.486	3.618	3.59	3.473	3.935	3.783	3.764			
ESEER					5.55	5.52	5.27	5.16	5.2	5.32	5.21	5.38	5.5	5.42	5.59	5.54	5.55			
IPLV					6.49	6.35	6.23	6.07	6.04	6.3	6.27	6.47	6.53	6.47	6.73	6.6	6.64			
Dimensions	Unit	Height		mm	2,483								2,482							
		Width		mm	2,258															
		Depth		mm	4,083															
Weight	Unit	kg		kg	2,858	2,869	2,870	3,120	4,935	5,269	5,277	6,677	6,705	7,970	8,263	8,560				
		Operation weight		kg	2,908	2,919	2,920	3,170	5,190	5,524	5,532	6,927	6,955	8,220	8,513	8,810				
Water heat exchanger	Type	Plate heat exchanger														Shell and tube				
		Water volume														49.5				
		Waterflow rate														255				
Air heat exchanger	Type	Cooling Nom.		l/s	9	10.4	11.8	13.3	15.2	18.3	20.9	24.2	26	29.6	34.3	39.8	45.4			
		Water pressure drop		kg	10.6	11	13.4	17.1	21.5	20.4	26.4	33.2	19.8	24.9	24.2	31.7	28.9			
		Cooling Nom.																		
Air heat exchanger	Type	Microchannel																		
		Compressor														Driven vapour compression				
		Quantity														1				
Fan	Type	Direct propeller																		
		Quantity														8				
		Air flow rate		Nom.	l/s	29,610				37,013	43,369	50,423	57,826	64,879	72,282	79,336	86,738			
Sound power level	Cooling	Nom.		Speed	rpm	700														
		Nom.														95				
		dBA																		
Sound pressure level	Cooling	Nom.		dBA	87	88	87	88	89	90	94					69				
		dBA														73				
		Nom.														-18~55				
Operation range	Air side	Cooling		Min.-Max.	°CDB	-18~52														
		Water side														-8~18		-15~20		
		Nom.														R-134a/1,430				
Refrigerant	Type/GWP																			
		Charge														49		50		
		kg														51		58		
Refrigerant charge	Per circuit															77		86		
		TCO2Eq														94		105		
																114		130		
Piping connections	Evaporator water inlet/outlet (OD)															143		156		
		3"														4"		6"		
																168.3 mm		219.1mm		
Unit	Running current	Nom.		A	101	104	172	177	209	212	347	259	300	317	377	426				
		Max		A	126	144	162	188	218	246	285	324	352	436	437	512	577			
		Hz/V														3~/50/400				

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

- › 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
- › Advanced compressor and fans design that operate at very low sound levels
- › 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- › Extremely wide range from 290kW to over 2 MW
- › Optimised for use with R-134a
- › Large operation range (ambient temperature down to -18°C)
- › 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%
- › The Microchannel technology maximizes the heat exchange ensuring the highest performance with the minimum surface for the exchanger and a reduced quantity of refrigerant compared to Cu/Al condenser.
- › MicroTech III controller with superior control logic and easy interface

› More information
about EWAD-T-SSB



› More information
about EWAD-T-SLB



Cooling Only			EWAD-T-SSB/SLB	290	330	370	510	520	580	700	800	940	C10	H10	C11	H12	H13	H14	
Space cooling	A Condition 35°C	Pdc	kW	290.7	334.5	373.4	505.8	522.7	575.8	701.3	809.9	936.3	999.7	1,051.0	1,135.0	1,268.0	1,352.0	1,456.0	
	ηs,c		%	149.5	149.6	161.6	161.1	164.6	161.9	161.7	161.3	161.6	162.1	161.9	161.5	162.1	161.7		
SEER						3.8			4.1		4.2						4.1		
Cooling capacity	Nom.		kW	290.7	334.5	373.4	505.8	522.7	575.8	701.3	809.9	936.3	999.7	1,051	1,135	1,268	1,352	1,456	
Power input	Cooling	Nom.	kW	92.73	111.6	120.8	166.6	171	189.6	234.1	266.1	308.3	340.7	362.4	387.9	438.8	464.4	490.7	
Capacity control	Method																Fixed		
	Minimum capacity	%															12.5		
EER				3.135	2.996	3.09	3.037	3.057	3.036	2.996	3.043	3.037	2.934	2.903	2.928	2.89	2.913	2.969	
ESEER				3.86	3.73	3.74	3.87	3.95	4.05	3.87	3.89	3.82	3.89	3.74	3.77	3.79	3.8		
IPLV				4.48	4.38	4.37	4.83	5.38	5.49	4.93	4.55	4.69	4.61	4.41	4.46	4.5	4.53		
Dimensions	Unit	Height	mm														2,537		
		Width	mm														2,258		
		Depth	mm	3,230		4,130		5,030		5,976		6,876		7,776		8,676		9,576	
Weight	Unit		kg	3,061	4,104	4,724		4,860	5,527	5,525	5,858	6,229	6,520	6,780	8,084	8,426			
	Operation weight		kg	3,161	4,274	4,894		5,030	5,825	6,188	6,710	6,981	7,272	8,554	8,887				
Water heat exchanger	Type																Shell and tube		
	Water volume	l	89		181	164	170	164	298	300	330	481	461	492	470	461			
	Water flow rate	Cooling	Nom.	l/s	13.9	16	17.9	24.2	25	27.6	33.6	38.7	44.8	47.8	50.3	54.3	60.7	64.7	
	Water pressure drop	Cooling	Nom.	kPa	28.5	31.1	42	30.5	43.6	60.4	51.4	32.4	39.5	44.7	41.6	32.7	34.2	44.5	61.3
Air heat exchanger	Type																Microchannel		
Compressor	Type																Driven vapour compression		
	Quantity																2		
Fan	Type																Direct propeller, on/off fans		
	Quantity							6	8	10	12	14	16	18	20				
	Air flow rate	Nom.	l/s	33,129		44,172		55,214	66,257	77,300		88,343		99,386		110,429			
	Speed		rpm								900								
Sound power level (SSB)	Cooling	Nom.	dBA	98	98			101				102					103		
Sound power level (SLB)	Cooling	Nom.	dBA	98	94	95		97		96	97	98	97				98		
Sound pressure level (SSB)	Cooling	Nom.	dBA		78			81		83							84		
Sound pressure level (SLB)	Cooling	Nom.	dBA	78	74	75		77		79		80					79		
Operation range	Air side	Cooling	Min.-Max.	°CDB								-18~50							
	Water side	Cooling	Min.-Max.	°CDB								-8~18							
Refrigerant	Type/GWP											R-134a/1,430							
	Charge		kg	50	55	58	66	67	93.6		109.2		124.8		140.4		156		
	Circuits	Quantity										2							
Refrigerant charge	Per circuit		TCO2Eq	35.75	39.32	41.47	47.19	47.90	66.92		78.08		89.23		100.39		111.54		
Piping connections	Evaporator water inlet/outlet (OD)			114.3		139.7			6"				8"						
Unit	Starting current	Max	A	253	264	306	470	493	574	645	697	705	773	797	877	925	933		
	Running current	Cooling Nom.	A	76.76	94.25	195.63	144.71	148.11	171.97	370.76	422.34	486.54	534.13	572.46	610	692.46	727.9	763.34	
	current	Max	A	211	242	272	345	373	395	492	536	621	675	709	768	838	897	956	
Power supply	Phase/Frequency/Voltage		Hz/V									3~/50/400							

Air cooled screw inverter chiller, standard efficiency, reduced sound



› More information
about EWAD-T-SRB

Cooling Only			EWAD-T-SRB	700	800	940	C10	H10	C11	H12	H13	H14
Space cooling	A Condition 35°C	Pdc	kW	684.7	786.9	909.0	967.5	1,014.0	1,099.0	1,216.0	1,302.0	1,408.0
	ηs,c		%	161.3	161.1	161.0	161.2	161.3	161.1		161.2	
SEER								4.1				
Cooling capacity	Nom.		kW	684.7	786.9	909	967.5	1,014	1,099	1,216	1,302	1,408
Power input	Cooling	Nom.	kW	236.6	270.7	314.8	351.1	373	398	453.8	478.7	504.2
Capacity control	Method							Fixed				
	Minimum capacity	%						12.5				
EER				2.894	2.907	2.89	2.755	2.719	2.762	2.681	2.722	2.793
ESEER				3.89	3.9	3.85	3.79	3.73	3.76	3.75	3.77	3.81
IPLV				4.9	4.56	4.57	4.45	4.39	4.44	4.43		4.49
Dimensions	Unit	Height	mm					2,537				
		Width	mm					2,282				
		Depth	mm	5,976		6,876		7,776		8,676		9,576
Weight	Unit		kg	5,527	5,525		5,858	6,229	6,520	6,780	8,084	8,426
	Operation weight		kg	5,825		6,188		6,710	6,981	7,272	8,554	8,887
Water heat exchanger	Type						Shell and tube					
	Water volume	l	298	300		330	481	461	492	470	461	
	Water flow rate	Cooling	Nom.	l/s	32.8	37.6	43.5	46.3	48.5	52.6	58.2	62.3
	Water pressure drop	Cooling	Nom.	kPa	49.2	30.7	37.5	42.2	39	30.8	31.7	41.6
Air heat exchanger	Type						Microchannel					
Compressor	Type						Driven vapour compression					
	Quantity						2					
Fan	Type						Direct propeller, on/off fans					
	Quantity				12		14		16		18	20
	Air flow rate	Nom.		l/s	52,172		60,868		69,563		78,258	86,954
	Speed		rpm				760					
Sound power level	Cooling	Nom.		dBA		91		92			93	
Sound pressure level	Cooling	Nom.		dBA	73	74	73		74			
Operation range	Air side	Cooling	Min.-Max.	°CDB				-18~50				
	Water side	Cooling	Min.-Max.	°CDB				-8~18				
Refrigerant	Type/GWP						R-134a/1,430					
	Charge		kg	93.6		109.2		124.8		140.4		156
	Circuits	Quantity					2					
Refrigerant charge	Per circuit		TCO2Eq	66.92		78.08		89.23		100.39		111.54
Piping connections	Evaporator water inlet/outlet (OD)				6"			8"				
Unit	Starting current	Max	A	567	638	693	701	766	786	868	914	922
	Running current	Cooling Nom.	A	376.73	431.76	499.71	554.32	592.7	629.99	720.93	755.84	790.74
	Max		A	478	523	605	659	693	750	820	876	933
Power supply	Phase/Frequency/Voltage			Hz/V			3~/50/400					

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

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- › 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- › Extremely wide range from 290kW to over 2 MW
- › Optimised for use with R-134a
- › Large operation range (ambient temperature down to -18°C)
- › 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%
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- › MicroTech III controller with superior control logic and easy interface



› More information
about EWAD-T-XLB



› More information
about EWAD-T-XSB

Cooling Only			EWAD-T-XSB/XLB																		
			350	380	400	420	440	490	540	570	730	820	950	C10	H10	H11	C13	H13	C14		
Space cooling	A Condition 35°C	Pdc	kW	351.5	376.9	398.3	415.2	437.9	491.7	541.2	564.8	725.4	831.9	943.5	1,008.0	1,077.0	1,164.0	1,308.0	1,390.0	1,454.0	
	ηs,c		%	154.6	155.1	162.1	161.2	161.1	168.0	171.7	168.0	167.1	164.5	169.6	166.3	166.7	167.1	166.7	164.7		
SEER				3.9	4.0		4.1		4.3	4.4		4.3		4.2	4.3	4.2		4.3		4.2	
Cooling capacity	Nom.		kW	351.5	376.9	398.3	415.2	437.9	491.7	541.2	564.8	725.4	831.9	943.5	1,008.0	1,077.0	1,164.0	1,308.0	1,390.0	1,454.0	
Power input	Cooling	Nom.	kW	106.1	114.9	121.4	128.8	138.5	159.1	166.6	177.8	234.6	267.5	299.3	333.1	347.2	374.7	421.1	447.1	481.7	
Capacity control	Method																				
	Minimum capacity	%																			
EER				3.314	3.28	3.224	3.163	3.091	3.248	3.177	3.092	3.11	3.152	3.027	3.103	3.108	3.107	3.109	3.019		
ESEER				4.01	3.98	4.15	3.97	3.96	4.11	4.13	4.05	3.94	3.95	4.05	3.95	3.89	3.88	3.95	3.94	3.87	
IPLV				4.6	4.55	4.76	4.61	4.57	5.46	5.49	5.3	4.93	4.65	5.17	4.69	4.63	4.66	4.64	4.68	4.63	
Dimensions	Unit	Height	mm																		
		Width	mm																		
		Depth	mm	4,130		5,030		5,878		5,976		7,776		8,676		9,576		10,476			
Weight	Unit		kg	4,054	4,064		4,360		4,860	5,397	5,387	5,315	5,525	6,121	7,798	8,126	8,386	8,751	8,765		
	Operation weight		kg	4,224	4,234		4,530		5,030	5,567	5,557	5,604	5,825	6,451	8,259	8,587	8,878	9,232	9,235		
Water heat exchanger	Type																				
	Water volume	l	134	129		170		164	170	289	300		330		461	492	481	470			
	Water flow rate	Cooling	Nom.	l/s	16.8	18	19	19.8	20.9	23.5	25.9	27	34.7	39.8	45.1	48.3	51.6	55.8	62.6	66.5	69.6
	Water pressure drop	Cooling	Nom.	kPa	20.1	26.3	25.1	19.3	21.1	42.7	34.1	33.4	33	36.8	40.8	46	51.9	60.5	36.2	40.4	50.8
Air heat exchanger	Type																				
Compressor	Type																				
	Quantity																				
Fan	Type																				
	Quantity																				
	Air flow rate	Nom.	l/s	44,172		55,214		66,257		88,343	99,386	110,429		121,472							
	Speed	rpm																			
Sound power level (XSB)	Cooling	Nom.	dBA		98		101		99		100								101		
Sound power level (XLB)	Cooling	Nom.	dBA		95		97				98								99		
Sound pressure level (XSB)	Cooling	Nom.	dBA		78		81		82	81	82		81						82		
Sound pressure level (XLB)	Cooling	Nom.	dBA		75		77	79	80	79	80		79					80	79		
Operation range	Air side	Cooling	Min.-Max.	°CDB										-18~53							
	Water side	Cooling	Min.-Max.	°CDB										-8~18							
Refrigerant	Type/GWP													R-134a/1,430							
	Charge	kg	52	54	65		66		72		93.6		124.8		140.4		156		171.6		
	Circuits	Quantity												2							
Refrigerant charge	Per circuit		TCO2Eq	37.18	38.61	46.48		47.19		51.48		66.92		89.23		100.39		111.54		122.69	
Piping connections	Evaporator water inlet/outlet (OD)						139.7mm					6"		8"							
Unit	Starting current	Max	A	253	296	311	399	422	475	493	574	645	703	705	778	802	883	931	939		
	Running current	Cooling Nom.	A	174.8	97.83	114.97	114.79	129.16	147.79	141.98	158.14	372.87	424.09	471.71	521	546.1	584.5	662.5	699.2	749.6	
	current	Max	A	248	260	277	299	322.00	351	378	401	492	536	626	680	719	778	848	907	961	
Power supply	Phase/Frequency/Voltage		Hz/V											3~/50/400							

Air cooled screw inverter chiller, high efficiency, reduced sound



› More information
about EWAD-T-XRB

Cooling Only			EWAD-T-XRB	730	820	950	C10	H10	H11	C13	H13	C14
Space cooling	A Condition 35°C	Pdc	kW	707.6	807.8	922.1	982.4	1,053.0	1,164.0	1,273.0	1,355.0	1,412.0
	ηs,c		%	165.4	163.9	167.5	165.1	165.4	166.3	165.9	165.5	163.8
SEER				4.2	4.3				4.2			
Cooling capacity	Nom.		kW	707.6	807.8	922.1	982.4	1,053	1,164	1,273	1,355	1,412
Power input	Cooling	Nom.	kW	237.3	272.1	301.1	338.9	348	374.7	426.4	452	490.7
Capacity control	Method						Fixed					
	Minimum capacity	%					12.5					
EER				2.982	2.968	3.063	2.898	3.018	3.108	2.986	2.998	2.879
ESEER				3.94	3.87	4.07	3.85	3.91	3.89		3.96	3.88
IPLV				4.92	4.56	5.1	4.57	4.65	4.67	4.65	4.69	4.62
Dimensions	Unit	Height	mm				2,537					
		Width	mm				2,282					
		Depth	mm	5,976		7,776	8,676		9,576		10,476	
Weight	Unit		kg	5,315	5,525		6,121	7,798	8,126	8,386	8,751	8,765
	Operation weight		kg	5,604	5,825		6,451	8,259	8,587	8,878	9,232	9,235
Water heat exchanger	Type						Shell and tube					
	Water volume	l	289	300		330		461	492	481	470	
	Water flow rate	Cooling	Nom.	l/s	33.8	38.6	44.1	47	50.4	55.8	60.9	64.8
	Water pressure drop	Cooling	Nom.	kPa	31.6	34.9	39.2	43.9	49.8	60.5	34.4	38.5
Air heat exchanger	Type						Microchannel					
Compressor	Type						Driven vapour compression					
	Quantity						2					
Fan	Type						Direct propeller, on/off fans					
	Quantity				12		16	18	20		22	
	Air flow rate	Nom.		l/s	52,172		69,563	78,258	110,429	86,954		95,649
	Speed			rpm		760		900			760	
Sound power level	Cooling	Nom.		dBA	91		92			93		
Sound pressure level	Cooling	Nom.		dBA	73	74	73	74		73		74
Operation range	Air side	Cooling	Min.-Max.	°CDB				-18~53				
	Water side	Cooling	Min.-Max.	°CDB				-8~18				
Refrigerant	Type/GWP						R-134a/1,430					
	Charge			kg	93.6		124.8	140.4		156		171.6
	Circuits	Quantity					2					
Refrigerant charge	Per circuit		TCO2Eq		66.92		89.23	100.39		111.54		122.69
Piping connections	Evaporator water inlet/outlet (OD)				6"				8"			
Unit	Starting current	Max		A	567	638	696	701	769	802	871	917
	Running current	Cooling	Nom.	A	379.04	433.58	477.39	533.75	552.3	584.5	675.01	711.6
	current	Max		A	478	523	608	662	699	778	826	882
Power supply	Phase/Frequency/Voltage			Hz/V			3~/50/400					

New Daikin chiller range with inverter screw compressor and new ecological refrigerant



New EWAH-TZB and EWWH-VZ series with HFO R-1234ze(E) refrigerant

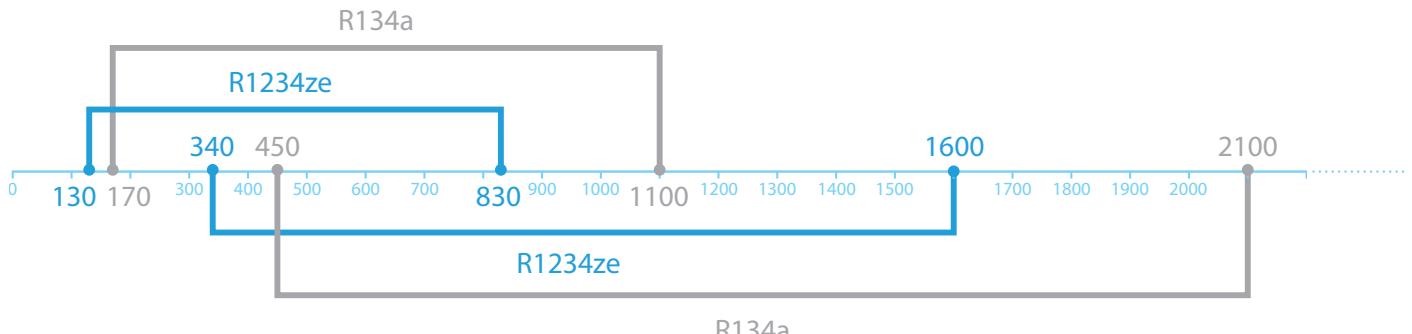


- 1 100% Daikin compressor
 - 2 Single Screw design
 - 3 Inverter technology
 - 4 Variable Volume Ratio
 - 5 Efficient
 - 6 Environmental friendly
 - 7 Long term solution
- ECODESIGN
 - F-GAS

High energy efficiency and wide capacity range



EWAH-TZB



EWWH-VZ

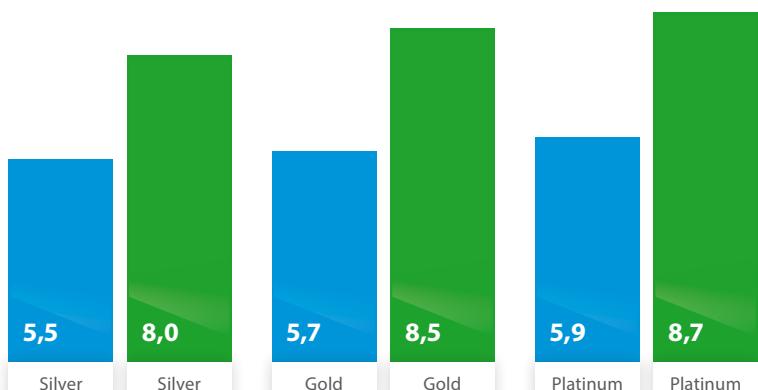
Efficiency (EER)



EWAH-TZB



EWWH-VZ



■ Full load efficiency

■ Part load efficiency

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

› More info
about EWAH-TZSSB



› More information
about EWAH-TZSLB



Cooling Only			EWAH-TZSSB/SLB												170	200	240	290	330	390	420	490	530	600	690	750	820	920	980	C10
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	689.86	746.17	820.93	914.93	982.38	1,063.28										
ηs,c		%	166.8	169.44	179.68	186.68	180.56	181.08	180.56	187.04	186.72	190.68	195.04	197.24	206.92	208.12	205.24	202.2												
SEER			4.245	4.311	4.567	4.742	4.589	4.602	4.589	4.751	4.743	4.842	4.951	5.006	5.248	5.278	5.206	5.13												
Cooling capacity	Nom.		kW	171	200	240	294	326	394	421	491	528	599	690	746	821	915	982	1,063											
Power input	Cooling	Nom.	kW	55.4	69.4	83.3	97.5	115	131	146	170	188	212	244	259	280	321	341	378											
Capacity control	Method			Variable												10														
	Minimum capacity	%	33.4	28.6	23.6	18.7	14.3	13.4	11.8	11.2																				
EER			3.08	2.88	2.89	3.02	2.82	2.99	2.88	2.8						2.82	2.87	2.93	2.85	2.88	2.81									
ESEER			4.45	4.52	4.75	4.56	4.55	4.51	4.6	4.57	4.74	4.7	4.91	4.85	4.83	4.81	4.99													
IPLV			5.19	5.22	5.5	5.73	5.52	5.18	5.16	5.4	5.31	5.41	5.66	5.62	5.72	5.7	5.81	5.86												
Dimensions	Unit	Height	mm	2,537																										
		Width	mm	2,258																										
		Depth	mm	2,283	3,183			4,983			5,883			6,783			7,776			8,676	9,576									
Weight	Unit		kg	2,160.6	2,170.6	2,449.4	2,559.4	4,170.2	4,634	5,619	6,820.8	6,942.8	7,262.2	7,553																
		Operation weight	kg	2,186.7	2,207.95	2,486.75	2,608.9	4,329.2	4,332.2	4,890	4,867	5,867	5,920	7,316.8	7,438.8	7,758.2	8,038	8,006												
Water heat exchanger	Type			Plate heat exchanger												Shell and tube														
	Water volume	l	26	37	50	159	153	256	233	248	301	496	485	453																
	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	33	35.6	39.2	43.7	47	50.8										
	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	34.4	26.3	31.2	38	45.7	34.7										
Air heat exchanger	Type			Microchannel																										
Compressor	Type			Driven vapour compression																										
	Quantity			1						2																				
Fan	Type			Direct propeller																										
	Quantity			4			6			10			12			14			16		18	20								
	Air flow rate	Nom.	l/s	17,448	26,172			43,620			52,344			61,068			69,792			78,516										
	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	104.17	104.19	105.02	106.46	107.18	107.89												
Sound power level (SLB)			dBA	91.73	92.13	94.69	96.44	95.32	97.69	99.9	99.44	99.51	99.57	99.46	100.8	101.49	102.16													
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	83.00	82.7	83.50	84.70	85.1	85.80												
Sound pressure level (SLB)			dBA	72.78	73.17	75.2	76.96	74.94	75.31	76.92	79.12	78.67	78.39	78.08	77.97	79.01	79.41	80.08												
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			116.8			131.2										
Piping connections	Circuits	Quantity			1			2			139.7mm			168.3mm			219.1mm													
Unit	Running current	Cooling Nom.	A	93.0	114.0	137.0	158.0	191.0	217.0	243.0	279.0	307.0	343.0	403.0	426.0	457.0	517.0	546.0	602.0											
	Max		A	132.0	156.0	217.0	236.0	272.0	312.0	348.0	434.0	500.0	522.0	606.0	690.0	589.0	661.0	706.0	754.0											
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400																									

Air cooled screw inverter chiller, standard efficiency, reduced sound



› More information
about EWAH-TZSRB

Cooling Only			EWAH-TZSRB																	
Space cooling	A Condition 35°C	Pdc	170	200	240	290	330	390	420	490	530	600	690	750	820	920	980	C10		
		kW	170.68	199.73	240.35	293.87	326.19	393.39	421.08	489.94	527.57	597.68	688.98	744.94	819.15	913.23	980.27	1,060.24		
	$\eta_{s,c}$	%	166.8	169.44	179.68	186.68	180.56	180.04	181.36	187.4	185.56	189.6	194.04	195.92	204	206.92	203.36	201.2		
SEER			4.245	4.311	4.567	4.742	4.589	4.576	4.609	4.76	4.714	4.815	4.926	4.973	5.175	5.248	5.159	5.105		
Cooling capacity	Nom.	kW	171	200	240	294	326	393	421	490	528	598	689	745	819	913	980	1,060		
Power input	Cooling	Nom.	55.4	69.4	83.3	97.5	115	132	146	171	189	214	245	261	281	323	343	380		
Capacity control	Method		Variable																	
	Minimum capacity	%	33.4	28.6	23.6	18.7	14.3	13.4	11.8	11.2	10	10.8	10							
EER			3.08	2.88	2.89	3.02	2.82	2.98	2.87	2.86	2.78	2.79	2.8	2.85	2.91	2.83	2.86	2.79		
ESEER			4.45	4.52	4.75	4.56	4.52	4.49	4.58	4.55	4.71	4.67	4.89	4.83	4.81	4.83	4.97			
IPLV			5.19	5.22	5.5	5.73	5.52	5.13	5.22	5.38	5.29	5.38	5.62	5.6	5.69	5.66	5.79	5.83		
Dimensions	Unit	Height	mm	2,537																
		Width	mm	2,258																
		Depth	mm	2,283	3,183			4,983	5,883			6,783	7,776			8,676	9,576			
Weight	Unit	kg	2,260.6	2,270.6	2,549.4	2,719.4	4,370.2			4,834	5,939			7,140.8	7,262.8	7,582.2	7,873			
	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	6,240	7,636.8	7,758.8	8,078.2	8,358	8,326			
Water heat exchanger	Type		Plate heat exchanger												Shell and tube					
	Water volume	l	26	37	50	159	153	256	233	248	301	496	485	453						
	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	32.9	35.6	39.1	43.6	46.9	50.7
	Water pressure drop	Cooling	Nom.	kPa	15.1	12.3	17.1	18.2	22	24.4	31.6	33.7	31	27.7	34.3	26.2	31.1	37.8	45.5	34.5
Air heat exchanger	Type		Microchannel																	
Compressor	Type		Driven vapour compression																	
	Quantity		1												2					
Fan	Type		Direct propeller																	
	Quantity		4	6			10	12			14	16			18	20				
	Air flow rate	Nom.	l/s	17,448	26,172			42,600	51,324			59,709	68,433			76,817	85,541			
	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	95.46	95.6	94.85	95.96	96.53	97.07		
Sound pressure level	Cooling	Nom.	dBA	68.70	69.00	70.80	72.80	71.00	71.30	72.50	74.10	74.5	74.30	74.10	73.40	74.20	74.50	75.00		
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		116.8	131.2	146	
	Circuits	Quantity		1												2				
Piping connections	Evaporator water inlet/outlet (OD)			88.9mm			114.3mm			139.7mm			168.3mm			219.1mm				
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	405.0	429.0	459.0	519.0	549.0	604.0	
	Max		A	132.0	156.0	217.0	236.0	272.0	312.0	348.0	434.0	500.0	522.0	606.0	690.0	589.0	661.0	706.0	754.0	
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
- › 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 thanks to inverter driven fans to improve part load efficiency

› More information
about EWAH-TZXS



› More information
about EWAH-TZXLB



Cooling Only			EWAH-TZXS/XLB																			
Space cooling	A Condition 35°C	Pdc	180	220	270	300	350	390	430	480	580	620	670	710	760	820	930	990				
		kW	180.38	224.67	270.66	300.22	355	392	427.64	481.86	574.38	619.88	672.62	713.55	759.36	825.01	925.8	988.46				
	$\eta_{S,C}$	%	188.68	195.84	194.04	203.08	196.16	196.4	203.28	206.2	214.96	217.88	216.48	220.72	226.8	227.72	227.88	223.6				
SEER			4.792	4.971	4.926	5.152	4.979	4.985	5.157	5.23	5.449	5.522	5.487	5.593	5.745	5.768	5.772	5.665				
Cooling capacity	Nom.	kW	180	225	271	300	355	392	428	482	574	620	673	714	759	825	926	988				
Power input	Cooling	Nom.	kW	51.8	66.3	79	89.6	103	114	125	144	164	181	194	209	224	243	274	307			
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			11.7	10						
EER			3.49	3.39	3.43	3.35	3.44	3.42	3.33	3.35	3.41	3.45	3.4	3.38	3.39	3.37	3.22					
ESEEER			5.14	5.21	4.95	5.16	4.94	4.95	5.06	5.05	5.08	4.96	5.13	5.23	5.26	5.32	5.08					
IPLV			6.05	6.09	5.92	6.2	5.8	5.81	5.9	6	6.01	6.2	5.99	6.21	6.43	6.32	6.37	6.27				
Dimensions	Unit	Height	mm	2,537																		
		Width	mm	2,258																		
		Depth	mm	3,183	4,083	3,183	4,083	5,883	6,783	7,776	6,783	7,683	8,583	9,483	10,383	11,283						
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	7,140.2	7,431	7,879	8,178.2					
	Operation weight	kg	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	6,647.8	7,625.2	7,884	8,343	8,631.2				
Water heat exchanger	Type		Plate heat exchanger																			
	Water volume	l	37	50	153	241	233	301	292	283	485	453	464	453								
	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	32.2	34.1	36.3	39.4	44.2	47.3			
	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	39.8	25.6	57	40.5	27	56.2			
Air heat exchanger	Type		Microchannel																			
Compressor	Type		Driven vapour compressor																			
	Quantity		1																			
Fan	Type		Direct propeller																			
	Quantity		6	8	6	8	12	14	16	14	16	18	20	22	24							
	Airflowrate Nom.	l/s	26,172	34,896	26,172	34,896	52,344	61,068	69,792	61,068	69,792	78,516	87,240	95,964	104,688							
	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	104.21	104.22	104.34	105.79	106.49				
Sound power level (XLB)			dBA	92.14	93.15	96.44	96.57	95.14	95.3	95.68	96.78	99.44	99.57	99.63	99.65	98.92	100.3	100.93				
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	82.40	82.20	82.3	83.20	83.90					
Sound pressure level (XLB)			dBA	72.65	73.19	76.96	76.62	74.36	74.53	74.55	75.29	78.67	78.12	77.86	77.76	76.87	77.73	78.36				
Operation range	Air side	Cooling	Min.-Max.	°CDB	-18~55																	
	Water side	Cooling	Min.-Max.	°CDB	-8~18																	
Refrigerant	Type/GWP				R-1234(z)e/7																	
	Charge	kg	39	52	39	52	73.2	84.6	97.6	102	116.8	131.2	146	160	175.2							
	Circuits	Quantity		1															2			
Piping connections	Evaporator water inlet/outlet (OD)			88.9mm	114.3mm														219.1mm			
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	327.94	351.57	371.7	400.97	448.69	494.78		
	Max			A	134	173	190	233	266	286	311	372	403	465	483	534	597	568	619	670		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																	

Air cooled screw inverter chiller, high efficiency, reduced sound



› More information
about EWAH-TZXR

			EWAH-TZXRB																	
			180	220	270	300	350	390	430	480	580	620	670	710	760	820	930	990		
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	671.95	712.95	758.61	824.24	924.69	987.05	
		$\eta_{s,c}$	%	188.68	195.84	194.04	203.08	195.44	195.76	202.72	205.68	213.64	217.16	215.52	219.4	226.04	226.28	227.08	222.8	
SEER				4.792	4.971	4.926	5.152	4.961	4.969	5.143	5.217	5.416	5.504	5.463	5.56	5.726	5.732	5.752	5.645	
Cooling capacity	Nom.		kW	180	225	271	300	355	392	427	482	574	619	672	713	759	824	925	987	
Power input	Cooling	Nom.	kW	51.8	66.3	79	89.6	103	115	125	145	164	182	195	210	225	244	275	308	
Capacity control	Method																			
	Minimum capacity		%	33.4	26.7	21.6	18.7	16.7	15.4	14.3	12.5	10.8				10		11.7	10	
EER				3.49	3.39	3.43	3.35	3.42		3.41		3.32	3.48	3.39	3.44	3.39	3.36	3.38	3.36	3.2
ESEER				5.14	5.21	4.95	5.16	4.93	4.94		5.03	5.02	5.06	4.95	5.09	5.21	5.24	5.31	5.07	
IPLV				6.05	6.09	5.92	6.2	5.78	5.77	5.88	5.97	5.98	6.17	5.96	6.16	6.41	6.33	6.34	6.24	
Dimensions	Unit	Height	mm													2,537				
		Width	mm													2,258				
		Depth	mm	3,183	4,083	3,183	4,083		5,883		6,783	7,776	6,783		7,683		8,583	9,483	10,383	
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		7,460.2	7,751	8,199	8,498.2	
		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	6,967.8	7,945.2	8,204	8,663	8,951.2	
Water heat exchanger	Type															Shell and tube				
	Water volume	I	37		50		153	241	233	301	292	283	485	453	464	453				
	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	32.1	34.1	36.3	39.4	44.2	47.2
	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	39.7	25.6	56.9	40.4	26.9	56
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	18	20	22	24			
	Airflow rate	Nom.		l/s	26,172	34,896	26,172	34,896	51,324	59,709	68,433	59,709	68,433	76,817	85,541	93,925	102,649			
	Speed			rpm												760				
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	95.73	95.8	94.66	95.89	96.34	
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	74.00	73.80	72.60	73.30	73.80	
Operation range	Air side	Cooling	Min.-Max.	°CDB												-18~55				
	Water side	Cooling	Min.-Max.	°CDB												-8~18				
Refrigerant	Type/GWP															R-1234(z)e/7				
	Charge			kg	39	52	39	52	73.2	84.6	97.6	102	116.8	131.2	146	160	175.2			
	Circuits	Quantity					1									2				
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm	114.3mm		139.7mm		168.3mm							219.1mm			
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	329.23	352.76	373.1	402.29	450.27	496.57
	current	Max		A	134	173	190	233	266	286	311	372	403	465	483	534	597	568	619	670
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



› More information
about EWAH-TZPSB



› More information
about EWAH-TZPLB

Cooling Only		TZPSB/PLB	370	440	530	610	690	770			
Space cooling	A Condition 35°C Pdc	kW	371.15	435.24	532.06	606.43	692.3	778.66			
	ηs,c	%	206.56	213.68	220.48	224.96	231.2	232.04			
SEER			5.239	5.417	5.587	5.699	5.855	5.876			
Cooling capacity	Nom.	kW	371	435	532	606	692	779			
Power input	Cooling Nom.	kW	102	121	137	163	186	217			
Capacity control	Method		Variable								
	Minimum capacity	%	16.7	14.3	11.7	10		12.8			
EER			3.62	3.58	3.86	3.7	3.72	3.58			
ESEER			5.18	5.46	5.23		5.34	5.54			
IPLV			6.15	6.35	6.36	6.35	6.48	6.63			
Dimensions	Unit	Height	mm	2,537							
		Width	mm	2,258							
		Depth	mm	7,683	9,483	7,683	8,583	9,483			
Weight	Unit	kg	5,741.4	6,722	6,364.8	7,140.2	7,804.4	8,208.2			
	Operation weight	kg	5,982.4	7,023	6,656.8	7,636.2	8,289.4	8,661.2			
Water heat exchanger	Type		Shell and tube								
	Water volume	l	241	301	292	496	485	453			
	Water flow rate Cooling Nom.	l/s	17.7	20.8	25.4	29	33.1	37.2			
	Water pressure drop Cooling Nom.	kPa	24.4	15	15.3	18	24.3	19.7			
Air heat exchanger	Type		Microchannel								
Compressor	Type		Driven vapour compression								
	Quantity		2								
Fan	Type		Direct propeller								
	Quantity		16	20	16	18	22	24			
	Air flow rate Nom.	l/s	251,251.0	314,064	251,251.0	282,658.0	345,470.0	376,877.0			
	Speed	rpm			760						
Sound power level (PSB) Cooling	Nom.	dBA	100.3	100.8	103.24	104.21	104.24	103.7			
Sound power level (PLB) Cooling	Nom.	dBA	95.48	96	98.71	99.63	99.73	98.5			
Sound pressure level (PSB) Cooling	Nom.	dBA		78.80	81.80	82.40	82.2	81.10			
Sound pressure level (PLB) Cooling	Nom.	dBA	74.03	73.96	77.25	77.86	77.68	75.93			
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	160.4	175.2			
Refrigerant charge	Per circuit	kg	316.4	395.5	408.8	459.2	561.4	613.2			
Piping connections	Evaporator water inlet/outlet (OD)			168.3mm			219.1mm				
Unit	Running current Max	A	175.85	205.4	233.82	272.98	316.97	364.19			
Power supply	Phase/Frequency/Voltage	Hz/V		3~/50/400							

Air cooled screw inverter chiller, premium efficiency, reduced sound



EWAH-TZPSB/PLB/PRB

Microtech III

› More information
about EWAH-TZPRB



Cooling Only			EWAH-TZPRB	370	440	530	610	690	770
Space cooling			A Condition 35°C Pdc	kW	370.96	435.06	531.76	606.09	691.95
			ηs,c	%	206.04	213.28	219.28	223.8	229.96
SEER					5.226	5.407	5.557	5.67	5.824
Cooling capacity			Nom.	kW	371	435	532	606	692
Power input			Cooling Nom.	kW	102	122	138	164	186
Capacity control			Method		Variable				
			Minimum capacity	%	16.7	14.3	11.7	10	12.8
EER					3.61	3.57	3.84	3.69	3.7
ESEER					5.17	5.44	5.22	5.31	5.53
IPLV					6.12		6.32		6.42
Dimensions			Unit	Height	mm	2,537			
				Width	mm	2,258			
				Depth	mm	7,683	9,483	7,683	8,583
Weight			Unit	kg	5,941.4	6,922	6,684.8	7,460.2	8,124.4
			Operation weight	kg	6,182.4	7,223	6,976.8	7,956.2	8,609.4
Water heat exchanger			Type		Shell and tube				
			Water volume	l	241	301	292	496	485
			Water flow rate Cooling Nom.	l/s	17.7	20.8	25.4	28.9	33
			Water pressure drop Cooling Nom.	kPa	24.4	14.9	15.3	18	24.2
Air heat exchanger			Type		Microchannel				
Compressor			Type		Driven vapour compression				
			Quantity		2				
Fan			Type		Direct propeller				
			Quantity		16	20	16	18	22
			Air flow rate Nom.	l/s	246,359.0	307,948.0	246,359.0	276,541.0	338,130
			Speed	rpm	360				
Sound power level			Cooling Nom.	dBA	92.37	92.94	94.94	95.73	95.97
Sound pressure level			Cooling Nom.	dBA	70.90		73.50	74.00	73.90
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	160.4
Refrigerant charge			Per circuit	kg	316.4	395.5	408.8	459.2	561.4
Piping connections			Evaporator water inlet/outlet (OD)		168.3mm		219.1mm		
Unit			Running current Max	A	176.22	205.83	234.54	273.8	317.85
Power supply			Phase/Frequency/Voltage	Hz/V	3~50/400				





Air cooled mini inverter heat pump

- › Top product in terms of energy efficiency and operation range
- › All capacities available in 2 versions: standard version and version with OP10 option (no freeze up of water when not in operation thanks to the water piping heater tape)
- › Easy 'plug and play' installation
- › Amongst the most quiet units in the market (63dBA - sound power)
- › Single phase power supply and low starting currents make the unit ideal for residential applications
- › Weight reduced with 20% compared with the previous models.
- › Built-in Hydraulic kit: no buffer tank required, standard inverter driven pump, main flow sensor and switch included.
- › Standard wired remote control enables setting of different set points (cooling, heating, water leaving temperature) or based on outdoor conditions (weather dependent control). It has an alarm history, night time noise reduction function and is language based.



› More information
about EWYQ-BVP



Heating & Cooling			EWYQ-BVP	004	005	006	008		
Cooling capacity	Nom.	kW		4.00 / 4.01	4.93 / 5.07	5.88 / 6.07	7.95 / 8.23		
Heating capacity	Nom.	kW		4.11 / 3.96	4.99 / 4.99	6.14 / 6.12	8.08 / 8.44		
	Max.	kW		5.1	6.0	-			
Power input	Cooling Nom.	kW		1.27 / 0.840	1.61 / 1.12	1.87 / 1.13	2.57 / 1.65		
	Heating Nom.	kW		1.19 / 0.860	1.46 / 1.09	1.75 / 1.28	2.31 / 1.84		
Capacity control	Method			Variable (inverter)					
EER				3.14 / 4.80	3.06 / 4.51	3.15 / 5.35	3.10 / 4.99		
COP				3.44 / 4.61	3.41 / 4.58	3.51 / 4.77	3.49 / 4.59		
ESEER				4.45	4.49	5.25	5.24		
Space heating	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	%	155	159	158		
			SCOP		3.90	4.03	4.21		
			Seasonal space heating eff. class			A++			
Dimensions	Unit	HeightxWidthxDepth	mm	735x1,090x350		997x1,160x380			
Weight	Unit		kg	83		106			
Water heat exchanger	Type			Brazed plate					
	Water flow rate	Cooling Nom.	l/min	11.5 / 11.5	14.1 / 14.5	16.9 / 17.4	22.8 / 23.6		
	Heating	Nom.	l/min	11.8 / 11.4	14.3 / 14.3	17.6 / 17.5	23.2 / 24.2		
	Water volume		l	1		2			
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and chromate coated waffle louvre fins		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins			
Compressor	Type			Hermetically sealed swing compressor					
	Quantity			1					
Fan	Type			Propeller fan					
	Quantity			1					
	Air flow rate	Cooling Nom.	m ³ /min	53		72			
	Heating	Nom.	m ³ /min	47.0		46.6			
Sound power level	Cooling	Nom.	dBA	63	64	69			
	Heating	Nom.	dBA			65			
Sound pressure level	Cooling	Nom.	dBA	48	49	52			
	Heating	Nom.	dBA			47			
Operation range	Air side	Cooling Min.-Max.	°CDB	10~43		10~46			
	Heating	Min.-Max.	°CDB	-20~25		-15~25			
	Water side	Cooling Min.-Max.	°CDB		5~22				
	Heating	Min.-Max.	°CDB		15~55				
Refrigerant	Type/GWP			R-410A/2,088		R-410A/2,087.5			
	Control			Electronic expansion valve					
	Circuits	Quantity		1					
Refrigerant charge	Per circuit	kg		2.10		2.70			
	Per circuit	TCO ₂ Eq		4.4		5.6			
Water circuit	Piping connections diameter	inch		1" MBSP					
Unit	Starting current Max	A		15.7		19.9			
	Running current Max	A		15.7		19.9			
Power supply	Phase/Frequency/Voltage	Hz/V		1N~/50/230					

Air cooled mini inverter heat pump

- > Inverter technology to ensure low sound values and leader-of-class ESEER
- > Wide operating range
- > Built-in hydronic module: no buffer tank required and a standard pump and main switch are included
- > Easy, plug and play' installation
- > Single phase power supply for residential applications, three phase power supply model available for light commercial applications

> More information
about EWYQ-ACV3



> More information
about EWYQ-ACW1



EWYQ-ACV3/ACW1

Digital controller

Heating & Cooling		EWYQ-ACV3/ACW1		009	010	011	009	011	013
Cooling capacity	Nom.		kW	12.2 (1) / 8.60	13.6 (1) / 9.60	11.1 / 15.7 (1)	12.9 (1) / 9.10	15.7 (1) / 11.1	17.0 (1) / 13.3
Heating capacity	Nom.		kW	9.90 / 10.2 (1)	11.7 (1) / 11.4	13.8 (1) / 12.9	10.90 / 11.20 (1)	13.2 (1) / 12.4	14.8 (1) / 13.9
Power input	Cooling Nom.	kW	2.83 / 2.85 (1)	3.28 / 3.41 (1)	3.90 / 4.13 (1)	3.05 / 3.08 (1)	4.13 (1) / 3.90	5.18 / 5.52 (1)	
	Heating Nom.	kW	2.43 (1) / 2.99	2.81 (1) / 3.46	3.20 (1) / 3.94	2.69 (1) / 3.31	3.07 (1) / 3.78	3.47 (1) / 4.27	
Capacity control	Method						Inverter controlled		
EER				3.05 / 4.27 (1)	2.93 / 4.00 (1)	2.85 / 3.79 (1)	2.99 / 4.19 (1)	3.79 (1) / 2.85	2.57 / 3.08 (1)
COP				3.30 / 4.19 (1)	3.29 / 4.17 (1)	3.27 / 4.30 (1)	3.28 / 4.17 (1)	3.27 / 4.31 (1)	3.25 / 4.28 (1)
ESEER				4.31	4.30	4.33	4.43	4.44	4.36
Space heating	Average climate water outlet 35°C	General	r _s (Seasonal space heating efficiency) %	126	131	134	126	134	130
			SCOP	3.22	3.34	3.41	3.22	3.41	3.30
			Seasonal space heating eff. class				A+		
Dimensions	Unit	Height	mm				1,435		
		Width	mm				1,420		
		Depth	mm				382		
Weight	Unit		kg				180		
Water heat exchanger	Type						Brazed plate		
	Water flow rate	Heating Nom.	l/min	28.3	32.6	36.9	31.2	35.5	39.8
	Water volume		l				1.01		
Air heat exchanger	Type						Hi-XSS		
Pump Standard	Nominal ESP unit	Cooling	kPa	60.5	57.8	53.2	59.2	53.2	40.9 / 45.6
		Heating	kPa	57.1	52.5	47.3	54.1	49.1	36.6 / 43.5
Hydraulic components	Expansion vessel	Volume	l				10		
Compressor	Type						Hermetically sealed scroll compressor		
	Quantity						1		
Fan	Type						Propeller fan		
	Quantity						2		
	Air flow rate	Cooling Nom.	m ³ /min	96.0	100	97.0			
		Heating Nom.	m ³ /min		90.0				
Fan motor	Speed	Cooling Nom.	rpm				780		
		Heating Nom.	rpm				760		
	Steps						8		
Sound power level	Cooling	Nom.	dBA				64.0		66.0
	Heating	Nom.	dBA	60	64			60	
Sound pressure level	Cooling	Nom.	dBA				50		
	Heating	Nom.	dBA				50		
	Night quiet mode	Cooling	dBA				45		46
		Heating	dBA				42		43
Operation range	Air side	Cooling Min.~Max.	°CDB				10~46		
		Heating Min.~Max.	°CDB				-15~35		
	Water side	Cooling Min.~Max.	°CDB				5~20		
		Heating Min.~Max.	°CDB				30~50		
Refrigerant	Type						R-410A		
	Circuits	Quantity					1		
	Control						Electronic expansion valve		
	GWP						2,087.5		
Refrigerant charge	Per circuit		kg				2.95		
			TCO ₂ eq				6.16		
Water circuit	Piping		inch				5/4"		
	Piping connections diameter		inch				G 5/4" (female)		
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230			3N~/50/400	

(1) Underfloor program: cooling Ta 35°C - LWE 18°C (Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (Dt: 5°C)

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



EWYQ-CWN/CWP

BRCA52

- › More information about EWYQ-CWN



- › More information about EWYQ-CWP



(1) EWYQ-CWN: Version without pump. (2) EWYQ-CWP: Version with pump.

Air cooled scroll inverter heat pump, split version

- Hydronic module for indoor installation eliminating the need for glycol
- Ideal for colder climates as the lack of glycol will allow for high efficiencies
- Compact dimensions and limited pipework allow for installation in very restricted spaces
- Easy transportation as separate units will fit in an elevator



› More information about SEHVX-BW



› More information about SERHQ-BW1



Heating & Cooling				SEHVX20BW/ SERHQ020BW1	SEHVX32BW/ SERHQ032BW1	SEHVX40BW/ SERHQ020BW1+SERHQ020BW1	SEHVX64BW/ SERHQ032BW1+SERHQ032BW1
Cooling capacity	Nom.	kW		21.2 (1)	31.8 (1)	42.3 (1)	63.3 (1)
Heating capacity	Nom.	kW		20.8 (2)	31.2 (2)	41.7 (2)	62.7 (2)
Power input	Cooling	Nom.	kW	7.47 (1)	12.7 (1)	15.1 (1)	25.5 (1)
	Heating	Nom.	kW	6.76 (2)	10.6 (2)	13.7 (2)	21.4 (2)
EER				2.84	2.5	2.8	2.48
COP				3.07	2.93	3.03	2.93
Space heating	Average climate water outlet 35°C	General	SCOP η_s (Seasonal space heating efficiency)	3.93	3.53	3.80	3.53
			%	154	138	149	138
			Seasonal space heating eff. class	A++		A+	
Unit for indoor installation				SEHVX20BW	SEHVX32BW	SEHVX40BW	SEHVX64BW
Dimensions	Unit	Height Width Depth	mm mm mm			1,573 766 396	
Weight	Unit	kg		97.0	105	137	153
	Packed unit	kg		109	117	149	165
Water side Heat exchanger	Type					Brazed plate	
	Water volume	l		3	5	6	9
Water flow rate	Cooling	Nom.	l/min	60 (3)	90 (3)	120 (3)	181 (3)
	Heating	Nom.	l/min	60 (2)	90 (2)	120 (2)	181 (2)
Sound power level	Nom.	dBA		63			66
Operation range	Cooling	Ambient	Min.~Max. °CDB			-5~43	
		Water side	Min.~Max. °CDB			5 (4)~20	
	Heating	Ambient	Min.~Max. °CDB			-15~35	
		Water side	Min.~Max. °CDB			25~50	
Refrigerant	Type / GWP					R-410A / 2,087.5	
	Circuits	Quantity		1		2	
	Control					Electronic expansion valve	
Water circuit	Piping connections diameter	inch		1-1/4" (female)		2" (female)	
	Piping	inch		1-1/4"		1-1/2"	
	Water pressure drop	Cooling	Nom.	kPa	17 (7)	24 (7)	19 (7)
Total water volume			l	4.2 (8)	5.8 (8)	7.9 (8)	29 (7)
Power supply	Phase/Frequency/Voltage	Hz/V				3N~/50/400	11.0 (8)
Outdoor Unit				SERHQ020BW1		SERHQ032BW1	
Dimensions	Unit	Height Width Depth	mm mm mm			1,680 765	
						930	1,240
Weight	Unit	kg		240		316	
	Packed unit	kg		273		356	
Compressor	Quantity			2		3	
	Type					Hermetically sealed scroll compressor	
Fan	Type					Axial	
	Quantity			1		2	
Air flow rate	Cooling	Nom.	m³/min	185		233	
	Heating	Nom.	m³/min	185		233	

(1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C (2) Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) (3) Condition: Ta 35°C - LWE 7°C (DT = 5°C) (4) Water can be used above 5°C. Between 0°C and 5°C a 30% glycol solution (propylene or ethylene) has to be used. Between 0°C and -10°C a 40% glycol solution (propylene or ethylene) has to be used (see installation manual and information related to OPZL option) (5) Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info. (6) Excluding the water volume in the unit. This volume will guarantee sufficient defrost energy for all applications, however, this volume can be multiplied by 0.66 if the heating setpoint is ≥ 45°C (eg. Fan coils) (7) This is PD between inlet & outlet connections of unit. It includes the water side heat exchanger pressure drop. (8) Including piping + PHE; excluding expansion vessel

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

- › Single refrigerant circuit (2 scroll compressors) with single evaporator
- › Compact design
- › Partial and total heat recovery option available
- › Stainless steel plate heat exchanger
- › MicroTech III controller with superior control logic and easy interface

› More information
about Ewyq-G-XS



Heating & Cooling			Ewyq-G-XS	075	085	100	110	120	140	160
Cooling capacity	Nom.	kW	77.8	88.1	101	117	127	147	165	165
Heating capacity	Nom.	kW	82.2	91.2	110	127	138	156	170	170
Power input	Cooling Nom.	kW	27.0	31.5	36.0	39.5	44.7	50.2	57.8	57.8
Capacity control	Heating Nom.	kW	26	29	34	39	43	50	54	54
Method				Step						
Minimum capacity	%		50	44	50	44	50	43	50	50
EER				2.88	2.80	2.81	2.97	2.84	2.92	2.85
COP				3.14	3.12	3.24	3.25	3.20	3.11	3.13
ESEER				3.90	3.94	3.97	4.03	3.92		3.96
IPLV				4.40	4.47	4.40	4.49	4.40		4.50
Space heating	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	%	131	129	142	140	142	138
			SCOP		3.35	3.31	3.62	3.58	3.63	3.53
Dimensions	Unit	Height	mm				1,800			
		Width	mm				1,195			
		Depth	mm			2,826		3,426		4,026
Weight	Unit	kg		850	912	1,077	1,183	1,213	1,333	1,394
	Operation weight	kg		858	921	1,088	1,194	1,224	1,344	1,411
Water heat exchanger	Type						Brazed plate			
	Water flow rate	Cooling Nom.	l/s	3.7	4.2	4.8	5.6	6.1	7.0	7.9
		Heating Nom.	l/s	4.0	4.4	5.3	6.1	6.7	7.5	8.2
	Water pressure drop	Cooling Nom.	kPa	8.40	8.30	8.70	11.6	13.7	18.2	19.9
		Heating Nom.	kPa	9.50	9.10	11.20	14.40	17.20	21.70	22.50
	Water volume		l	8.10	9.40		10.8			16.7
Air heat exchanger	Type						High efficiency fin and tube type with integral subcooler			
Compressor	Type						Scroll compressor			
	Quantity						2			
Fan	Type						Direct propeller			
	Quantity				6		8		10	
	Air flow rate	Nom.	l/s		10,042	9,861	13,148		16,435	
	Speed		rpm				1,360			
Sound power level	Cooling	Nom.	dBA	84	85	87			89	
Sound pressure level	Cooling	Nom.	dBA	66	68	70			71	
Operation range	Air side	Cooling Min.-Max.	°CDB				-10~45			
		Heating Min.-Max.	°CDB				-10~45			
	Water side	Cooling Min.-Max.	°CDB				-10~15			
		Heating Min.-Max.	°CDB				-10~15			
Refrigerant	Type / GWP						R-410A / 2,087.5			
	Circuits	Quantity					1			
Refrigerant charge	Per circuit	kg		15.0	18.0	23.0			30.0	
		TCO ₂ eq		31.3	37.6	48.0			62.6	
Piping connections	Evaporator water inlet/outlet (OD)			2" 1/2						
Unit	Starting current Max	A	210	261	267	316	323	363	377	
	Running current Cooling Nom.	A	52	56	60	69	76	88	95	
	Max	A	66	72	78	87	95	111	125	
Power supply	Phase/Frequency/Voltage	Hz/V				3~/50/400				

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



› More information
about Ewyq-G-XR



Heating & Cooling			EWYQ-G-XR	075	085	100	110	120	140	160
Cooling capacity	Nom.	kW	75.2	84.5	95.0	111	120	139	155	
Heating capacity	Nom.	kW	82.2	91.2	110	127	138	156	170	
Power input	Cooling Nom.	kW	27.7	32.7	38.6	41.5	47.4	52.8	61.5	
	Heating Nom.	kW	26	29	34	39	43	50	54	
Capacity control	Method						Step			
	Minimum capacity	%	50	44	50	44	50	43	50	
EER			2.71	2.59	2.46	2.68	2.52	2.64	2.51	
COP			3.14	3.12	3.24	3.25	3.20	3.11	3.13	
ESEER			3.85	3.90	3.79	3.92	3.76	3.86	3.79	
IPLV			4.35	4.41	4.29	4.42	4.27	4.40	4.35	
Space heating	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	%	131	129	142	140	142	138
			SCOP		3.35	3.31	3.62	3.58	3.63	3.53
Dimensions	Unit	Height	mm				1,800			
		Width	mm				1,195			
		Depth	mm		2,826			3,426		4,026
Weight	Unit	kg	880	942	1,107	1,213	1,243	1,363	1,424	
	Operation weight	kg	888	951	1,118	1,224	1,254	1,374	1,441	
Water heat exchanger	Type					Brazed plate				
	Water flow rate	Cooling Nom.	l/s	3.6	4.0	4.5	5.3	5.7	6.7	7.4
		Heating Nom.	l/s	4.0	4.4	5.3	6.1	6.7	7.5	8.2
	Water pressure drop	Cooling Nom.	kPa	7.90	7.70	7.60	10.5	12.1	16.4	17.5
		Heating Nom.	kPa	9.50	9.10	11.2	14.4	17.2	21.7	22.5
	Water volume		l	8.10	9.40		10.8			16.7
Air heat exchanger	Type				High efficiency fin and tube type					
Compressor	Type				Scroll compressor					
	Quantity				2					
Fan	Type				Direct propeller					
	Quantity			6		8		10		-
	Air flow rate	Nom.	l/s	7,859	7,101	9,468		11,835		
	Speed		rpm			1,108				
Sound power level	Cooling	Nom.	dBA	80	82	84		86		
Sound pressure level	Cooling	Nom.	dBA	62	65	66	68		67	
Operation range	Air side	Cooling Min.~Max.	°CDB			-10~45				
		Heating Min.~Max.	°CDB			-17~20				
	Water side	Cooling Min.~Max.	°CDB			-10~15				
		Heating Min.~Max.	°CDB			25~50				
Refrigerant	Type / GWP				R-410A / 2,087.5					
	Circuits	Quantity			1					
Refrigerant charge	Per circuit	kg	17.0	17.7	23.5	29.4	28.3	32.0	34.9	
		TCO ₂ eq	35.5	36.9	49.1	61.4	59.1	66.8	72.9	
Piping connections	Evaporator water inlet/outlet (OD)				2"	1/2				
Unit	Starting current Max	A	213	264	270	319	327	367	381	
	Running current Cooling Nom.	A	54	60	65	71	80	90	103	
	Max	A	70	75	81	91	99	116	131	
Power supply	Phase/Frequency/Voltage	Hz/V			3~/50/400					

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

> Class A efficiency in heating mode

- > Extended operation range: ambient temperatures from -10°C up to +46°C in cooling mode and down to -17°C in heating mode
- > 2 truly independent refrigerant circuits
- > Reduced footprint thanks to the **V-shaped frame** (EWYQ160-230F-XS/XL & EWYQ160-220F-XR)
- > Reliable and efficient scroll compressors with **high EER values**
- > Chiller series design entirely based on new European directives (EN14511, EN14825)
- > Top serviceability level thanks to reduced weight, compact footprint and optimized components accessibility

- > The unit can be equipped with a hydraulic module optimizing installation time, space and cost
- > Wide range of available options and accessories
- > Inverter fans management for enhanced part load efficiencies
- > Nordic kit option to improve the chiller working conditions in heating mode
- > MicroTech III controller with superior control logic and easy interface

> More information
about EWYQ-F-XS



> More information
about EWYQ-F-XL



Heating & Cooling			EWYQ-F-XS/XL	160	190	210	230	310	340	380	400	430	510	570	630												
Cooling capacity			Nom.	kW	164	184	205	231	304	335	376	401	427	502	565	624											
Heating capacity			Nom.	kW	173	197	227	254	329	362	404	429	463	535	607	674											
Power input			Cooling Nom.	kW	57.6	63.3	70.3	79.3	102	114	129	138	145	172	195	214											
Heating Nom.			kW	54.0	61.6	70.5	79.2	101	113	126	133	140	167	190	210												
Capacity control			Method	Step																							
Minimum capacity			%	25.0																							
EER				2.84	2.91	2.92		2.99	2.93	2.91	2.90	2.94	2.92	2.90	2.91												
ESEER				3.73	3.89	3.81	3.71	4.07	4.19	3.99	3.96	4.14	4.20	3.98	4.06												
COP				3.20		3.22	3.21	3.24	3.21		3.23	3.30	3.21	3.20	3.21												
IPLV				4.45	4.47	4.55	4.38	4.56	4.61	4.38	4.50	4.70	4.71	4.56	4.74												
Space heating	Average climate water outlet 35°C		General	η_s (Seasonal space heating efficiency)	%																						
					128	134	129		143	147	-		-		-												
Dimensions	Unit		Height	mm	2,270				2,220				2,258														
			Width	mm	1,200				5,270				4,125														
			Depth	mm	4,370	4,370		5,270		4,125		5,025		5,925		6,825											
Weight (XS)	Unit			kg	1,430	1,850	2,300	2,350	2,900	2,910	2,920	3,730	3,750	4,250	4,280	4,670											
	Operation weight			kg	1,470	1,890	2,340	2,390	2,980	2,990	3,000	3,840	3,850	4,370	4,400	4,780											
Weight (XL)	Unit			kg	1,520	1,940	2,400	2,440	3,060	3,070	3,080	3,890	3,900	4,400	4,440	4,820											
	Operation weight			kg	1,570	1,980	2,440	2,480	3,130	3,150	3,160	3,990	4,010	4,520	4,550	4,940											
Water heat exchanger	Type			Plate heat exchanger																							
	Water flow rate		Cooling Nom.	l/s	7.8	8.8	9.8	11.1	14.6	16.0	18.0	19.2	20.4	24.0	27.1	29.9											
	Heating Nom.		l/s	8.3	9.5	10.9	12.2	15.9	17.5	19.5	20.7	22.3	25.8	29.3	32.5												
	Water pressure drop		Cooling Nom.	kPa	22	28	36	40	21	27	30	29	34	37	42	56											
	Heating Nom.		kPa	25	32	43	50	25	31	37	33	40	43	50	66												
Water volume			l	18				44				60				70											
Air heat exchanger			Type	High efficiency fin and tube type with integral subcooler																							
Compressor			Type	Scroll compressor																							
Fan			Type	Direct propeller																							
Quantity				4		5		8		10		12		14													
Air flow rate			Nom.	l/s	22,577	21,593	26,992		43,187		55,213	53,983	64,780		75,577												
Speed				rpm	900																						
Sound power level (XS)			Cooling Nom.	dBA	92	94	95		97		98		99		100												
Sound power level (XL)			Cooling Nom.	dBA	89	92	93		95		96		97		98												
Sound pressure level (XS)			Cooling Nom.	dBA	72	74	75	76	77		78		79		80												
Sound pressure level (XL)			Cooling Nom.	dBA	70	73		74		75		76		77													
Operation range			Air side	Cooling Min.-Max.	°CDB	-10~46																					
			Heating Min.-Max.	°CDB	-17~20																						
			Water side	Cooling Min.-Max.	°CDB	-13~15																					
			Heating Min.-Max.	°CDB	25~50																						
Refrigerant			Type / GWP	R-410A / 2,087.5																							
Circuits			Quantity	2																							
Refrigerant charge			Per circuit	kg	16.0	20.0		24.0	35.0	36.0	35.0	46.0		55.0	52.5	68.0											
				TCO ₂ eq	33.4	41.8		50.1	73.1	75.2	73.1	96.0		114.8	109.6	142.0											
Piping connections			Evaporator water inlet/outlet (OD)		2.5"				3"																		
Unit			Starting current Max	A	282	536	353	560	600	516	637	659	666	648	787	827											
			Running current Nom.	A	115	140	128	162	193	205	235	251	257	307	353	384											
			Max	A	138	165	164	196	246	264	295	316	330	396	442	491											
Power supply			Phase/Frequency/Voltage	Hz/V	3~/50/400																						

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



› More information
about EWYQ-F-XR

Heating & Cooling			EWYQ-F-XR		160	180	200	220	300	330	360	390	420	490	550	610		
Space cooling			A Condition 35°C Pdc		kW											606.1		
			$\eta_{s,c}$		%											171.8		
SEER																4.371		
Cooling capacity			Nom.		kW	158	178	199	223	296	326	363	389	415	487	546	606	
Heating capacity			Nom.		kW	173	197	227	254	329	362	404	429	463	535	607	674	
Power input			Cooling	Nom.	kW	56.2	62.3	68.4	77.9	97.4	111	127	134	141	167	191	210	
			Heating	Nom.	kW	54.0	61.6	70.5	79.2	101	113	126	133	140	167	190	210	
Capacity control			Method													Staged		
			Minimum capacity		%						25.0					17.0		
EER						2.81	2.86	2.92	2.87	3.04	2.93	2.86	2.90	2.93	2.91	2.85	2.89	
ESEER						4.33	4.39	4.38	4.19	4.63	4.68	4.37	4.44	4.60	4.83	4.50	4.62	
COP							3.20		3.22	3.21	3.24		3.21	3.23	3.30	3.21	3.20	3.21
IPLV						5.11	5.18	5.22	4.96	5.25	5.35	4.97	5.08	5.25	5.54	5.13	5.36	
Space heating	Average climate water outlet 35°C		General	η_s (Seasonal space heating efficiency)		%	128	134	129		143	147						
				SCOP			3.28	3.42	3.31	3.30	3.64	3.75						
Dimensions		Unit	Height	mm		2,270							2,220					
			Width	mm		1,200							2,258					
Weight		Unit	Depth	mm		4,370	5,270				4,125		5,025	5,925	6,825			
				kg		1,520	1,940	2,400	2,440	3,060	3,070	3,080	3,890	3,900	4,400	4,440	4,820	
Water heat exchanger		Type	kg			1,570	1,980	2,440	2,480	3,130	3,150	3,160	3,990	4,010	4,520	4,550	4,940	
Water heat exchanger													Plate heat exchanger					
			Water flow rate	Cooling	Nom.	l/s	7.5	8.5	9.6	10.7	14.2	15.6	17.4	18.6	19.8	23.3	26.1	29.0
				Heating	Nom.	l/s	8.3	9.5	10.9	12.2	15.9	17.5	19.5	20.7	22.3	25.8	29.3	32.5
			Water pressure drop	Cooling	Nom.	kPa	20	26	34	38	20	25	28	27	32	35	39	53
				Heating	Nom.	kPa	25	32	43	50	25	31	37	33	40	43	50	66
			Water volume	l			18				44		60		70			
Air heat exchanger			Type										High efficiency fin and tube type with integral subcooler					
Compressor			Type										Scroll compressor					
			Quantity										4			6		
Fan			Type										Direct propeller					
			Quantity				4		5		8		10		12	14		
			Air flow rate	Nom.	l/s		17,380	16,564	20,706		33,129		42,431	41,411	49,693	57,975		
			Speed	rpm									700					
Sound power level			Cooling	Nom.	dBA		83	84	86		88	89	90			92		
			Sound pressure level	Cooling	Nom.	dBA	64	65	66	67		69		70		71		
Operation range			Air side	Cooling	Min.~Max.	°CDB			-10~46									
				Heating	Min.~Max.	°CDB			-17~20									
			Water side	Cooling	Min.~Max.	°CDB			-13~15									
				Heating	Min.~Max.	°CDB			25~50									
Refrigerant			Type / GWP				R-410A / 2,087.5											
			Circuits	Quantity			2											
Refrigerant charge			Per circuit			kg	16.0	18.0	20.0	24.0	35.0	36.0	35.0	46.0		55.0	68.0	
						TCO ₂ eq	33.4	37.6	41.8	50.1	73.1	75.2	73.1	96.0		114.8	142.0	
Piping connections			Evaporator water inlet/outlet (OD)				2.5"				3"							
Unit			Starting current	Max	A		276	530	346	553	589	505	626	645	652	631	770	807
			Running current	Cooling	Nom.	A	114	138	126	160	187	201	232	245	252	301	350	379
				Max	A		133	160	157	189	235	253	283	302	316	379	425	471
Power supply			Phase/Frequency/Voltage	Hz/V			3~/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

> More information
about EWYD-BZSS



Heating & Cooling			EWYD-BZSS	250	270	290	320	340	370	380	410	440	460	510	520	580
Cooling capacity	Nom.	kW	253	272	291	323	337	363	380	411	433	455	502	519	580	
Heating capacity	Nom.	kW	271	298	325	334	350	380	412	445	465	477	533	561	618	
Power input	Cooling Nom.	kW	91.3	101	110	117	125	135	144	154	165	163	182	189	218	
	Heating Nom.	kW	91.4	100	108	118	126	133	143	157	167	165	178	186	208	
Capacity control	Method												Stepless			
	Minimum capacity	%													9.0	
EER			2.77	2.70	2.65	2.75	2.69	2.68	2.63	2.66	2.62	2.79	2.76	2.74	2.67	
ESEER			3.93	3.92	3.89	3.95	3.89	3.90	3.82	3.91	3.89	4.18		4.01	3.93	
COP			2.96	2.97	3.00	2.82	2.78	2.85	2.88	2.83	2.79	2.88	2.99	3.01	2.97	
IPLV			4.58	4.62	4.75	4.64	4.71	4.67	4.73	4.69	4.85	4.89	4.85	4.78		
Space heating	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	%										-		
			SCOP											-		
Dimensions	Unit	Height	mm											2,335		
		Width	mm											2,254		
Weight	Unit	Depth	mm												6,659	
			kg	3,410	3,455	3,500		3,870	3,940	4,010	4,390		5,015	5,495	5,735	
Water heat exchanger	Type	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
Air heat exchanger	Type															
Compressor	Type															
Fan	Type	Quantity														
Sound power level	Cooling Nom.	Water volume	l	12.1	13.0	13.9	15.5	16.2	17.4	18.2	19.7	20.8	21.8	24.1	24.9	27.8
				13.1	14.4	15.7	16.1	16.9	18.3	19.8	21.4	22.4	23.0	25.6	27.0	29.7
Sound pressure level	Cooling Nom.	Water pressure drop	Water pressure drop	Cooling Nom.	Water pressure drop											
				Heating Nom.	Water pressure drop											
Refrigerant	Type / GWP	Water volume	kg	40	46	44	50	55	60	65	74	80	47	85	91	61
				30	35	52	37	40	45	51	59	64	42	63	69	59
Piping connections	Evaporator water inlet/outlet (OD)	Water volume	l	138			133			128		240		229		218
Unit	Starting current Max	A		150		181		204		224	238	245	300		323	
	Running current Nom.	A		137	150	164	176	188	202	214	229	244	246	270	281	322
Power supply	Phase/Frequency/Voltage	Hz/V		211		212	254		288		316	336	329	398		432

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



› More information
about EWYD-BZSL

Heating & Cooling				EWYD-BZSL	250	270	290	320	330	360	370	400	430	450	490	510	570
Cooling capacity	Nom.	kW		247	265	290	315	330	353	370	401	423	446	490	507	565	
Heating capacity	Nom.	kW		271	298	325	334	350	380	412	445	465	477	533	561	618	
Power input	Cooling Nom.	kW		89.5	99.5	110	115	123	134	144	151	163	158	177	186	216	
	Heating Nom.	kW		91.4	100	108	118	126	133	143	157	167	165	178	186	208	
Capacity control	Method																
	Minimum capacity	%															9.0
EER					2.76	2.66	2.62	2.75	2.68	2.64	2.57	2.66	2.59	2.83	2.77	2.73	2.61
ESEEER					4.06	4.04	4.03	4.17	4.09	4.04	4.01	4.06	4.02	4.18	4.16	4.10	3.98
COP					2.96	2.97	3.00	2.82	2.78	2.85	2.88	2.83	2.79	2.88	2.99	3.01	2.97
IPLV					4.90	4.96	4.91	5.17	5.08	5.12	5.06	5.22	5.13	5.07	5.03	4.99	4.90
Space heating	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	%													-
			SCOP														-
Dimensions	Unit	Height	mm														2,280
		Width	mm														2,254
		Depth	mm														6,659
Weight	Unit	kg		3,750	3,795	3,840		4,210	4,280	4,350	4,730		5,525	6,005		6,245	
	Operation weight	kg		3,888	3,933	3,978		4,343	4,408	4,478	4,858		5,765	6,234	6,474	6,463	
Water heat exchanger	Type																Single pass shell & tube
	Water flow rate	Cooling Nom.	l/s	11.8	12.7	13.9	15.1	15.8	16.9	17.7	19.2	20.3	21.4	23.5	24.3	27.1	
		Heating Nom.	l/s	13.1	14.4	15.7	16.1	16.9	18.3	19.8	21.4	22.4	23.0	25.6	27.0	29.7	
	Water pressure drop	Cooling Nom.	kPa	38	44	42	48	53	57	62	71	77	45	82	87	58	
		Heating Nom.	kPa	30	35	52	37	40	45	51	59	64	42	63	69	59	
	Water volume		l														218
Air heat exchanger	Type																High efficiency fin and tube type with integral subcooler
Compressor	Type																Single screw compressor
	Quantity																3
Fan	Type																Direct propeller
	Quantity																12
	Air flow rate	Cooling Nom.	l/s	24,432	24,264	24,095		32,576	32,628	32,127	40,720		48,863	48,415	47,732	48,191	
	Speed		rpm														700
Sound power level	Cooling Nom.	dBA						94									97
Sound pressure level	Cooling Nom.	dBA									76						77
Operation range	Air side	Cooling Min.~Max.	°CDB														-10~45
		Heating Min.~Max.	°CDB														-10~20
	Water side	Cooling Min.~Max.	°CDB														-8~15
		Heating Min.~Max.	°CDB														35~55
Refrigerant	Type / GWP																R-134a / 1,430
	Circuits	Quantity															3
Refrigerant charge	Per circuit	kg		43.0	44.0	43.0	46.0		46.5	47.0	50.0						47.0
		TCO ₂ eq		61.5	62.9	61.5	65.8		66.5	67.2	71.5						49.0
Piping connections	Evaporator water inlet/outlet (OD)																139.7mm
Unit	Starting current Max	A	145	146		176		199		217	231	234	288	311	305		219.1mm
	Running current Cooling Nom.	A	134	148	163	171	184	199	212	224	240	238	263	275	319		
	Max	A	202	203		243		277		302	322	313	381	415	406		
Power supply	Phase/Frequency/Voltage	Hz/V															3~/50/400



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

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

The inverter integrated in the compressor is refrigerant cooled:

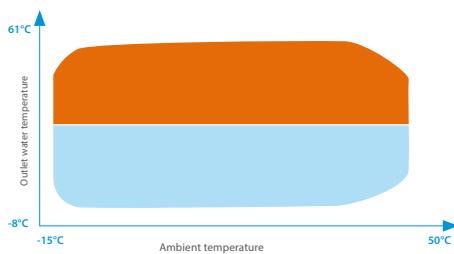
- › Safe and robust cooling system, totally independent from outdoor ambient conditions and air quality.
- › Suitable even for aggressive installation such as industrial or desert application.

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.

2

Application flexibility

Wide operating envelope for cooling and heating



Extra capacity in Boosted operation

Thanks to the variable speed drive of the compressor it is possible to benefit of an "extra" capacity during the coldest days in winter or the hottest days in summer.

Rapid Restart functionality

In case of power failure DAIKIN 4Z is able to restart in less than 30 sec. The UPS installed in electrical box keeps the unit controller always powered. It is also possible to give, if needed, priority to restore the cooling or the heating load.

3

Best solution for simultaneous cooling and heating

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

Check on
You Tube

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

› Daikin EWYD-4Z
Multipurpose Unit

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



Air to Water Multipurpose unit

- › Best solution for independent and simultaneous cooling and heating all year round
- › Top class efficiency due to Full inverter technology
- › 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



› More information
about EWYD-4ZXS



EWYD-4ZXS

Multipurpose	EWYD-4ZXS	400	450	500	550	600	650	700	800	900	C10	C11	C12	C13	C14	
SEER		4.77	5.02	5.11	5.14	5.17	5.21	5.25	5.28	5.35	5.45	5.85	5.82	5.86	5.85	
η_{sc}		187.8	197.8	201.4	202.6	203.8	205.4	207.0	208.2	211.0	215.0	231.0	229.8	231.4	231.0	
SCOP		3.68	3.84	3.82	3.80	3.80	-	-	-	-	-	-	-	-	-	
η_s		144.2	150.4	149.6	149.0	148.8	-	-	-	-	-	-	-	-	-	
Air to water – cooling only (1)	Nominal Rated Capacity – Gross	kW	403	453	504	552	604	655	705	804	903	1003	1103	1207	1307	1429
Air to water – cooling only (1)	EER – Gross		3.19	3.28	3.27	3.28	3.27	3.23	3.41	3.40	3.32	3.30	3.35	3.31	3.34	3.20
Air to water – heating only (2)	Nominal Rated Capacity – Net	kW	402	452	503	551	602	654	703	802	901	1001	1101	1204	1303	1423
Air to water – heating only (2)	EER – Net		3.17	3.25	3.25	3.25	3.24	3.19	3.37	3.36	3.28	3.27	3.32	3.28	3.29	3.15
Air to water – heating only (2)	Nominal Rated Capacity – Gross	kW	402	453	502	549	599	653	701	800	899	1001	1099	1199	1307	1423
Air to water – heating only (2)	COP – Gross		3.34	3.53	3.47	3.49	3.47	3.40	3.58	3.57	3.58	3.55	3.64	3.59	3.46	3.48
Air to water – heating only (2)	Nom. Rated Capacity – Net	kW	403	453	504	551	601	655	702	803	902	1003	1102	1202	1312	1429
Air to water – heating only (2)	COP – Net		3.33	3.52	3.45	3.47	3.45	3.38	3.55	3.54	3.55	3.53	3.62	3.56	3.43	3.45
Water to water – Cooling + heating (3)	Nom. Rated Capacity COOLING – Gross	kW	314	356	395	432	476	513	551	632	708	794	869	950	1028	1120
Water to water – Cooling + heating (3)	Nom. Rated Capacity HEATING – Gross	kW	402	454	502	548	602	651	702	801	895	997	1095	1202	1299	1421
Water to water – Cooling + heating (3)	TER – Gross		8.14	8.32	8.35	8.43	8.57	8.44	8.30	8.47	8.57	8.82	8.72	8.55	8.59	8.44
Water to water – Cooling + heating (3)	Nom. Rated Capacity COOLNG – Net	kW	313	356	394	430	475	511	549	630	705	792	867	947	1023	1114
Water to water – Cooling + heating (3)	Nom. Rated Capacity HEATING – Net	kW	402	455	503	549	603	653	704	803	898	999	1097	1205	1303	1426
Water to water – Cooling + heating (3)	TER – Net		8.03	8.19	8.20	8.24	8.38	8.23	8.10	8.26	8.34	8.65	8.52	8.33	8.31	8.13
Dimensions	Height	mm								2455						
Dimensions	Width	mm								2240						
Dimensions	Length	mm	5775		6675		7575		8475		9425	10375	11325	12275	13225	14175
Weight	Unit Weight	kg	6600	6710	7480	7480	8250	9020	9020	9020	9790	10560	11330	12100	12870	14500
Weight	Operating Weight	kg	6898	7008	7982	7960	8828	9598	9607	9598	10350	11522	12262	13032	13772	15402
	Cold/Hot side water connections	mm	139.7				168.3								219.1	
Sound level	Sound Power – Cooling (4)	dB(A)	99		99		100		102			103			104	
Sound level	Sound Pressure – Cooling at 1 m (5)	dB(A)	78	77		78	79			80					81	
Sound level	Sound Power – Heating (4)	dB(A)		98		99	100	101	102		103				104	
Sound level	Sound Pressure – Heating at 1 m (5)	dB(A)	78	77		78	79		80						81	
Cold Side	Water Volume	l	149		262	240	298	307	280		481				451	
Water heat exchangers	Water flow rate (1)	l/s	19.2	21.6	24.0	26.3	28.8	31.3	33.6	38.3	43.1	47.8	52.6	57.6	62.4	68.2
Water heat exchangers	Water pressure drop (1)	kPa	13.7	16.9	20.5	31.4	28.0	32.7	33.9	31.5	38.9	26.4	31.3	36.4	51.9	62.5
Hot Side	Water Volume	l	149		240		280	298	280	481					451	
Hot Side	Water flow rate (2)	l/s	19.4	21.9	24.3	26.6	29.0	31.6	33.9	38.7	43.5	48.4	53.2	58.0	63.2	68.8
Hot Side	Water pressure drop (2)	kPa	13.0	16.1	23.9	27.6	30.0	35.3	32.8	42.5	37.4	23.4	34.4	40.2	48.7	55.8
Fan	Quantity	n	10		12		14	16		18	20	22	24	26	30	
Fan	Nominal air flow (1)	l/s	38889		46667		54444	62222		70000	77778	85556	93333	101111	116667	
Compressor	Type								Single screw					36		
Compressor	Oil charge	l			26											
Compressor	Quantity	n.						2								
Refrigerant circuit	Refrigerant type							R134a								
Refrigerant circuit	Refrigerant charge	kg	170	175	190	210	235	255	265	285	325	380	400	410	465	495
Refrigerant circuit	Circuits	n.						2								
Power Supply	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
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› More information
about Ewyd-4ZXL



Multipurpose	EWYD-4ZXL	400	450	500	550	600	650	700	800	900	C10	C11	C12	C13	C14	
SEER		4.91	5.14	5.20	5.31	5.34	5.36	5.44	5.52	5.53	5.65	6.11	6.06	6.15	6.05	
η_{sc}		193.4	202.6	205.0	209.4	210.6	211.4	214.6	217.8	218.2	223.0	241.4	239.4	243.0	239.0	
SCOP		4.08	4.35	4.25	4.33	4.23	-	-	-	-	-	-	-	-	-	
η_s		160.2	171.2	166.9	170.3	166.0	-	-	-	-	-	-	-	-	-	
Air to water – cooling only (1)	Nominal Rated Capacity – Gross	kW	399	449	500	548	599	650	697	794	892	991	1091	1192	1291	1411
	EER – Gross		3.30	3.35	3.38	3.35	3.36	3.34	3.51	3.44	3.35	3.33	3.41	3.37	3.40	3.26
	Nominal Rated Capacity – Net	kW	399	448	499	546	598	649	696	792	890	989	1088	1189	1287	1405
	EER – Net		3.28	3.33	3.35	3.32	3.33	3.30	3.47	3.40	3.31	3.30	3.37	3.33	3.35	3.21
Air to water – heating only (2)	Nominal Rated Capacity – Gross	kW	398	448	498	544	594	647	694	795	895	994	1087	1186	1296	1415
	COP – Gross		3.61	3.80	3.75	3.75	3.75	3.68	3.87	3.88	3.91	3.77	3.85	3.84	3.69	3.78
	Nom. Rated Capacity – Net	kW	398	449	499	545	595	649	696	798	897	996	1090	1189	1301	1420
	COP – Net		3.59	3.78	3.73	3.73	3.72	3.66	3.84	3.85	3.88	3.75	3.83	3.81	3.66	3.74
Water to water – Cooling + heating (3)	Nom. Rated Capacity COOLING – Gross	kW	311	352	395	432	470	513	545	632	709	795	870	939	1028	1121
	Nom. Rated Capacity HEATING – Gross	kW	398	448	502	548	593	651	694	801	896	998	1095	1188	1299	1422
	TER – Gross		8.13	8.30	8.35	8.44	8.61	8.45	8.30	8.48	8.57	8.82	8.73	8.53	8.60	8.45
	Nom. Rated Capacity COOLNG – Net	kW	310	351	394	431	468	512	543	630	706	793	867	936	1024	1115
	Nom. Rated Capacity HEATING – Net	kW	398	449	503	550	595	653	696	804	898	1000	1098	1192	1304	1427
	TER – Net		8.02	8.17	8.20	8.25	8.42	8.24	8.10	8.26	8.35	8.66	8.53	8.32	8.33	8.15
Dimensions	Height	mm									2455					
	Width	mm									2240					
	Length	mm	5775		6675		7575		8475		9425	10375	11325	12275	13225	14175
Weight	Unit Weight	kg	6600	6710	7480	8250			9020		9790	10560	11330	12100	12870	14500
	Operating Weight	kg	6898	7008	7982	7960	8828	9598	9607	9598	10350	11522	12262	13032	13772	15402
	Cold/Hot side water connections	mm	139.7				168.3								219.1	
Sound level	Sound Power – Cooling (4)	dB(A)	93	92	93		94		96			97				98
	Sound Pressure – Cooling at 1 m (5)	dB(A)	72	71	72		73	74				75				
	Sound Power – Heating (4)	dB(A)		92		93	93	94	95	96		97			98	
	Sound Pressure – Heating at 1 m (5)	dB(A)	72	71		72		74	75	74		75				
Cold Side	Water Volume	l	149		262	240	298		307	280		481			451	
Water heat exchangers	Water flow rate (1)	l/s	19.0	21.4	23.9	26.1	28.6	31.0	33.3	37.9	42.6	47.3	52.0	56.9	61.6	67.3
	Water pressure drop (1)	kPa	13.5	16.7	20.2	30.9	27.6	32.3	33.2	30.8	38.0	25.8	30.7	35.6	50.8	61.1
Hot Side	Water Volume	l	149		240		280		298	280	481				451	
	Water flow rate (2)	l/s	19.2	21.7	24.1	26.3	28.7	31.3	33.6	38.5	43.3	48.1	52.6	57.4	62.7	68.4
	Water pressure drop (2)	kPa	12.8	15.8	23.5	27.1	29.5	34.7	32.3	41.9	37.1	23.2	33.8	39.5	48.0	55.2
Fan	Quantity	n	10	10	12	12	14	16	16	16	18	20	22	24	26	30
	Nominal air flow (1)	l/s	34722		41667		48611		55556		62500	69444	76389	83333	90278	104167
Compressor	Type									Single screw						
	Oil charge	l				26						36				
	Quantity	n.								2						
Refrigerant circuit	Refrigerant type									R134a						
	Refrigerant charge	kg	170	175	190	210	235	255	265	285	325	380	400	410	465	495
	Circuits	n.								2						
Power Supply	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.

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Air to Water Multipurpose unit

› More information
about EWYD-4ZXR



EWYD-4ZXL/XR

Multipurpose	EWYD-4ZXR	400	450	500	550	600	650	700	800	900	C10	C11	C12	C13	C14		
SEER		4.76	5.01	5.19	5.23	5.30	5.30	4.87	5.28	5.41	5.52	5.84	6	6.04	5.97		
η_{sc}		187.4	197.4	204.6	206.2	209.0	209.0	191.8	208.2	213.4	217.8	230.6	237.0	238.6	235.8		
SCOP		3.90	4.12	4.07	4.13	4.03	3.98	3.92	-	-	-	-	-	-	-		
η_s		152.9	161.9	159.8	162.2	158.1	156.3	153.7	-	-	-	-	-	-	-		
Air to water – cooling only (1)	Nominal Rated Capacity – Gross	kW	358	401	453	497	549	598	620	691	793	890	968	1071	1162	1274	
	EER – Gross		3.07	3.08	3.15	3.09	3.13	3.10	3.22	3.10	2.98	2.95	3.09	3.03	3.07	2.98	
Air to water – heating only (2)	Nominal Rated Capacity – Net	kW	358	400	452	496	548	597	619	690	791	888	966	1068	1159	1270	
	EER – Net		3.05	3.06	3.12	3.06	3.11	3.07	3.19	3.08	2.95	2.93	3.06	3.01	3.03	2.94	
Air to water – heating only (2)	Nominal Rated Capacity – Gross	kW	358	398	451	492	549	599	620	689	794	890	968	1067	1161	1274	
	COP – Gross		3.49	3.66	3.66	3.65	3.61	3.58	3.70	3.74	3.74	3.72	3.80	3.75	3.75	3.72	
Water to water – Cooling + heating (3)	Nom. Rated Capacity COOLING – Gross	kW	280	313	356	389	436	474	488	545	629	710	774	849	924	1010	
	Nom. Rated Capacity HEATING – Gross	kW	359	399	452	493	549	599	623	692	796	893	970	1066	1161	1276	
	TER – Gross		8.10	8.28	8.34	8.46	8.69	8.58	8.22	8.41	8.54	8.78	8.89	8.79	8.59		
	Nom. Rated Capacity COOLNG – Net	kW	280	313	355	388	435	473	486	544	628	709	772	846	920	1005	
	Nom. Rated Capacity HEATING – Net	kW	360	400	453	494	551	601	624	694	798	895	972	1069	1164	1280	
	TER – Net		7.99	8.17	8.20	8.29	8.51	8.38	8.05	8.23	8.35	8.63	8.72	8.60	8.55	8.32	
Dimensions	Height	mm								2455							
	Width	mm								2240							
	Length	mm	5775		6675		7575		8475		9425	10375	11325	12275	13225	14175	
Weight	Unit Weight	kg	7100	7210	7980	7980	8750	9520	9720	9720	10490	11260	12030	12800	13570	15200	
	Operating Weight	kg	7398	7508	8482	8460	9328	10098	10307	10298	11050	12222	12962	13732	14472	16102	
	Cold/Hot side water connections	mm	139.7	139.7	168.3	168.3	168.3	168.3	168.3	168.3	168.3	219.1	219.1	219.1	219.1	219.1	
Sound level	Sound Power – Cooling (4)	dB(A)	87	86	87		88		90		91		92				
	Sound Pressure – Cooling at 1 m (5)	dB(A)			66			68			69						
	Sound Power – Heating (4)	dB(A)	88			89		90	91		92		93		94		
	Sound Pressure – Heating at 1 m (5)	dB(A)	68	67		68		69			70						
Water heat exchangers	Cold Side	Water Volume	l	149		262	240	298		307	280		481		451		
		Water flow rate (1)	l/s	17.1	19.1	21.6	23.7	26.2	28.5	29.6	33.0	37.8	42.4	46.2	51.1	55.4	60.8
		Water pressure drop (1)	kPa	11.1	13.6	16.9	25.8	23.4	27.7	26.7	24.0	30.7	21.3	24.8	29.2	41.6	50.9
	Hot Side	Water Volume	l	149		240		280		298	280	481		451			
		Water flow rate (2)	l/s	17.3	19.3	21.8	23.8	26.6	29.0	30.0	33.3	38.4	43.1	46.8	51.6	56.2	61.6
		Water pressure drop (2)	kPa	11.1	13.5	20.3	23.7	27.0	31.6	27.5	33.3	31.3	19.8	28.6	34.1	39.7	47.0
Fan	Quantity	n	10		12	14		16		18	20	22	24	26	30		
	Nominal air flow (1)	l/s	19444		23333	27222		31111		35000	38889	42778	46667	50556	58333		
Compressor	Type								Single screw				36				
	Oil charge	l				26											
	Quantity	n.						2									
Refrigerant circuit	Refrigerant type							R134a									
	Refrigerant charge	kg	170	175	190	210	235	255	265	285	325	380	400	410	465	495	
	Circuits	n.						2									
Power Supply	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.

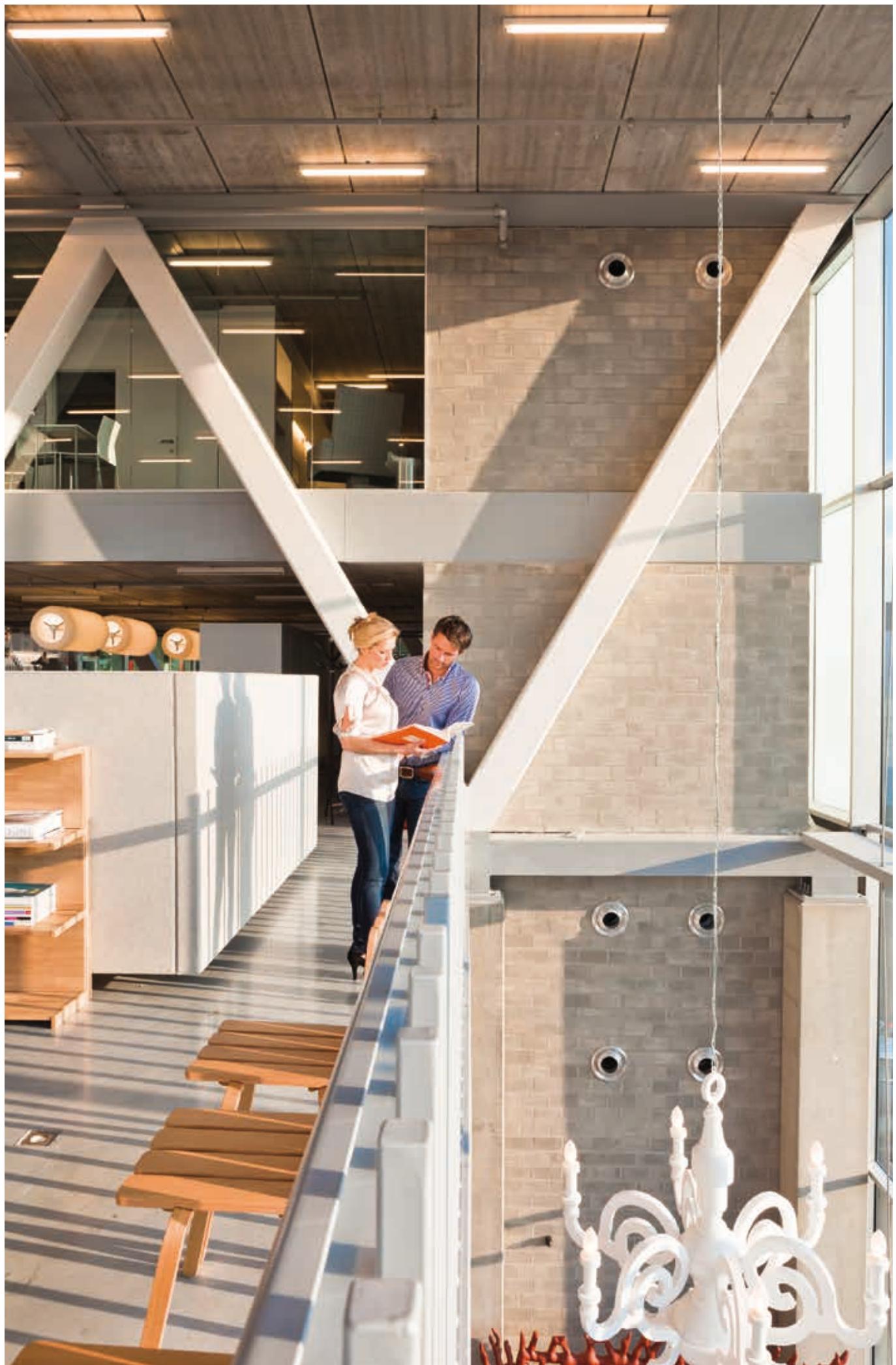


Table of content

Condensing Unit

ERAD-E-SS	82
ERAD-E-SL	83
Options	86
Accessories	88

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)

› More information
about ERAD-E-SS



Cooling only			ERAD-E-SS										
Cooling capacity	Nom.	kW	120	140	170	200	220	250	310	370	440	490	
Power input	Cooling	Nom.	kW	42.1	51.2	57.7	65.6	74.2	77.0	93.8	123	148	
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									
		Width	mm	1,292									
		Depth	mm	2,165		3,065		3,965					3,070
Weight	Unit	kg	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									
	Type			Direct propeller									
Fan	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.					900					
Sound power level	Cooling	Nom.	dBA	92				93	94			95	
Sound pressure level	Cooling	Nom.	dBA	74						75		76	
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									
	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
Power supply	Maximum running current		A	86	103	119	132	157	164	198	242	284	298
	Phase/Frequency/Voltage		Hz/V	3~/50/400									

Air cooled screw condensing unit, standard efficiency, low sound



› More information
about ERAD-E-SL

Cooling only			ERAD-E-SL	120	140	160	190	210	240	300	350	410	460				
Cooling capacity	Nom.	kW	116	137	159	187	209	243	298	352	409	462					
Power input	Cooling	Nom.	kW	42.4	52.5	57.7	66.3	73.9	78.1	91.9	122	150	167				
Capacity control	Method			Stepless													
	Minimum capacity	%		25.0													
EER				2.74	2.61	2.75	2.83		3.11	3.24	2.88	2.73	2.76				
Dimensions	Unit	Height	mm	2,273						2,223							
		Width	mm	1,292						2,236							
		Depth	mm	2,165		3,065		3,965		3,070							
Weight	Unit	kg	kg	1,684		1,841		2,036		2,789							
	Operation weight	kg	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		90		91		92		93					
Sound pressure level	Cooling	Nom.	dBA	71													
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													
	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													

Options - Air cooled chillers

Options - Small chillers

Chiller series	Integrated hydraulics		LWE			Electrical	
	Single pump		High Glycol		Low Glycol	Evaporator heater tape	
	OPSP	OPZH	OPZL	OP10			
EWAQ-BVP	STD					STD	
EWYQ-BVP	STD					STD	
EWAQ-ACV3	STD					STD	
EWAQ-ACW1	STD					STD	
EWYQ-ACV3	STD					STD	
EWYQ-ACW1	STD					STD	
EWWQ-KBW1N		Option		Option			
EWLQ-KBW1N		Option		Option			

(l) Impossible option combination: OPZH+OPZL

Options - Medium and large chillers (Part 1)

Description	Code	EWAQ~CAW EWYQ~CAW	EWAQ-G-	EWYQ-G-	EWAQ-F-SS/XS	EWAQ-E-XS	EWAQ-F-SL/SR/XL/XR	EWAQ-E-XL/XR
Total heat recovery	01		Option					
Total heat recovery (1 circuit)	02							
Partial heat recovery	03a		Option	Option	Option	Option	Option	Option
Evaporator 1 Pass	03b							
Direct on line starter (DOL)	04		STD	STD	STD	STD	STD	STD
WyeDelta compressor starter (YD)	05							
Soft starter	06		Option	Option	Option	Option	Option	Option
Heat pump version	07							
Heat pump version (including pursuit mode)	07a (15)							
Brine version	08 (1)	Option	Option	Option	Option	Option	Option	Option
Double setpoint	10		STD	STD		STD	STD	STD
Compressor thermal overload relays	11				Option	Option	Option	Option
Fans thermal relays	12							
Phase monitor	13				Option	Option	Option	Option
Inverter compressor starter	14							
Under / Over voltage control	15		Option	Option	Option	Option	Option	Option
Energy meter	16				Option	Option	Option	Option
Energy meter (including current limit)	16a							
Capacitors for power factor correction	17		Option	Option	Option	Option	Option	Option
Current limit	19							
Evaporator viciatalic kit	20		STD	STD	STD	STD	STD	STD
Evaporator flange kit	21							
Evaporator marine waterbox viciatalic (2 passes)	22							
Evaporator marine waterbox viciatalic (1 pass)	22a							
Evaporator marine waterbox flanged (2 passes)	24							
Evaporator marine waterbox flanged (1 pass)	24a							
Condenser double flanges kit	26							
Evaporator water side design pressure (10 Bar)	27							
Evaporator water side design pressure (16 Bar)	28							
20mm evaporator insulation	29		STD	STD	STD	STD	STD	STD
Axial fans (100 Pa lift)	30							
Axial fans (250 Pa lift)	32				CF	CF		
20mm condenser insulation	33							
Condenser viciatalic kit	36							
Condenser marine waterbox viciatalic (2 passes)	38							
Condenser marine waterbox viciatalic (1 pass)	38a							
Condenser marine waterbox flanged (2 passes)	40							
Condenser marine waterbox flanged (1 pass)	40a							
Speedtrol (fan speed control device ON/OFF up to 18°C)	42				Option	Option	Option	Option
Speedtrol (fan speed control device ON/OFF down to 10°C in cooling)	42a							
Condenser coil guards	43				Option	Option	Option	Option
Evaporator area guards	44				Option	Option	Option	Option
CuCu condenser coil	45				Option	Option	Option	Option
CuCuSn condenser coil	46				Option	Option	Option	Option
Condenser water side design pressure (16 Bar)	47							
Condenser water side design pressure (10 Bar)	47a							
Alucoat fins coil	49			STD	Option	Option	Option	Option
CuNi 9010 condenser tubes	50							
Condenser 1 pass (ΔT 48 °C)	51							
Condenser 2 passes (ΔT 48 °C)	52							
Condenser 2 passes (ΔT 915 °C)	53							
Condenser 4 passes	54							
Water pressure differential switch on condenser	55							
Water pressure differential switch on evaporator	56							
Evaporator electric heater	57	Option	STD	STD	STD	STD	STD	STD
Evaporator flow switch	58		Option	Option	STD	STD	STD	STD
Condenser flow switch	59							
Electronic expansion valve	60		STD	STD	STD	STD	STD	STD
Discharge line shutoff valve	61				Option	Option	Option	Option
Suction line shutoff valve	62				Option	Option	Option	Option

(l) Option 08 includes option 29 and option 146 - (2) Option 99(a) includes 'Fan overload protection' - (3) Piping between the inertial tank and the unit is not included. Electric heater power supply has to be provided from external source -

(4) The order of inverter compressor will have an impact on the delivery time: please contact the factory - (5) Unit performance will be affected; contact factory for information. It is mandatory to order the option 26 when selecting CU-Ni 90-10 condenser tubes - (6) Sound proof system - compressor enclosure - (7) Compressor cabinet will be supplied in a separate kit and not assembled. For better performance the cabinet will be integral kind (around the whole chiller, not only around compressors). Cabinet assembly is not included in the supply - (9) Special transport is required (flat rack truck and open top when option 01 is selected) for model sizes as follows: EWWD12I-SS - EWWD1C18I-SS (10) Forklift loading-unloading operations are not allowed when option 01 is selected for model sizes as follows: EWWD12I-SS - EWWD1C18I-SS - (11) Special Transport is required (flat rack truck and open top) for model sizes as follows: EWLD1C10I-SS - EWLD1C17I-SS or EWWQC10B-SS or EWWQC12B-SS or EWWQC10B-XS, EWWQC12B-XS - EWWQC21B-XS - (12) Forklift loading-unloading operations are not allowed for model sizes as follows: EWLD1C10I-SS - EWLD1C17I-SS - EWWQC10B-SS or EWWQC12B-SS or EWWQC10B-XS - EWWQC12B-XS - (13) STD only for single circuit unit (14) STD only for Premium and High efficiency version - (15) Option 07a includes option 33 (20mm condenser insulation) - (16) Option 111 contains option 07a (Heat pump version, including pursuit mode) and option 33 (20mm condenser insulation)

CF = Contact the factory - STD = Standard - SO = Specify at Order entry - NC = No additional cost

Options - Medium and large chillers (Part 1)

Options - Medium and large chillers (Part 2)

Description	Code	EWAQ~CAW EWYQ~CAW	EWAQ-G-	EWYQ-G-	EWAQ-F-SS/XS	EWAQ-E-XS	EWAQ-F-SL/ XR/XL/XR	EWAQ-E-XL/XR	
High pressure side manometers	63				Option	Option	Option	Option	
Low pressure side manometers	64				Option	Option	Option	Option	
Ambient outside temperature sensor and setpoint reset	67		STD	STD	STD	STD	STD	STD	
Hour run meter	68		STD	STD	STD	STD	STD	STD	
General fault contactor	69		STD	STD	STD	STD	STD	STD	
Container Kit	71	Option	Option	Option	Option	Option	Option	Option	
Rubber anti vibration mounts	75	Option	Option	Option	Option	Option	Option	Option	
Sound proof system	76								
Sound proof system (integral)	76-a								
Sound proof system (compressor)	76-b								
Spring anti vibration mounts	77		Option	Option	Option	Option	Option	Option	
One centrifugal pump (low lift)	78	Option	Option	Option					
One centrifugal pump --- SPK1	78-a				Option	Option	Option	Option	
One centrifugal pump --- SPK2	78-b				Option	Option	Option	Option	
One centrifugal pump --- SPK3	78-c				Option	Option	Option	Option	
One centrifugal pump --- SPK4	78-d				Option	Option	Option	Option	
One centrifugal pump --- SPK5	78-e					Option	Option	Option	
One centrifugal pump --- SPK6	78-f								
One centrifugal pump --- SPK7	78-g								
One centrifugal pump --- SPK8	78-h								
One centrifugal pump --- SPK9	78-i								
One centrifugal pump --- SPK10	78-j								
One centrifugal pump --- SPK1a	78-l								
One centrifugal pump --- SPK1b	78-m								
One centrifugal pump --- SPK1c	78-n								
One centrifugal pump (high lift)	79	Option	Option	Option					
Two centrifugal pump (low lift)	80	Option	Option	Option					
Two centrifugal pump --- DPK1	80-a								
Two centrifugal pump --- DPK2	80-b								
Two centrifugal pump --- DPK3	80-c								
Two centrifugal pump --- DPK4	80-d								
Two centrifugal pump --- DPK5	80-e								
Two centrifugal pump --- DPK6	80-f								
Two centrifugal pump --- DPK7	80-g								
Two centrifugal pump --- DPK8	80-h								
Two centrifugal pump (high lift)	81		Option	Option					
External tank without cabinet (500 L)	83 (3)		Option	Option	Option	Option	Option	Option	
External tank without cabinet (1000 L)	84 (3)		Option	Option	Option	Option	Option	Option	
External tank with cabinet (500 L)	87 (3)		Option	Option	Option	Option	Option	Option	
External tank with cabinet (1000 L)	88 (3)		Option	Option	Option	Option	Option	Option	
Acoustic test	89								
Setpoint reset, Demand limit and Alarm from external device	90				Option	Option	Option	Option	
Double pressure relief valve with diverter	91		Option	Option	Option	Option	Option	Option	
PW COMPRESSOR - PART WINDING START	92								
Low ambient kit for 1 circuit	93								
Low ambient kit for 2 circuits	94								
Compressors circuit breakers	95		Option	Option	Option	Option	Option	Option	
Fans circuit breakers	96		Option	Option	Option	Option	Option	Option	
Main switch interlock door	97		STD	STD	STD	STD	STD	STD	
Emergency stop	98								
Fans speed regulation (+ fan silent mode)	99 (2)				Option	Option	Option	Option	
Fans speed regulation (inverter)	99a (2)								
Refrigerant recovery unit	100								
Evaporator right water connections	101								
Ground fault relay	102				Option	Option	Option	Option	
Evaporator 1 pass	103								
Evaporator 2 passes	103a								
Evaporator 3 passes	103b								
Evaporator double flange kit	104								
Liquid receiver	105								
Rapid restart	110								
High temperature kit	111								
Transport kit	112		Option	Option	Option	Option	Option	Option	
Optimized free cooling (VFD fans regulation)	113-a								
Optimized free cooling (On/Off fans)	113-b								
Nordic kit	114			Option					
Water filter	115		Option	Option	STD	STD	STD	STD	
Condenser coil protection panels	116				Option	Option	Option	Option	
Blygold coil treatment	117				Option	Option	Option	Option	
Inverter kit for 1 centr pump low lift	120e		Option	Option					
Inverter kit for 1 centr pump high lift	120f		Option	Option					
Inverter kit for 2 centr pumps low lift	120g								
Inverter kit for 2 centr pumps high lift	120h								
Refrigerant leak detection	121								
Discharge and suction line shut-off valve	126		Option	Option					
High and low pressure side manometers	127		Option	Option					
Master/slave	128		STD	STD	STD	STD	STD	STD	
One centrifugal pump (low lift) + tank	134		Option	Option					
One centrifugal pump (high lift) + tank	135		Option	Option					
Two centrifugal pump (low lift) + tank	136		Option	Option					
Two centrifugal pump (high lift) + tank	137		Option	Option					
Coil guard	138		Option	Option					
E-coating microchannel coils	139		Option	Option					
Unit guards (to cover unit access)	140								
Side panels on coil ends	141								
High ambient kit (operatin 46°C)	142								
Variable primary flow	143								
Diff pressure transd (shipped loose)	144								
EC motor fans	145								
Compressor thermal insulation	146								
Knock-down electrical panel	147								
Automatic transfer switch (free standing)	149								
Inverter EN61800-3 class C2 compliant	150								
Rubber pads	152								
Blue coat	153								
Evaporator Optimized for high delta T	154								
Daikin on site modem (with antenna)	155								
AC 9000 rpm fans	156								
AC 700 rpm fans	157								
Brushless fans up to 900 rpm	158								
Brushless fans up to 700 rpm	159								
100 PA ESP fans	160				Option				
100 PA ESP fans	160								
200 PA ESP fans	161								
Cu-Ni Evaporator tubes	164								
Marine version	167								
120 Pa ESP fans	168								

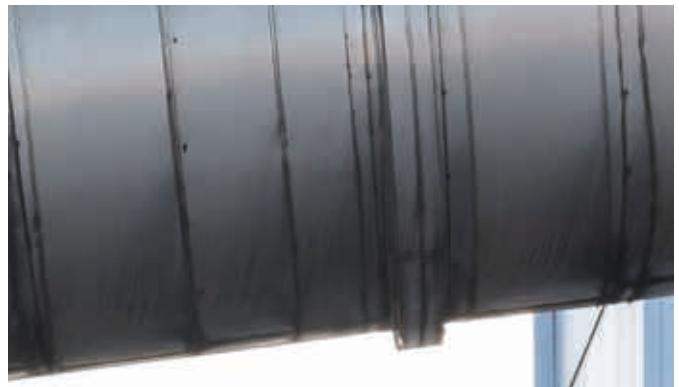
Accessories - Air cooled chillers

Panels	Air-cooled chillers										
	EWAQ~BVP EWYQ~BVP	EWAQ~AC EWYQ~AC	EWAQ~CAW EWYQ~CAW	EWYQ-F-	EWYD~BZ	EWYD~4Z	EWAD~TZ (B&B)	EWAD~T-(B)	EWAD~E-	ERAD~E-	
EKDICMPAB (a) (b) iCM Primary Basic							●	●	●		
EKDICMPAL (a) (b) iCM Primary for evaporator peripherals Light							●	●	●		
EKDICMPAF (a) (b) iCM Primary for evaporator peripherals Full							●	●	●		
EKPWPRO PlantWatchPRO monitoring system					●						
EKPWPROM PlantWatchPRO monitoring system (modem & webserver included)					●						
EKTSMS Temperature sensor for master/slave configuration				●							
EKRUMCL1 User Interface	●										
Air-cooled chillers											
Serial Cards & Communication Modules		EWAQ~BVP EWYQ~BVP	EWAQ~AC EWYQ~AC	EWAQ~CAW EWYQ~CAW	EWYQ-F-	EWYD~BZ	EWYD~4Z	EWAD~TZ (B&B)	EWAD~T-(B)	EWAD~E-	ERAD~E-
EKAC200J Serial Card RS485/Modbus						●					
EKACBAC Ethernet Card BACnet						●					
EKAACLONP Serial Card LON FTT10						●					
EKACRS232 Serial Card RS232 Modem Interface (single unit only)						●					
EKACWEB Web Server Card						●					
EKACBACMSTP Serial Card BACnet MSTP						●					
EKACBACCERT Serial Card BACnet pre-loaded (centrifugal chillers)											
EKACMSTPCERT Serial Card BACnet pre-loaded MSTP (centrifugal chillers)											
EKCM200J ModBus RTU communication module					●		●	●	●	●	●
EKCMLON LON communication module					●		●	●	●	●	●
EKCMBAKMSTP BACnet/MSTP communication module					●	●	●	●	●	●	●
EKCMBAKIP BACnet/IP communication module					●		●	●	●	●	●
EKACPG Communication cards											
Air-cooled chillers											
Other Systems & Accessories		EWAQ~BVP EWYQ~BVP	EWAQ~AC EWYQ~AC	EWAQ~CAW EWYQ~CAW	EWYQ-F-	EWYD~BZ	EWYD~4Z	EWAD~TZ (B&B)	EWAD~T-(B)	EWAD~E-	ERAD~E-
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						●					
EKRPIAHT Digital input/output PCB				●							
EKRUAHTB Remote user interface			●								
DTA104A62 External control adapter		●									
BHGP26A1 Digital pressure gauge kit	●										
EKQDP2M016 (h) Differential Pressure Sensor 4-20 mA 0-160 kPa						●	●	●	●	●	
EKQDP2M020 (h) Differential Pressure Sensor 4-20 mA 0-250 kPa						●	●	●	●	●	
EKQDP2M040 (h) Differential Pressure Sensor 4-20 mA 0-400 kPa						●	●	●	●	●	
EKQDP2M060 (h) 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 and total heat recovery options on A/C and W/C chillers are not compatible
- (c) in case you are ordering iCM panels please contact factory
- (d) For 45/55/65 Hp-units 2 pieces are needed

EWAD~D-	EWAQ~G-	EWYQ~G-	EWAQ~E (single)	EWAQ~F (dual)	EWAD~C-	EWAD~CZ	EWAD~CF (c)
●	●		●	●	●	●	●
●	●		●	●	●	●	●
●	●		●	●	●	●	●
	●	●	●	●			



EWAD~D-	EWAQ~G-	EWYQ~G-	EWAQ~E (single)	EWAQ~F (dual)	EWAD~C-	EWAD~CZ	EWAD~CF
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●



EWAD~D-	EWAQ~G-	EWYQ~G-	EWAQ~E (single)	EWAQ~F (dual)	EWAD~C-	EWAD~CZ	EWAD~CF
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●



- (e) Only available for modular units (EWWP~KAW1M)
(f) For 009/010/011/013 units (price available in SAP system)
(g) Price available in SAP system
(h) Differential pressure sensor are specific for iCM panels in variable primary flow management



Why choose for a water cooled chiller?

Daikin's efficient, profitable and maintenance-friendly water cooled chillers are especially suitable for critical industrial applications where a temperature control accuracy of $\pm 0.5^\circ\text{C}$ is required. Water cooled chillers are typically intended for indoor installation and operation. Water cooled chillers are available with different compressor types:

Water cooled scroll chillers

These units are among the most efficient, quiet and reliable chillers available today. Units can be easily integrated with the HVAC system of your choice.

Water cooled screw chillers

The Daikin water cooled screw chillers provide the ideal solution for sound sensitive environments. Applications range from comfort cooling to ice making.

Water cooled centrifugal chillers

Small footprint, quiet compressor, easy integration with existing HVAC system... This chiller offers you a return on investment throughout its life cycle. Ideal solution for large cooling requirements (e.g. district cooling).

Large product line-up

Thanks to an extensive product line-up in medium-to large-scale facilities (from 13 kW up to 10,900 kW), you can select the optimum model for your application.

Application versatility

Daikin delivers energy efficiency to a wide range of process and comfort climate applications, for all conditions and cooling or heating requirements. These chillers generate cold and hot water, which can be used for chilling, heating or even both at the same time.

Outstanding durability

The latest technology for magnetic bearings is used in the compressor, the heart of the centrifugal chiller. Result? Outstanding durability for lower maintenance costs.

Installation flexibility

Water cooled chillers can be installed indoors and require only very limited space in a machine room.

Table of content

Water cooled

Cooling & Heating only		
NEW	EWWQ-KBW1N	92
	EWWD-G-SS	94
	EWWD-G-XS	95
	EWHQ-G-SS	96
	EWWQ-G-SS	97
	EWWQ-L-SS	98
	EWWD-VZ	100
NEW	EWWD-VZSS	102
	EWWD-VZXS	103
	EWWD-VZPS	104
	EWWH-VZSS	107
	EWWH-VZXS	108
	EWWH-VZPS	109
	EWWD-J-SS	110
Centrifugal chillers		
	EWWD-FZXS	112
NEW	EWWD-DZXE/XS	113
	DWDC/DWSC	114
	Options	116
	Accessories	118

Water cooled scroll heat pump

- › One of the most compact units on the market: 600mm x 600mm x 600mm
- › Low energy consumption
- › Low operating sound level
- › Low refrigerant volume
- › Stainless steel plate heat exchanger
- › Extension possible to 183kW
- › Easy installation and maintenance
- › Remote cooling or heating selection
- › Water/water heat pump, with water reversibility
- › Standard integrated: water filter, flow switch, air purge, pressure ports
- › Advanced µC²SE controller for direct connection to a Modbus based BMS or to a remote user interface



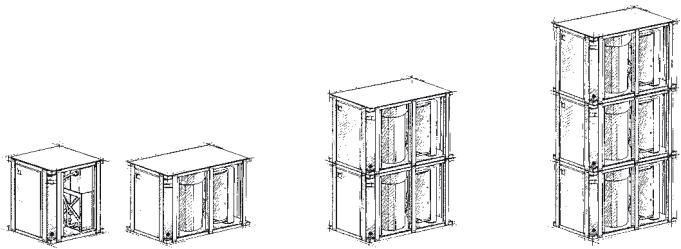
› More information
about EWWQ-KBW1N



Cooling only/Heating only			EWWQ-KBW1N												
Cooling capacity	Nom.	kW	014	025	033	049	064	098	113	128	147	162	177	192	
Power input	Cooling Nom.	kW	3.15	5.72	7.3	11.42	14.58	22.7	25.8	28.9	33.9	37	40.1	43.2	
Capacity control	Minimum capacity	%	100			50			25			16			
EER			4.209	4.177	4.164	4.127	4.182	4.17	4.19	4.22	4.18	4.2	4.22	4.24	
ESEER			4.52	4.58	4.72	4.56	4.71	4.65	4.64	4.66	4.7	4.69	4.70	4.71	
IPLV			5.13	5.27	5.41	5.36	5.47	5.36	5.42	5.47	5.36	5.4	5.44	5.47	
Dimensions	Unit	Height	mm	600			1,200			1,800					
		Width	mm	600			600			1,200					
		Depth	mm	600			1,200			1,800					
Weight	Unit	kg	120	170	175	310	340	620	650	680	930	960	990	1,020	
	Operation weight	kg	123	175	182	320	353	640	673	707	960	993	1,026	1,060	
Water heat exchanger	Type		Brazed plate												
- evaporator	Water volume	l	1.23	1.93	2.68	4.5	5.93	9	10	12	14	15	16	18	
	Waterflow rate Nom.	l/s	0.64	1.15	1.46	2.26	2.92	4.5	5.2	5.8	6.8	7.4	8.1	8.8	
	Water pressure drop Cooling Nom.	kPa	19.6	28.5	25.7	24.3	25.3	24.3	25.2	24.3	25.2	24.3	25.2	25.2	
Water heat exchanger	Type		Brazed plate												
- condenser	Water volume	l	1.83	2.93	4.03	5.45	7.35	10.9	12.8	14.69	16.35	18.25	20.15	22.04	
	Water flow rate Nom.	l/s	0.78	1.41	1.83	2.78	3.61	5.57	6.39	7.21	8.35	9.17	10	10.8	
	Water pressure drop Cooling Nom.	kPa	13.2	18.3	18.5	26.9	28.5	26.9	28.5	26.9	26.9	26.9	28.5	28.5	
Compressor	Type		Scroll compressor												
	Quantity		1		2		4		6						
Sound power level	Cooling Nom.	dBA	64	71	67	74	71	75	77	73	77	78	79		
Sound pressure level	Cooling Nom.	dBA	50	57	53	60	55.70	59.70	61.70	56.9	60.9	61.9	62.9		
Operation range	Evaporator Cooling	Min.-Max.	°CDB	-10~20											
	Condenser Cooling	Min.-Max.	°CDB	20~55											
Refrigerant	Type		R-410A												
	Charge	kg	1.2	2	3.1	4.6	5.6	9.4	10.2	11.2	13.8	14.8	15.8	16.8	
	Circuits Quantity		1		2		4		6						
Piping connections	Evaporator water inlet/outlet (OD)		G1"		G1" 1/2		2 x 2x G1" 1/2		3 x 3x G1" 1/2						
	Condenser water inlet/outlet (OD)		G1"		G1" 1/2		2 x 2x G1" 1/2		3 x 3x G1" 1/2						
Unit	Starting current Max	A	61.8	101.9	137.9	117.55	158.63	148.86	189.93	200.09	180.16	221.24	231.39	241.54	
	Running Cooling Nom.	A	5.99	9.29	12.98	18.69	26.08	37.37	44.75	52.12	56.06	63.44	70.81	78.18	
	current Max	A	9.47	15.65	20.73	31.31	41.46	62.61	72.76	82.91	93.92	104.07	114.22	124.37	
Power supply	Phase/Frequency/Voltage	Hz/V	3~/50/400												

Water cooled scroll chiller

Combination table



		Single Module					2 x Modules			3 x Modules			
Unit Index		014	025	033	049	064	098	113	128	147	162	177	192
Capacity (kW)		13	24	31	49	64	98	113	128	147	162	177	192
Unit + control factory mounted	EWWQ014KBW1N	1	-	-	-	-	-	-	-	-	-	-	-
	EWWQ025KBW1N	-	1	-	-	-	-	-	-	-	-	-	-
	EWWQ033KBW1N	-	-	1	-	-	-	-	-	-	-	-	-
	EWWQ049KBW1N	-	-	-	1	-	-	-	-	-	-	-	-
	EWWQ064KBW1N	-	-	-	-	1	-	-	-	-	-	-	-
Modular unit (controller available as accessory)	EWWQ049KAW1M	-	-	-	-	-	2	1	-	3	2	1	-
	EWWQ064KAW1M	-	-	-	-	-	-	1	2	-	1	2	3
Controller for modular unit	ECB2MUAW	-	-	-	-	-	1	1	1	-	-	-	-
	ECB3MUAW	-	-	-	-	-	-	-	-	1	1	1	1

Note 1: the above combination table is also valid for standard models with OPZL or OPZH.

Note 2: condenserless versions are only available as single modules only.



Water cooled screw chiller, standard efficiency, standard sound

- › Stepless single-screw compressor
- › 1-2 truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- › Partial and total heat recovery option available
- › MicroTech III controller with superior control logic and easy interface

› More information
about EWWD-G-SS



Heating only & Cooling only			EWWD-G-SS	170	210	260	300
Cooling capacity	Nom.	kW		165	200	252	279
Heating capacity	Nom.	kW		209	253	319	357
Capacity control	Method			Stepless			
	Minimum capacity	%		25.0			
Power input	Cooling Nom.	kW	43.8	52.6	67.4	78.5	
	Heating Nom.	kW	43.8	52.6	67.4	78.5	
EER			3.77	3.80	3.74	3.55	
COP			4.77	4.80	4.74	4.55	
ESEER			4.50	4.54	4.46	4.25	
IPLV			5.36	5.35	5.30	5.04	
Space heating	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	%	160	159	154
			SCOP		4.20	4.17	4.18
Dimensions	Unit	HeightxWidthxDepth	mm	1,860x920x3,435			
Weight	Unit	kg		1,393	1,410	1,503	
	Operation weight	kg		1,470	1,480	1,650	
Water heat exchanger	Type			Single pass shell and tube			
- evaporator	Water volume	l		13	56	123	
	Water flow rate	Nom.	l/s	7.9	9.6	12.1	13.4
Water heat exchanger	Type			Single pass shell and tube			
- condenser	Water volume	l		60	15		
	Water flow rate	Nom.	l/s	10.0	12.1	15.3	17.1
	Water pressure drop	Cooling Nom.	kPa	38	39	60	73
Compressor	Type			Single screw compressor			
	Quantity			1			
Sound power level	Cooling Nom.	dBA		88			
Sound pressure level	Cooling Nom.	dBA		70			
Operation range	Evaporator Cooling	Min.-Max.	°CDB	-8 ~15			
	Condenser Cooling	Min.-Max.	°CDB	20~55			
Refrigerant	Type/GWP			R-134a/1,430			
	Circuits	Quantity		1			
Refrigerant charge		kg/TCO2Eq		60.0/85.8			
Piping connections	Evaporator water inlet/outlet (OD)			88.9		114.3	
	Condenser water inlet/outlet (OD)				5"		
Power supply	Phase/Frequency/Voltage	Hz/V		3~50/400			
Unit	Starting current	Max	A	288			
	Running current	Cooling Nom.	A	75	85	105	122
		Max	A	114	136	165	186

Water cooled screw chiller, high efficiency, standard sound



› More information
about EWWD-G-XS

Cooling only/Heating only			EWWD-G-XS	190	230	280	380	400	460	500	550	650
Space cooling	A Condition 35°C	Pdc	kW	185.5	222.3	276.2	365.1	407.2	443.1	494.6	539.3	601.8
	ηs,c		%	222.4	228.8	230.4	256.4	266.4	264.0	277.2	275.6	262.0
SEER				5.8	5.9	6.0	6.6	6.9	6.8	7.1	6.8	
Cooling capacity	Nom.		kW	185.5	222.3	276.2	365.1	407.2	443.1	494.6	539.3	601.8
Power input	Cooling	Nom.	kW	40.59	49.4	61.09	81.09	89.06	97.13	107.4	117.50	141.20
Capacity control	Method							Fixed				
	Minimum capacity		%		25				12.5			
EER				4.57	4.5	4.521	4.502	4.572	4.561	4.606	4.589	4.261
ESEER				5.37	5.31	5.33	5.54	5.62	5.61	5.68	5.67	5.27
IPLV				6.45	6.36	6.35	6.47	6.57	6.55	6.65	6.64	6.17
Dimensions	Unit	Height	mm	1,860					1,880			
		Width	mm	920					860			
		Depth	mm	3,435					4,305			
Weight	Unit		kg	1,650	1,665	1,680	2,800	2,945	2,955	2,975	2,990	
	Operation weight		kg	1,800	1,810	1,820	3,020	3,280	3,290	3,315	3,340	
Water heat exchanger - evaporator	Type						Shell and tube					
	Water volume		l	125	120	110	170	285		280		
	Water flow rate	Nom.	l/s	8.9	10.6	13.2	17.5	19.5	21.2	23.7	25.8	28.8
	Water pressure drop	Cooling	Nom.	kPa	23	31	30	28	21	24	33	47
Water heat exchanger - condenser	Type				Shell and tube							
	Water volume		l	22	25	44	47	50	59	68		
	Water flow rate	Nom.	l/s	10.87	13.06	16.21	21.46	23.87	25.98	28.95	31.6	35.74
	Water pressure drop	Cooling	Nom.	kPa	17	20	25	16	17	16	19	
Compressor	Type				Driven vapour compression							
	Quantity				1				2			
Sound power level	Cooling	Nom.	dBA		88				90			
Sound pressure level	Cooling	Nom.	dBA		70				72			
Operation range	Evaporator	Cooling	Min.~Max.	°CDB			-8~15					
	Condenser	Cooling	Min.~Max.	°CDB			20~55					
Refrigerant	Type/GWP						R-134a/1,430					
	Charge		kg		60		130	120	130		120	
	Circuits	Quantity			1				2			
Refrigerant charge		kg/TCO2Eq			60.0/85.8			60.0/85.8	65.0/93.0		60.0/85.8	
Piping connections	Evaporator water inlet/outlet (OD)				114.3mm		139.7mm			168.3mm		
	Condenser water inlet/outlet (OD)							5"				
Unit	Starting current	Max	A		288		380	397		420		438
	Running current	Cooling Nom.	A	71	81	96	142	152	161	174	186	210
	current Max		A	114	136	165	229	250	272	301	330	373
Power supply	Phase/Frequency/Voltage		Hz/V				3~50/400					

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 III controller with superior control logic and easy interface



EWHQ-G-SS

Microtech III



› More information
about EWHQ-G-SS

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										
Power input		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	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
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	HeightxWidthxDepth	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 heat exchanger - condenser		Water volume	l	6	8	10	12	13	15	17	27	34		
Water heat exchanger - evaporator	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
	Water flow rate	Heating Nom.	l/s	4.1	4.7	5.2	5.9	6.5	7.4	8.5	9.6	10.9	13.7	16.6
	Water pressure drop	Cooling Nom.	kPa	44	35	30	29	31	33	31	38	42	43	
	Water pressure drop	Heating Nom.	kPa	42	33	28	27	29	32	29	37	41	42	
Water heat exchanger - condenser		Type		Plate heat exchanger										
	Water volume		l	6	8	10	12	13	15	17	27	34		
	Water flow rate	Cooling Nom.	l/s	5.2	6.0	6.7	7.7	8.5	9.7	10.9	13.7	13.9	17.4	21.1
	Water flow rate	Heating Nom.	l/s	5.4	6.2	7.0	7.8	8.7	9.9	11.2	12.5	14.3	18.0	21.8
	Water pressure drop	Cooling Nom.	kPa	69	55	49	48	51	54	32	39	66	69	
Compressor	Type			Scroll compressor										
	Quantity			2										
Sound power level	Cooling	Nom.	dBA	80	83	85	87		88		90	92	93	
Sound pressure level	Cooling	Nom.	dBA	64	67	69	70		72		74	76	77	
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"		3"		3"			
Condenser water inlet/outlet (OD)			1" 1/2	2" 1/2		3"		3"		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
	Running current	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 III controller with superior control logic and easy interface



EWWQ-G-SS

MicroTech III



› More information
about EWWQ-G-SS

Cooling Only			EWWQ-G-SS	090	100	120	130	150	170	190	210	240	300	360
Space cooling	A Condition 35°C	Pdc	kW	93.7	105.6	119	135.9	150	172.1	193.8	220.7	246.1	314.3	370.4
	ηs,c		%	209.08	215.32	233.52	227.68	233.04	233.36	220.32	235.56	231.84	236.64	211.36
SEER				5.427	5.583	6.038	5.892	6.026	6.034	5.708	6.089	5.996	6.116	5.484
Cooling capacity	Nom.		kW	93.7	105.6	119	135.9	150	172.1	193.8	220.7	246.1	314.3	370.4
Power input	Cooling	Nom.	kW	21.3	24	26.9	30.5	33.9	38.9	43.8	50.74	56.1	70.2	84
Capacity control	Method													
	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											1,186
		Width	mm											928
		Depth	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	Type													
- evaporator	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	Type													
- condenser	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													
	Quantity													2
Sound power level	Cooling	Nom.	dBA	80	83	85	87		88		90	92		93
Sound pressure level	Cooling	Nom.	dBA	64	67	69	70		72		74	76		77
Operation range	Evaporator	Cooling	Min.-Max.	°CDB						-10~15				
		Heating	Min.-Max.	°CDB						-10~15				
	Condenser	Cooling	Min.-Max.	°CDB						25~55				
		Heating	Min.-Max.	°CDB						25~55				
Refrigerant	Type/GWP									R-410A/2,087.5				
	Charge		kg	10		11		12		15	16	17	19	20
	Circuits	Quantity								1				
Refrigerant charge		TCO2Eq		20.88		22.96		25.05		31.31	33.40	35.49	39.66	41.75
Piping connections	Evaporator water inlet/outlet (OD)			1" 1/2				2" 1/2					3"	
	Condenser water inlet/outlet (OD)			1" 1/2				2" 1/2					3"	
Unit	Starting current	Max	A	204	255	261	308	316	354	368	466	481	640	677
	Running current	Cooling Nom.	A	42	45	48	54	61	68	76	86	95	118	143
	current	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 III controller with superior control logic and easy interface



› More information
about EWWQ-L-SS



Cooling only/Heating only			EWWQ-L-SS													
Space cooling	A Condition 35°C	Pdc	180	205	230	260	290	330	380	430	480	540	600	660	720	
		kW	187.4	215.1	244.3	272.6	303.2	344.5	386.8	430.2	475.6	548.8	610.9	663	721	
	$\eta_{s,c}$	%	211.72	222.72	232.76	230.32	236.76	233.32	224.84	239.12	230.6	235.92	236.2	228	228.4	
SEER			5.493	5.768	6.019	5.958	6.119	6.033	5.821	6.178	5.965	6.098	6.105	5.9	5.91	
Cooling capacity	Nom.	kW	187.4	215.1	244.3	272.6	303.2	344.5	386.8	430.2	475.6	548.8	610.9	663	721	
Power input	Cooling	Nom.	kW	41.7	47.3	53.1	60.2	67.1	77.1	87	97.9	109.5	123.5	139.7	153.8	166.9
Capacity control	Method															
	Minimum capacity	%	25	21	25	22	25	23	25	21	25	22	20	18	25	
EER			4.494	4.548	4.601	4.528	4.519	4.468	4.446	4.394	4.343	4.444	4.373	4.311	4.32	
ESEER					5.54	5.52	5.53	5.54	5.53	5.54	5.52	5.51	5.55	5.51	5.52	
IPLV			6.77	6.84	6.35	6.38	6.31	6.32	6.36	6.37	6.16	6.29	6.23	6.2	6.18	
Dimensions	Unit	Height	mm										2,090		2,210	
		Width	mm													
		Depth	mm										2,801			
Weight	Unit	kg	877	1,062	1,285	1,347	1,439	1,498	1,559	1,673	1,722	1,842	1,926	2,105	2,229	
	Operation weight	kg	957	1,156	1,401	1,469	1,575	1,641	1,723	1,851	1,918	2,044	2,145	2,346	2,405	
Water heat exchanger	Type															
- evaporator	Water volume	l	35	41	53	65	76	92							115	
	Water flow rate	l/s	8.97	10.29	11.69	13.04	14.5	16.48	18.51	20.58	22.77	26.29	29.26	31.77	34.57	
	Water pressure drop	Cooling	Nom.	kPa	28	27.6	22.6	28	25.1	32.2	31.9	32.8	40.4	51.4	49.5	69.4
Water heat exchanger	Type															
- condenser	Water volume	l	19	22	29	35	41	49							62	
	Water flow rate	l/s	11.02	12.66	14.4	16.12	17.9	20.38	22.8	25.4	28.08	32.3	36.02	39.16	42.66	
	Water pressure drop	Cooling	Nom.	kPa	72	73	61	49	50	51	55	46	57	66	67	68
Compressor	Type															
	Quantity														4	
Sound power level	Cooling	Nom.	dBA	83	86	88	90		91		93		95		96	
Sound pressure level	Cooling	Nom.	dBA	65	68	70	72		74	73	76		77		78	
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	32		34		38		40
	Circuits	Quantity													2	
Refrigerant charge		kg/TCO2Eq	10.0/20.9		11.0/23.0		12.0/25.1		15.0/31.3	16.0/33.4		17.0/35.5		19.0/39.7		20.0/41.8
Piping connections	Evaporator water inlet/outlet (OD)														3"	
	Condenser water inlet/outlet (OD)			1" 1/2				2" 1/2							3"	
Unit	Starting current	Max	A	263	320	333	388	403	456	484	597	626	785	822	860	898
	Running current	Cooling Nom.	A	83	89	96	109	121	137	151	171	189	210	236	260	284
	current	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							





The highest peak in chiller technology

The EWWD-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.

EWWD-VZ at a glance

Single compressor



450 kW - 1,053 kW

Full inverter water cooled chiller



Dual compressor & dual circuit unit



1,200 kW - 2,100 kW

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

New condenser design with integral oil separator

High efficient flooded heat exchangers



Highest efficiency in the market in its category



TOP CLASS EFFICIENCY

Unique Daikin single screw compressor technology



UNIQUE
SOLUTION

Why choose EWWD-VZ chiller series?

1 Top class efficiency: ESEER up to 8.5 – EER up to 5.8

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



YouTube
[www.youtube.com/
DaikinEurope](http://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:

Water cooled screw inverter chiller, standard efficiency, standard sound

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› More information about EWWD-VZSS



Cooling only/Heating only			EWWD-VZSS	600	700	760	890	C10	C12	C13	C14	C16	C17	C19	C21		
Space cooling	A Condition (35°C) Pdc	kW	609.91	704.22	756.52	894.23	1,039.49	1,173.02	1,288.02	1,381.01	1,552.02	1,722.02	1,875.55	2,051.2			
	ηs,c	%		340		337.2	331.6	332	337.2	331.6	331.2	320.8	338.8	322	338.8		
SEER						8.7	8.63	8.49	8.5	8.63	8.49	8.48	8.22	8.67	8.25	8.67	
Cooling capacity	Nom.	kW	610	704	757	894	1,039	1,173	1,288	1,381	1,552	1,722	1,876	2,051			
Power input	Cooling Nom.	kW	110	132	142	162	196	231	252	276	315	339	380	404			
Capacity control	Method														Variable		
	Minimum capacity	%														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
ESEER						7.62	7.5	7.63	7.54	7.52	7.86	7.81	7.9	7.46	7.99	7.49	7.95
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
		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	Type													Flooded shell and tube			
- evaporator	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	Type													Shell and tube			
- condenser	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 Cooling Min.-Max.	°CDB												-3~20			
	Condenser Cooling Min.-Max.	°CDB												16~63			
Refrigerant	Type/GWP													R-134a/1,430			
	Charge	kg	100		110		170	180	250	260	290		320		350		
	Circuits	Quantity						1					2				
Piping connections		mm		139.7		168.3						219.1					
	Condenser water inlet/outlet (OD)			168.3mm		219.1mm			168.3 / 168.3 mm				219.1 / 219.1 mm				
Unit	Starting current Max	A	179	214	245	295	344							-			
	Running current Max	A	171	202	220	249	300	349	379	414	470	508	566	604			
	A	256	306	350	421	491	553	555	612	727	810	926	1,009				
Power supply	Phase/Frequency/Voltage	Hz/V							3~/50/400								

Water cooled screw inverter chiller, high efficiency, standard sound

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› More information
about EWWD-VZXS

Cooling only/Heating only			EWWD-VZXS		450	500	610	710	800	900	C11	C12	C13	C14	C16	C17	C19	C21
Space cooling	A Condition (35°C) Pdc	kW	448.83	500.51	612.77	713.11	793.52	901.21	1,053.02	1,194.03	1,305.01	1,406.98	1,593.03	1,748.03	1,912.01	2,074.02		
	ηs,c	%	324.8	329.2	347.2	350	345.6	337.6	344.4	347.6	342.4	348	347.2	347.6	337.2	344.4		
SEER			8.32	8.43	8.88	8.95	8.84	8.64	8.81	8.89	8.76	8.9	8.88	8.89	8.63	8.81		
Cooling capacity	Nom.	kW	449	501	613	713	794	901	1,053	1,194	1,305	1,407	1,593	1,748	1,912	2,074		
Power input	Cooling Nom.	kW	81.2	89.7	108	128	146	159	192	221	244	262	296	329	365	394		
Capacity control	Method		Variable												10			
	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		
ESEER			7.51	7.92	8.1	8.2	8.22	7.92	8.17	8.36	8.25	8.47	8.24	8.45	8.2	8.33		
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		
		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	Type		Flooded shell and tube															
- evaporator	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	Type		Shell and tube															
- condenser	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															
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 Cooling	Min.-Max.	°CDB	-3~20														
	Condenser Cooling	Min.-Max.	°CDB	16~65														
Refrigerant	Type/GWP		R-134a/1,430															
	Charge	kg	95	100	110	170		180	250	260	290		320		350			
	Circuits	Quantity		1														
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	Starting current Max	A	155	173	179	214	256	295	344							-		
	Running current Max	A	126	140	171	201	229	249	299	340	372	400	450	498	554	596		
Power supply	Phase/Frequency/Voltage	Hz/V	3~/50/400															

Water cooled screw inverter chiller, premium efficiency, standard sound

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› More information
about EWWD-VZPS

Cooling only/Heating only			EWWD-VZPS	505	715	910	C12	C16	C18
Space cooling	A Condition (35°C) Pdc	kW	505.02	717.71	908.11	1,201.02	1,604.03	1,757.01	
	$\eta_{S,C}$	%	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	
ESEER			8.15	8.48	8.25	8.66	8.53	8.71	
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
		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	Type				Flooded shell and tube				
- evaporator	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	Type				Shell and tube				
- condenser	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 Cooling	Min.-Max.	°CDB			-3~20			
	Condenser Cooling	Min.-Max.	°CDB			16~65			
Refrigerant	Type/GWP					R-134a/1,430			
	Charge	kg	100	150	180	290	320	350	
	Circuits	Quantity			1		2		
Piping connections		mm	139.7			219.1			273
	Condenser water inlet/outlet (OD)				219.1mm			219.1 / 219.1 mm	
Unit	Starting current Max	A	173	214	295			-	
	Running current Max	A	138	200	247	338	447	497	
	Power supply Phase/Frequency/Voltage	Hz/V				3~/50/400			810





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- › HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential



EWWH-VZSS

MicroTech III



› More information
about EWWH-VZSS

Cooling Only			EWWH-VZSS	445	515	550	660	770	860	940	C10	C12	C13	C14	C15				
Space cooling	A Condition (35°C)	Pdc	kW	443	512	548.51	657.51	767.8	865.2	940.6	1,011.7	1,142.46	1,271.38	1,396.11	1,524.83				
	ηs,c		%	336.4	338.4	336.8	348.4	345.2	318.4	327.2	339.6	331.2	340	345.6	353.2				
SEER				8.61	8.66	8.62	8.91	8.83	8.16	8.38	8.69	8.48	8.7	8.84	9.03				
Cooling capacity	Nom.		kW	443	512	549	658	768	865	941	1,012	1,142	1,271	1,396	1,525				
Power input	Cooling	Nom.	kW	82.8	98.1	107	123	149	172	188	205	235	254	282	302				
Capacity control	Method			Variable					10										
	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				
ESEER				7.98	7.83	7.9	8.03	7.99	7.93	7.95	8.12	8	8.46	8	8.48				
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					2,296						2,350				
		Width	mm	1,178					2,338						2,498				
		Depth	mm	3,722					1,580						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	Type			Flooded shell and tube											380				
- evaporator	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				
	Water pressure drop	Cooling	Nom.	kPa	46	61	52	59	64	39	46	39	50	44	53	45			
Water heat exchanger	Type			Shell and tube											430				
- condenser	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											2				
	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	100	110		170	180	250	260	290	320		350					
	Circuits	Quantity		1					2										
Refrigerant circuit	Charge		kg	100	110		170	180	250	260	290	320		350					
Piping connections			mm	139.7					168.3						219.1				
	Condenser water inlet/outlet (OD)			168.3mm					219.1mm						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	213.0	246.0	265.0	277.0	404.0	445.0	458.0	491.0	523.0	649.0	744.0	807.0				
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400															

Water cooled screw inverter chiller, high efficiency, standard sound

- › High energy efficiency both at full and part load conditions
- › Compact footprint through stacked heat exchanger lay-out
- › Heat pump version with reversibility on water side (up to 65°C hot water production)
- › Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- › Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- › High efficient flooded type heat exchanger allowing maximum unit performances
- › One or two truly independent refrigerant circuits for outstanding reliability
- › HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential



› More information
about EWWH-VZXS



Cooling Only			EWWH-VZXS		335	365	450	525	580	670	800	875	950	C11	C12	C13	C14	C15
Space cooling	A Condition (35°C) Pdc	kW	329.01	364.52	448	520.61	579.19	665.41	788.2	877.36	952.01	1,028.81	1,169.3	1,288.48	1,421.75	1,540.03		
	ηs,c	%	296	307.2	343.6	347.2	343.2	356	354.4	326	334			346.8	358	356.8		
SEER			7.6	7.88	8.79	8.88	8.78	9.1	9.06	8.35	8.55			8.87	9.15	9.12		
Cooling capacity	Nom.	kW	329	365	448	521	579	665	788	877	952	1,029	1,169	1,288	1,422	1,540		
Power input	Cooling Nom.	kW	60.5	66.6	81	96	109	121	147	168	185	198	224	248	276	298		
Capacity control	Method																	
	Minimum capacity	%																
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			
ESSEER			7.14	7.56	8.32		8.34	8.46	8.55	8.26		8.5	8.54	8.81	8.61	8.72		
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		
		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	Type																	
- evaporator	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	Water volume	l	81	92	126	145	126	217	241	240	250	290		390	290	480		
- condenser	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																	
	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	95	100	110	170	180	250	260	290	320					350		
	Circuits Quantity						1					2						
Piping connections		mm	139.7			168.3			219.1			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 Max	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		
Power supply	Phase/Frequency/Voltage	Hz/V								3~/50/400								

Water cooled screw inverter chiller, premium efficiency, standard sound

- › Premium energy efficiency both at full and part load conditions
- › Compact footprint through stacked heat exchanger lay-out
- › Heat pump version with reversibility on water side (up to 65°C hot water production)
- › Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- › Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- › High efficient flooded type heat exchanger allowing maximum unit performances
- › One or two truly independent refrigerant circuits for outstanding reliability
- › HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential



› More information
about EWWH-VZPS



Cooling Only			EWWH-VZPS	370	530	680	880	C12	C13
Space cooling	A Condition (35°C) Pdc	kW	369.3	525.1	677.11	883.79	1,180.43	1,295.36	
	$\eta_{S,C}$	%	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	
ESEER			7.9	8.64	8.83	8.54	8.85	9	
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
		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	Type				Flooded shell and tube				
- evaporator	Water volume	l	96	168	199	320	380	480	
	Water flow rate	Cooling Nom.	l/s	17.7	25.1	32.3	42.2	56.4	61.9
	Water pressure drop	Cooling Nom.	kPa	32	25	27	20	26	23
Water heat exchanger	Type				Shell and tube				
- condenser	Water volume	l	126	217	241	270	390	470	
	Water flow rate	Cooling Nom.	l/s	21.1	30.1	38.9	50.9	68	74.9
	Water pressure drop	Cooling Nom.	kPa		9	12	13	12	16
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	100	150	180	290	320	350	
	Circuits	Quantity			1		2		
Refrigerant circuit	Charge	kg	100	150	180	290	320	350	
Piping connections		mm	139.7		219.1mm		219.1 / 219.1 mm		273
	Condenser water inlet/outlet (OD)				219.1mm				
Unit	Running current	Cooling Max	A	104.0	150.0	185.0	257.0	338.0	378.0
	Power supply	Phase/Frequency/Voltage	Hz/V	199.0	246.0	277.0	445.0	523.0	649.0
					3~/50/400				

Water cooled 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 III controller with superior control logic and easy interface



EWWWD-J-SS

Microtech III



› More information
about EWWWD-J-SS

Cooling & Heating			EWWWD-J-SS	120	140	150	180	210	250	280
Cooling capacity	Nom.	kW	120	146	154	177	207	255	284	
Heating capacity	Nom.	kW	148	180	194	223	258	315	354	
Capacity control	Method									
	Minimum capacity	%				25.0				
Power input	Cooling Nom.	kW	28.0	34.0	39.5	45.3	50.4	59.9	70.0	
	Heating Nom.	kW	28.0	34.0	39.5	45.3	50.4	59.9	70.0	
EER			4.28	4.29	3.90	3.91	4.11	4.26	4.06	
COP			5.28	5.29	4.90	4.91	5.11	5.26	5.06	
ESEER			4.51		4.20		4.28	4.68	4.01	
IPLV			5.18		5.06		5.05	5.16	5.70	4.88
Space heating	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	%	168	166	158	162	170	160
	A Condition (-7°CDB/-8°CWB)	SCOP			4.40	4.34	4.14	4.15	4.24	4.46
		COPd					0.90			4.21
	PERd	%	144.7	176.0	190.2	218.3	252.8	309.1	347.8	
		Pdh	kW	5.2		4.8		5.0	5.2	5.0
Dimensions	Unit	HeightxWidthxDepth	mm				1,020x913x2,684			
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 heat exchanger - condenser	Water volume	l	20	23	25		29		32	
Water heat exchanger - evaporator	Water flow rate Nom.	l/s	5.7	7.0	7.4	8.5	9.9	12.2	13.6	
	Water pressure drop Heating	Nom. kPa	15	14	43	40	35	28	34	
Water heat exchanger - condenser	Water flow rate Nom.	l/s	15	14	43	40	35	28	34	
	Water volume	l	20	23	25		29		32	
	Water flow rate Nom.	l/s	7.1	8.6	9.3	10.7	12.4	15.2	17.0	
	Water pressure drop Heating	Nom. kPa	19		12		11	16	26	
	Water volume	l	20	23	25		29		32	
	Water flow rate Nom.	l/s	19		12		11	16	26	
Compressor	Type						Single screw compressor			
	Quantity						1			
Sound power level	Cooling Nom.	dBA					89			
Sound pressure level	Cooling Nom.	dBA					79			
Operation range	Evaporator Cooling Min.-Max.	°CDB					-10~15			
	Condenser Cooling Min.-Max.	°CDB					23~60			
Refrigerant	Type/GWP						R-134a/1,430			
	Circuits Quantity						1			
Refrigerant charge	kg/TCO2Eq	18.0/25.7	35.0/50.1	34.0/48.6		37.0/52.9		38.0/54.3		
Piping connections	Condenser water inlet/outlet (OD)	mm	2" 1/2			4"				
Power supply	Phase/Frequency/Voltage	Hz/V				3~/50/400				
Unit	Starting current Max	A	151		195		288			
	Running Cooling Nom.	A	48	57	67	74	83	97	109	
	current Max	A	76	97	107	122	143	167	189	



Water cooled centrifugal chiller, high efficiency, standard sound

- › Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- › An inverter driven compressor allows the capacity to be adjusted precisely to match variations in room and outside temperatures
- › Onboard digital electronics provide smart controls



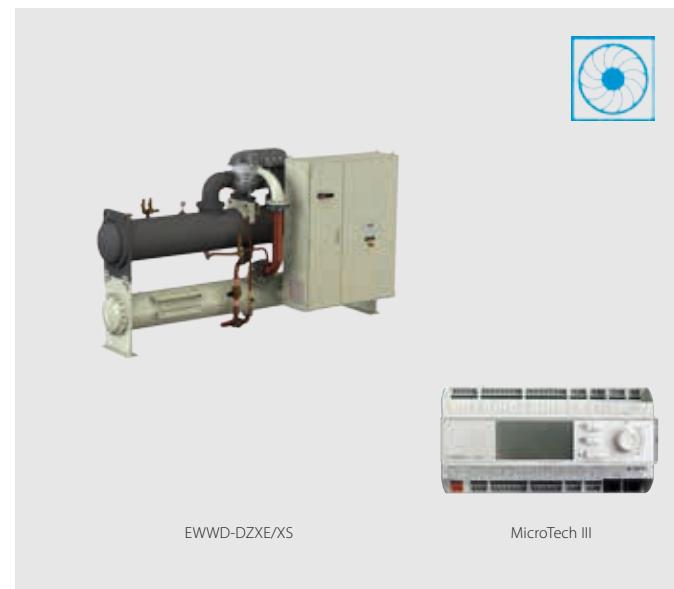
› More information
about EWWWD-FZXS



Cooling Only			EWWWD-FZXS	320	430	520	640	860	C10
Space cooling	A Condition	Pdc	kW	316.9	440.6	521.9	640.5	889.5	1,056.0
	ηs,c		%	308.0	321.2	332.0	304.8	308.0	327.2
SEER				7.9	8.2	8.5	7.8	7.9	8.4
Cooling capacity	Nom.		kW	316.9	440.6	521.9	640.5	889.5	1,056.0
Power input	Cooling	Nom.	kW	65.81	90.42	106.6	128.6	179.4	208.1
Capacity control	Method			Variable					
EER				4.815	4.873	4.898	4.98	4.959	5.076
ESEER				8.11	8.39	8.66	8.35	8.52	8.88
IPLV				9.25	9.64	9.89	9.5	9.74	10.06
Dimensions	Unit	Height	mm		1,823		1,755	1,748	1,794
		Width	mm		1,276		1,790	1,853	1,904
		Depth	mm		3,254		3,419	3,441	3,289
Weight	Unit		kg	2,360	2,416	2,546	3,709	4,095	4,765
	Operation weight		kg	2,520	2,634	2,812	4,074	4,548	5,330
Water heat exchanger	Type			Shell and tube					
- evaporator	Water volume		l	78	107	134	184	210	302
	Water flow rate	Nom.	l/s	15.12	21.02	24.90	30.56	42.44	50.39
	Water pressure drop	Cooling	Nom.	kPa	30.2	31.9	32.6	35.4	32
Water heat exchanger	Type			Shell and tube					
- condenser	Water volume		l	83	111	133	181	243	263
	Water flow rate	Nom.	l/s	18.35	25.47	30.15	36.91	51.28	60.67
	Water pressure drop	Cooling	Nom.	kPa	24.3	26.1	28.5	23.1	32.5
Compressor	Type			Driven vapour compression					
	Quantity				1			2	
Sound power level	Cooling	Nom.	dBA	89	90	91	92	94	95
Sound pressure level	Cooling	Nom.	dBA	71	72	73	74	75	76
Operation range	Evaporator	Cooling	Min.-Max.	°CDB			2~15		
	Condenser	Cooling	Min.-Max.	°CDB			18~46		
Refrigerant	Type/GWP						R-134a/1,430		
	Charge		kg	240	220	180		220	300
	Circuits	Quantity					1		
Refrigerant charge	Per circuit		kg	240.0	220.0	180.0		220.0	300.0
			TCO ₂ eq	343.2	314.6	257.4		314.6	429.0
Piping connections	Evaporator water inlet/outlet (OD)			168.3mm			219.1mm		273mm
	Condenser water inlet/outlet (OD)				168.3mm			219.1mm	
Unit	Starting current	Max	A				2		
	Running current	Cooling Nom.	A	104	142	168	207	285	335
		Max	A	135	210	176	270	420	352
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 III controller with superior control logic and easy interface
- › A wide portfolio of options is available to meet different requirements.
- › The compressor vibration levels are extremely low as a result of the high-speed design
- › Optimized for highly efficient R134a refrigerant and compatible with next generation refrigerants



EWWWD-DZXE/XS

MicroTech III

Cooling Only			EWWWD-DZXE/XS																		
Space cooling	A Condition	Pdc	kW	341.01	443.01	474.02	528	566	610.02	638.01	670	682	699.97	741.96	883.01	946	1,056	1,130	1,402	1,477.93	
	$\eta_{s,c}$	%		335	314	316	324	326	344	349	345	349	342	346	350	352	363	365	362	366	
SEER				8.57	8.05	8.09	8.29	8.34	8.81	8.92	8.82	8.93	8.75	8.86	8.95	9.00	9.27	9.32	9.26	9.35	
Cooling capacity	Nom.		kW	341	443	474	528	566	610	638	670	682	700	742	883	946	1,056	1,130	1,402	1,477.93	
Power input	Cooling	Nom.	kW	69.9	88.5	93.5	102	108	124.7	131	138.4	138	126	131	176	186	205	216	256	263	
Capacity control	Method			Variable																	
	Minimum capacity	%		29	21	20	21	20	16		15		18	17	11	10	11	10	9		
EER				4.88	5	5.07	5.14	5.22	4.89	4.85	4.84	4.91	5.53	5.65	5.01	5.08	5.15	5.23	5.46	5.6	
ESEER				7.81	7.92	7.83	8.2	8.11	7.78	8.16	7.52	8	8.08	8.09	7.96	8.39	8.26	8.29	8.22		
IPLV				9.57	9.67	9.62	10		9.66	9.78	9.61	9.63	10.1	10.2	9.86	9.79	10.2	10.1	10.5	10.4	
Dimensions	Unit	Height	mm	1,865					1,985					2,200							
		Width	mm	1,055					1,160					1,270							
		Depth	mm	3,625					3,585	3,625	3,585					3,580					
Weight	Unit		kg	1,750	1,900	1,950	2,000	2,050		2,850		2,600	2,650	2,900	3,000	3,600	3,700	3,800	3,900		
		Operation weight	kg	2,033	2,216	2,276	2,347	2,407	3,197	3,344	3,197	3,354	3,102	3,162	3,458	3,568	4,292	4,412	4,579	4,699	
Water heat exchanger	Type	Flooded shell and tube																			
- evaporator	Water volume	I	70	96		107		134	107		134		156		199		229				
	Water flow rate	Nom.	l/s	16.4	21.2	22.7	25.3	27.1	29.1	30.5	32	32.7	33.5	35.6	42.3	45.3	50.6	54.1	67.2	70.9	
	Water pressure drop	Cooling	Nom.	kPa	54.2	40.6	46.5	45	51.5	59.1	51	71.4	58.3	61.3	68.7	64	73.2	60.4	68.9	74	82
Water heat exchanger	Type	Shell and tube																			
- condenser	Water volume	I	83	100		120		170	120	170	188		211		263		320				
	Water flow rate	Nom.	l/s	19.6	25.3	27	30.1	32.1	35.1	36.7	38.6	39.1	39.4	41.6	50.5	53.9	60.1	64.1	79.1	83	
	Water pressure drop	Cooling	Nom.	kPa	56.4	59.5	68.4	54.5	62.4	74	46.2	90	52.9	41.6	46.7	50.9	58.3	50.3	57.6	52.9	58.5
Compressor	Type	Driven vapour compressor																			
	Quantity	1																2			
Sound power level	Cooling	Nom.	dBA	87.9	88.9		89.9		91.1	91	91.1	91		91.1		92	93.3		94.3		
Sound pressure level	Cooling	Nom.	dBA	69.6	70.6		71.6				72.6				73.6		74.6		75.6		
Operation range	Evaporator	Cooling	Min.-Max.	°CDB	4~20					20~55					20~42						
Refrigerant	Type/GWP				R-134a/1,430																
	Charge		kg	130	120	130	120	130	120	180	120	200	180	190	180	200	230	250	230	250	
	Circuits	Quantity														1					
Refrigerant charge		TCO2Eq		186	172	186	172	186	172	257	172	286	257	272	257	286	329	358	329	358	
Piping connections		mm										168.3	139.7						219.1		
		mm										168.3	139.7						219.1		
Unit	Running current	Cooling Nom.	A	105.42	138.22	144.7	155.23	162.48	203.41	200.56	212.9	210.15	190.23	196	274.86	287.44	309.17	323.53	383.87	392	
	Max	A		134	208		166				267			196		417		331		392	
Power supply	Phase/Frequency/Voltage		Hz/V												3~/50/400						



More information
about EWWWD-DZXE



Water cooled centrifugal chiller, high efficiency, standard sound

- › Optional Variable Frequency Drive (VFD) to improve the part load efficiency
- › High efficiency flooded type shell and tube evaporator/ condensers
- › Lower equipment, installation and annual operating costs than two single compressor chillers (DWDC)
- › 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) (DWDC)
- › Unloading to 5% (DWSC) or 10% (DWDC) of full load provides improved stability of the chilled water temperature and less harmful cycling of compressors
- › Single stage centrifugal compressor (DWSC)



› More information
about DWDC



› More information
about DWSC



Cooling only		DWDC/DWSC	DWDC	DWSC
Cooling capacity	Min.	kW	600	300
	Max.	kW	9,000	4,500
Compressor	Type		Single stage centrifugal compressor	
Refrigerant	Type / GWP		R-134a / 1,430	
	Charge	kg	700 - 1,400	300 - 1,000
		TCO ₂ Eq	1,001 - 2,002	429 - 1,430

* not Eurovent certified



Options - Water cooled chillers

Description	Code	EWWQ-B-	EWWD-J-SS	EWWD-G-	EWWD-I-SS	EWWD-I-XS	EWWD-VZ	EWLD-J-SS	EWLD-G-SS	EWLD-I-SS	EWWD-FZXs
Total heat recovery	01			Option	Option		Option				
Total heat recovery (1 circuit)	02			Option	Option	Option	Option				
Partial heat recovery	03a	Option		Option	Option	Option			Option		
Evaporator 1 Pass	03b										
Direct on line starter (DOL)	04										
WyeDelta compressor starter (YD)	05	STD	STD	STD	STD	STD		STD	STD	STD	
Soft starter	06	Option	Option(4)	Option	Option	Option		Option(4)	Option	Option	
Heat pump version	07										
Heat pump version (including pursuit mode)	07a (15)		Option	Option	Option	Option	Option	Option			
Brine version	08 (1)	Option	Option	Option	Option	Option	Option	Option	Option	Option	
Double setpoint	10	STD	STD	STD	STD	STD	STD		STD	STD	
Compressor thermal overload relays	11	Option	Option	Option	Option	Option	Option		Option	Option	
Fans thermal relays	12										
Phase monitor	13	STD	STD	STD	STD	STD	STD	STD	STD	STD	
Inverter compressor starter	14										STD
Under / Over voltage control	15	Option	Option	Option	Option	Option	STD	Option	Option	Option	
Energy meter	16	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Energy meter (including current limit)	16a						Option				
Capacitors for power factor correction	17	Option	Option	Option	Option	Option			Option	Option	
Current limit	19	Option	Option	Option	Option	Option	Option	Option	Option	Option	STD
Evaporator vaulic kit	20	STD	STD	STD	STD	STD	STD	STD	STD	STD	
Evaporator flange kit	21										CF
Evaporator marine waterbox vaulic (2 passes)	22										
Evaporator marine waterbox vaulic (1 pass)	22a										
Evaporator marine waterbox flanged (2 passes)	24										
Evaporator marine waterbox flanged (1 pass)	24a										
Condenser double flanges kit	26	Option	Option	Option	Option	Option	Option				Option
Evaporator water side design pressure (10 Bar)	27	STD		STD	STD	STD			STD	STD	STD
Evaporator water side design pressure (16 Bar)	28										
20mm evaporator insulation	29	Option	STD	Option	Option	Option	STD	STD	Option	Option	STD
Axial fans (100 Pa lift)	30										
Axial fans (250 Pa lift)	32										
20mm condenser insulation	33	Option	Option	Option	Option	Option	Option				Option
Condenser vaulic kit	36	Option	STD	Option	Option	Option	STD				STD
Condenser marine waterbox vaulic (2 passes)	38										CF
Condenser marine waterbox vaulic (1 pass)	38a										
Condenser marine waterbox flanged (2 passes)	40										
Condenser marine waterbox flanged (1 pass)	40a										
Speedtrol (fan speed control device ON/OFF up to 18°C)	42										
Speedtrol (fan speed control device ON/OFF down to 10°C in cooling)	42a										
Condenser coil guards	43										
Evaporator area guards	44										
CuCu condenser coil	45										
CuCuSn condenser coil	46										
Condenser water side design pressure (16 Bar)	47	STD	STD	STD	STD	STD					
Condenser water side design pressure (10 Bar)	47a						STD				STD
Alucoat fins coil	49										
CuNi 9010 condenser tubes	50	Option	Option(5)	Option (5)	Option (5)	Option (5)	Option		Option (5)		Option (5)
Condenser 1 pass (ΔT 48 °C)	51			STD	STD				STD		
Condenser 2 passes (ΔT 48 °C)	52			STD			STD				STD
Condenser 2 passes (ΔT 915 °C)	53				NCSO						
Condenser 4 passes	54					NCSO					
Water pressure differential switch on condenser	55										STD
Water pressure differential switch on evaporator	56										STD
Evaporator electric heater	57	Option									
Evaporator flow switch	58	Option	STD	Option	Option	Option	Option	STD	Option	Option	Option
Condenser flow switch	59										
Electronic expansion valve	60	STD	STD	STD	STD	STD	STD	STD	STD	STD	
Discharge line shutoff valve	61	Option	STD	STD	Option	Option	Option	STD	STD	Option	
Suction line shutoff valve	62	Option	STD	STD	Option	Option	Option	STD	STD	Option	Option
High pressure side manometers	63	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Low pressure side manometers	64	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Ambient outside temperature sensor and setpoint reset	67										
Hour run meter	68	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
General fault contactor	69	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Container Kit	71	Option(11)	Option	Option	Option (9)	Option	Option	Option	Option	Option(11)	Option
Rubber anti vibration mounts	75	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Sound proof system	76										
Sound proof system (integral)	76-a	Option (8)			Option (8)	Option (8)				Option (8)	Option (8)
Sound proof system (compressor)	76-b		Option (6)	Option (7)				Option	Option (6)	Option (7)	
Spring anti vibration mounts	77										
One centrifugal pump (low lift)	78										
One centrifugal pump --- SPK1	78-a										
One centrifugal pump --- SPK2	78-b										
One centrifugal pump --- SPK3	78-c										
One centrifugal pump --- SPK4	78-d										
One centrifugal pump --- SPK5	78-e										
One centrifugal pump --- SPK6	78-f										
One centrifugal pump --- SPK7	78-g										
One centrifugal pump --- SPK8	78-h										
One centrifugal pump --- SPK9	78-i										
One centrifugal pump --- SPK10	78-j										

(1) Option 08 includes option 29 and option 146 - (2) Option 99(a) includes 'Fan overload protection' - (3) Piping between the inertial tank and the unit is not included. Electric heater power supply has to be provided from external source -

(4) The order of inverter compressor will have an impact on the delivery time: please contact the factory - (5) Unit performance will be affected; contact factory for information. It is mandatory to order the option 26 when selecting Cu-Ni 90-10 condenser tubes - (6) Sound proof system - compressor enclosure - (7) Compressor enclosure - (8) Soundproof cabinet will be supplied in a separate kit and not assembled. For better performance the cabinet will be integral kind (around the whole chiller, not only around compressors). Cabinet assembly is not included in the supply - (9) Special transport is required (flat rack truck and open top when option 01 is selected) for model sizes as follows: EWWDC12I-SS - EWWDC18I-SS (10) Forklift loading-unloading operations are not allowed when option 01 is selected for model sizes as follows: EWWDC12I-SS - EWWDC18I-SS - (11) Special Transport is required (flat rack truck and open top) for model sizes as follows: EWLD10I-SS - EWLD17I-SS or EWWQC20B-SS or EWWQC10B-XS, EWWQC12B-XS - EWWQC21B-XS - (12) Forklift loading-unloading operations are not allowed for model sizes as follows: EWLD10I-SS - EWWQC10B-SS or EWWQC20B-SS or EWWQC10B-XS - (13) STD only for single circuit unit (14) STD only for Premium and High efficiency version - (15) Option 07a includes option 33 (20mm condenser insulation) - (16) Option 111 contains option 07a (Heat pump version, including pursuit mode) and option 33 (20mm condenser insulation)

CF = Contact the factory - STD = Standard - SO = Specify at Order entry - NC = No additional cost

Description	Code	EWWQ-B-	EWWD-J-SS	EWWD-G-	EWWD-I-SS	EWWD-I-XS	EWWD-VZ	EWLD-J-SS	EWLD-G-SS	EWLD-I-SS	EWWD-FZXS
One centrifugal pump --- SPK1a	78-l										
One centrifugal pump --- SPK1b	78-m										
One centrifugal pump --- SPK1c	78-n										
One centrifugal pump (high lift)	79										
Two centrifugal pump (low lift)	80										
Two centrifugal pump --- DPK1	80-a										
Two centrifugal pump --- DPK2	80-b										
Two centrifugal pump --- DPK3	80-c										
Two centrifugal pump --- DPK4	80-d										
Two centrifugal pump --- DPK5	80-e										
Two centrifugal pump --- DPK6	80-f										
Two centrifugal pump --- DPK7	80-g										
Two centrifugal pump --- DPK8	80-h										
Two centrifugal pump (high lift)	81										
External tank without cabinet (500 L)	83 (3)										
External tank without cabinet (1000 L)	84 (3)										
External tank with cabinet (500 L)	87 (3)										
External tank with cabinet (1000 L)	88 (3)										
Acoustic test	89										
Setpoint reset, Demand limit and Alarm from external device	90	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Double pressure relief valve with diverter	91	Option	Option	Option	Option	Option	STD	Option	Option	Option	STD
PW COMPRESSOR - PART WINDING START	92										
Low ambient kit for 1 circuit	93										
Low ambient kit for 2 circuits	94										
Compressors circuit breakers	95							Option			
Fans circuit breakers	96										
Main switch interlock door	97	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Emergency stop	98	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Fans speed regulation (+ fan silent mode)	99 (2)										
Fans speed regulation (inverter)	99a (2)										
Refrigerant recovery unit	100										
Evaporator right water connections	101										
Ground fault relay	102	Option	Option	Option	Option	Option	Option	Option	Option	Option	
Evaporator 1 pass	103						Option				NCSO
Evaporator 2 passes	103a						STD				STD
Evaporator 3 passes	103b						Option				
Evaporator double flange kit	104	Option		Option	Option	Option	Option		Option	Option	Option
Liquid receiver	105							Option	Option	Option	
Rapid restart	110						Option				
High temperature kit	111						Option				
Transport kit	112	Option(12)	Option	Option	Option(10)	Option	Option	Option	Option	Option(12)	Option
Optimized free cooling (VFD fans regulation)	113-a										
Optimized free cooling (On/Off fans)	113-b										
Nordic kit	114										
Water filter	115										
Condenser coil protection panels	116										
Blygold coil treatment	117										
Inverter kit for 1 centr pump low lift	120e										
Inverter kit for 1 centr pump high lift	120f										
Inverter kit for 2 centr pumps low lift	120g										
Inverter kit for 2 centr pumps high lift	120h										
Refrigerant leak detection	121						Option				
Discharge and suction line shut-off valve	126										
High and low pressure side manometers	127						STD				
Master/slave	128										
One centrifugal pump (low lift) + tank	134										
One centrifugal pump (high lift) + tank	135										
Two centrifugal pump (low lift) + tank	136										
Two centrifugal pump (high lift) + tank	137										
Coil guard	138										
E-coating microchannel coils	139										
Unit guards (to cover unit access)	140										
Side panels on coil ends	141										
High ambient kit (operatin 46°C)	142										
Variable primary flow	143										
Diff pressure transd (shipped loose)	144										
EC motor fans	145										
Compressor thermal insulation	146						Option				
Knock-down electrical panel	147						Option				
Automatic transfer switch (free standing)	149						Option				
Inverter EN61800-3 class C2 compliant	150						Option				
Rubber pads	152						Option				
Blue coat	153										
Evaporator Optimized for high delta T	154										
Daikin on site modem (with antenna)	155						Option				
AC 9000 rpm fans	156										
AC 700 rpm fans	157										
Brushless fans up to 900 rpm	158										
Brushless fans up to 700 rpm	159										
100 PA ESP fans	160										
100 PA ESP fans	160										
200 PA ESP fans	161										
Cu-Ni Evaporator tubes	164										
Marine version	167						Option				
120 Pa ESP fans	168										

Accessories - Water cooled chillers

DWSC & DWDC EWWD~FZ		Water-cooled chillers								Centrifugals	
Panels		EWWP~KB EWLP~KB	EWWQ~KB	EWLQ~KB	EW_Q_G EW_Q_L	EWWD~G- EWLD~G-	EWWD~I- EWLD~I-	EWWD~J- EWLD~J-	EWWQ~B-	EWWD~VZA	DWSC & DWDC EWWD~FZ
EKDICMPAB (a) (b) iCM Primary Basic					●	●	●	●	●	●	●
EKDICMPAL (a) (b) iCM Primary for evaporator peripherals Light					●	●	●	●	●	●	●
EKDICMPAF (a) (b) iCM Primary for evaporator peripherals Full					●	●	●	●	●	●	●
EKPWPRO PlantWatchPRO monitoring system											●
EKPWPROM PlantWatchPRO monitoring system (modem & webserver included)											●
EKTSM5 Temperature sensor for master/slave configuration					●						
EKRUMCL1 User Interface											
Serial Cards & Communication Modules		Water-cooled chillers								Centrifugals	
Serial Cards & Communication Modules		EWWP~KB EWLP~KB	EWWQ~KB	EWLQ~KB	EW_Q_G EW_Q_L	EWWD~G- EWLD~G-	EWWD~I- EWLD~I-	EWWD~J- EWLD~J-	EWWQ~B-	EWWD~VZA	DWSC & DWDC EWWD~FZ
EKAC200J Serial Card RS485/Modbus											●
EKACBAC Ethernet Card BACnet											
EKAACLONP Serial Card LON FTT10											
EKACRS232 Serial Card RS232 Modem Interface (single unit only)											●
EKACWEB Web Server Card											●
EKACBACMSTP Serial Card BACnet MSTP											
EKACBACCERT Serial Card BACnet pre-loaded (centrifugal chillers)											●
EKACMSTPCERT Serial Card BACnet pre-loaded MSTP (centrifugal chillers)											●
EKCM200J ModBus RTU communication module					●	●	●	●	●	●	
EKCMLOLON LON communication module					●	●	●	●	●	●	
EKCMBAKMSTP BACnet/MSTP communication module					●	●	●	●	●	●	
EKCMBAKIP BACnet/IP communication module					●	●	●	●	●	●	
EKACPG Communication cards											
Other Systems & Accessories		Water-cooled chillers								Centrifugals	
Other Systems & Accessories		EWWP~KB EWLP~KB	EWWQ~KB	EWLQ~KB	EW_Q_G EW_Q_L	EWWD~G- EWLD~G-	EWWD~I- EWLD~I-	EWWD~J- EWLD~J-	EWWQ~B-	EWWD~VZA	DWSC & DWDC EWWD~FZ
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		●	●	●							
EKB1T Buffertank 200 l (for N & P models)											
EHMC10A10 Hydraulic module 5/8/10 and 14/22 Hp-units		●									
EHMC10A80 Hydraulic module 5/8/10 and 14/22 Hp-units		●									
EHMC15A10 Hydraulic module 28/35 Hp-units		●									
EHMC15A80 Hydraulic module 28/35 Hp-units		●									
EHMC30A10 Hydraulic module 45/55/65 Hp-units		●									
EHMC30A80 Hydraulic module 45/55/65 Hp-units		●									
EKLS1 Low noise kit 014 Hp-units		●									
EKLS2 (d) Low noise kit 22/28/35/45/55/65 Hp-units		●	●	●							
ECB2MUAW (e) Controller kit		●									
ECB3MUAW (e) Controller kit		●									
ECB2MUBW (e) Controller kit			●								
ECB3MUBW (e) Controller kit			●								
EKQDP2M016 (h) Differential Pressure Sensor 4-20 mA 0-160 kPa					●	●	●	●	●	●	●
EKQDP2M020 (h) Differential Pressure Sensor 4-20 mA 0-250 kPa					●	●	●	●	●	●	●
EKQDP2M040 (h) Differential Pressure Sensor 4-20 mA 0-400 kPa					●	●	●	●	●	●	●
EKQDP2M060 (h) Differential Pressure Sensor 4-20 mA 0-600 kPa					●	●	●	●	●	●	●

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 and total heat recovery options on A/C and W/C chillers are not compatible
- (c) in case you are ordering iCM panels please contact factory
- (d) For 45/55/65 Hp-units 2 pieces are needed

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

(f) For 009/010/011/013 units (price available in SAP system)

(g) Price available in SAP system

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



Table of content

Condenserless chiller

NEW	EWLQ-KBW1N	121
	EWLQ-G-SS	122
	EWLQ-L-SS	123
	EWLD-J-SS	124
	EWLD-G-SS	125
	EWLD-I-SS	126
	Options	127

Condenserless scroll chiller

- › 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



› More information
about EWLQ-KBW1N

Cooling Only			EWLQ-KBW1N	014	025	033	049	064
Cooling capacity	Nom.	kW		12.05	21.87	27.96	43.4	56.71
Power input	Cooling	Nom.	kW	3.54	6.42	8.26	12.74	16.2
EER				3.402	3.406	3.386	3.406	3.501
Dimensions	Unit	Height	mm			600		
		Width	mm			600		
		Depth	mm		600		1,200	
Weight	Unit	kg		104	138	149	252	274
Water heat exchanger - evaporator	Type					Brazed plate		
	Water pressure drop	Cooling	Nom.	kPa	16.5	24.2	22.1	20
Compressor	Type					Scroll compressor		
	Quantity				1		2	
Sound power level	Cooling	Nom.	dBA	64	71	67	74	
		Nom.	dBA	64	71	67	74	
Operation range	Evaporator	Cooling	Min.-Max.	°CDB		-10~20		
	Condenser	Cooling	Min.-Max.	°CDB		25~60		
Refrigerant	Type					R-410A		
	Circuits	Quantity			1		2	
Piping connections	Evaporator water inlet/outlet (OD)				G1"		G1" 1/2	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400		

Condenserless multi-scroll chiller, standard efficiency, standard sound

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



EWLQ-G-SS



› More information
about EWLQ-G-SS

Cooling only			EWLQ-G-SS	090	100	120	130	150	170	190	210	240	300	360	
Cooling capacity			Nom. kW	86.5	98.4	110	125	139	160	181	206	231	290	346	
Power input			Cooling Nom. kW	22.4	25.8	29.2	33.0	36.8	42.0	47.0	54.2	59.9	75.6	91.8	
Capacity control			Method	Step											
			Minimum capacity %	50.0	43.0	50.0	44.0	50.0	45.0	50.0	43.0	50.0	40.0	50.0	
EER				3.86	3.81	3.78		3.79		3.80	3.86	3.80	3.85	3.84	3.77
Dimensions	Unit	Height	mm	1,066								1,186			
		Width	mm	928											
		Depth	mm	2,743											
Weight	Unit	kg	494	578	686	714	742	773	807	838	852	967	1,046		
		kg	525	615	729	760	791	826	863	901	916	1,044	1,134		
Water heat exchanger			Type	Plate heat exchanger											
- evaporator	Water volume		l	6	8	10	12	13	15	17	27	34			
	Water flow rate		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	83	85	87		88		90	92		93	
Sound pressure level	Cooling	Nom.	dBA	64	67	69	70		72		74		76		77
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	
Power supply	Max		A	59	66	72	80	88	102	116	131	145	183	221	
	Phase/Frequency/Voltage			3~/50/400 V											

Condenserless multi-scroll chiller, standard efficiency, standard sound

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



EWLQ-L-SS



› More information
about EWLQ-L-SS

Cooling only			EWLQ-L-SS	180	205	230	260	290	330	380	430	480	540	600	660	720			
Cooling capacity			Nom. kW	173	197	224	249	279	317	361	409	459	511	571	624	676			
Power input			Cooling Nom. kW	44.3	51.1	57.9	65.6	73.2	83.8	93.5	108	119	135	152	168	184			
Capacity control			Method	Step															
			Minimum capacity %	25.0	21.0	25.0	22.0	25.0	23.0	25.0	21.0	25.0	22.0	20.0	18.0	25.0			
EER				3.91	3.86	3.87	3.79	3.81	3.78	3.86	3.79	3.84	3.78	3.76	3.71	3.67			
Dimensions	Unit	Height	mm	1,970								2,090							
		Width	mm	928								2,210							
		Depth	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				
		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	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			
Compressor	Type	Water pressure drop	Cooling Nom. kPa	25	20	25	22	2,801						44	52	62			
		Quantity		4															
		Sound power level	Cooling Nom. dBA	83	86	88	90	91	93	95				96					
Operation range	Cooling	Sound pressure level	Nom. dBA	65	68	70	72	74	73	76	77				78				
		Evaporator	Cooling Min.~Max. °CDB	-10~15															
		Condenser	Cooling Min.~Max. °CDB	30~60															
Refrigerant	Type / GWP			R-410A / 2,087.5															
	Circuits			2															
Piping connections	Evaporator water inlet/outlet (OD)			3"															
	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				
Unit	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 III controller with superior control logic and easy interface



EWLD-J-SS

MicroTech III

Cooling only			EWLD-J-SS	110	130	145	165	235	195	265	290	310	330	360	390	430	470	500	530									
Cooling capacity	Nom.	kW	110	128	142	163	236	191	264	285	306	327	355	382	428	473	501	529										
Power input	Cooling	Nom.	kW	31.2	38.4	43.8	50.4	66.0	56.0	75.3	87.4	94.0	100	106	111	122	132	141	150									
Capacity control	Method			Stepless							12.5																	
Minimum capacity	%		25.0							12.5																		
EER			3.51	3.33	3.25	3.24	3.58	3.42	3.51	3.26	3.25	3.35	3.43	3.52	3.59	3.55	3.52											
Dimensions	Unit	Height	mm	1,020							2,000																	
		Width	mm								913																	
		Depth	mm								2,684																	
Weight	Unit	kg	1,124	1,141	1,237	1,263	1,489	1,305	1,489	2,474	2,500	2,526	2,568	2,611	2,795	2,979												
	Operation weight	kg	1,138	1,159	1,253	1,281	1,518	1,327	1,518	2,505	2,533	2,562	2,608	2,655	2,845	3,036												
Water heat exchanger	Type		Plate heat exchanger																									
- evaporator	Water volume	l	14	18	14	17	26	20	26	29	31	33	37	41	46	52												
	Water flow rate	Nom.	l/s	5.2	6.1	6.8	7.8	11.3	9.2	12.6	13.6	14.6	15.6	17.0	18.3	20.5	22.6	24.0	25.3									
	Water pressure drop	Cooling	Nom.	kPa	14	13	39	37	26	33	32	39	37	34	33	29	26	29	32									
Compressor	Type		Single screw compressor																									
	Quantity		1																2									
Sound power level	Cooling	Nom.	dBA	89							94								96									
Sound pressure level	Cooling	Nom.	dBA	79							82								83									
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							2																
Piping connections	Evaporator water inlet/outlet (OD)				76.2 mm																							
Unit	Maximum starting current	A	151		195	288	195	288	281	293	293	310	403	422	440													
	Nominal running current (RLA)	Cooling	A	52	62	72	81	107	91	120	145	153	162	171	181	197	214	227	241									
	Maximum running current	A	76	97	107	122	167	143	189	215	230	245	265	286	311	335	357	378										
Power supply	Phase/Frequency/Voltage	Hz/V																										

› More information
about EWLD-J-SS



Condenserless screw chiller, standard efficiency, standard sound



- › Stepless single-screw compressor
 - › Optimised for use with **R-134a**
 - › **1-2 truly independent refrigerant circuits**
 - › Standard electronic expansion valve
 - › DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
 - › All models are PED pressure vessel approved
 - › Partial heat recovery available
 - › MicroTech III controller with superior control logic and easy interface



EWI D-G-SS

MicroTech III



- › More information about EWLD-G-SS

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



› More information
about EWLD-I-SS

Cooling only			EWLD-I-SS																																		
Cooling capacity	Nom.	kW	320	400	420	500	600	650	750	800	850	900	950	C10	C11	C12	C13	C14	C15	C16	C17																
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																												
		Depth	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	Type		Single pass shell and tube																																		
- evaporator	Water volume	l	193	183	172	271	263	256	248	241	233	504	489	472	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	97			98	99	100			101			103																					
Sound pressure level	Cooling	Nom.	dBA	75	76	78			79	80	81			80			83																				
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-8~15																																
	Condenser	Cooling	Min.~Max.	°CDB	25~60																																
Refrigerant	Type / GWP				R-134a / 1,430																																
	Circuits	Quantity			1			2			3																										
Piping connections	Evaporator water inlet/outlet (OD)				42mm																																
Unit	Maximum starting current	A	330	464	493	627	650	681	703	836	867	898	920	942																							
	Nominal running current (RLA)	Cooling	A	131	157	181	214	260	287	313	338	361	391	420	448	470	493	517	542	571	601	631															
	Maximum running current	A	204	233	271	299	407	436	465	504	542	570	597	670	698	737	775	814	841	868	896																
Power supply	Phase/Frequency/Voltage	Hz/V			3~/50/400																																

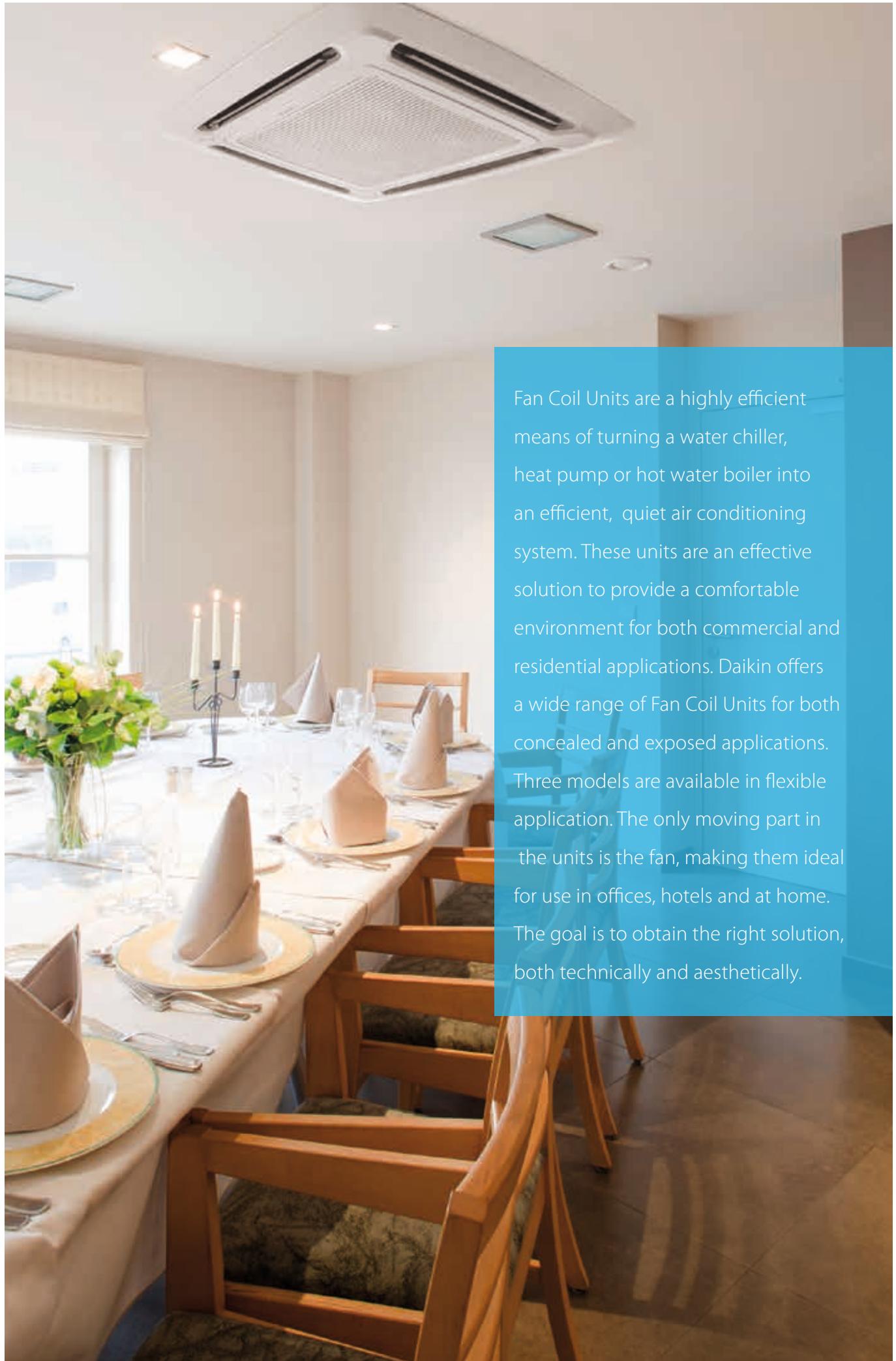
Options - Condenserless chillers

Options - Small condenserless chillers

Chiller series	LWE	
	High Glycol	Low Glycol
	OPZH	OPZL
EWLQ-KBW1N	Option	Option

(!) Impossible option combination: OPZH+OPZL





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.

Table of content

Fan coil units

Why choose Daikin fan coil units? 130

Products overview 134

Round flow cassette

FWC-BT/BF 136

4-way blow ceiling mounted cassettes

FWG-AT/AF 137

FWF-BT/BF 138

FWF-CT 139

Floor standing units

FWZ-AT/AF 140

FWV-DAT/DAF 141

Flexi type units

FWR-AT/AF 142

FWL-DAT/DAF 143

FWS-AT/AF 144

FWM-DAT/DAF 145

Ducted units

FWE-CT/CF low ESP 146

FWP-AT medium ESP 147

FWB-BT medium ESP 148

FWN-AT/AF medium ESP 149

FWD-AT/AF high ESP 150

Wall mounted unit

FWT-CT 151

Options & accessories 152



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

Fan coil unit software

Select your unit via our selection software
› Selection logic is based on cooling and/or heating mode conditions entered by the user
› A detailed report including technical specifications and wiring diagram can be printed.

Download the software from the business portal. Fan coil selection is available in the software finder.

Payback tool

Prove quickly the saving in electric costs using the new BLDC motor technology compared to the AC motor technology via our payback tool. The tool can be downloaded from the business portal. Search for: BLDC payback tool

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:



Check on



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



Benefits of brushless inverter technology on fan coil units:

Higher efficiency than AC (Alternative Current) motor

- › Up to 70% energy savings
- › No heat generation
- › No power losses
- › Higher efficiency than AC motors to reach set point

High comfort level

- › Less fluctuation of air temperature and relative humidity
- › More consistent output level
- › Stepless speed change for gradual air output
- › More accurate adjustments to reach set point

Low sound levels

- › Lower minimum rotation speed
- › No start-stop sequence
- › Gradual air output

High flexibility level

- › Multiple configurations: cassettes, floorstanding units, flexi type units with or without cabinet and ducted units
- › Wide capacity range in heating and cooling
- › Different piping topologies and connection valves



FWN-AT/AF



FWG-AT/AF



FWR-AT/AF



FWS-AT/AF



FWC-BT/BF

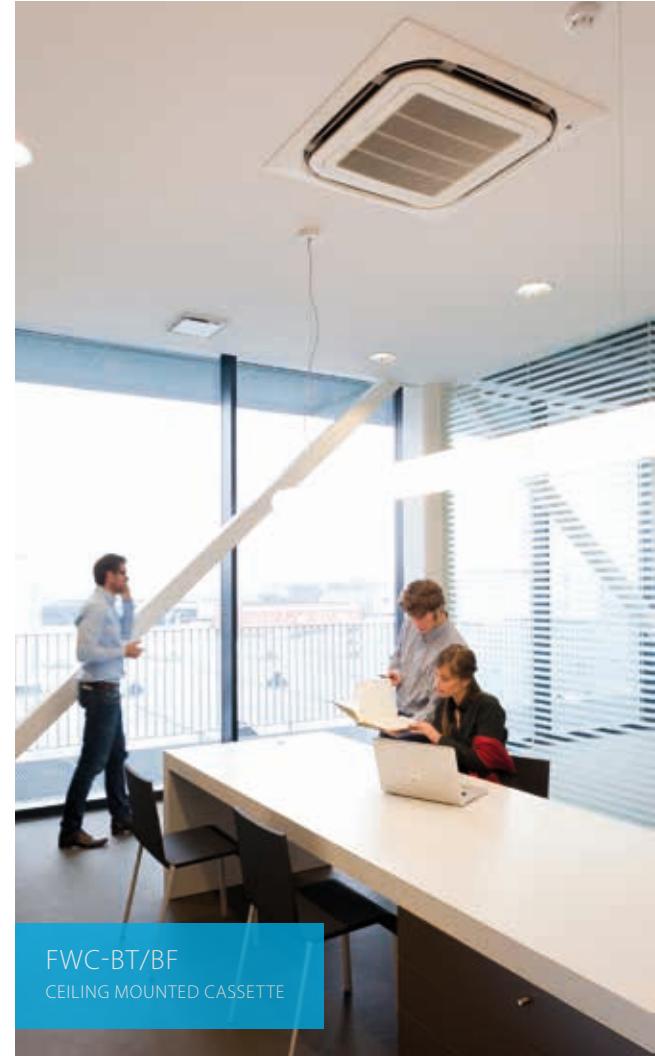


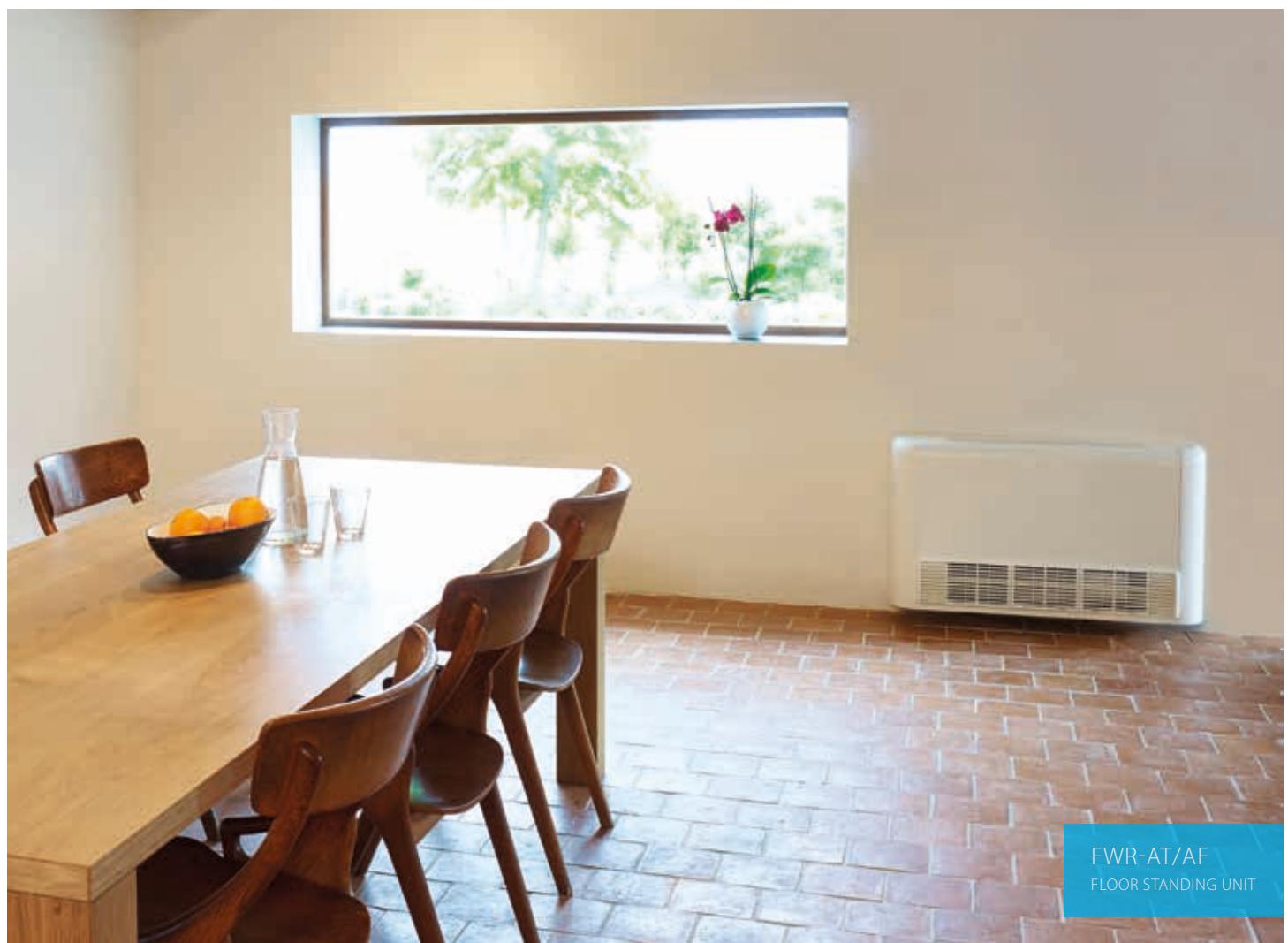
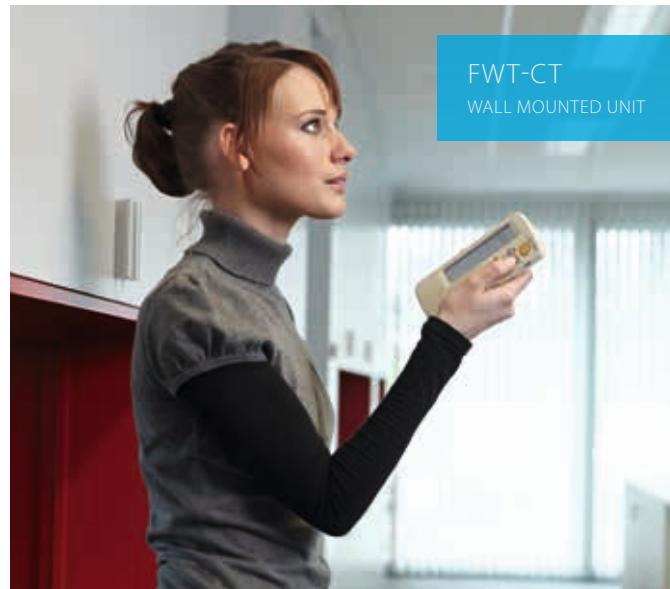
FWP-AT



FWZ-AT/AF

Fan coil units

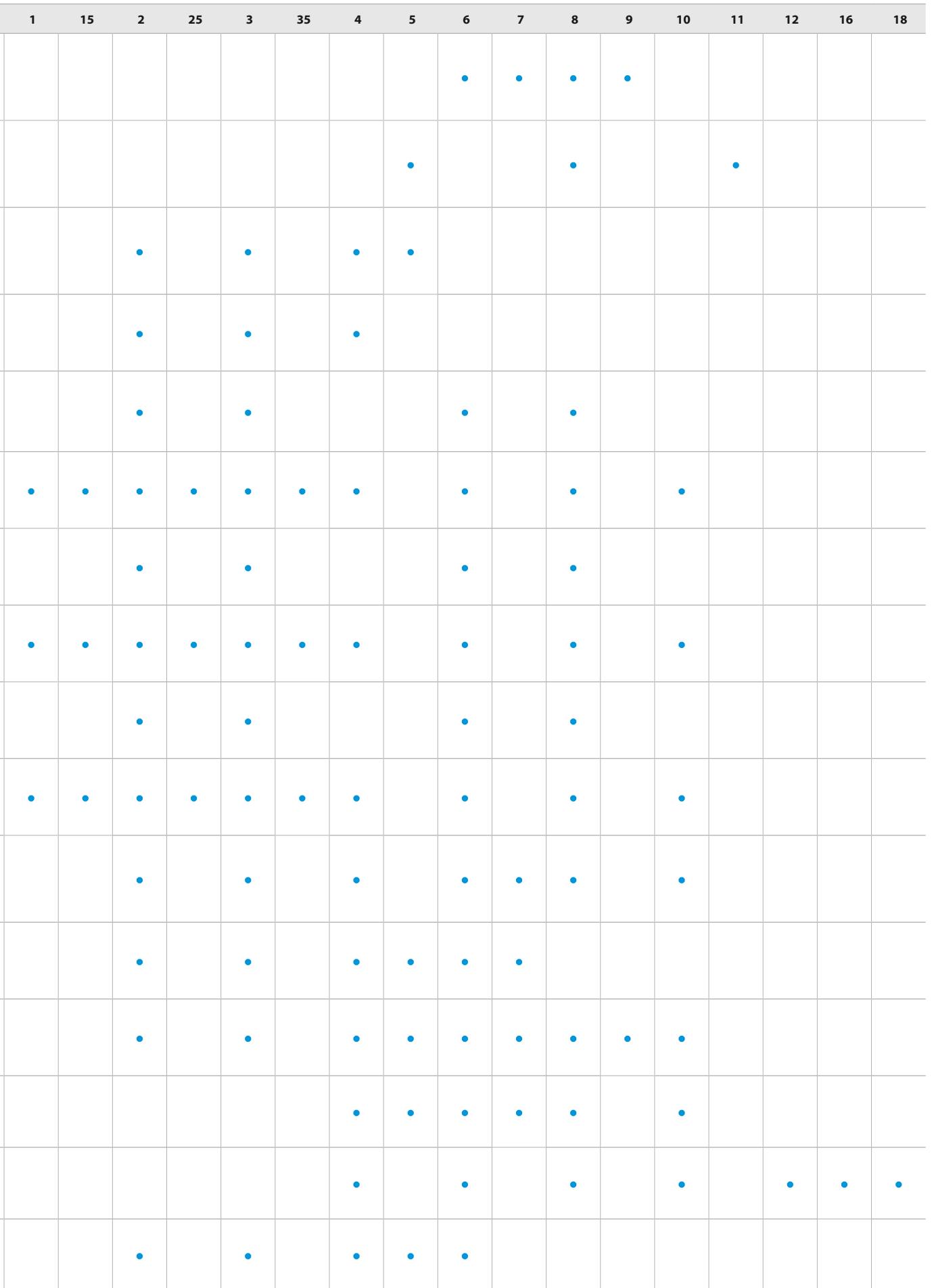




Products overview

Type	Model	Product name	Fan motor type	Capacity
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: 5.5 - 12.1 kW
	4-way blow ceiling mounted cassette - 900 x 900 cassette - High efficiency, continuous air flow regulation and fan speed modulation - Reduced sound emissions - Easy installation and maintenance			
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 - 5.2 kW Heating: 2.3 - 6.7 kW	
	4-way blow ceiling mounted cassette - 600 x 600 cassette - Easy installation and maintenance - High power air flow - Standard drain pump with 700 mm lift			
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			
Flexi type units	Flexi type unit - For horizontal or vertical mounting - 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			
Ducted 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			
Wall mounted unit	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: 2.3 - 13.00 kW	
	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			
Ducted units	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-BT	 AC Cooling: 2.61 - 10.34 kW Heating: 5.47 - 18.78 kW	
	Ducted unit with medium ESP - For horizontal or vertical concealed mounting - Available static pressure up to 70 Pa - Easy maintenance			
Wall mounted unit	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 - High aesthetic cabinet design - Optimum air distribution - Easy installation - 3-speed fan motor			

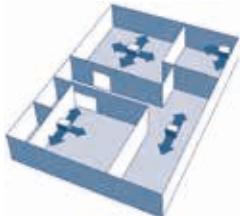
Capacity class



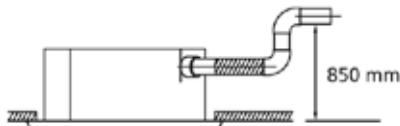
Round flow cassette

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 information about FWC-BT



> More information about 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					
	Latent capacity	High kW	1.3	1.4	1.5	1.6		1.7		1.8	1.9				
	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					
Power input		Low kW	4.8	5.5	5.8	7.0	5.2	5.5	5.8	6.8					
	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	HeightxWidthxDepth	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					
Total sound power level	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					
	High	dBA	43.0	47.0	53.0	57.0	43.0	47.0	53.0	57.0					
Sound pressure level	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					
	High	dBA	29.0	33.0	39.0	43.0	29.0	33.0	39.0	43.0					
Piping connections	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					
	Drain OD	mm	VP25 (External dia.32 / internal dia. 25)												
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/220-240												

4-way blow ceiling mounted cassette

BLDC fan motor unit for ceiling mounting. High efficiency, 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
- › Continuous modulation of fan speed resulting in reduced sound emissions, in comparison with fixed speed AC motor fan coil units
- › Easy installation and maintenance



› More information about FWG-AF



› More information about FWG-AT

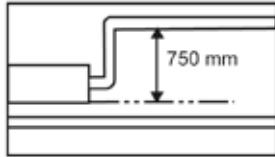


Indoor unit			FWG-AT/AF	05	08	11	05	08	11
				2-pipe			4-pipe		
Cooling capacity (standard conditions)	Total capacity	High kW	5.86	8.71	11.63	4.36	7.11	8.88	
		Medium kW	4.63	7.20	9.62	3.58	6.05	7.67	
		Low kW	3.49	5.77	7.81	2.79	4.97	6.46	
	Sensible capacity	High kW	4.47	6.34	8.25	3.81	5.66	7.05	
		Medium kW	3.42	5.36	6.89	2.97	4.80	5.98	
		Low kW	2.53	4.23	5.50	2.23	3.78	4.86	
	Latent capacity	High kW	1.39	2.37	3.38	0.55	1.45	1.83	
	Heating capacity (standard conditions)	High kW	5.91	9.40	11.35	6.74	9.86	13.79	
		Medium kW	4.83	7.52	9.51	5.47	8.51	11.82	
		Low kW	3.73	5.95	7.66	4.45	7.09	10.09	
Power input	High kW	0.047	0.100	0.130	0.047	0.100	0.130		
	Medium kW	0.03	0.06	0.09	0.03	0.06	0.09		
	Low kW	0.02	0.04	0.05	0.02	0.04	0.05		
FCEER			B		A		B		
FCCOP			B		A		B		
Dimensions	Unit	HeightxWidthxDepth mm	265x820x820			300x820x820	265x820x820	268x820x820	300x820x820
Weight	Unit	kg	26.0	28.0	32.0	26.0	28.0	32.0	
	Operation weight	kg	32	34	39	35	34	39	
Casing	Colour		Without powder paint						
Decoration panel	Dimensions	Unit	HeightxWidthxDepth mm	85x990x990					
	Weight	kg		4.0					
Heat exchanger	Water volume	l	1	2		1		2	
Air filter	Type		Washable Saranet						
Fan	Type		Turbo fan						
	Quantity		1						
	Air flow rate	High m³/h	1,053	1,512	1,801	1,053	1,512	1,801	
		Medium m³/h	799	1,223	1,478	799	1,223	1,478	
		Low m³/h	595	951	1,155	595	951	1,155	
Total sound power level	High	dBA	46	57	59	46	57	59	
	Medium	dBA	40	52	55	40	52	55	
	Low	dBA	34		49	34		49	
Sound pressure level	High	dBA	37	47	51	37	47	51	
	Medium	dBA	31	42	46	31	42	46	
	Low	dBA	23	37	41	23	37	41	
Water flow	Cooling	High l/h	1,030	1,530	2,040	770	1,250	1,570	
		Medium l/h	1,030	1,530	2,040	770	1,250	1,570	
		Low l/h	1,030	1,530	2,040	770	1,250	1,570	
	Heating	High l/h	1,030	1,530	2,040	670	970	1,360	
		Medium l/h	1,030	1,530	2,040	670	970	1,360	
		Low l/h	1,030	1,530	2,040	670	970	1,360	
Piping connections	Drain OD mm		19						
Power supply	Phase/Frequency/Voltage Hz/V		1N~50/220-240						
Current input	High A	0.26	0.74	0.95	0.26	0.74	0.95		
	Medium A	0.19	0.43	0.55	0.19	0.43	0.55		
	Low A	0.13	0.28	0.35	0.13	0.28	0.35		

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 depth) 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 information about FWF-BT



> More information about 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									
	Latent capacity	High	kW	0.3	1.0	1.3	1.4	0.3	1.1	1.3	1.4								
		Medium	kW	2.4	3.3	4.5	5.6	3.3	3.6	4.7	5.7								
		Low	kW	2.1	2.9	3.5	4.4	2.9	3.1	3.7	4.7								
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	HeightxWidthxDepth	mm	285 x575x575															
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	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																

4-way blow ceiling mounted cassette

AC fan motor unit for ceiling mounting

- › 4 way air discharge and air swing
- › Compact casing (570mm in width and depth) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- › Wide operating range
- › Air suction from underneath
- › Easy installation and maintenance
- › Built-in high pressure drain pump with 700mm lift
- › Double-intake centrifugal fans
- › High power air flow
- › 3-speed fan motor
- › Infrared remote control as standard with decoration panel kit



› More information about FWF-CT



Indoor unit			FWF-CT	02	03 2-pipe	04
Cooling capacity (standard conditions)	Total capacity	High kW	2.43	4.04	4.20	
	Medium kW	2.15		3.46	3.73	
	Low kW	1.86		2.73	3.11	
	Sensible capacity	High kW	1.85	2.87	3.09	
	Medium kW	1.62		2.37	2.70	
	Low kW	1.39		1.83	2.22	
	Latent capacity	High kW	0.58	1.17	1.11	
Heating capacity (standard conditions)	High kW	3.03		3.88	4.37	
	Medium kW	2.50		3.08	3.40	
	Low kW	2.08		2.18	2.91	
Power input	High kW	0.063		0.064	0.079	
	Medium kW	0.05		0.06	0.08	
	Low kW		0.05		0.07	
FCEER			E	D	E	
FCCOP				E		
Dimensions	Unit	HeightxWidthxDepth mm		250x570x570		
Weight	Unit	kg	15.0		17.0	
	Operation weight	kg	19		21	
Decoration panel	Dimensions	Unit	HeightxWidthxDepth mm	45x460x460		
				3.0		
Heat exchanger	Water volume	l	-		1	
Air filter	Type			Washable Saranet		
Fan	Type			Turbo fan		
	Quantity			1		
	Air flow rate	High m³/h	646	680	748	
		Medium m³/h	493	527	664	
		Low m³/h	391	374	476	
Total sound power level	High	dBA	52	54	56	
	Medium	dBA	45	47	56	
	Low	dBA	39	41	45	
Sound pressure level	High	dBA	42	45	48	
	Medium	dBA	35	38	40	
	Low	dBA	29	30	36	
Water flow	Cooling	High l/h	460	780	810	
		Medium l/h	460	780	810	
		Low l/h	460	780	810	
	Heating	High l/h	460	780	810	
		Medium l/h	460	780	810	
		Low l/h	460	780	810	
Piping connections	Drain OD mm			19.05		
Power supply	Phase/Frequency/Voltage Hz/V			1N~/50/220-240		
Current input	High A		0.28		0.35	
	Medium A		0.23	0.25	0.32	
	Low A		0.21	0.24	0.31	

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 information about FWZ-AT



› More information about FWZ-AF



Indoor unit			FWZ-AT/AF	02	03	06	02	03	06
				2-pipe			4-pipe		
Cooling capacity (standard conditions)	Total capacity	High kW	1.94	2.91	4.48	1.77	2.86	4.64	
		Medium kW	1.69	2.37	3.64	1.55	2.32	3.79	
		Low kW	1.35	1.75	2.99	1.25	1.72	3.10	
	Sensible capacity	High kW	1.49	2.09	3.62	1.44	2.06	3.54	
		Medium kW	1.30	1.69	2.90	1.21	1.65	2.85	
		Low kW	1.04	1.25	2.31	0.97	1.23	2.27	
	Latent capacity	High kW	0.54	0.82	0.98	0.33	0.80	1.19	
	Heating capacity (standard conditions)	High kW	2.15	2.94	4.88	1.76	2.68	4.64	
		Medium kW	1.81	2.37	4.11	1.56	2.31	4.07	
Power input		Low kW	1.50	1.76	3.36	1.36	1.88	3.55	
	High kW		0.019	0.016	0.033	0.019	0.016	0.033	
	Medium kW			0.01	0.02		0.01	0.02	
FCEER	Unit	HeightxWidthxDepth mm		B	A	B	A		
	Weight Unit	kg	564x774x226	564x984x226	564x1,190x226	564x74x226	564x984x226	564x1,190x226	
Dimensions	Unit	HeightxWidthxDepth mm		20.6	26.7	32.3	20.6	26.7	32.3
Weight	Unit	kg							
Casing	Colour			White - RAL9010					
Heat exchanger	Water volume l			1					
Air filter	Type			Polypropylene net					
Fan	Type			Centrifugal					
	Quantity			1	2	1	2		
	Air flow rate High m³/h		344	442	785	327	431	763	
	Medium m³/h		271	341	605	261	332	593	
	Low m³/h		211	241	470	205	237	460	
Total sound power level	High dBA		50	48	56	50	47	58	
	Medium dBA		44	42	49	44	41	53	
	Low dBA		40	36	43	38	33	48	
Sound pressure level	High dBA		45	43	51	45	42	54	
	Medium dBA		39	37	44	39	36	48	
	Low dBA		35	31	38	33	28	43	
Water flow	Cooling	High l/h	337	503	774	307	493	802	
		Medium l/h	292	408	628	267	400	654	
		Low l/h	234	302	515	216	297	535	
	Heating	High l/h	373	506	866	154	234	406	
		Medium l/h	315	408	709	136	202	357	
		Low l/h	260	301	575	119	165	311	
Electric heater	Power input 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					

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 information
about FWV-DAT



› More information
about 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		
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	4.66	7.64
				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
			Latent capacity	High	kW	0.34	0.44	0.54	0.82	0.76	1.18	0.98	1.80	2.06	0.32	0.42	0.33	0.53	0.80	0.75	1.17	1.19	1.79	2.03	
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	0.05	0.06	0.07	0.13	0.17
			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			
FCEER					E		D	E	D					E		D	E	D	E						
FCCOP					E		D	E	D					E		D	E	D	E						
Dimensions			Unit	HeightxWidthxDepth	mm	564x774x226	564x984x226	564x1,190x226	564x1,400x251	564x774x226	564x984x226	564x1,190x226	564x1,400x251												
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											
Heat exchanger			Water volume	I	0		1		2	0		1									2				
Additional heat exchanger			Water volume	I			-														1				
Air filter			Type											Polypropylene net											
Fan			Type											Centrifugal											
Quantity					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	49	50	48	52	53	56	61	67	45	49	50	48	47	53	56	58	66			
			Medium	dBA	42	44	43	42	43	49	54	60	39	44	43	41	45	46	53	54	58				
			Low	dBA	37	38	40	35	36	35	43	47	49	33	40	38	34	33	36	39	48	46			
Sound pressure level			High	dBA	42	44	45	43	47	48	51	56	62	40	44	45	43	42	46	51	54	61			
			Medium	dBA	37	39	38	37	38	44	49	55	34	39	38	36	38	41	48	49	53				
			Low	dBA	32	33	35	30	31	30	38	42	44	28	33	29	28	29	32	43	41	43			
Water flow			Cooling	High	l/h	264	299	337	415	503	602	743	774	1,152	1,376	250	291	307	409	493	594	730	802	1,138	1,352
			Medium	l/h	213	261	292	348	408	451	561	628	905	1,071	196	254	267	343	400	447	554	654	898	1,058	
			Low	l/h	179	216	234	275	302	340	431	515	682	706	169	212	216	272	297	336	425	535	676	699	
			Heating	High	l/h	317	320	373	469	506	704	736	866	1,129	1,455	146	154	222	234	368	334	406	610	643	
			Medium	l/h	256	300	315	393	408	545	563	709	898	1,135	130	137	136	191	202	304	281	357	527	551	
			Low	l/h	211	252	260	302	301	415	430	575	690	764	115	120	119	156	165	247	238	311	440	425	
Electric heater			Power input	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											
Current input			High	A	0.16	0.20		0.27		0.40	0.39	0.80	1.07	0.16		0.20		0.27		0.40	0.39	0.80	1.07		
			Medium	A	0.11	0.14		0.20		0.29	0.28	0.57	0.78	0.11		0.14		0.20		0.29	0.28	0.57	0.78		
			Low	A	0.09	0.11		0.14		0.19	0.39	0.54	0.09	0.11		0.14		0.19	0.39	0.54	0.09				

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 information
about FWR-AT



› More information
about FWR-AF



Indoor unit			FWR-AT/AF	02	03	06	02	03	06
				2-pipe			4-pipe		
Cooling capacity (standard conditions)	Total capacity	High kW	1.94	2.91	4.48	1.77	2.86	4.64	
		Medium kW	1.69	2.37	3.64	1.55	2.32	3.79	
		Low kW	1.35	1.75	2.99	1.25	1.72	3.10	
	Sensible capacity	High kW	1.49	2.09	3.62	1.44	2.06	3.54	
		Medium kW	1.30	1.69	2.90	1.21	1.65	2.85	
		Low kW	1.04	1.25	2.31	0.97	1.23	2.27	
	Latent capacity	High kW	0.54	0.82	0.98	0.33	0.80	1.19	
	Heating capacity (standard conditions)	High kW	2.15	2.94	4.88	1.76	2.68	4.64	
Power input	Medium	kW	1.81	2.37	4.11	1.56	2.31	4.07	
	Low	kW	1.50	1.76	3.36	1.36	1.88	3.55	
	High	kW	0.019	0.016	0.033	0.019	0.016	0.033	
Power input				0.01	0.02		0.01		0.02
						0.01			
FCEER				B	A		B	A	
FCCOP				B	A		B	A	
Dimensions	Unit	HeightxWidthxDepth	mm	564x774x246	564x984x246	564x1,190x246	564x74x246	564x984x246	564x1,190x246
Weight	Unit		kg	21.2	27.5	33.6	21.2	27.5	33.6
Casing	Colour			White - RAL9010					
Heat exchanger	Water volume	l		1					
Air filter	Type			Polypropylene net					
Fan	Type			Centrifugal					
	Quantity			1	2		1	2	
	Air flow rate	High	m³/h	344	442	785	327	431	763
		Medium	m³/h	271	341	605	261	332	593
		Low	m³/h	211	241	470	205	237	460
Total sound power level	High	dBA	50	48	56	50	47	58	
	Medium	dBA	44	42	49	44	41	53	
	Low	dBA	40	36	43	38	33	48	
Sound pressure level	High	dBA	45	43	51	45	42	54	
	Medium	dBA	39	37	44	39	36	48	
	Low	dBA	35	31	38	33	28	43	
Water flow	Cooling	High	l/h	337	503	774	307	493	802
		Medium	l/h	292	408	628	267	400	654
		Low	l/h	234	302	515	216	297	535
	Heating	High	l/h	373	506	866	154	234	406
		Medium	l/h	315	408	709	136	202	357
		Low	l/h	260	301	575	119	165	311
Electric heater	Power input	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					

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 information about FWL-DAT



› More information about 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	1.42	1.64	1.74	2.32	2.81	3.36	4.16	4.57	4.66	7.64	
			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		
			Latent capacity	High	kW	0.34	0.44	0.54	0.82	0.76	1.18	0.98	1.80	2.06	0.32	0.42	0.33	0.53	0.80	0.75	1.17	1.19	1.79	2.03		
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	4.67	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					
			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					
FCEER					E		D	E		D		E		D	E	D	E									
FCCOP					E		D			D		E			D	E										
Dimensions			Unit	HeightxWidthxDepth	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												
Heat exchanger			Water volume	l	0		1		2	0		1									2					
Additional heat exchanger			Water volume	l										-								1				
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				
			m³/h	233	271		341	450	497	605	771	1,022	225	261	334	332	444	490	593	765	1,007					
			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	49	50	48	52	53	56	61	67	45	49	50	48	47	53	56	58	60	66			
			Medium	dBA	42	44	43	42	43	49	54	60	39	44	43	41	45	46	53	54	58					
			Low	dBA	37	38	40	35	36	35	43	47	49	33	40	38	34	33	36	39	48	46	48			
Sound pressure level			High	dBA	42	44	45	43	47	48	51	56	62	40	44	45	43	42	46	51	54	55	61			
			Medium	dBA	37	39	38	37	38	44	49	55	34	39	38	36	38	41	48	49	53					
			Low	dBA	32	33	35	30	31	30	38	42	44	28	33	29	28	29	32	43	41	43				
Water flow			Cooling	I/h	264	299	337	415	503	602	743	774	1,152	1,376	250	291	307	409	493	594	730	802	1,138	1,352		
			Medium	I/h	213	261	292	348	408	451	561	628	905	1,071	196	254	267	343	400	447	554	654	898	1,058		
			Low	I/h	179	216	234	275	302	340	431	515	682	706	169	212	216	272	297	336	425	535	676	699		
Heating			High	I/h	317	320	373	469	506	704	736	866	1,129	1,455	146	154	222	234	368	334	406	610	643			
			Medium	I/h	256	300	315	393	408	545	563	709	898	1,135	130	137	136	191	202	304	281	357	527	551		
			Low	I/h	211	252	260	302	301	415	430	575	690	764	115	120	119	156	165	247	238	311	440	425		
Electric heater	Power input		kW	1.0	1.5		1.6	2.0	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												
Current input			High	A	0.16	0.20		0.27	0.40	0.39	0.80	1.07	0.16	0.20		0.27	0.40	0.39	0.80	1.07						
			Medium	A	0.11	0.14		0.20	0.29	0.28	0.57	0.78	0.11	0.14		0.20	0.29	0.28	0.57	0.78						
			Low	A	0.09	0.11		0.14	0.19	0.39	0.54	0.09	0.11	0.14		0.19	0.39	0.54	0.09	0.11						

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



› More information
about FWS-AT



› More information
about FWS-AF

Indoor unit			FWS-AT/AF	02	03	06	02	03	06
				2-pipe			4-pipe		
Cooling capacity (standard conditions)	Total capacity	High kW	1.94	2.91	4.48		1.77	2.86	4.64
		Medium kW	1.69	2.37	3.64		1.55	2.32	3.79
		Low kW	1.35	1.75	2.99		1.25	1.72	3.10
	Sensible capacity	High kW	1.49	2.09	3.62		1.44	2.06	3.54
		Medium kW	1.30	1.69	2.90		1.21	1.65	2.85
		Low kW	1.04	1.25	2.31		0.97	1.23	2.27
	Latent capacity	High kW	0.54	0.82	0.98		0.33	0.80	1.19
	High kW	2.15	2.94	4.88		1.76	2.68	4.64	
	Medium kW	1.81	2.37	4.11		1.56	2.31	4.07	
	Low kW	1.50	1.76	3.36		1.36	1.88	3.55	
Power input	High kW	0.019	0.016	0.033		0.019	0.016	0.033	
	Medium kW		0.01		0.02		0.01		0.02
	Low kW				0.01				
FCEER			B	A			B	A	
FCCOP			B	A			B	A	
Dimensions	Unit	HeightxWidthxDepth mm	535x584x224	535x794x224	535x1,000x224	535x584x224	535x794x224	535x1,000x224	
Weight	Unit kg		16.9	22.1	26.6		16.9	22.1	26.6
Heat exchanger	Water volume l				1				
Air filter	Type				Polypropylene net				
Fan	Type				Centrifugal				
	Quantity		1	2		1	2		
	Air flow rate High m³/h		344	442	785	327	431	763	
	Medium m³/h		271	341	605	261	332	593	
	Low m³/h		211	241	470	205	237	460	
Total sound power level	High dBA		50	48	56	50	47	58	
	Medium dBA		44	42	49	44	41	53	
	Low dBA		40	36	43	38	33	48	
Sound pressure level	High dBA		45	43	51	45	42	54	
	Medium dBA		39	37	44	39	36	48	
	Low dBA		35	31	38	33	28	43	
Water flow	Cooling	High l/h	337	503	774	307	493	802	
		Medium l/h	292	408	628	267	400	654	
		Low l/h	234	302	515	216	297	535	
	Heating	High l/h	373	506	866	154	234	406	
		Medium l/h	315	408	709	136	202	357	
		Low l/h	260	301	575	119	165	311	
Electric heater	Power input 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				

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



› More information about FWM-DAT



› More information about 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	
				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	4.64	7.64	
		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	
	Latent capacity	High	kW	0.34	0.44	0.54	0.82	0.76	1.18	0.98	1.80	2.06	0.32	0.42	0.33	0.53	0.80	0.75	1.17	1.19	1.79	2.03		
		Medium	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		
		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		
Heating capacity (standard conditions)	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	0.05	0.06	0.07	0.13	0.17
		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			
FCEER				E		D	E	D		E		E		D	E	D	E		E					
FCCOP				E		D	E	D		E		E		D		D	E		E					
Dimensions	Unit	HeightxWidthxDepth	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					
Heat exchanger	Water volume	l	0			1			2	0			1							2				
Additional heat exchanger	Water volume	l				-														1				
Air filter	Type			Polypropylene net										Centrifugal										
Fan	Type			1										2										
	Quantity			1			2			1				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	49	50	48	52	53	56	61	67	45	49	50	48	47	53	56	58	60	66			
	Medium	dBA	42	44	44	43	49	54	60	39	44	43	41	45	46	53	54	58						
	Low	dBA	37	38	40	35	36	35	43	47	49	33	40	38	34	33	36	39	48	46	48			
Sound pressure level	High	dBA	42	44	45	43	47	48	51	56	62	40	44	45	43	42	46	51	54	55	61			
	Medium	dBA	37	39		38	37	38	44	49	55	34	39		38	36	38	41	48	49	53			
	Low	dBA	32	33	35	30	31	30	38	42	44	28	33	29	28	29	32	43	41	43				
Water flow	Cooling	High	l/h	264	299	337	415	503	602	743	774	1,152	1,376	250	291	307	409	493	594	730	802	1,138		
		Medium	l/h	213	261	292	348	408	451	561	628	905	1,071	196	254	267	343	400	447	554	654	898	1,058	
		Low	l/h	179	216	234	275	302	340	431	515	682	706	169	212	216	272	297	336	425	535	676	699	
	Heating	High	l/h	317	320	373	469	506	704	736	866	1,129	1,455	146	154	222	234	368	334	406	610	643		
		Medium	l/h	256	300	315	393	408	545	563	709	898	1,135	130	137	136	191	202	304	281	357	527	551	
	Low	l/h	211	252	260	302	301	415	430	575	690	764	115	120	119	156	165	247	238	311	440	425		
Electric heater	Power input	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						
Current input	High	A	0.16	0.20		0.27	0.40	0.39	0.80	1.07	1.16		0.20		0.27		0.40	0.39	0.80	1.07				
	Medium	A	0.11	0.14		0.20	0.29	0.28	0.57	0.78	0.11		0.14		0.20		0.29	0.28	0.57	0.78				
	Low	A	0.09	0.11		0.14		0.19	0.39	0.54	0.09		0.11		0.14		0.19	0.39	0.54	0.09				

Concealed ceiling unit with low ESP

AC fan motor unit for horizontal concealed mounting

- › Easy installation and maintenance
- › 4-speed fan motor
- › High power air flow
- › Wired electronic controllers range
- › Available static pressure up to 50Pa
- › Wide operating range
- › Standard left and right side water connection
- › Extended drain pan as standard
- › Factory mounted valve (both left and right side)
- › Nylon filter G2 class
- › Polyethylene insulation



› More information about FWE-CT



› More information about FWE-CF

Indoor unit			FWE-CT/CF	02	03	04	06	07	08	10	02	03	04	06	07	08	10		
				2-pipe								4-pipe							
Cooling capacity (standard conditions)	Total capacity	Super high	kW	2.17	3.22	4.34	6.06	6.83	7.84	9.96	2.10	3.16	3.98	6.05	6.78	7.79	9.91		
	High	kW	1.81	2.78	3.49	5.32	5.68	6.92	8.64	1.76	2.69	3.22	5.20	5.61	6.79	8.61			
	Medium	kW	1.60	2.45	2.96	4.56	4.94	6.07	7.51	1.56	2.36	2.70	4.47	4.91	5.98	7.49			
	Low	kW	0.90	1.40	1.80	2.80	3.10	3.90	4.90	0.85	1.40	1.63	2.72	3.10	3.88	4.88			
Sensible capacity	Super high	kW	1.61	2.44	3.27	4.55	4.83	6.02	7.58	1.55	2.37	3.19	4.49	5.16	5.91	7.45			
	High	kW	1.33	2.08	2.58	3.94	4.30	5.25	6.48	1.28	1.99	2.53	3.81	4.20	5.09	6.39			
	Medium	kW	1.16	1.82	2.16	3.34	3.71	4.56	5.57	1.13	1.73	2.10	3.23	3.64	4.44	5.49			
	Low	kW	0.70	1.20	1.40	2.10	2.50	3.10	3.70	0.66	1.18	1.35	2.02	2.47	3.05	3.65			
Latent capacity	Super high	kW	0.56	0.78	1.07	1.51	2.00	1.82	2.38	0.55	0.79	1.56	1.62	1.88	2.46				
	High	kW	0.48	0.70	0.91	1.38	1.67	2.16	0.48	0.70	0.69	1.39	1.41	1.70	2.22				
Heating capacity (standard conditions)	Super high	kW	2.38	3.66	4.77	6.48	7.96	9.00	11.08	2.02	3.11	4.01	5.43	6.69	7.50	9.15			
	High	kW	1.96	3.13	3.76	5.61	6.53	7.84	9.43	1.71	2.69	3.31	4.73	5.65	6.62	8.06			
	Medium	kW	1.72	2.74	2.81	4.73	5.62	6.78	8.08	1.54	2.41	2.83	4.13	5.03	5.91	7.10			
	Low	kW	1.02	1.70	1.93	2.85	3.75	4.49	5.30	0.90	1.51	1.79	2.53	3.45	4.04	4.77			
Power input	Super high	kW	0.046	0.069	0.083	0.119	0.163	0.181	0.230	0.046	0.069	0.083	0.119	0.163	0.181	0.230			
	High	kW	0.039	0.054	0.059	0.093	0.128	0.145	0.180	0.039	0.054	0.059	0.093	0.128	0.145	0.180			
	Medium	kW	0.03	0.05	0.07	0.11	0.12	0.15	0.03	0.05	0.07	0.11	0.12	0.15					
	Low	kW	0.03	0.04	0.06	0.09	0.10	0.12	0.03	0.04	0.06	0.09	0.10	0.12					
Dimensions	Unit	HeightxWidthxDepth	mm	253x590 x705	253x590 x875	253x590 x1,010	253x590 x1,210	253x590 x1,460	253x590 x1,560	253x590 x1,820	253x590 x705	253x590 x875	253x590 x1,010	253x590 x1,210	253x590 x1,460	253x590 x1,560	253x590 x1,820		
Weight	Unit	kg	17.0	20.2	23.7	28.4	36.7	39.1	45.5	18.1	21.6	25.3	30.1	39.7	41.4	48.9			
Operation weight	kg	17	20	24	28	37	39	46	18	22	25	30	40	41	49				
Casing	Colour			Metal															
Air filter	Type			Aluminium Frame PP Filter Net G2 Class															
Fan	Type			Centrifugal (Blade: Forward - curve)															
	Quantity			1	2	3	4	1	2	3	4								
Air flow rate	Super high	m³/h	430	638	910	1,195	1,559	1,753	2,177	416	626	835	1,193	1,548	1,742	2,166			
	High	m³/h	311	518	619	926	1,188	1,413	1,735	302	501	571	905	1,173	1,386	1,729			
	Medium	m³/h	238	385	413	630	851	1,016	1,202	232	371	377	618	846	1,001	1,199			
	Low	m³/h	150	256	284	426	569	688	808	142	256	257	414	569	684	804			
Total sound power level	Super high	dBA	51	61	58	62	64	65	51	61	58	62	64	65					
	High	dBA	49	56	50	55	57	58	60	49	56	50	55	57	58	60			
	Medium	dBA	37	49	40	48	47	50	37	49	40	48	47	50					
	Low	dBA	31	38	32	39	38	41	40	31	38	32	39	38	41	40			
Sound pressure level	Super high	dBA	41	51	48	52	54	55	41	51	48	52	54	55					
	High	dBA	39	46	38	45	47	48	49	39	46	38	45	47	48	49			
	Medium	dBA	26	39	28	36	37	40	39	26	39	28	36	37	40	39			
	Low	dBA	21	28	22	29	27	31	29	21	28	22	29	27	31	29			
Water flow	Cooling	Super high	l/h	254	382	526	768	886	1,023	1,229	246	374	478	767	879	918	1,223		
	High	l/h	212	331	404	668	733	899	1,050	206	320	373	653	724	800	1,046			
	Medium	l/h	191	294	343	559	631	784	870	188	284	313	547	628	705	866			
	Low	l/h	115	184	209	327	388	497	565	109	184	193	319	388	459	563			
	Heating	Super high	l/h	449	692	899	1,216	1,562	1,757	2,085	334	515	658	881	1,153	1,243	1,501		
	High	l/h	370	592	707	1,051	1,279	1,531	1,773	280	445	540	764	970	1,094	1,318			
	Medium	l/h	326	518	593	821	970	1,172	1,520	253	398	460	664	861	974	1,156			
	Low	l/h	192	322	364	530	650	780	995	148	250	290	406	589	665	773			
Piping connections	Drain OD	mm		R 3/4"															
Power supply	Phase/Frequency/Voltage	Hz/V		1~/50/220-240															
Current input	Super high	A	0.21	0.31	0.37	0.53	0.73	0.81	1.03	0.21	0.31	0.37	0.53	0.73	0.81	1.03			
	High	A	0.17	0.24	0.26	0.43	0.58	0.65	0.78	0.17	0.24	0.26	0.43	0.58	0.65	0.78			
	Medium	A	0.15	0.21	0.22	0.33	0.47	0.52	0.65	0.15	0.21	0.22	0.33	0.47	0.52	0.65			
	Low	A	0.13	0.18	0.19	0.27	0.40	0.46	0.54	0.13	0.18	0.19	0.27	0.40	0.46	0.54			

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 décor: only the suction and discharge grills are visible
- › Up to 50% 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



FWP-AT

FWEC3A

FWECSA

› More information
about FWP-AT



Indoor unit			FWP-AT	02	03	04	05	06	07			
Cooling capacity (standard conditions)	Total capacity	High	kW	2.38	2.88	3.19	4.58	4.85	5.80			
	Low		kW	1.35	1.51	1.69	2.23	2.58	2.86			
	Sensible capacity	High	kW	1.71	1.96	2.13	3.23	3.44	3.93			
	Low		kW	0.95	1.03	1.11	1.62	1.79	1.92			
	Latent capacity	High	kW	0.67	0.92	1.06	1.35	1.41	1.87			
Heating capacity (standard conditions)	High		kW	2.54	2.80	3.00	4.71	5.15	5.56			
	Low		kW	1.40	1.48	1.53	2.46	2.59	2.74			
Power input	High		kW	0.046			0.076					
	Low		kW	0.01			0.02					
FCEER									A			
FCCOP									A			
Dimensions	Unit	HeightxWidthxDepth	mm	551x1,040x239			551x1,390x239					
Weight	Unit		kg	26.0	27.0	29.0	35.0	37.0	39.0			
Heat exchanger	Water volume		l	1		2		3				
Air filter	Type	Acrylic fiber - Filtering class G2 (G3 on request)										
Fan	Type	Centrifugal										
	Quantity											
	Air flow rate High		m³/h	371				722				
	Low		m³/h	184			283		331			
Total sound power level	High		dBA		58			60				
	Low		dBA	36		38		39				
Sound pressure level	High		dBA		53			55				
	Low		dBA	31		33		34				
Water flow	Cooling	High	l/h	418	502	555	799	847	1,009			
		Flow	l/h	219	256	283	318	400	465			
	Heating	High	l/h	442	486	521	819	898	969			
		Low	l/h	242	256	265	372	448	469			
Electric heater	Power input		kW	2.0			2.5					
Piping connections	Drain	OD	mm	17								
Power supply	Phase/Frequency		Hz	1~/50								

Concealed ceiling unit with medium ESP

AC fan motor unit for horizontal concealed mounting

- › Compact dimensions, can easily be mounted in a narrow ceiling void (unit height: 240mm)
- › 3, 4 or 6 stage row cooling coil
- › Drain pan to collect the condensate from: heat exchanger and regulating valves
- › 7-speed electrical motors (with thermal protection on windings)
- › All 7 speeds pre-wired in the factory in the terminal block of the switch box
- › The air filter can easily be removed for cleaning



› More information about FWB-BT



Indoor unit			FWB-BT	02	03	04	05	06	07	08	09	10							
				2-pipe															
Cooling capacity (standard conditions)	Total capacity	High kW	2.32	2.82	3.13	4.47	4.74	5.69	5.70	6.48	7.65								
	Low kW	1.33	1.49	1.67	2.17	2.52	2.80	3.83	4.26	4.94									
	Sensible capacity	High kW	1.65	1.90	2.07	3.12	3.33	3.82	3.90	4.39	5.02								
	Low kW	0.93	1.01	1.09	1.56	1.73	1.86	2.67	2.92	3.25									
Heating capacity (standard conditions)	Latent capacity	High kW	0.67	0.92	1.06	1.35	1.41	1.87	1.80	2.09	2.63								
	High kW	2.54	2.80	3.00	4.70	5.15	5.56	5.95	6.57	7.18									
	Low kW	1.39	1.48	1.53	2.14	2.81	2.71	4.11	4.42	4.69									
	Power input	High kW	0.106				0.192			0.294									
			Low kW	0.03			0.08			0.16									
FCEER				D	C				D										
FCCOP					C		D	C		D									
Dimensions	Unit	HeightxWidthxDepth mm		551x1,040x239			551x1,390x239			551x1,740x239									
Weight	Unit	kg	26.0	27.0	29.0	35.0	37.0	39.0	47.0	49.0	53.0								
Heat exchanger	Water volume l		1	2			3	2	3	4									
Air filter	Type		Acrylic fiber - Filtering class G2 (G3 on request)																
Fan	Type		Centrifugal																
	Quantity		1			2			3										
	Air flow rate	High m³/h	371			722			905										
			Low m³/h			184			572										
Total sound power level	High	dBA	58			60			69										
	Low	dBA	36			38			53										
Sound pressure level	High	dBA	53			55			64										
	Low	dBA	31			33			48										
Water flow	Cooling	High l/h	418	502	555	799	847	1,009	1,028	1,162	1,363								
		Low l/h	219	256	283	318	400	465	683	758	874								
	Heating	High l/h	442	486	521	819	898	969	1,040	1,148	1,256								
		Low l/h	242	256	265	372	448	469	714	768	815								
Electric heater	Power input	kW	2.0			2.5			3.0										
Piping connections	Drain OD	mm	17																
Power supply	Phase/Frequency	Hz	1-/50																

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



› More information about FWN-AT



› More information about 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		
	Latent capacity	High kW	0.82	1.09	1.54	1.61	1.28	1.66	0.81	1.08	1.52	1.58	1.27	1.64	
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		
FCEER			C	B			C		B			C			
FCCOP			B	A			C		B			C			
Dimensions	Unit	HeightxWidthxDepth 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	
Heat exchanger	Water volume	l	1		2		3	1		2		1		3	
Additional heat exchanger	Water volume	l			-										
Air filter	Type														
Fan	Type														
	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		69		72		66		69		72		
	Medium dBA		61		63		67		61		63		67		
	Low dBA		54		59	61		62		54		59	61	62	
Sound pressure level	High dBA		61		64		67		61		64		67		
	Medium dBA		56		58		62		56		58		62		
	Low dBA		49		54	56	57		49		54	56	57		
Water flow	Cooling	High l/h	671	817	1,059	1,169	1,344	1,501	666	810	1,040	1,148	1,322	1,476	
	Medium l/h		607	732	990	1,093	1,202	1,336	602	727	978	1,079	1,187	1,319	
	Low l/h		493	587	915	1,008	1,085	1,197	491	584	904	998	1,075	1,185	
	Heating	High l/h	705	840	1,114	1,259	1,369	1,551	342	340	501	496	700	695	
	Medium l/h		641	758	1,048	1,183	1,236	1,397	322	320	483	477	654	651	
	Low l/h		529	617	972	1,094	1,124	1,264		283	460	456	614	612	
Electric heater	Power input 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				

Concealed ceiling unit with high ESP

AC fan motor unit for horizontal 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



› More information about FWD-AT



› More information about 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	
Latent capacity	High	kW	0.82	1.54	1.28	1.65	2.63	3.71	4.25	0.82	1.52	1.27	1.64	2.60	3.70	4.25	
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	1.300				
	Medium	kW	0.19	0.39	0.38	0.54	1.09	0.19	0.39	0.38	0.54	0.54	0.54				
	Low	kW	0.14	0.35	0.29	0.37	0.87	0.14	0.35	0.29	0.37	0.37	0.37				
FCEER				E						D						D	E
FCCOP				D	E						D	E	D				E
Dimensions	Unit	HeightxWidthxDepth	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	
Heat exchanger	Water volume	l	1	2		3	5	6	1	2	3	5	6				
Additional heat exchanger	Water volume	l			-					1		2					
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	69	72	74	78	66	69	72	74	78					
	Medium	dBA	61	63	67		73	61	64	67		73					
Sound pressure level	High	dBA	54	59	62	60	69	54	61	62	60	69					
	Medium	dBA	56	58	62		68	56	59	62		68					
	Low	dBA	49	54	57	55	64	49	56	57	55	64					
Water flow	Cooling	High	l/h	671	1,059	1,344	1,501	2,163	2,953	3,270	666	1,040	1,322	1,476	2,130	2,940	3,254
		Medium	l/h	607	990	1,202	1,336	1,827	2,561	2,823	602	978	1,187	1,319	1,808	2,550	2,811
		Low	l/h	493	915	1,085	1,197	1,509	2,145	2,365	491	904	1,075	1,185	1,493	2,138	2,358
	Heating	High	l/h	705	1,114	1,369	1,551	2,209	3,008	3,311	342	501	700	695	1,264	1,690	1,680
		Medium	l/h	641	1,048	1,236	1,397	1,884	2,617	2,852	322	483	654	651	1,105	1,503	1,490
		Low	l/h	529	972	1,124	1,264	1,573	2,203	2,389	283	460	614	612	950	1,302	1,295
Electric heater	Power input		kW	2.0	6.0	9.0		12.0	2.0	6.0	9.0						
Piping connections	Drain	OD	mm									17					
Power supply	Phase/Frequency/Voltage		Hz/V									1~/50/230					

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)



FWT-CT

MERCA

SRC-HPA

WRC-HPC

› More information
about FWF-CT



Indoor unit			FWT-CT	02	03	04	05	06
				2-pipe				
Cooling capacity (standard conditions)	Total capacity	High kW	2.40	2.67	3.27	4.49	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	
	Latent capacity	High kW	0.58	0.68	0.67	1.11	1.18	
	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			
FCCOP								
Dimensions	Unit	HeightxWidthxDepth mm		288x800x206		310x1,070x224		
Weight	Unit	kg		9.00		14.0		
	Operation weight	kg		10		15		
Casing	Colour			White				
Heat exchanger	Water volume	l		1				
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	48		55	59	
	Medium dBA		41	44	50	51	54	
	Low dBA		36	39	45	47	51	
Sound pressure level	High dBA		34	35		42	46	
	Medium dBA		29	30	39	38	42	
	Low dBA			25	32	34	39	
Water flow	Cooling	High l/h	420	460	570	780	910	
		Medium l/h	420	460	570	780	910	
		Low l/h	420	460	570	780	910	
	Heating	High l/h	420	460	570	780	910	
		Medium l/h	420	460	570	780	910	
		Low l/h	420	460	570	780	910	
Piping connections	Drain OD mm				19			
Power supply	Phase/Frequency/Voltage Hz/V				1N~50/220-240			
Current input	High A		0.19	0.20	0.21	0.29	0.34	
	Medium A		0.18		0.20	0.26	0.32	
	Low A		0.17		0.19	0.25	0.31	

Options & accessories - Fan coil units

INDOOR UNITS		FWG-AT/AF	FWC-BT/BF	FWF-BT/BF	FWF-CT	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF
Panels	Decoration panel 600x600 (2-pipe)			BYFQ60B3	DCP600TC ⁽¹⁾			
	Decoration panel 900x900 (2-pipe)	DCP900BTA ⁽¹⁾	BYCQ140C					
	Decoration panel 900x900 (4-pipe)	DCP900BFA ⁽¹⁾	BYCQ140C					
	Panel spacer for reducing required installation height		KDBQ44B60					
	Sealing member of air discharge outlet		KDBHQ55C140	KDBH44BA60				
	Rear panel				ERPV02A6 (2 class) ERPV03A6 (3 class) ERPV06A6 (6 class) ERPV10A6 (8 class)	ERPV02A6 (1, 15 & 2 class) ERPV03A6 (25 & 3 class) ERPV06A6 (35, 4 & 6 class) ERPV10A6 (8 & 10 class)	ERPV02A6 (2 class) ERPV03A6 (3 class) ERPV06A6 (6 class) ERPV10A6 (8 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)	
Individual control systems & network	Wired remote controller (standard)	BRC51A61	BRC315D	BRC315D	MERCA		FWEC1A	
	Wired remote controller (advanced)						FWEC2A	
	Wired remote controller (Advanced Plus)					FWEC3A	FWEC3A	FWEC3A
	Wired remote controller (heat pump)				SRC-HPA			
	Wireless controller (heat pump)		BRC7F530	BRC7F532F				
	Controller electromechanical						ECFWMB6	
	Split controller - power control board					FWECSAP	FWECSAP	FWECSAP
	Split controller - control panel					FWECSAC	FWECSAC	FWECSAC
	On-board mounting kit					FWECKA	FWECKA	FWECKA
	Wall-mounting kit					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

FWL-DAT/DAF	FWS-AT/AF	FWM-DAT/DAF	FWE-CT/CF	FWP-AT	FWB-BT	FWD-AT/AF	FWN-AT/AF	FWT-CT
ERPV02A6 (1,15 & 2 class) ERPV03A6 (25 & 3 class) ERPV06A6 (35, 4 & 6 class) ERPV10A6 (8 & 10 class)	ERPV02A6 (2 class) ERPV03A6 (3 class) ERPV06A6 (6 class) ERPV10A6 (8 class)	ERPV02A6 (1,15 & 2 class) ERPV03A6 (25 & 3 class) ERPV06A6 (35,4 & 6 class) ERPV10A6 (8&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)						
FWEC1A		FWEC1A	FWEC1A		FWEC1A	FWEC1A	FWEC1A	MERCA
FWEC2A		FWEC2A	FWEC2A		FWEC2A	FWEC2A	FWEC2A	
FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	
								SRC-HPA
								WRC-HPC
ECFWMB6		ECFWMB6						
FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	
FWECSAC	FWECSAC	FWECSAC	FWECSAC	FWECSAC	FWECSAC	FWECSAC	FWECSAC	
FWECKA	FWECKA	FWECKA						
FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	FWFCKA	

Options & accessories - Fan coil units

INDOOR UNITS		FWG-AT/AF	FWC-BT/BF	FWF-BT/BF	FWF-CT	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF
Filters	Long-life filter		KAFP551K160	KAFQ441BA60				
	3-ways 230V ON/OFF valve kit (2-pipe)	VKFWGA012T3V (5 & 8 class) VKFWGA022T3V (11 class)	EKMV3C09B	EKMV3C09B	MCKCW2T3VN	E2MV03A6 (2, 3 & 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)
	3-ways 230V ON/OFF valve kit (4-pipe)	VKFWGA014T3V (5 & 8 class) VKFWGA024T3V (11 class)	EKMV3C09B x2	EKMV3C09B x2		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)
	2-ways 230V ON/OFF valve kit (2-pipe)		EKMV2C09B	EKMV2C09B				
	2-ways 230V ON/OFF valve kit (4-pipe)		EKMV2C09B x2	EKMV2C09B x2				
	2-ways 230V ON/OFF valve kit (cooling heat exchanger)					E2MV2B07A6 (2 up to 6 class) E2MV2B10A6 (8 class)	E2MV2B07A6 (1 up to 6 class) E2MV2B10A6 (8 & 10 class)	E2MV2B07A6 (2 up to 6 class) E2MV2B10A6 (8 class)
	2-ways 230V ON/OFF valve kit (additional heat exchanger)					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)
	Simplified 3-ways 230V ON/OFF valve kit (4-pipe)					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)	E4MVD03A6 (2 & 3 class) E4MVD06A6 (4 & 6 class) E4MVD10A6 (8 & 10 class)
ON/OFF valves 230V	3-ways 24V ON/OFF valve kit (2-pipe)					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)
	3-ways 24V ON/OFF valve kit (4-pipe)					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)
	2-ways 24V ON/OFF valve kit (cooling heat exchanger)					E2M2V207A6 (2, 3 & 6 class) E2M2V210A6 (8 class)	E2M2V207A6 (1 up to 35 class) E2M2V210A6 (8 & 10 class)	E2M2V207A6 (2, 3 & 6 class) E2M2V210A6 (8 class)
	2-ways 24V ON/OFF valve kit (additional heat exchanger)					E2M2V207A6	E2M2V207A6	E2M2V207A6
Proportional valves	3-ways proportional valve kit (2-pipe)						E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)	
	3-ways proportional valve kit (4-pipe)						E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)	
	2-ways proportional valve kit (cooling heat exchanger)						E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)	
	2-ways proportional valve kit (additional heat exchanger)						E2MPV207A6	

FWL-DAT/DAF	FWS-AT/AF	FWM-DAT/DAF	FWE-CT/CF	FWP-AT	FWB-BT	FWD-AT/AF	FWN-AT/AF	FWT-CT
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)	EK2MV3B10C5	E2MV107A6	E2MV107A6	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 (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)	EK2MV3B10C5			ED4MV04A6 (4 class) ED4MV10A6 (6, 8 & 10 class) ED4MV12A6 x 2 (12 class) ED4MV18A6 x 2 (16 & 18 class)	ED4MV04A6 (4 & 5 class) ED4MV10A6 (6 up 10 class)	
			EK2MV2B10C5					
			EK4MV2B10C5					
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)			E2MV207A6 (2 up to 7 class) E2MV210A6 (8 & 10 class)			
E2MV2B07A6	E2MV2B07A6	E2MV2B07A6		E2MV207A6	E2MV207A0 (2 up to 7 class) E2MV210A6 (8 & 10 class)			
				E2MV307A6	E2MV307A6			
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)						
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)						
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)						
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)						
E2M2V207A6 (1 up to 35 class) E2M2V210A6 (8 & 10 class)	E2M2V207A6 (2,3 & 6 class) E2M2V210A6 (8 class)	E2M2V207A6 (1 up to 35 class) E2M2V210A6 (8 & 10 class)						
E2M2V207A6	E2M2V207A6	E2M2V207A6						
E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)		E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)						
E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)		E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)						
E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)		E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)						
E2MPV207A6		E2MPV207A6						

Options & accessories - Fan coil units

INDOOR UNITS	FWG-AT/AF	FWC-BT/BF	FWF-BT/BF	FWF-CT	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF
Adapters	Installation box/Mounting plate for adapter PCBs (when there is no space in the switchbox)		KRP1H98	KRP1BA101			
	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 PDB		EKRP1C11				
	Temperature sensor kit				FWTSKA	FWTSKA	FWTSKA
	Relative humidity sensor kit				FWHSKA	FWHSKA	FWHSKA
	Fan stop thermostat					YFSTA6	
	Master-slave interface					EPIMSA6	
	Power interface						
Others	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)	EFA02A6 (2 class) EFA03A6 (3 class) EFA06A6 (6 class) EFA10A6 (8 class)
	Electrical box with earth terminal (2 blocks)		KJB212A	KJB212A			
	Electrical box with earth terminal (3 blocks)		KJB311A	KJB311A			
	Electrical 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)
	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)
	Supporting feet				ESFV06A6 (2, 3 and 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)	ESFV06A6 (2, 3 and 6 class) ESFV10A6 (8 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)	ESFVG02A6 (2 class) ESFVG03A6 (3 class) ESFVG06A6 (6 class) ESFVG10A6 (8 class)
	Plenum box with circular connections						
	Vertical auxiliary drain pan					EDPVB6	EDPVB6
	Horizontal auxiliary drain pan					EDPHB6	EDPHB6
	Drain pump	included	included	included	included	CDRP1A	CDRP1A (only vertical installation)

2. Requires KRP1H98

FWL-DAT/DAF	FWS-AT/AF	FWM-DAT/DAF	FWE-CT/CF	FWP-AT	FWB-BT	FWD-AT/AF	FWN-AT/AF	FWT-CT
FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA		FWTSKA	
FWHSSKA	FWHSSKA	FWHSSKA	FWHSSKA	FWHSSKA	FWHSSKA	FWHSSKA	FWHSSKA	
YFSTA6		YFSTA6			YFSTA6	YFSTA6	YFSTA6	
EPIMSA6		EPIMSA6	EPIMSA6		EPIMSA6	EPIMSA6	EPIMSA6	
					EPIB6 (only 12, 16 & 18 class)			
EFA02A6 (1, 15 & 2 class) EFA03A6 (25 & 3 class) EFA06A6 (35, 4 & 6 class) EFA10A6 (8 & 10 class)	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)			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)		
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)		Factory mounted	Factory mounted	EDEH04A6 (4 class) EDEHS06A6 (6 class) EDEHS10A6 (8 & 10 class) EDEHS12A6 (12 class) EDEHS18A6 (16 & 18 class)	EDEH04A6 (4 & 5 class) EDEHS06A6 (6 & 7 class) EDEHS10A6 (8 & 10 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)		EAH04A6 (2-4 class) EAH07A6 (5-7 class) EAH10A6 (8-10 class)	EAH04A6 (2-4 class) EAH07A6 (5-7 class) EAH10A6 (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)	
ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)	ESFV06A6 (2, 3 & 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)						
ESFVG02A6 (1, 15 & 2 class) ESFVG03A6 (25 & 3 class) ESFVG06A6 (35, 4 & 6 class) ESFVG10A6 (8 & 10 class)	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)						
	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)						
EDPV8B6	EDPV8B6	EDPV8B6				EDDPV10A6 (4, 6, 8, 10 class) EDDPV18A6 (12, 16 & 18 class)	EDDPV10A6	
EDPHB6	EDPHB6	EDPHB6				EDDPH10A6 (4, 6, 8, 10 class) EDDPH18A6 (12, 16 & 18 class)	EDDPH10A6	
CDRP1A (only vertical installation)	CDRP1A	CDRP1A		CDRP1A	CDRP1A	CDRP1A	CDRP1A	



Daikin air handling units, with their plug-and-play design and inherent flexibility, can be configured and combined specifically to meet the exact requirements of any building, no matter what it is used for or who is to work there. Our systems are designed to be the most environmentally friendly and the most energy efficient on the market, thus reducing their ecological impact, while, at the same time, keeping costs down through the minimisation of energy consumption. When combined with the small physical footprint of the system, these features make our air handling units ideal for all markets.

Table of content

Air handling units

Why choose Daikin air handling units?	160
Products overview	164
Software and Eurovent certification	165
The working principle at a glance	166
D-AHU Professional	168
D-AHU Modular R	169
NEW D-AHU Modular P	170
NEW D-AHU Modular L	171
UNIQUE Daikin fresh air package	172
Options	<u>173</u>



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

Benefits for the installer

- › Simple precise commissioning through pre-programmed DDC controller
- › Reduced installation time thanks to internal electrical wiring and external terminal connections avoiding drilling into unit panels
- › Flush mounted electrical control panel avoiding risk of damage during transport and installation

Benefits for the consultant

- › Quick selection tool - in-house developed web software with improved user interface allowing for a professional report in a few clicks
- › Unlimited configuration options

Benefits for the end user

- › Energy efficient controls, allowing the user to determine a wide range of settings, resulting in excellent operational flexibility
- › Safe operation - fully integrated electrical panel for units taller than 80cm
- › Amazing tailor made capability to meet the specific customer needs

Marketing tools

- › Watch the time-lapse video of a Daikin AHU construction on www.youtube.com/daikeurope
- › Download our brochure on air handling units from my.daikin.eu
- › Follow the wizard and select or modify your Modular or Professional AHU in a few clicks!



Packaged control solution for Daikin AHU

- › Electrical control panel complete with Direct Digital Control (DDC) controller
- › Internal fitting of all sensors and pressure measurement devices
- › Built-in temperature, humidity and CO₂ sensors
- › Internal electrical wiring for all components

Energy efficient while focusing on maximum comfort

- › Set points can be specified for supply, return or room temperature
- › Precise control of all AHU components such as mixing dampers, heat recovery wheels, water valves, pressure switches for filters and fans, fan motors and inverters

Plug and play design

- › Low voltage fast connectors in between AHU sections

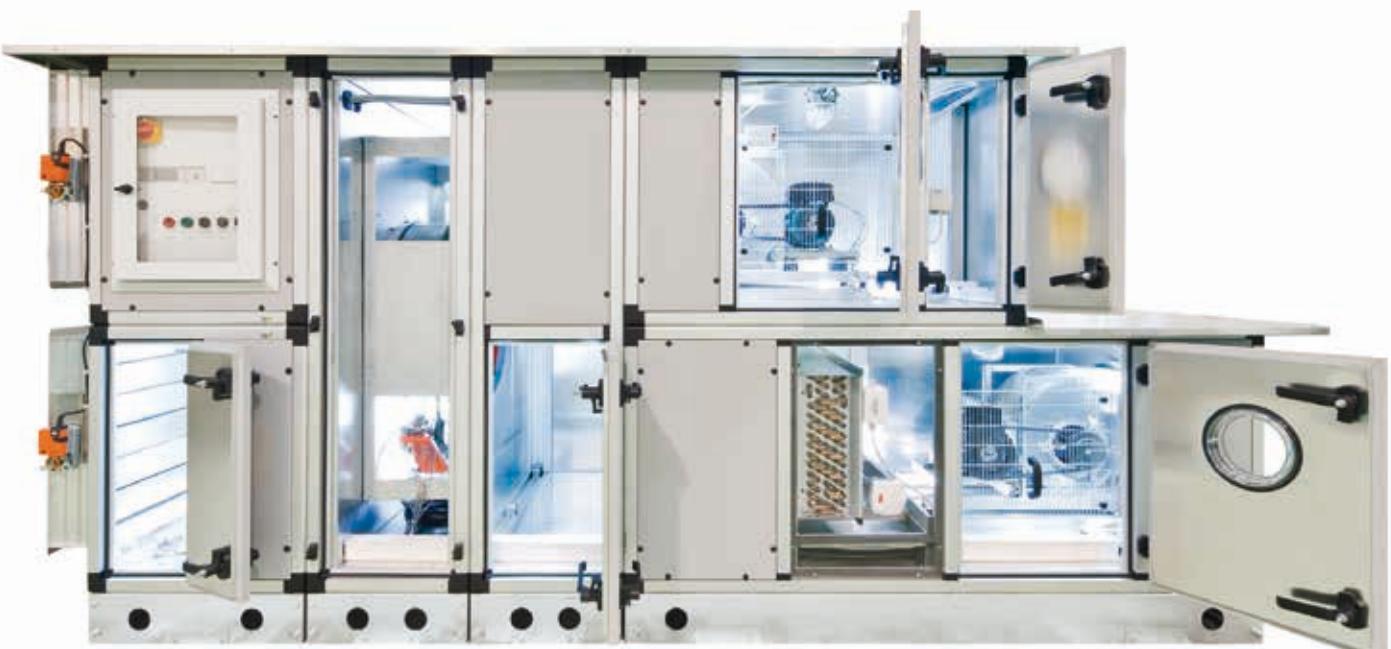
Easy start-up and commissioning

- › Pre-programmed and factory-tested controls ensuring all wiring is installed correctly
- › Reduced energy and operating costs

Daikin Fresh air package

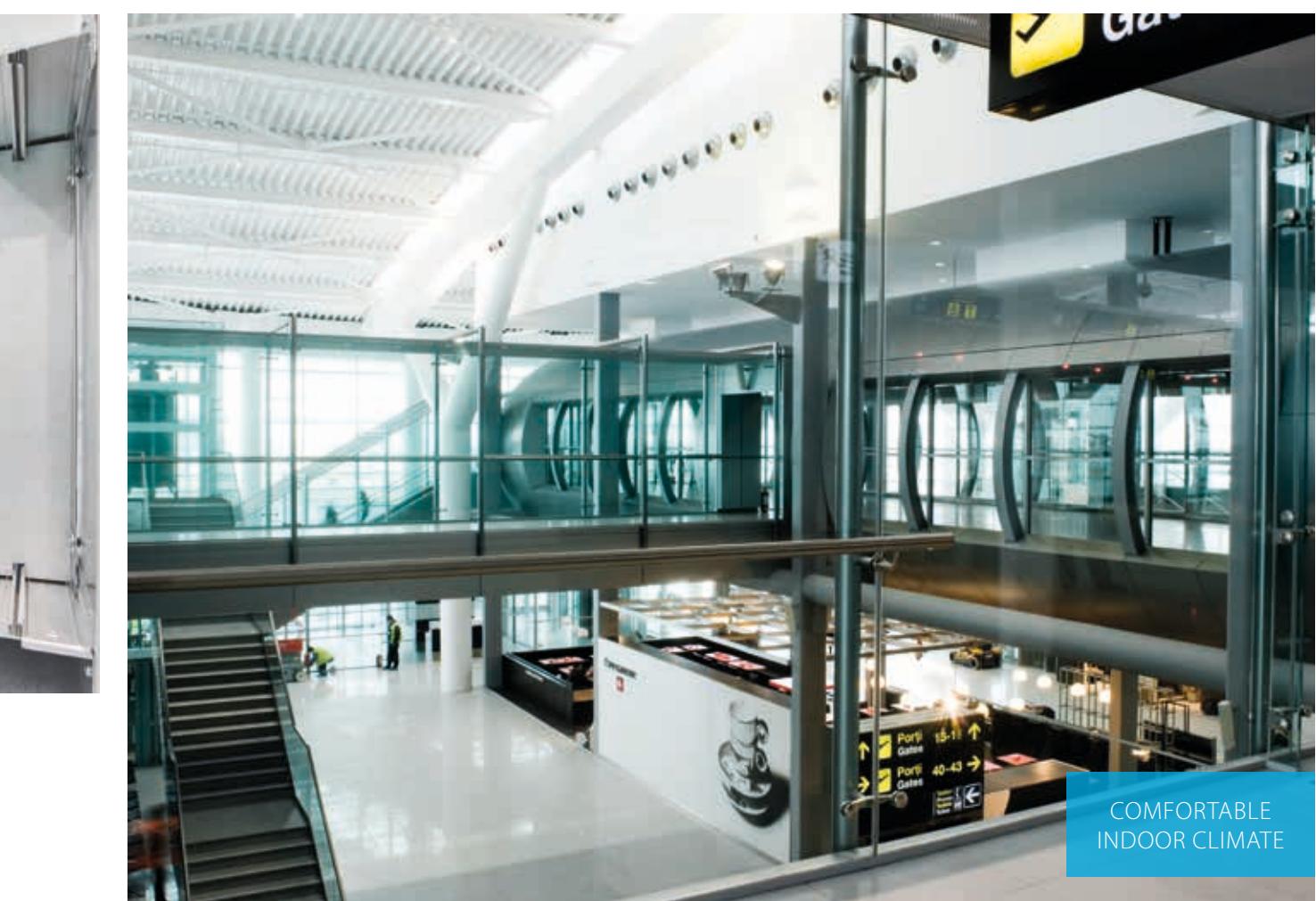


- › Plug and play connection of Professional or Modular R AHU to Daikin VRV and ERQ
- › Factory mounted package contains a.o. expansion valve, electronic interface and sensors
- › Ensuring high efficiency and comfort



Air handling units

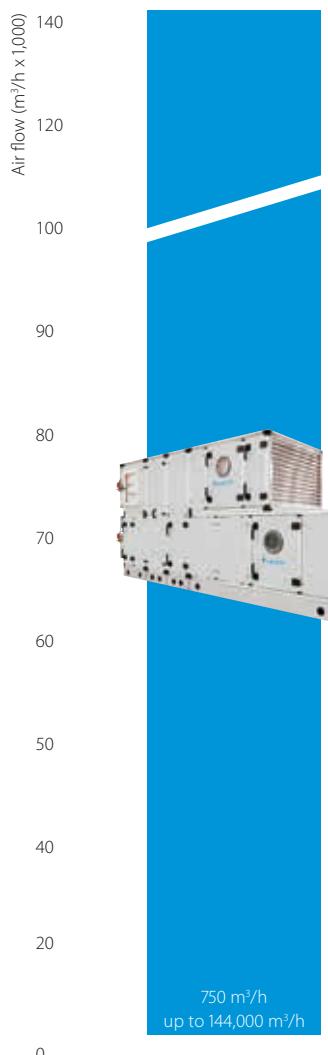




Products overview



D-AHU Professional



Professional

- › Pre-configured sizes
- › Tailored to the individual customer
- › Modular construction

Modular R

- › Pre-configured sizes
- › Plug and play concept
- › EC fan technology
- › Heat recovery wheel (sorption and sensible technology)
- › Compact design

Modular P

- › Pre-configured sizes
- › Plug and play concept
- › EC Fan technology
- › High efficiency aluminium counter flow plate heat exchanger
- › Compact design

Modular L

- › Pre-configured sizes
- › Plug and play concept
- › EC Fan technology
- › High efficiency aluminium counter flow plate heat exchanger
- › Low height unit
- › For false ceiling applications



D-AHU
Modular R

500 m^3/h
up to 25,000 m^3/h

D-AHU
Modular P

500 m^3/h
up to 15,000 m^3/h

D-AHU
Modular L

150 m^3/h
up to 3,450 m^3/h

Selection software

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.

Quickly select your air handling unit by following the wizard:

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

You will get immediately your 3D result and it's ready to customize!

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 and psychrometric chart can be generated. These final reports can be downloaded in different formats.



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](http://www.certiflash.com)



Result sp65		Eurovent Classification according to EN1886				
D1	Casing strength class	D1	D2	D3		
	Max. relative deflection mm x m ⁻¹	4.00	10.00	EXCEEDING 10		
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 class	L1	L2	L3		
	Max. leakage rate (f_{700}) l x s ⁻¹ x m ⁻²	0.22	0.63	1.90		
F9	Filter bypass leakage class	F9	F8	F7	F6	G1 TO F5
	Max. filter bypass leakage rate k in % of the volume flow rate	0.50	1	2	4	6
T2	Thermal transmittance (U) W/m ² x K	T1 U <= 0.5	T2 0.5 < U <= 1	T3 1 < U <= 1.4	T4 1.4 < U <= 2	T5 No requirements
TB2	Thermal bridging factor (kb) W x m ⁻² x K-1	TB1 0.75 < K _b <= 1	TB2 0.6 < K _b <= 0.75	TB3 0.45 < K _b <= 0.6	TB4 0.3 < K _b <= 0.45	TB5 No requirements

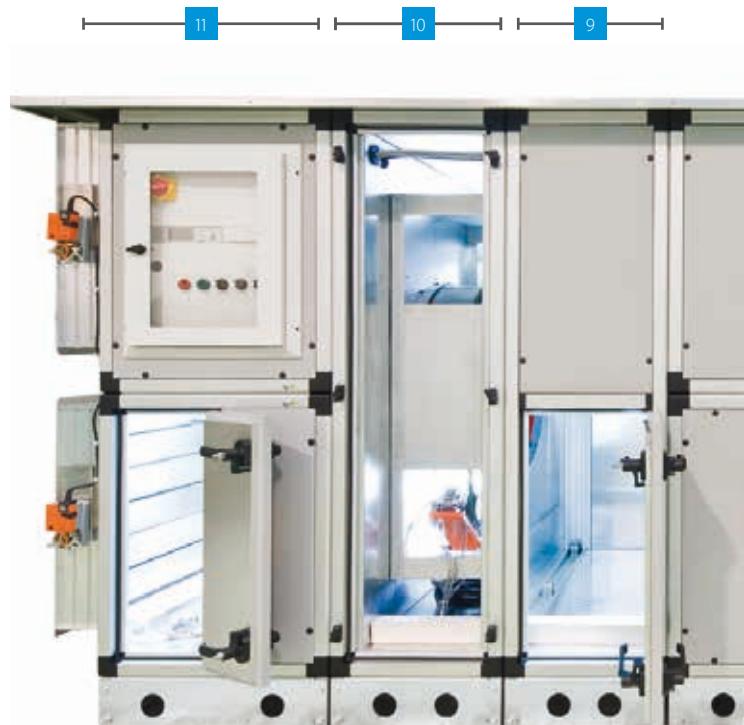
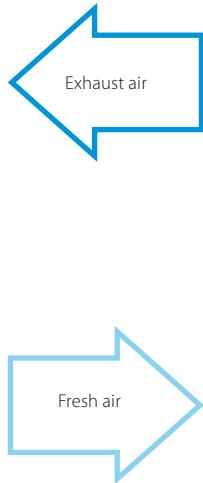
The working principle at a glance

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

- 1 Damper section including ventilation grilles, factory-mounted actuators
- 2 Bag filter with factory-mounted differential pressure manometer and hinged door
- 3 Heat recovery system (plate heat exchanger or rotation heat exchanger)
- 4 Mixing box with damper and factory-mounted actuators
- 5 Section with R-410A direct expansion coil with integrated Daikin expansion valve and drain pan
- 6 Supply air fan (with hinged door, opening, drive monitoring, mounted and cabled lighting and ON/OFF switch)



11 10 9

1 2 3 4

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
- > Air washer without pump (loss water)
- > Air washer with re-circulating pump
- > Steam humidifier with direct steam production
- > Steam humidifier with local distributor
- > Atomized water spray humidifier

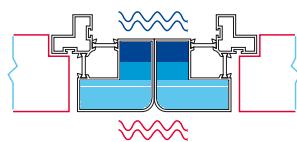
Control system on plug and play solution basis

- › Air temperature control
- › Chilled water and DX cooling system control
- › Free cooling
- › CO₂ automatic control

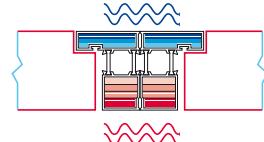
Unique section to section thermal break profile

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

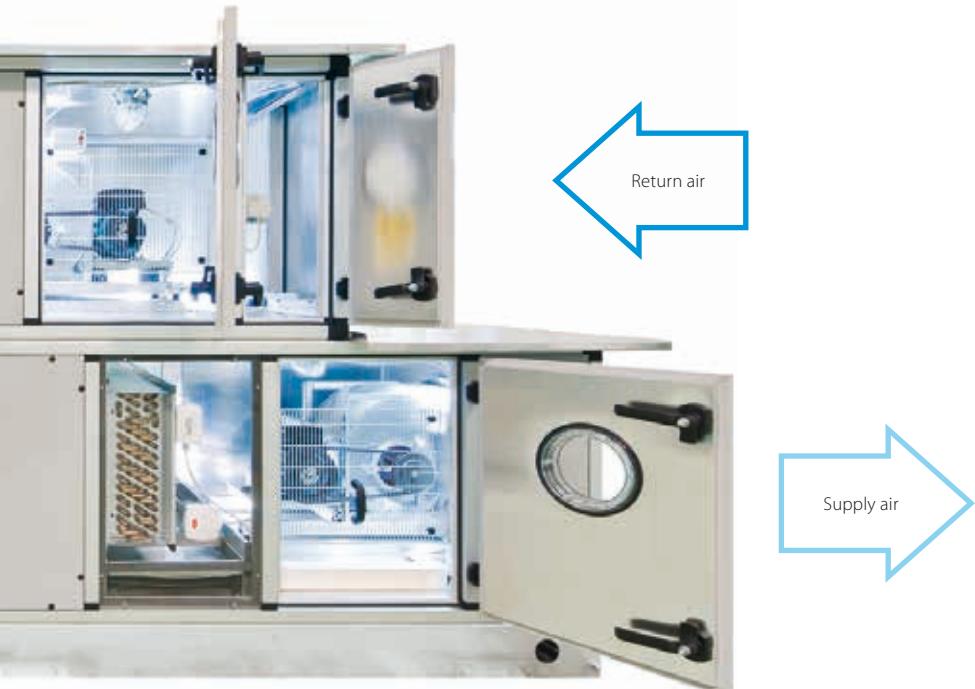
Conventional design



Daikin design



— 8 — 7 —



— 5 — 6 —

Return side

- 7 Bag filter with factory-mounted differential pressure manometer and hinged door.
- 8 Exhaust air fan (with hinged door, opening, drive monitoring, mounted and cabled lighting and ON/OFF switch)
- 9 Mixing box with damper and factory-mounted actuators
- 10 Heat recovery system (plate heat exchanger or rotation exchanger)
- 11 Damper section including ventilation grilles, factory-mounted actuators

Heat recovery systems

- › Heat wheel, sensible or sorption
- › Plate heat exchanger (optional bypass)
- › 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

Flexible design

Daikin Professional air handlers are tailored to your needs, optimizing always the unit for the most cost-effective selection and manufacturing standardization.

- › Air flow from 500 m³/h up to 144,000 m³/h.
- › All the units can be modularly designed to facilitate the transport and the assembly on site.



Variable dimensioning

Size	Airflow (m ³ /h)	Height - mm	Width - mm
1	1,800	640	720
2	2,200	640	810
3	3,500	740	980
4	5,400	840	1,190
5	6,600	840	1,390
6	7,600	940	1,390
7	9,000	1,090	1,380
8	11,000	1,150	1,550
9	14,000	1,270	1,720
10	18,300	1,390	1,970
11	23,800	1,570	2,190

Size	Airflow (m ³ /h)	Height - mm	Width - mm
12	29,800	1,690	2,480
13	33,800	1,870	2,510
14	43,200	1,990	2,940
15	51,000	2,110	3,230
16	63,000	2,290	3,620
17	68,000	2,290	3,890
18	77,000	2,290	4,410
19	87,000	2,410	4,660
20	95,400	2,470	4,960
21	111,200	2,590	5,460
22	127,000	2,650	6,060

- › 1 cm increment for width & height dimensions
- › No additional cost for customized unit size
- › No additional lead time

Example

Airflow (m ³ /h)	Unit Size	Height (mm)	Width (mm)	Face Velocity (m/s)
47,000	Size 15	2,110	3,230	2.27
	1,920x2,720	2,110	2,950	2.5

Plug and play: More control, more flexibility

The plug and play control system allows for more precise control than ever before, allowing the user to determine a wide range of settings, resulting in excellent operational flexibility. The factory-fitted electrical control panel, complete with Direct Digital Control (DDC) is combined with in-built temperature, humidity and CO₂ sensors to control mixing dampers, heat recovery wheels, water valves, pressure switches

for filters and fans, fan motors and inverters. All these components are wired internally and individual AHU modules are linked by fast connectors. The AHU control system can manage the chilled water coil, hot water coil, DX cooling and/or heating coil(s) (in conjunction with ERQ/VRV) of single or multiple refrigerant circuits (up to a maximum of four circuits per DX coil).

Modular R

High-end solution with heat recovery

Energy efficiency and indoor air quality

- › Predefined sizes
- › IE4 premium efficiency motor
- › High efficiency heat wheel (heat recovery)
- › Compact design
- › Advanced control features
- › Easy installation
- › Indoor air quality compliant with VDI 6022 hygiene guideline
- › Operating limits from -25 °C, -40 °C with electric heaters, up to +46 °C ambient temperature
- › VRV IV and ERQ coupling capability
- › Indoor and outdoor versions
- › Free cooling capability
- › Economy and Night mode operation
- › Monitoring and control through Daikin ITM



EC Fan

- › Air flow or pressure control (Variable Air Volume - Constant Air Volume)
- › Nominal air flow programmed at factory
- › Silent operation

Simple, quick installation

The Modular series' Plug and play design is more than just a convenient feature for installers. It offers cost-saving benefits as there is no need for expensive adjustments before the unit is commissioned. Plug and play makes everyone's life simpler, safer and more economical.



D-AHU Modular R		1	2	3	4	5	6	7	8	9	10
Airflow	m ³ /h	1,200	1,700	2,700	4,100	5,500	6,100	7,000	9,100	11,500	15,000
Temp. efficiency winter	%	82.4	82.4	82.4	82.6	82.2	82.4	83	82.6	82.5	82.7
External static pressure	Nom.	Pa	200	200	200	200	200	200	200	200	200
Current	Nom.	A	2.38	3.18	1.65	2.58	3.35	3.86	4.32	5.36	7.15
Power input	Nom.	kW	0.55	0.73	1.14	1.79	2.32	2.68	2.99	3.72	4.95
SFPv		kW/m ³ /s	1.64	1.55	1.52	1.57	1.52	1.58	1.54	1.47	1.55
Electrical supply	Phase	ph	1	1	3 + N	3 + N	3 + N	3 + N	3 + N	3 + N	3 + N
	Frequency	Hz	50	50	50	50	50	50	50	50	50
	Voltage	V	230	230	400	400	400	400	400	400	400
Dimensions unit	Width	mm	720	720	990	1,200	1,400	1,400	1,600	1,940	1,940
	Height	mm	1,320	1,320	1,540	1,740	1,740	1,920	1,920	2,180	2,460
	Length	mm	1,700	1,700	1,800	1,920	2,080	2,280	2,400	2,450	2,280
Weight unit		kg	325	350	475	575	750	790	950	1,330	1,410
											1,750

Modular P

AHU with plate heat exchanger

Highlights

- › 10 Predefined sizes
- › Compliant with VDI 6022
- › Operating limits from -25 C, -40C with electric heaters
- › Plug & Play Controls
- › Monitoring and control through Daikin ITM
- › Easy installation and commissioning



EC Fan

- › Inverter driven with IE4 premium efficiency motor
- › High-efficient blade profiling
- › Reduced energy consumption
- › Optimized SFP (Specific Fan Power) for an efficient unit operation

Heat exchanger

- › Premium quality counter flow plate heat exchanger
- › Up to 93% of the thermal energy recovered
- › No cross contamination

D-AHU Modular P		1	2	3	4	5	6	7	8	9	10
Airflow	m³/h	1,100	1,600	2,400	3,100	3,700	4,750	5,500	8,000	10,400	12,500
Thermal efficiency	%	93.9	93.6	93.2	93.1	93.1	93.1	93.1	93.3	93.1	93.1
External static pressure	Nom.	Pa	200	200	200	200	200	200	200	200	200
Current	Nom.	A	1.75	2.51	1.28	1.67	2.09	2.69	3.04	4.14	5.88
Power input	Nom.	kW	0.40	0.58	0.89	1.15	1.45	1.86	2.11	2.87	4.07
SFPv		kW/m³/s	1.32	1.30	1.33	1.34	1.41	1.41	1.38	1.29	1.41
Electrical supply	Phase	ph	1	1	3 + N	3 + N	3 + N	3 + N	3 + N	3 + N	3 + N
	Frequency	Hz	50	50	50	50	50	50	50	50	50
	Voltage	V	230	230	400	400	400	400	400	400	400
Dimensions unit	Width	mm	720	820	990	1,200	1,400	1,400	1,600	1,940	1,940
	Height	mm	1,320	1,320	1,540	1,740	1,740	1,920	1,920	2,180	2,460
	Length	mm	2,030	2,200	2,610	2,660	2,800	3,210	3,340	3,840	4,060
Weight unit		kg	343	358	512	604	785	852	964	1,449	1,700
2,300											
2,570											
4,190											
2,071											

Modular L

Premium efficiency heat recovery unit

Highlights

- › 6 Predefined sizes
- › Compliant with VDI 6022
- › Exceeding ERP 2018 requirement
- › Plug & Play Controls
- › Best choice when Compactness is needed (only 280 mm height up to 550 m³/h)
- › Easy installation and commissioning



EC centrifugal fan

- › Inverter driven with IE4 premium efficiency motor
- › High-efficient blade profiling
- › Reduced energy consumption
- › Optimized SFP (Specific Fan Power) for an efficient unit operation
- › Maximum ESP available 550 Pa (depending on model sizes and air-flow)

Heat exchanger

- › Premium quality counter flow plate heat exchanger
- › Up to 93% of the thermal energy recovered
- › High grade aluminum allowing high grade corrosion protection

Technical details

D-AHU Modular L			2	3	4	5	6	7
Airflow		m ³ /h	300	600	1200	1500	2500	3000
Heat exchanger thermal efficiency ¹ .		%	93	93	93	92	94	93
External static pressure	Nom.	Pa	100	100	100	100	100	100
Current	Nom.	A	0,52	1,17	1,91	2,48	4,39	5,39
Power input	Nom.	kW	0,12	0,27	0,44	0,57	1,01	1,24
SFPv ² .		kW/m ³ /s	1,24	1,49	1,25	1,31	1,42	1,46
ERP compliant	ErP 2018 Compliant							
Electrical supply	Phase	ph	1	1	1	1	1	1
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
	Voltage	V	220/240 Vac					
Main unit dimensions	Width	mm	920	1100	1600	1600	2000	2000
	Height	mm	280	350	415	415	500	500
	Length	mm	1660	1800	2000	2000	2000	2000
Rectangular duct flange	Width	mm	250	400	500	500	700	700
	Height	mm	150	200	300	300	400	400
Unit Sound Power Level (Lwa)		dB	50	57	57	53	61	58
Unit Sound Pressure Level ³ .		dBA	33	39	39	35	43	40
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. EN 3744. Surrounding, Directivity (Q) = 2, @1,5m distance

Daikin fresh air package



Plug and play connection of AHU to Daikin VRV and ERQ

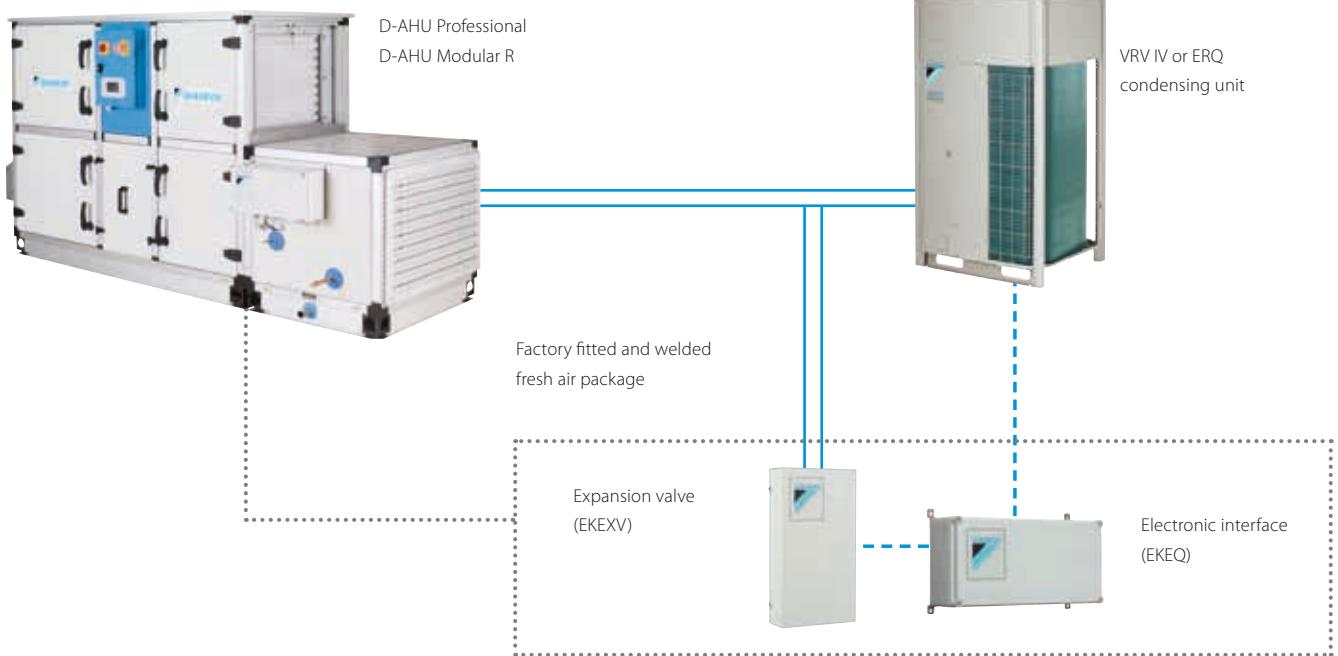
The Daikin fresh air package provides a complete solution, including all unit controls (expansion valve, control box and AHU controller) and sensors factory mounted and configured.

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.



Construction type		SP 65	SP 45
Profile	Anodized aluminium	option	option
	Anodized aluminium with thermal break	option	option
Corner	Glass fibre reinforced nylon	standard	standard
Panel insulation	Polyurethane foam density 40 kg/m ³ thermal conductivity 0.022 W/m*K fire reaction class b-s2, diam. as per EN13501-1	standard	standard
	Mineral wool density 120 kg/m ³ thermal conductivity 0.036 W/m*K (referred to 20°C) fire reaction class A1 as per EN 135011	option	option
	Pre-coated galvanized steel	option	option
External sheet material	Aluzinc	standard	standard
	Galvanized steel	option	option
	Aluminium	option	option
	AISI 304 stainless steel	option	option
Internal sheet material	Pre-coated galvanized steel	option	option
	Aluzinc	standard	standard
	Aluminium	option	option
	AISI 304 stainless steel	option	option
Base frame	Aluminium up to 35,000 m ³ /h	standard	standard
	Galvanized steel from 35,000 m ³ /h	standard	standard
Handle	Glass fibre reinforced nylon	standard	standard
	Compression type	standard	standard
Type	Hinge function type (possibility to remove door)	option	option

Customised regulation and control systems

All Modular air handling systems come with a regulation and control system (with or without connection to a BMS).

The MicroTech III controller is designed to work with most applications. It can thus manage a chilled water system or direct-expansion system while providing management of the heat recovery loop for constant or variable speeds. This allows for precise temperature control based on P.I.D. regulation, and constantly optimises the operating parameters of the air handling unit.

- › LCD display with 164 x 44 pixels.
- › 3-key control panel.
- › Rotating knob control for greater ease of use.
- › Memory for data backups.
- › Alarm relays for general types of incidents.
- › Password-controlled access for configuration changes.
- › Maintenance reports showing all run-time hours and general operating conditions.
- › Alarm log to facilitate the analysis of incidents.

The MicroTech III controller provides the option of controlling the set-points for ambient air temperature, air return and supply air, and the possibility of regulating air quality with the addition of a CO₂ probe. For additional information about these features, please contact your Daikin representative.

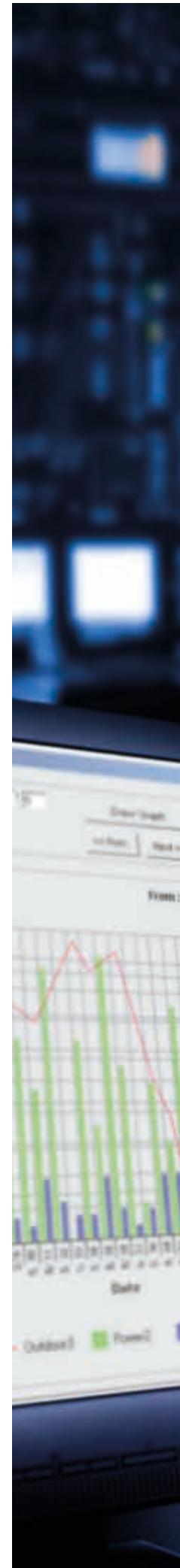


The POL638 standard software has been customised to manage the control signals of Daikin's ERQ and VRV IV systems.

Table of content

Control Systems

Mini building management system	
intelligent touch Manager	176
intelligent chiller Manager	180
Standard protocol interfaces	
Modbus interface	182
BACnet Interface	186
LonWorks Interface	187
Centralised control systems	
NEW Daikin on Site	188





Mini BMS

with full integration across all product pillars

DCM601A51



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



NEW

Download the WAGO
selection tool from
my.daikin.eu

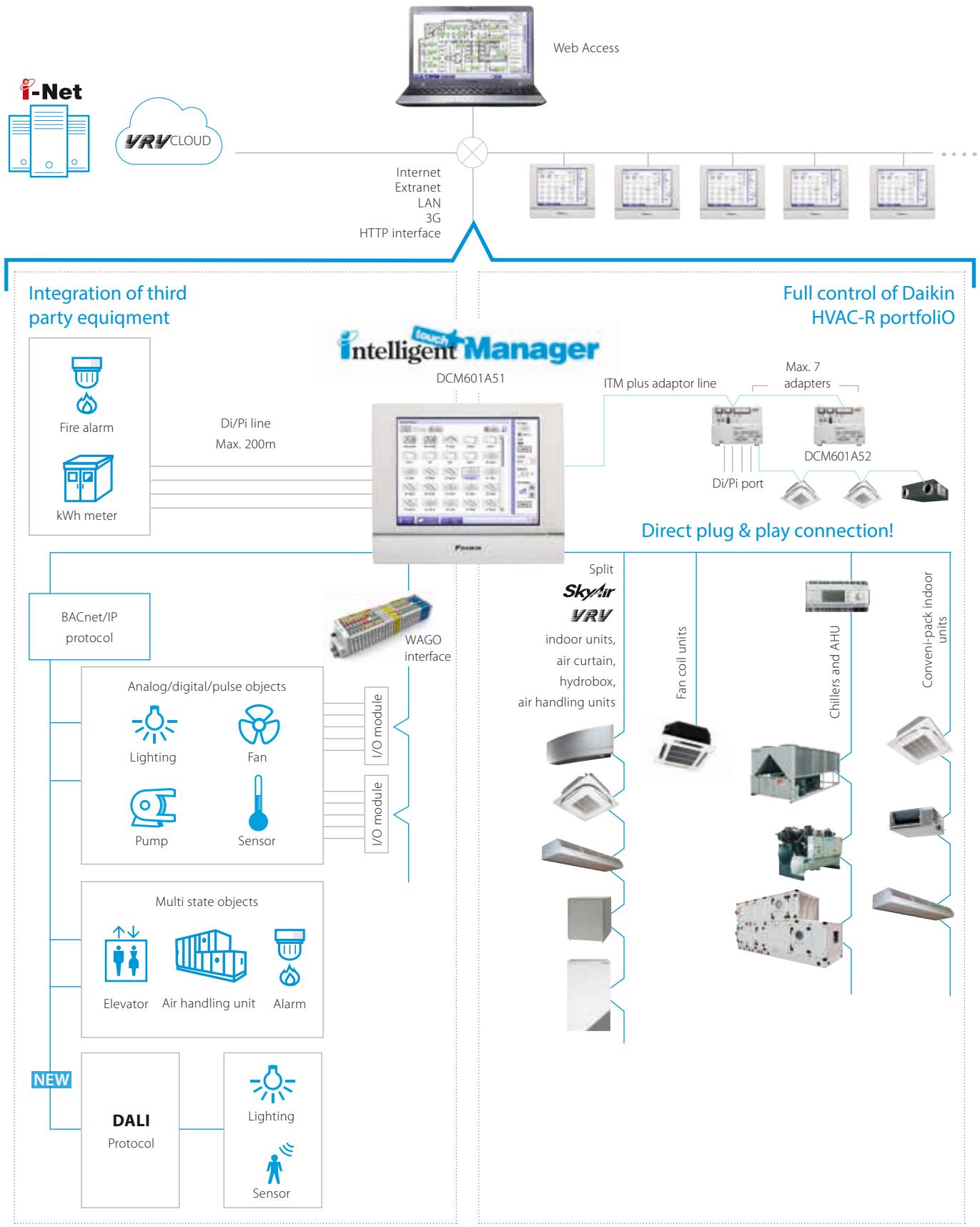
- › Easy selection of WAGO materials
- › Material list creation
- › Time saving
 - Includes wiring schemes
 - Contains commissioning/preset data for iTM



Check on
 YouTube

www.youtube.com/DaikinEurope

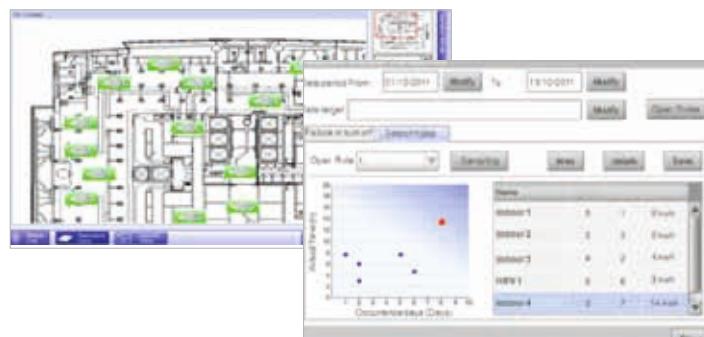
System overview





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



Smart energy management

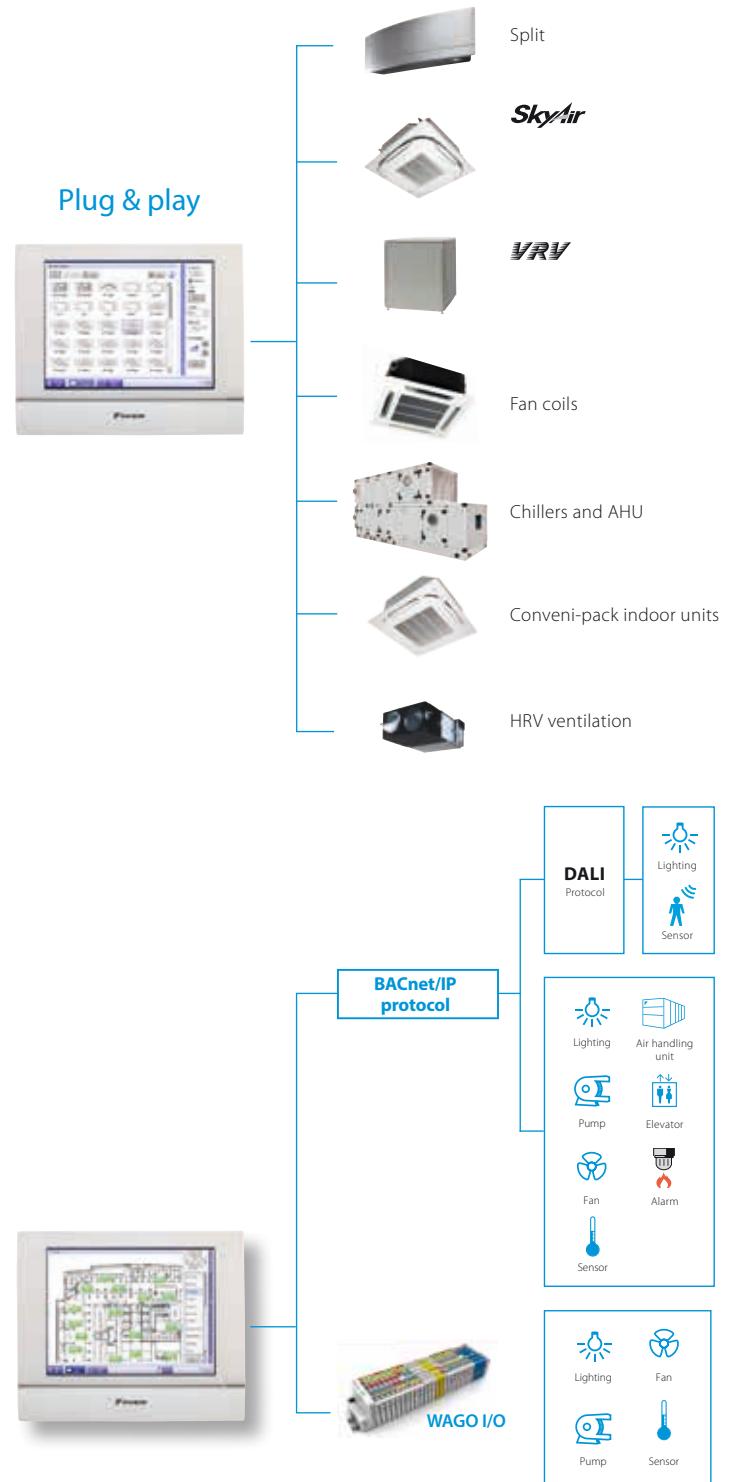
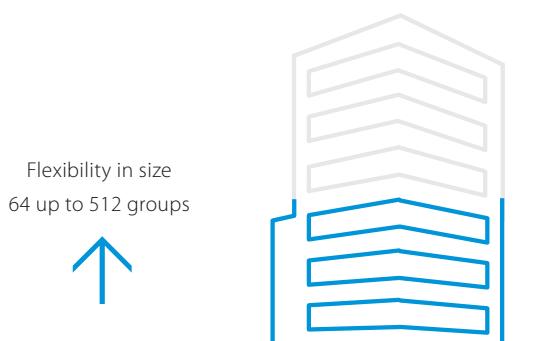
- › Monitoring if energy use is according to plan
- › Helps to detect origins of energy waste
- › Powerful schedules guarantee correct operation throughout the year
- › Save energy by interlocking A/C operation with other equipment such as heating

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



Functions overview

Languages

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

Management

- › Web access
- › 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
- WAGO coupler (interface between WAGO and iTM)
- Di module
- Do module
- Ai module
- Ao module
- Thermistor module
- Pi module

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

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-EKCBACIP controller)
- Daikin AHU (via MT3-EKCBACIP controller)
- Fan coils
- Daikin Altherma Flex type
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol
- Daikin PMS interface (option DCM010A51) **NEW**



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

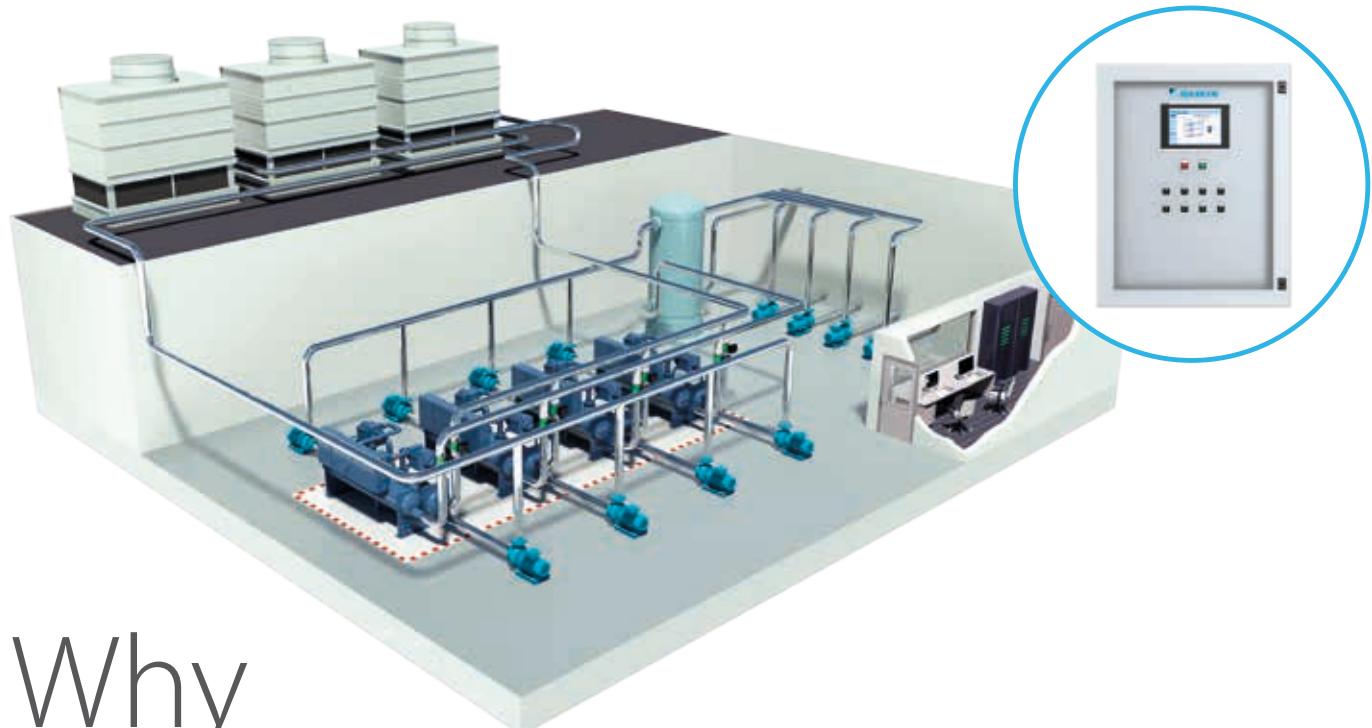
Calculates **energy-optimal stage-up/stage-down** of the chiller by determining the increased capacity demand by capacity control, compensation of temperature and rotation. This function aims at providing the most energy-efficient combination of chillers on a continuous basis.

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.



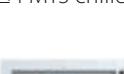
Why choose iCM?

- › 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

Daikin is the best qualified partner to optimise the operation of a Daikin chiller plant room.

Product line-up and specifications

iCM is available in two versions:

Standard (Configuration)		 (Basic) (≤4 MT3 chillers)	 (Light/Full) (≤4/≤8 MT3 chillers & peripherals)
Customised (Free-programmable)		 (Customised)	

Standard version

Configurable controller with a pre-set library of applications.
The standard system is divided into three configurations according
to how many chillers and peripherals it can manage.

Standard is the right solution for you when you have:

- › Up to 8 x (Air-cooled/Water-cooled chillers + shut-off valves + pumps)
 - › Only a primary, or a primary-secondary system
 - › Constant or variable primary flow

Customised version:

Free-programmable controller for those applications not covered by the Standard version.

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

Modbus Interface

RTD-W

Modbus interface for monitoring and control of Daikin Altherma Flex Type, VRV HT hydrobox and **small inverter chiller**.



Main functions	RTD-W
Dimensions	100x100x22
On/off prohibition	R
Modbus RS485	R
Dry contact control	R
Output signal (operation error)	R
Space heating / cooling operation	R
Domestic hot water control	R
Smart Grid control	

Control functions	
On/Off Space heating/cooling	M,C
Set point leaving water temperature (heating / cooling)	M,V
Room temperature setpoint	M
Operation mode	M
Domestic Hot water ON	M,C
Domestic Hot Water reheat	
Domestic Hot Water reheat setpoint	
Domestic Hot Water storage	M
Domestic Hot Water Booster setpoint	
Quiet mode	M,C
Weather dependent setpoint enable	M
Weather dependent curve shift	M
Fault/pump info relay choice	
Control source prohibition	M

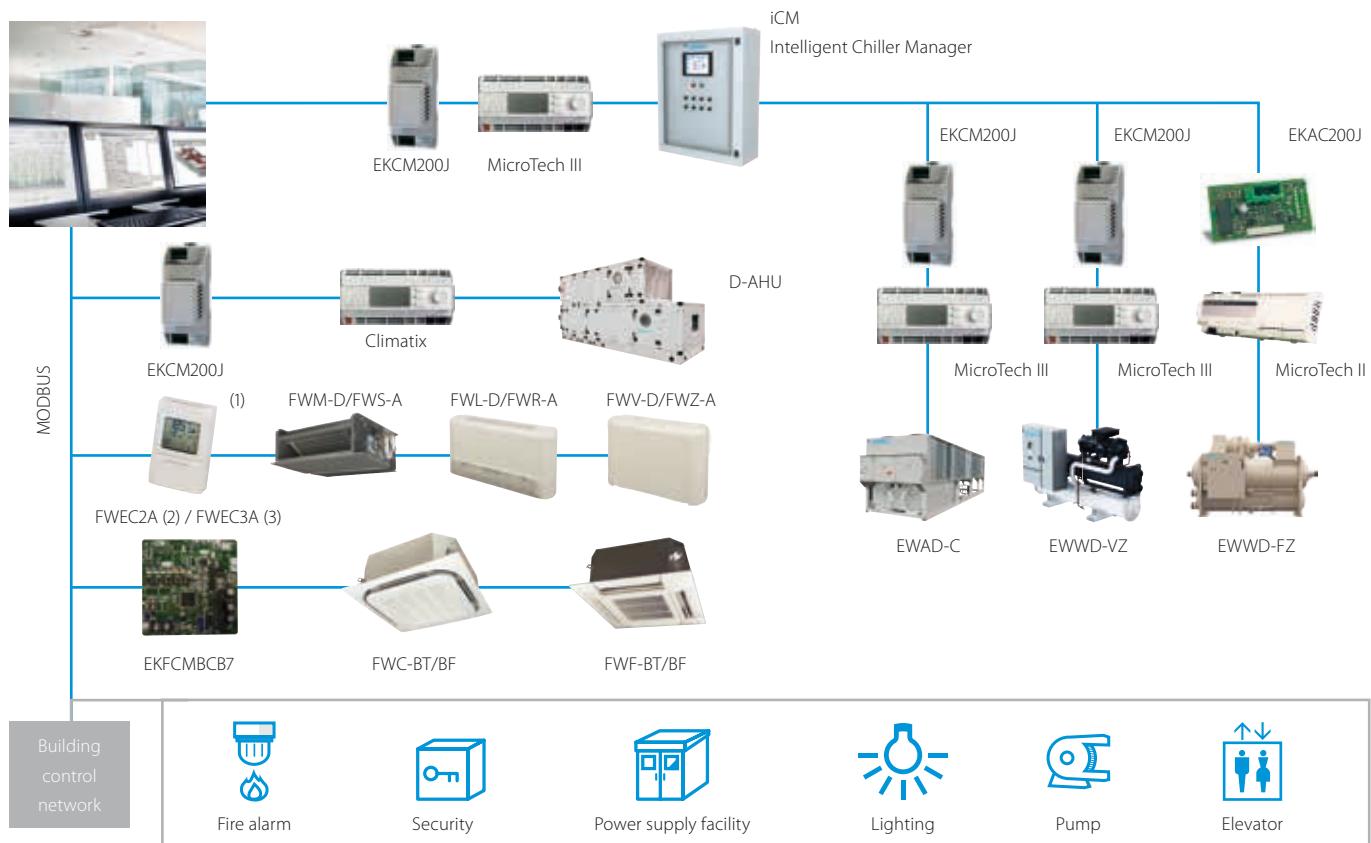
Smart grid mode control	
Prohibit Space heating/cooling	
Prohibit DHW	
Prohibit Electric heaters	
Prohibit All operation	
PV available for storage	
Powerful boost	

Monitoring functions	
On/Off Space heating/cooling	M,C
Set point leaving water temperature (H/C)	M
Room temperature setpoint	M
Operation mode	M
Domestic Hot Water reheat	M
Domestic Hot Water storage	M
Number of units in the group	M
Average leaving water temperature	M
Remocon room temperature	M
Fault	M,C
Fault code	M
Circulation pump operation	M
Flow rate	
Solar pump operation	
Compressor status	M
Desinfection operation	M
Setback operation	M
Defrost/ start up	M
Hot start	
Booster Heater operation	
3-Way valve status	
Pump running hours accumulated	M
Compressor running hours accumulated	
Actual leaving water temperature	M
Actual return water temperature	M
Actual DHW tank temperature (*)	M
Actual refrigerant temperature	
Actual outdoor temperature	M

M : Modbus / R : Resistance / V : Voltage / C: control
 * : only when room is occupied / ** : setpoint limitation / (*) if available
 *** : no fan speed control on the CYV air curtain / **** : run & fault

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

BR9A1V1



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

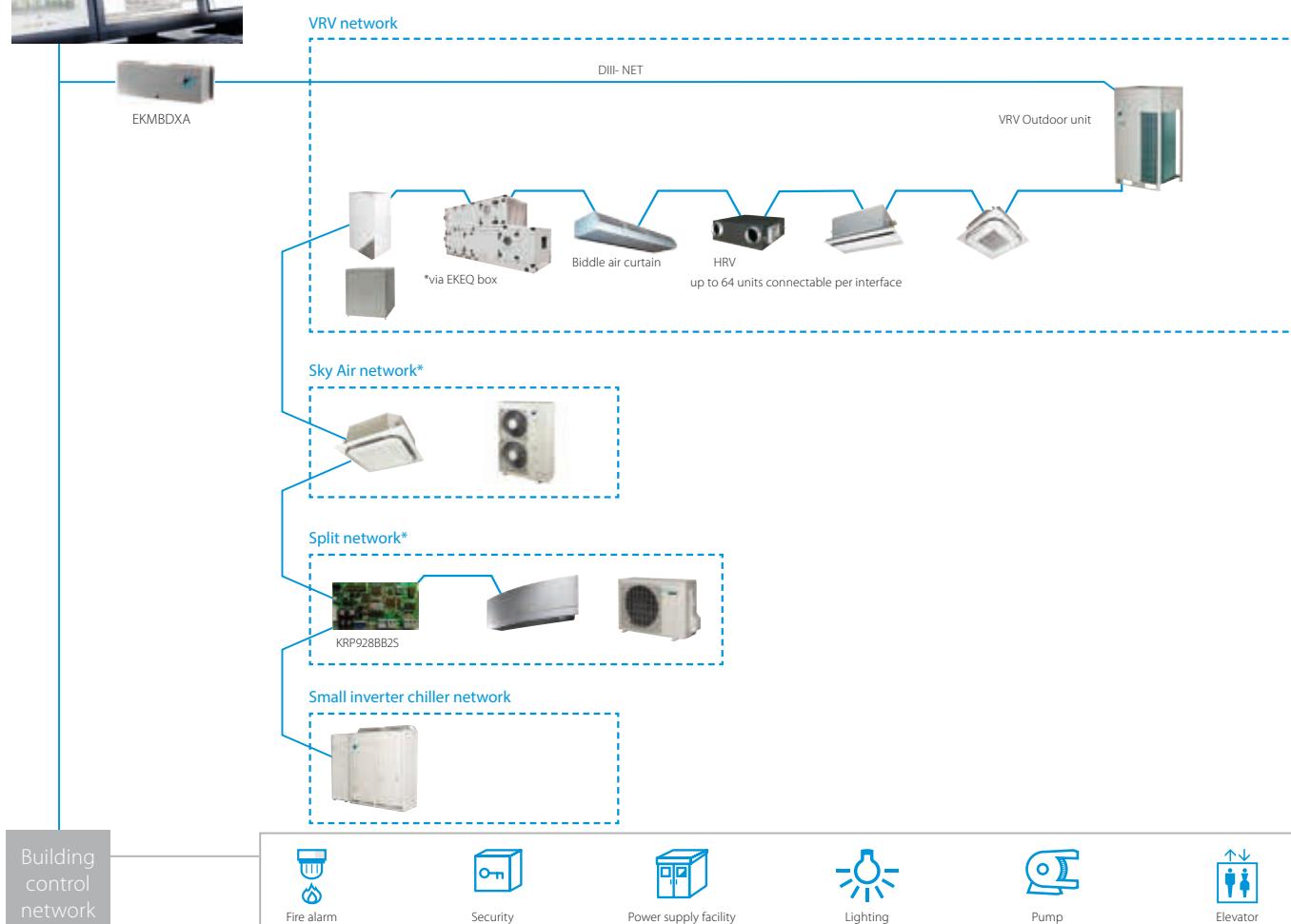
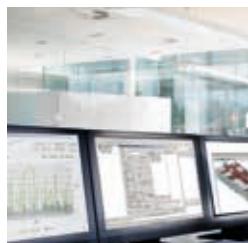
DIII-net Modbus interface

EKMBDXA

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

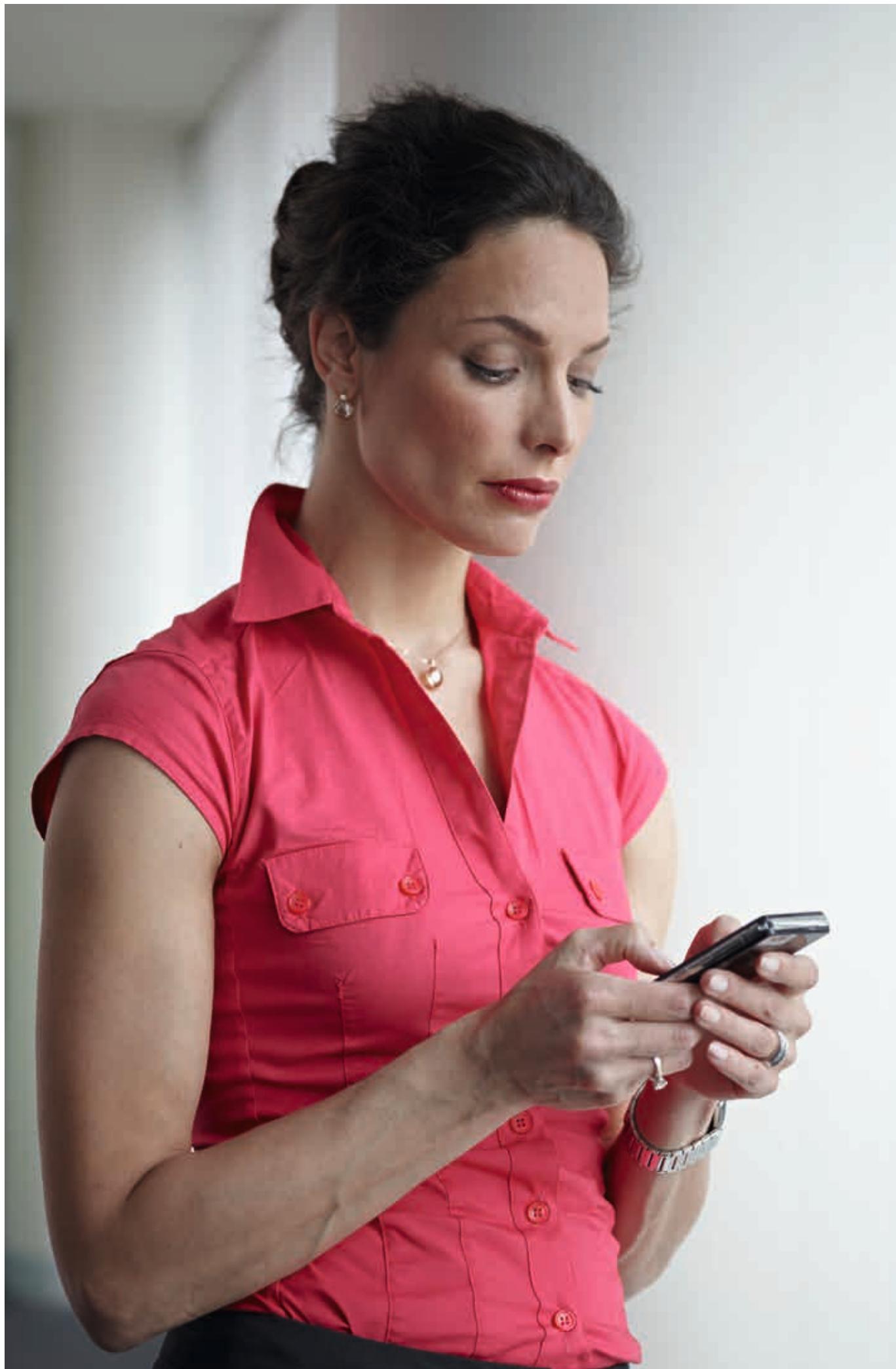


- › Communication via Modbus RS485 protocol
- › Detailed monitoring and control of the VRV total solution
- › Easy and fast installation via DIII-net protocol
- › As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor unit systems).



* Additional centralized controller might be required. For more information contact your local dealer.

		EKMBDXA7V1	
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: 9600 bps or 19200 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

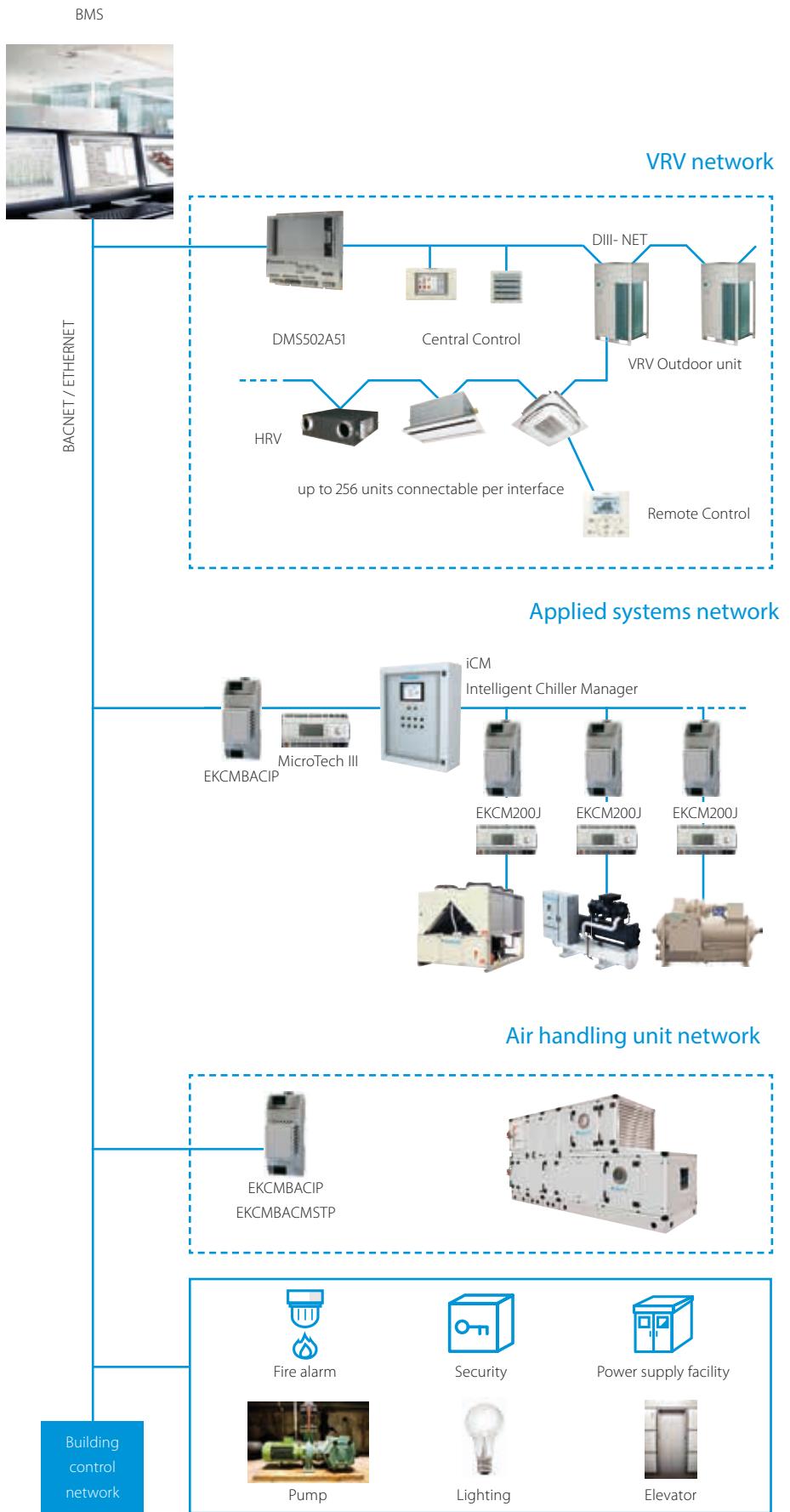


BACnet Interface

DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP

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)

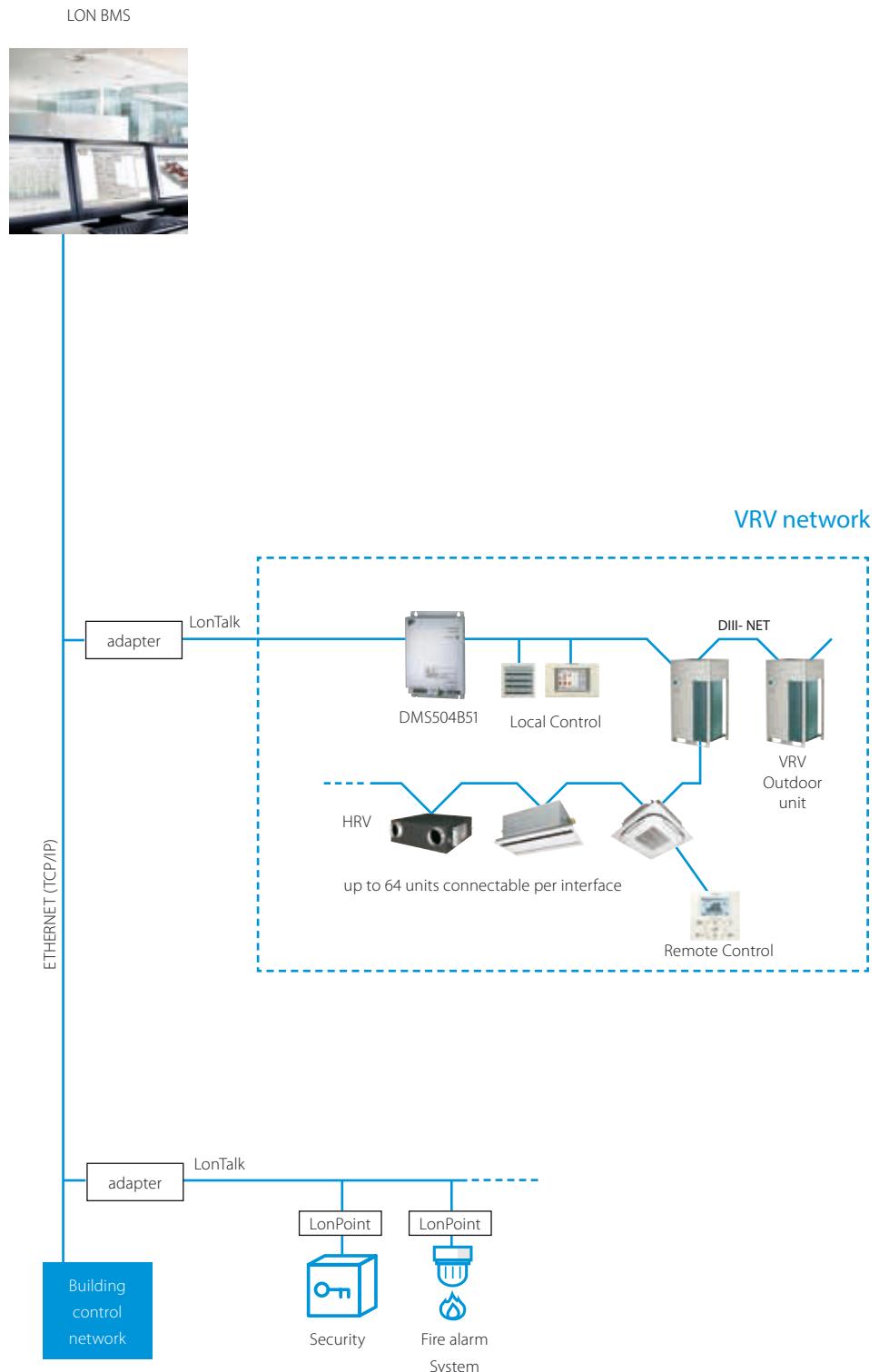


LonWorks Interface

DMS504B51 / EKACLONP

Open network integration of VRV and applied systems 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



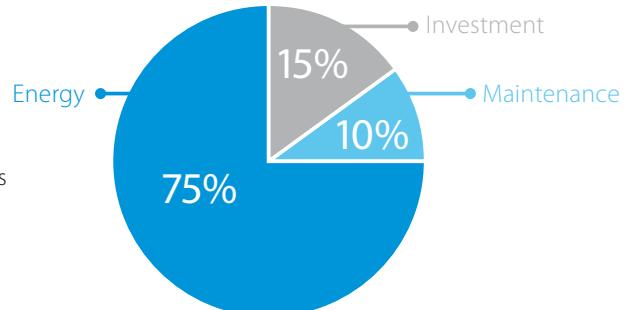


Why Daikin on Site?

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



Typical Life cycle Cost of a chiller (15 years)

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.



How does Daikin on Site deliver?

1

Insight wherever and whenever required, full visibility and traceability of the HVAC installation.

- › Real-time information and trend insights
- › No local software required
- › Personal access to the web-based user interface
- › Reports

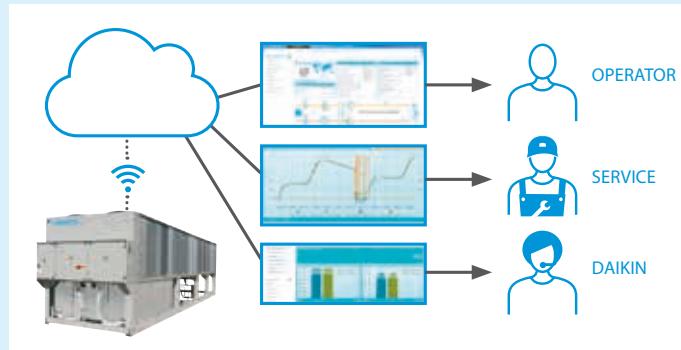
2

With Daikin on Site, we team up operators and specialists.

- › User-friendly operator information
- › State-of-the art tool providing best-in-class service
- › Remote solutions when possible, avoiding on site interventions

3

Converting all expertise to maintain highest energy efficiency and uptime.



ACTION TAKEN



You can hand it to us

Alerts & web application

- › 24/7 year-round alarm and event monitoring
- › Automated alarm system
- › Receive service updates or notifications via email
- › Access to Daikin on Site web application

Active monitoring

- › Remote alarm analysis and diagnostics provided by Daikin Experts
- › Fast and reliable on site service

Connected Service Plan

- › Remote alarm analysis and diagnostics provided by Daikin Experts
- › Fast and reliable on site service
- › All initiatives are combined with the most suitable Daikin Service Plan

SMARTCENTRE
Turns data into actions



CLOUD DATA WAREHOUSE



Encrypted data transfer

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 1/4"	44.5 mm
2"	50.8 mm
2 1/8"	54 mm
2 5/8"	66.7 mm

F-gas regulation

For fully/partially charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

For non pre-charged equipment (Chillers: split chiller (SEHVX/SERHQ), condensing units and condenserless chillers + refrigeration (LCBKQ-AV1, JEHCCU/JEHSCU and ICU): its functioning relies on fluorinated greenhouse gases.

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

Refrigeration

ZEAS	Chilling	Evaporating temp. -10°C; outdoor temp. 32°C; Suction SH10°C
	Freezing	Evaporating temp. -35°C; outdoor temp. 32°C; Suction SH10°C
Conveni-Pack	Cooling priority mode	Indoor temp. 27°CDB/19°CWB; outdoor temp. 32°CDB; piping length:7.5m; level difference: 0m Evaporating temp. -10°C; outdoor temp. 32°CDB; Suction SH: 10°C
	Heating recovery 100% mode	Indoor temp. 20°C; outdoor temp. 7°CDB,6°CWB; refrigeration load 18kW; piping length:7.5m; level difference: 0m
Booster unit	Saturated temperature equivalent to suction pressure (refrigeration side)	10°C (under chilled condition); connection capacity for indoor air conditioner: 10HP, when heat recovery is 100%
		Evaporating temp. -35°C; outdoor temp. 32°C; suction SH 10K; saturated temp. to discharge pressure of booster unit -10°C
CCU/SCU		Outside ambient temp. 32°C; Evaporating temp. = -10°C and 10K superheat (medium temperature application)
	Medium temperature	When normally running : 0°C / 30°C
	Low temperature	When normally running : -20°C / +30°C
Zanotti	High temperature	When normally running : +10°C / +30°C

Applied systems

Air cooled	Cooling only	Evaporator: 12°C/7°C	Ambient: 35°CDB
	Heat pump	Evaporator: 12°C/7°C	Ambient: 35°C
Water cooled	Cooling only	Condenser: 40°C/45°C	Ambient: 7°CDB/6°CWB
	Heating only		
Condenserless chiller		Evaporator: 12°C/7°C	
		Condenser: 30°C/35°C	
Fan coil units	Cooling	Evaporator: 12°C/7°C	
	Heating	Condenser: 40°C/45°C	
Condensing temperature: 45°C / liquid temperature: 40°C			
Air Handling Units	2-pipe	Indoor temperature 27°CDB, 19°CWB; entering water temperature 7°C, water temperature rise 5K	
	4-pipe	Indoor temperature 20°CDB, 15°CWB; entering water temperature 45°C, water temperature drop 5K	
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.





Saving energy doesn't stop with the purchase or installation of energy-efficient equipment; it has to be kept running under optimum conditions.

Good maintenance and servicing are key elements in ensuring the maximum performance.

**Are you sure the filters are clean and none of the components are defective?
Are all of your settings correct?**

Any of these things may lead to a reduced level of comfort. And while you may not notice the difference right away, you will certainly notice it at the end of the year – when you pay your energy bill.

Our Daikin design team is constantly striving to improve the energy efficiency of our systems.

We at Daikin Service are here to support you in keeping your units up and running efficiently by means of optimised commissioning and start-up, regular and preventative maintenance, remote monitoring, improving the performance of units, and providing cost effective upgrades to benefit from the efficiency gains from our latest state of the art technology.

Optimisation and upgrades



Intelligent remote monitoring



Upgrading / optimisation

Keep the installation in top condition



Care Packages

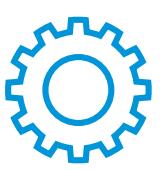


Installation support



Commissioning

Parts and repairs



Spare parts



Repair service

Commissioning

To guarantee your Daikin unit efficiency and long term performance, Daikin offers the **professional start-up of your Daikin system** by highly qualified, OEM educated engineers as part of the commissioning services.

Commissioning through an authorized Partner or by Daikin itself assures you that your unit is working as it should and is delivering all the benefits of a unique climate.

Every commissioning is documented as per Daikin standard and a detailed commissioning report is provided, detailing all activities done and recording the functioning of the units.



Maintenance

Maintenance is the key element to ensure the quality, efficiency and flawless operation of any asset.

Our Care agreements are based on years of experience to ensure you reap the full benefits of having Daikin Certified engineers maintain your equipment.

Preventive maintenance and regular service is a key component in securing your investment.

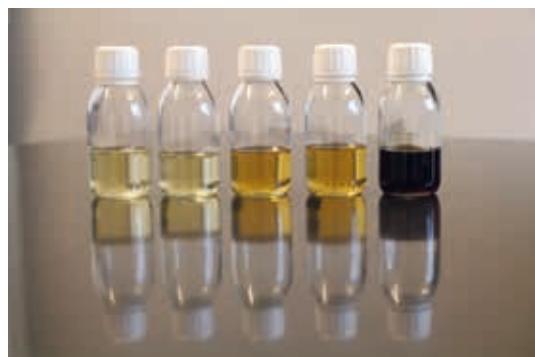
Dust, temperature, humidity and load degrade the reliability and performance of a HVAC system over time.

Regular maintenance of a unit or

system ensures that electricity costs and performance are not jeopardized, and that the safety features and the entire system are in line with the latest standards and regulations.

Regular care safeguards your investment for the full lifetime of the Daikin System. Downtime and failures are avoided, while keeping operating costs low, as they should be throughout the entire system lifecycle.

Preventive care plans give you cost transparency avoiding unexpected repair costs or degradation of comfort, quality or production loss.



Daikin Cares contains 3 different levels of maintenance agreements catering to your every need. In addition to these 3 Care packages Daikin offers a comprehensive set of options you can choose from.

1. Care:

Care is the minimal requirement to fulfil current legislation requirements, and makes sure your machine is operating in a correct fashion and according to parameters.

The Care package includes the following services:

- Inspections based on predefined activities
- On-site system diagnostic and/or analysis during service intervention
- Recorded, retrievable service history of each machine
- Validated Log book

2. Preventive Care:

Preventive Care keeps the machine in optimal condition and that the Warranty is valid for the long run.

In addition to the maintenance activities included in the Care package, Preventive Care includes:

- › Mechanical inspection (star gate) of screw compressor
- › Capacity regulator overhaul
- › Comprehensive oil analysis
- › Lifecycle report with status & measurement report
- › Access to Emergency support & callout
- › Technical assistance and repair service

3. Extended Care:

Extended Care provides maximum equipment availability at the minimum Total Cost of Ownership. In addition to the activities mentioned in the Preventive care package, Extended Care includes:

- Oil analysis, refill and/or change if required
- Labor- & travel cost, spare parts for planned maintenances are included
- › Labor- & travel cost, spare parts for repairs are included
- › Remote Predictive Performance monitoring & Analysis
- › Extension of warranty

Options:

- Leak test
- Remote monitoring
- Factory inspection/refurbishment
- Specialist support and consultancy

Service

E-Parts

Find the correct spare part for your Daikin unit, check availability (real-time) and order online.

All in just a few simple steps.

Your benefits:

- › fast handling
- › free shipment
- › 24/7 accessibility
- › flexible delivery
- › "real time" availability



Register now to use the E-Parts service

Create access for you and your colleagues.

- Simply go to my.daikin.eu
- download the registration form
- fill it in
- and email it back to your local Daikin office

Always accessible for you

You can find the links to E-Parts and to the spareparts bank on our Business Portal:

<http://eparts.daikin-ce.com>
<https://my.daikin.eu>



Daikin Academy

To ensure the quality and efficiency of the service we deliver, we continuously invest in the development of know-how and skills of our staff.

We train and update them on the latest technical developments and service methods.

Daikin Central Europe also wants to support our partners and professionals to keep the service quality and efficiency at the highest possible level. Therefore we also provide various technical trainings and seminars to our partners and professionals.

Our trainings serve two different business needs and target groups:

Technical Service Product Trainings

These trainings are aimed for service technicians and engineers installing, commissioning, maintaining and servicing Daikin products. They are available only for Daikin direct customers (professional companies purchasing from Daikin).



Product Applications Seminars

These seminars are aimed at HVAC system designers and technical sales staff, transferring information on how to correctly design and apply systems with Daikin products

You want to learn more about how to keep your service at its best? Visit us on <http://www.daikin.at/xxx> to find out more about Daikin training offerings or contact us and let us know how we can help you!

Notes

New Daikin chiller range with inverter screw compressor and new ecological HFO R-1234ze(E) refrigerant



DAIKIN AIRCONDITIONING CENTRAL EUROPE HandelsgmbH

campus 21, Europaring F12/402, A-2345 Brunn am Gebirge · Tel.: +43 / 2236 / 32557 · Fax: +43 / 2236 / 32557-910 · e-mail: office@daikin.at · www.daikin-ce.com

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