DAIKIN

PRODUCT CATALOGUE 2025

Applied Systems

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.

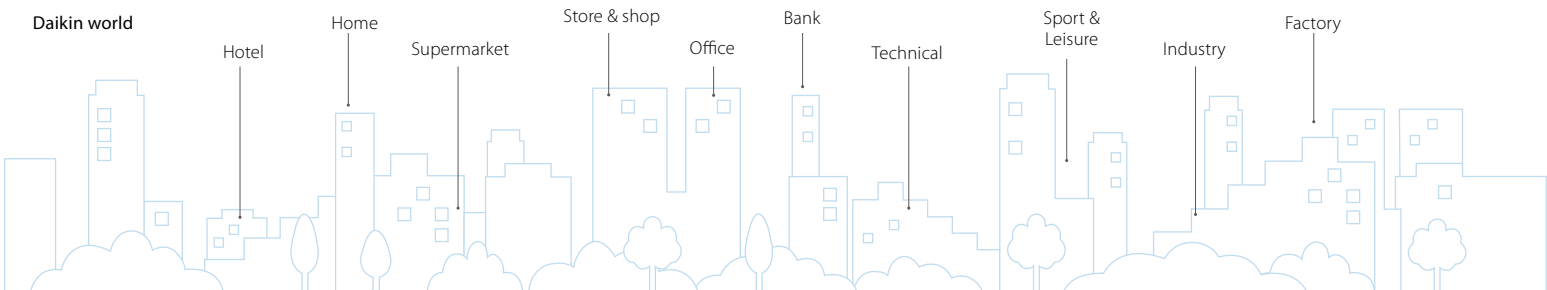
Our promise to the planet is absolute. Our products are at the forefront of low energy-usage and we will innovate to further reduce the environmental impact of HVAC-R (Heating, Ventilation, Air conditioning, Refrigeration) solutions. We lead where others follow.

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.



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Highlights 2025

Air to water Inverter heat pump - high temperature

EWYE-CZ

- R-454C refrigerant
- Capacity range from 16 to 70 kW
- Daikin DC inverter scroll compressors with vapor injection
- One and two independent refrigerant circuits
- Inverter Pump availability
- Up tp 70°C of heating water temperature even in extreme ambient conditions

Modular water to water chiller and heat pump

EW(W)(H)(L)T~Q-A

- R-32 refrigerant
- Modular design: 8 modules can be combined in two stacked arrays of 4 for a capacity range from 200 to 1.280 kW
- Heat pump with inversion on water side
- Heat pump with inversion on refrigerant side
- Condenserless
- 2 sound configurations: standard and reduced noise version suitable for outdoor installation

Inverter screw free cooling chiller

EWF(D)(H)(S) TZ-D

- New generation of air to water inverter series with extension of capacity range: nominal capacity up to 1.600 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Availability with 3 refrigerants: R-1234ze, R-513A, R-134a
- Unique fully integrated active harmonic filtration solution
- Glycol free application

Inverter air to water multipurpose unit

EWYS-4Z

- R-513A refrigerant
- Nominal capacity range 400 – 800 kW
- Full Inverter Technology
- Brushless fans as standard option
- Dedicated option for low flow rate in heating mode
- 2 sound configurations

Compact AHU Series: Compact L & T

- Available in ceiling suspended & vertical floor mounted
- 6 predefined sizes
- Plug & play control solution
- Available with DX coil, Water coil & electric heat exchangers
- Wide air flow coverage from 150 to 4.000 m3/h
- Compact L unit starting from 280 mm height only
- Compact T unit starting from 550 mm width only
- Excellent indoor air quality (IAQ). Up to three filtration stages: more than 90% PM1 in outdoor air are deleted achieving the best IAQ

New wall mounted BLDC fan motor fan coil unit

FWT-HTV

- Modern white panel design
- DC fan-motor
- 5 different sizes from 2,4 kW to 5,3 kW
- 230V ON-OFF internal 3-way valve available as factory mounted
- 2-way valve available as supplied loose accessory
- Double filtration stage (Gin-Ion filter + PM2,5 filter)
- Daikin Flash Streamer technology integrated
- Modbus gateway available as accessory for BMS integration

New condensing unit for AHUs

ERA

- New line up with low GWP refrigerant R-32 up to 12 HP
- Immediate cooling and heating under any ambient or room conditions
- Better management of load for medium size spaces due to VRV technology
- Continuous Heating: avoid cold drafts during defrost cycle
- Benefit from the high efficiency and fast response time of ERA units for changing loads
- Energy saving due to inverter technology
- Wide range of expansion valve kits available for capacities of 6,3 to 30 kW

Inverter screw water to water unit

EWWH-VZ

- New option of the current VZ Series with R-1234ze to allow the unit to deliver hot water up to 90°C
- Ideal solution for multiple application: district heating, space heating, process heating
- Multiple renewable energy sources: waste heat from data centers from industry, gray waters, ground source water

Available in October 2025

Modular air to water heat pump with R-290

EWYK-QZ

High temperature heat pump to enter boilers' replacement market:

- R-290 refrigerant
- 2 circuits per module; 1 compressor per circuit
- Scroll compressors with Inverter as standard
- Air heat exchangers in Cu/Al
- Fan type: Variable speed EC fans.
- Water heat exchangers: BPHE

Available in October 2025

Compact R

New Compact AHU with heat recovery wheel for maximum heat & humidity recovery

- Plug & play AHU with Airflow upto 6.000 m^3/h
- Possible with indoor and outdoor installations
- Upto 87% heat recovery efficiency
- Available with DX coil, Water coil & electric heat exchangers

DAIKIN
BRAZING
DAIKIN

Daikin, your partner for your green project

Choosing the sustainable path is no longer a matter of choice, it's an obligation.
As every building is unique, it requires a different solution to match its unique properties.
It is essential to have an **HVAC partner** like Daikin, with knowledge and portfolio **to achieve your BREEAM or LEED objectives while staying within budget**.

Our HVAC total solutions increase the environmental value of buildings and enhance the working environment of tenants. Integration of Daikin technologies will therefore contribute to the overall sustainability level of the building and enable you **to reach a BREAAM Excellent or Outstanding score or a LEED Gold or Platinum score**.

Daikin products can contribute in

7 out of 10 BREEAM categories

and achieve

29~50 BREEAM credits*

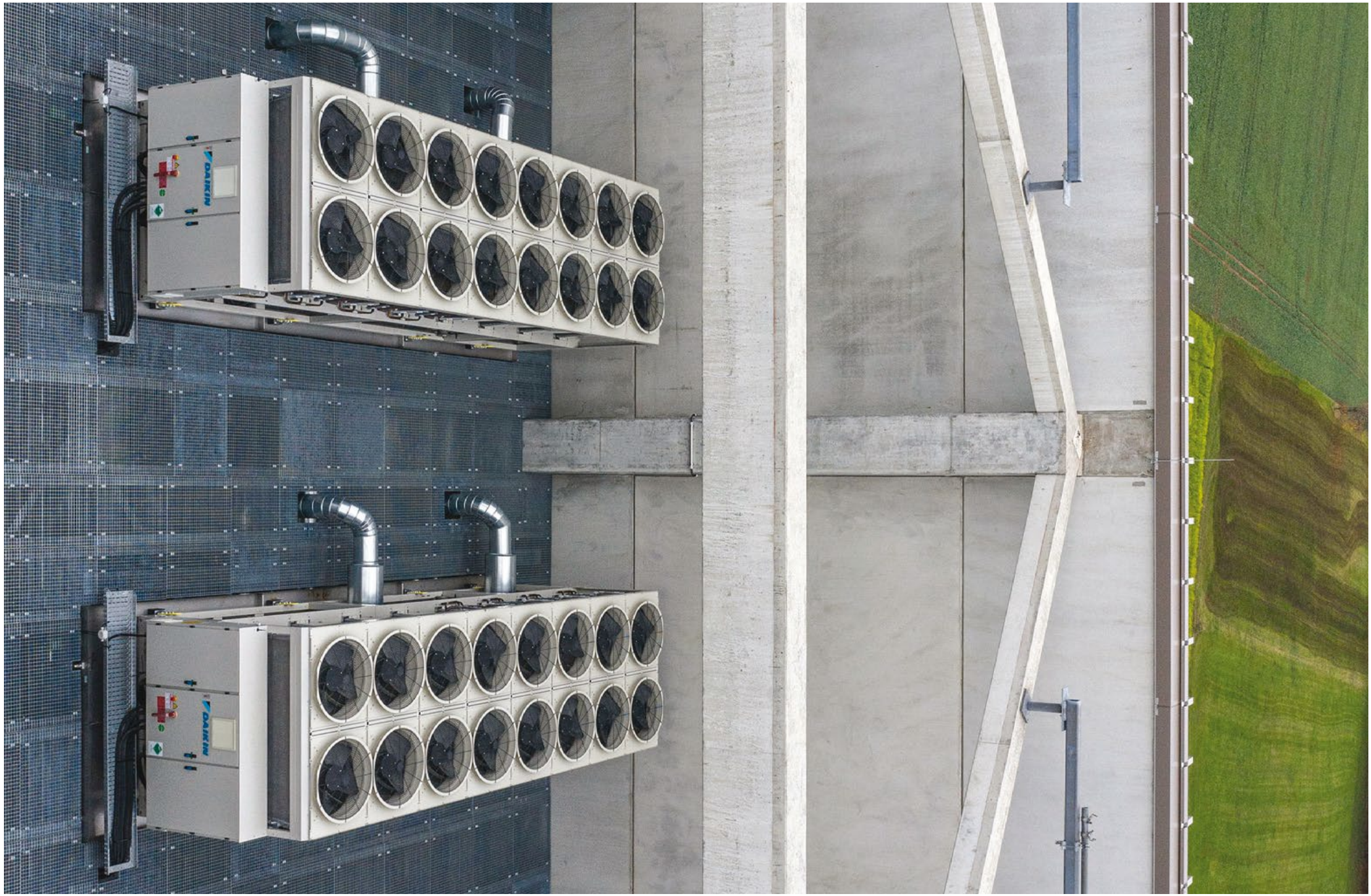
Daikin products can contribute in

4 out of 8 LEED categories

and achieve

18~35 LEED points*

* Feasibility analysis done by Daikin



Why Daikin?

to maximize your BREEAM rating

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

Find out in which categories Daikin gains credits in the BREEAM International New Construction V6.0 2021 on the next page.

BREEAM credits related to

Applied Systems

Category	Section	Objective	Chillers	Air Handling Unit	Fan Coil Units	Maximum credits that can be obtained	
Management	MAN 02	Promote the use of life cycle costing and service life planning and the sharing of data to raise awareness and understanding.	✓	✓	✓	1	
	MAN 04	Encourage a properly planned handover and commissioning process that reflects the needs of the building occupants.	✓	✓	✓	2	
	MAN 05	Offer one-year post-handover support for building occupants, ensuring alignment with design intent and operational needs, facilitating smooth operation and adaptation.	✓	✓	✓	2	
Health & Wellbeing	HEA 02	Recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.	-	✓	-	2	
	HEA 04	Ensure that appropriate thermal comfort levels are achieved through design, and controls are selected to maintain a thermally comfortable environment for occupants within the building.	-	✓	✓	3	
	HEA 05	Assure the building's acoustic performance, including sound insulation meets the appropriate standards for its purpose.	-	✓	✓	1	
Energy	ENE 01	Design buildings to minimise operational energy demand, primary energy consumption, and CO_2 emissions	✓	✓	✓	9-13	
	ENE 02	Offer energy sub-metering to enable post-handover performance comparison with targets, enhancing management insights and effectively addressing any performance gaps.	-	✓	-	2	
	ENE 04	Encourage the adoption of design measures which reduce building energy demand - and associated carbon emissions - and maximize on-site renewables.	✓	✓	✓	1	
Waste	WST 01	Promote resource efficiency via the effective and appropriate management of construction waste.	✓	✓	✓	2	
	WST 05	Mitigate the impact of extreme weather conditions arising from climate change over the lifespan of the building	-	✓	-	1	
Pollution	POL 01	Reduce the level of greenhouse gas emissions arising from the leakage of refrigerants used to heat or cool the building.	✓	-	-	4	R-1234ze R-32
	POL 02	Contribute to a reduction in local Nox emission levels through the use of low emission heat sources in the building	✓	-	-	2	
	POL 05	Minimize potential noise from new development's fixed installations to prevent disturbance to neighboring noise-sensitive structures.	✓	✓	✓	1	
Innovation	MAN 05	Gather energy data, set targets, optimize controls for reduction, and share feedback with developers for future project energy efficiency enhancements.	✓	-	-	1	DAIKIN ON SITE
	ENE 01	Report energy consumption targets by end use, design assumptions and input data	✓	-	-	2	
						Up to 40 credits	

For more information, please check out Daikin web page dedicated to the Green Building certification:

Why Daikin?

to maximize your LEED rating

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

Find out in which categories Daikin gains points in the LEED v4.1/v4.0 for New Construction and Major Renovations on the next page.

LEED credits related to

Applied Systems

Category	Section	Objective	Chillers and heat pumps	Air Handling Unit	Fan Coil Units	Maximum points that can be obtained	
Energy & Atmosphere (EA)	EA Prerequisite: Fundamental commissioning and verification	To support the design, construction, and eventual operation of a project that meets the owner's project requirements for energy, water, indoor environmental quality, and durability.	✓	✓	✓	N/A	
	EA Credit: Enhanced commisioning	To further support the design, construction, and eventual operation of a project that meets the owner's project requirements for energy, water, indoor environmental quality, and durability.	✓	✓	✓	4	
	EA Prerequisite: Minimum energy performance	To reduce the environmental and economic harms of excessive energy use by achieving a minimum level of energy efficiency for the building and its systems.	✓	✓		N/A	
	EA Credit: Optimize energy performance	To achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use.	✓	✓		1 up to 18	
	EA Prerequisite: Building-level energy metering	To support energy management and identify opportunities for additional energy savings by tracking building-level energy use.	✓	✓	✓	N/A	
	EA Credit: Advanced energy metering	To support energy management and identify opportunities for additional energy savings by tracking building-level and system-level energy use.	✓	✓	✓	1	
	EA Prerequisite: Fundamental refrigerant management	To reduce stratospheric ozone depletion.	✓			N/A	
	EA Credit: Enhanced refrigerant management	To reduce ozone depletion and support early compliance with the Montreal Protocol while minimizing direct contributions to climate change.	✓			1	
Indoor Environmental Quality (EQ)	EQ Prerequisite: Minimum indoor air quality performance	To contribute to the comfort and well-being of building occupants by establishing minimum standards for indoor air quality (IAQ).		✓	✓	N/A	
	EQ Credit: Enhanced indoor air quality strategies	To promote occupants' comfort, well-being, and productivity by improving indoor air quality.		✓	✓	2	
	EQ Credit: Construction indoor air quality management plan	To promote the well-being of construction workers and building occupants by minimizing indoor air quality problems associated with construction and renovation.		✓	✓	1	
	EQ Credit: Indoor air quality assessment	To establish better quality indoor air in the building after construction and during occupancy.		✓	✓	1	
	EQ Credit: Thermal comfort	To promote occupants' productivity, comfort, and well-being by providing quality thermal comfort.		✓	✓	1	
	EQ Credit: Acoustic performance	To provide workspaces and classrooms that promote occupants' well-being, productivity, and communications through effective acoustic design.	✓	✓	✓	1	
Materials & Resources	MR Credit: Environmental Product Declarations	To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified improved environmental life-cycle impacts.	✓	✓		1	
Innovation & Regional Priority (RP)	RP Credit: Regional Priority	To provide an incentive for the achievement of credits that address geographically specific environmental, social equity, and public health priorities.	✓	✓	✓	1 up to 4	
						Up to 35 points	

For more information, please check out Daikin web page dedicated to the Green Building certification:

Seasonal efficiency

Smart use of energy

Challenging target for 2030 towards environmental protection

SEASONAL EFFICIENCY
Smart use of energy

The European Commission has set challenging targets for improving energy efficiency in the EU. These targets aim at 55% reduction of greenhouse gas emissions, 32% share of renewable energy and a 32,5% energy efficiency improvement, all by the year 2030. To realise these objectives, Europe issued the Eco-Design Directive [2009/125EC]. This sets minimum efficiency requirements for energy related products.

European action plan for 2030

By the year 2030

-55% greenhouse gas emissions

32% Share of renewable energy

+32,5% energy efficiency improvement

Applied systems: products in scope

Since 26 September 2015, heat generators for space heating (LOT 1) also need to comply to these EU 2030 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 it 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/daikin-innovations/seasonal-efficiency.html**

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Chillers and heat pumps

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

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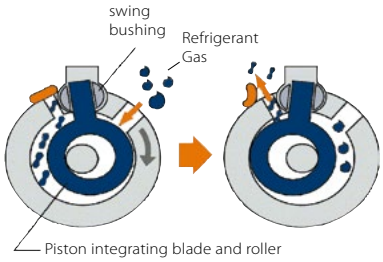
Day-to-day
reliability and efficiency

In-house development and manufacturing of compressors

Unlike many other air conditioning manufacturers, Daikin manufactures its own compressors. This is important because the compressor is the core of the air conditioning system, increasing the pressure and temperature of the refrigerant vapour and 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 integrated across our product range, ensuring improved 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.

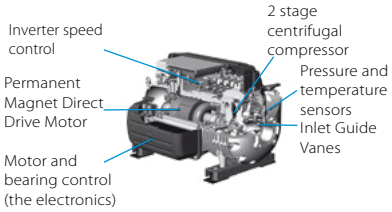
Scroll compressor for controlled capacity

Being compact, the Daikin scroll compressor is used with R-32 and R-454C to provide constant reliability and high efficiency throughout its service life. Designed for small and medium capacities, the scroll compressors are used with air to water and water to water 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.

Screw compressor

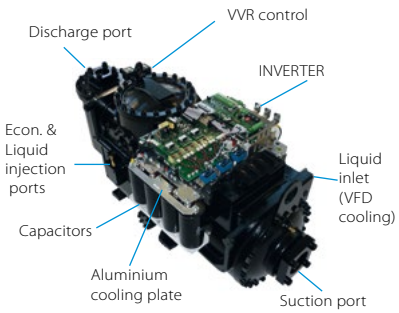
At the heart of the larger Daikin chillers is a semi hermetic single screw compressor, designed, tested and manufactured in Daikin's own factories, in order to meet the highest capacity, performance and maintenance specifications. This compressor has been especially developed for operation with R-134a, R-1234ze and R-513A refrigerants, guaranteeing unequalled reliability and many years of efficient operation.

Characteristics:

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

Main benefits:

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



Daikin chillers

Why choose Daikin chillers?

Daikin chillers are the perfect bridge between project requirements and customer satisfaction. From the smallest chillers to the very largest, our quality control and attention detail is absolute. Our systems have the **most advanced technologies**, deliver **the highest energy efficiencies** and **lowest running costs**, and are the gold standard for reliability and performance.

The widest and most flexible chiller portfolio
- From the smallest mini chiller for residential use to the largest chiller for district cooling and data center application
- Tailor made solutions based on the most advanced technologies
- Wide range of options and accessories

Worldwide experience in chiller design and manufacturing
- World's most advanced facilities for air conditioning research and development: the Applied Development Center in Minneapolis, Minnesota
- Inhouse development and manufacturing of chiller main components (compressors, fans, condenser coils, software, etc...)
- Chillers produced in European factories

The highest efficiency for every installation
- Inverter technology over the whole capacity range
- The lowest total cost of ownership and fast payback time

Quality and reliability
- Daikin's integrated zero defect policy ensures quality of components and finished products
- Each Daikin chiller is factory run-tested and subjected to quality audit before shipment

Benefits for installers
- Plug & play solutions
- Maximum serviceability
- Ideal solutions for retrofit projects

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

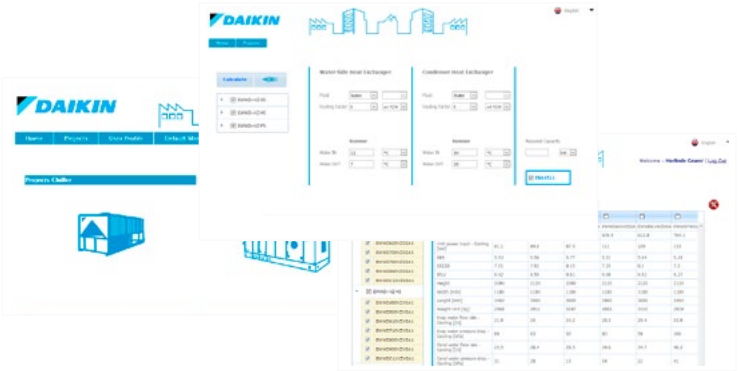
Benefits for end users
- Remarkable savings on running costs
- Easy to customise the chiller to your application, environment and need thanks to more than 150 different options.

Web-based chiller selection software

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

Technical selection reports can be printed or downloaded in several formats.

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



Web-based Air handling unit selection software

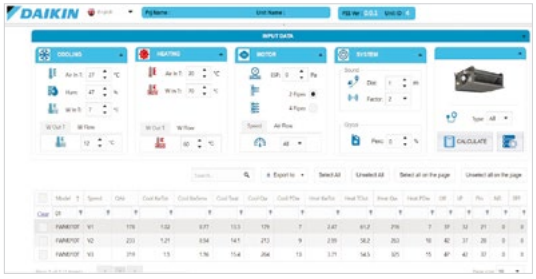
ASTRA Web

- 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.

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

Web-based Fan Coil unit selection software

- Fan coil unit selection is now easily possible with a new and user friendly integrated interface.



Supporting tools

Business portal

- Experience our extranet at **my.daikin.eu**
- Find information in seconds via a powerful search
- Customise the options so you see only info relevant for you
- Access via mobile device or desktop

Website

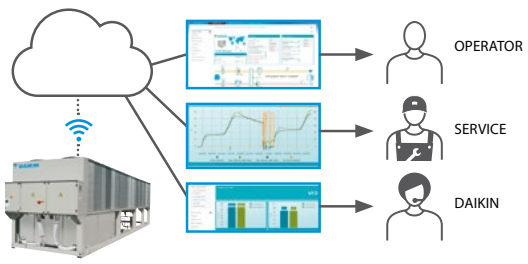
- **www.daikin-ce.com/en_us/product-group/chillers.html**
- Explore our product range
- Find our solutions for applications
- Get more commercial details on our flagship products
- Literature: download or consult our literature for our professional network and end-customers

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



Lower your running costs
with our energy saving options

Inverter technology

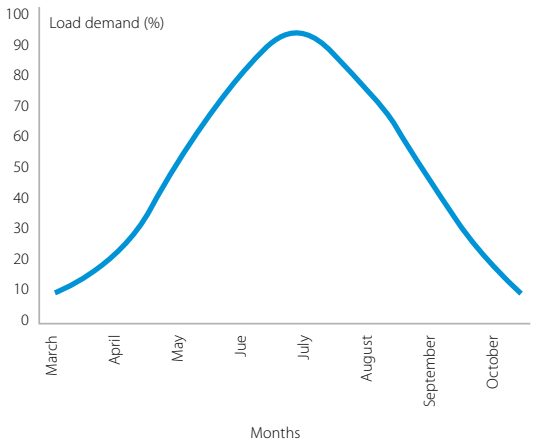
Traditional electric motors run at full load even when not needed (in chiller part load operations), resulting in energy waste.

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.

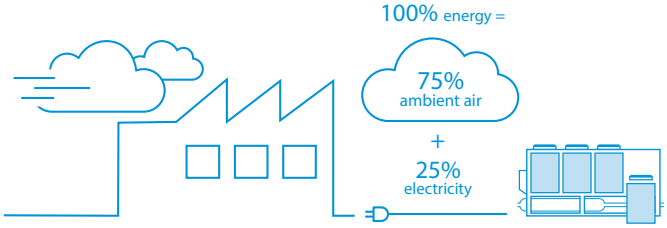
- Seasonal quietness: reduced sound levels
  Low sound levels in partial load conditions are achieved by the variation of compressor frequency, thus ensuring minimum sound levels at all times.

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 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 SEER (Seasonal Energy Efficiency Ratio) for cooling. Our units deliver maximum energy efficiency and the minimum of operating costs.



Heat recovery

For those particular applications were 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.

Rapid restart

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

Free cooling

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.

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.

Products overview

		Refrigerant type *	Refrigerant circuits	Compressor				Water heat exchanger		Efficiency version				Sound version		
				Inverter	Free cooling	Swing	Scroll	Screw	Plate **	Single pass shell and tube	Blue	Standard	High	Premium	Standard	Low	Reduced
Cooling only																	
EWAA-DV3P		R-32	1	●		●			● BPHE			●			●		
EWAA-DV3P/DW1P		R-32	1	●		●			● BPHE			●			●		
EWAT~CZN/P/H		R-32	1-2	●			●		● BPHE			●					
EWAT-B		R-32	1-2				●		●			●	●		●	●	●
EWAT-B-C		R-32	1-2		●		●		●			●	●		●	●	●
EWFT-B-C		R-32	1-2		●		●		●			●	●		●	●	●
EWAD-TZ D		R-134a	1-2	●				●	●	●	●	●	●	●	●		●
EWAH-TZ D		R-1234ze	1-2	●				●	●	●	●	●	●	●	●		●
EWAS-TZ D		R-513A	1-2	●				●	●	●	●	●	●	●	●		●
EWFD-TZ D		R-134a	1-2	●	●			●	●	●	●	●	●	●	●		
EWFH-TZ D		R-1234ze	1-2	●	●			●	●	●	●	●	●	●	●		
EWFS-TZ D		R-513A	1-2	●	●			●	●	●	●	●	●	●	●		
Heat pump																	
EWYA-DV3P		R-32	1	●		●			● BPHE			●			●		
EWYA-DV3P/DW1P		R-32	1	●		●			● BPHE			●			●		
EWYT-CZI EWYT-CZO		R-32	1	●			●		● BPHE			●			●		
EWYT~CZN/P/H		R-32	1-2	●			●		● BPHE			●					
EWYE~CZN/P NEW		R-454C	1-2	●			●		● BPHE			●					
EWYD-BZ		R-134a	2-3	●				●		●		●			●	●	
EWYT-B		R-32	1-2				●		● BPHE			●	●		●	●	●
Condensing unit																	
ERAD-E-		R-134a	1					●				●			●	●	
Multipurpose unit																	
EWYS-4Z		R-513A	2	●				●		●				●	●		●

LOOP BY DAIKIN
RECOVER · RECLAIM · REUSE

Creating your circular economy of refrigerants

Use of reclaimed R-134a and R-32

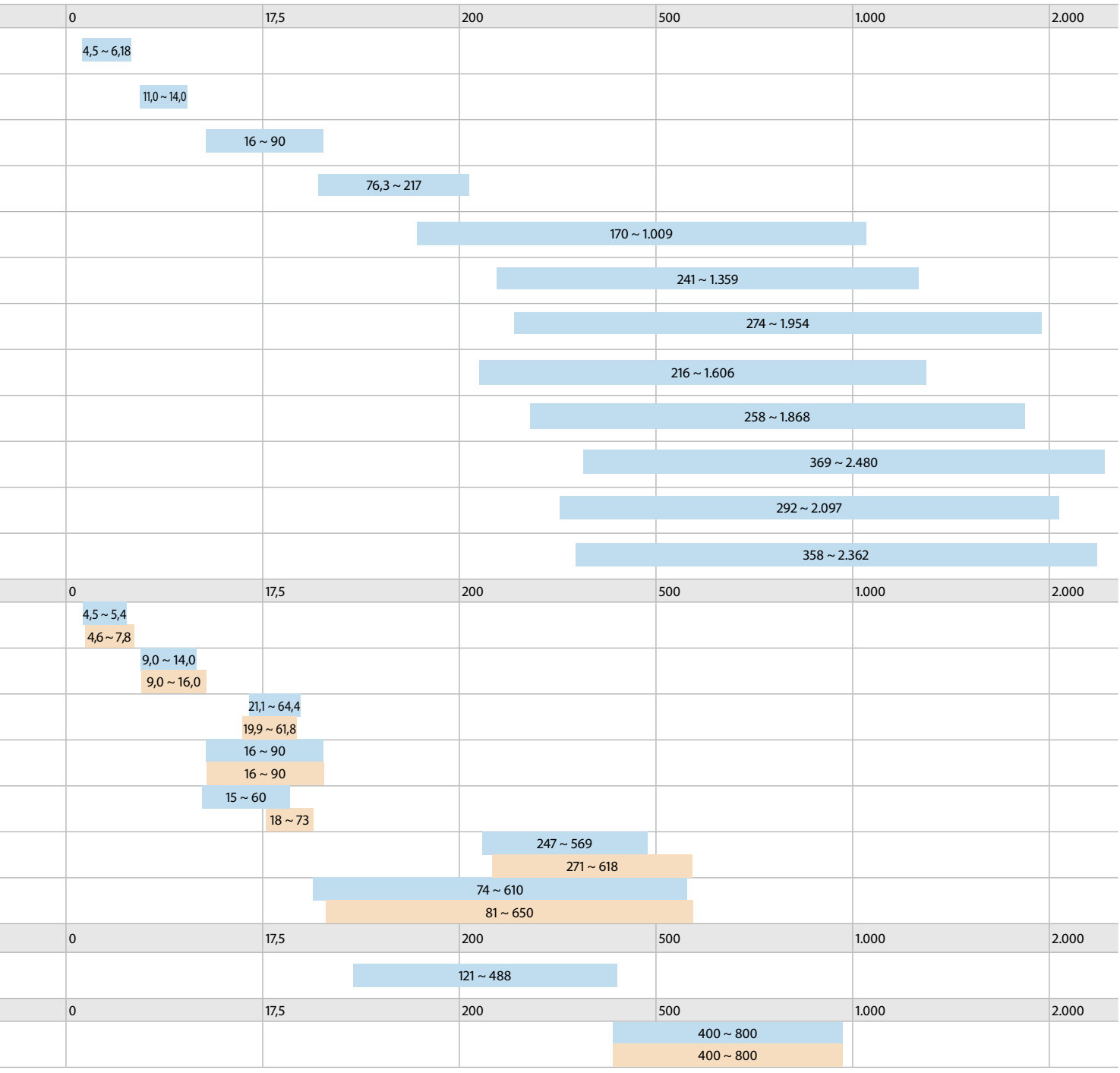
Reclaimed gas is refrigerant that has been recovered from existing installations and then reclaimed, meaning regenerated in a high-quality way, in line with F-gas regulation definition. For reusing, the reclaimed refrigerant is mixed with virgin refrigerant. The refrigerant's quality is certified by an independent laboratory. It meets AHRI 700 certified standards. After our VRV range, the L∞p by Daikin program is now also available for the following screw chillers, heat pumps, and centrifugal chillers:

- EWAD-TZ D inverter screw air to water chillers
- EWFD-TZ D hydronic free cooling inverter screw air to water chillers
- EWYD-BZ inverter screw air to water heat pumps
- EWWD-VZ inverter screw water to water chillers
- EWWD-DZ oil free centrifugal chillers
- EW(W)(H)(L)T~Q fixed speed scroll modular water to water heat pumps
- EWWD-J screw water to water chiller
- EWLD-J - screw water to water chiller

Learn more

* (GWP) : R-134a (1.430), R-1234ze(E) (7), R-32 (675) - ** BPHE: Brazed plate heat exchanger

Cooling capacity (kW)
Heating capacity (kW)



-DWSC / DWDC oil-based centrifugal units
- EWAT-B- fixed speed scroll air to water chillers
- EWYT-B- fixed speed scroll air to water heat pumps

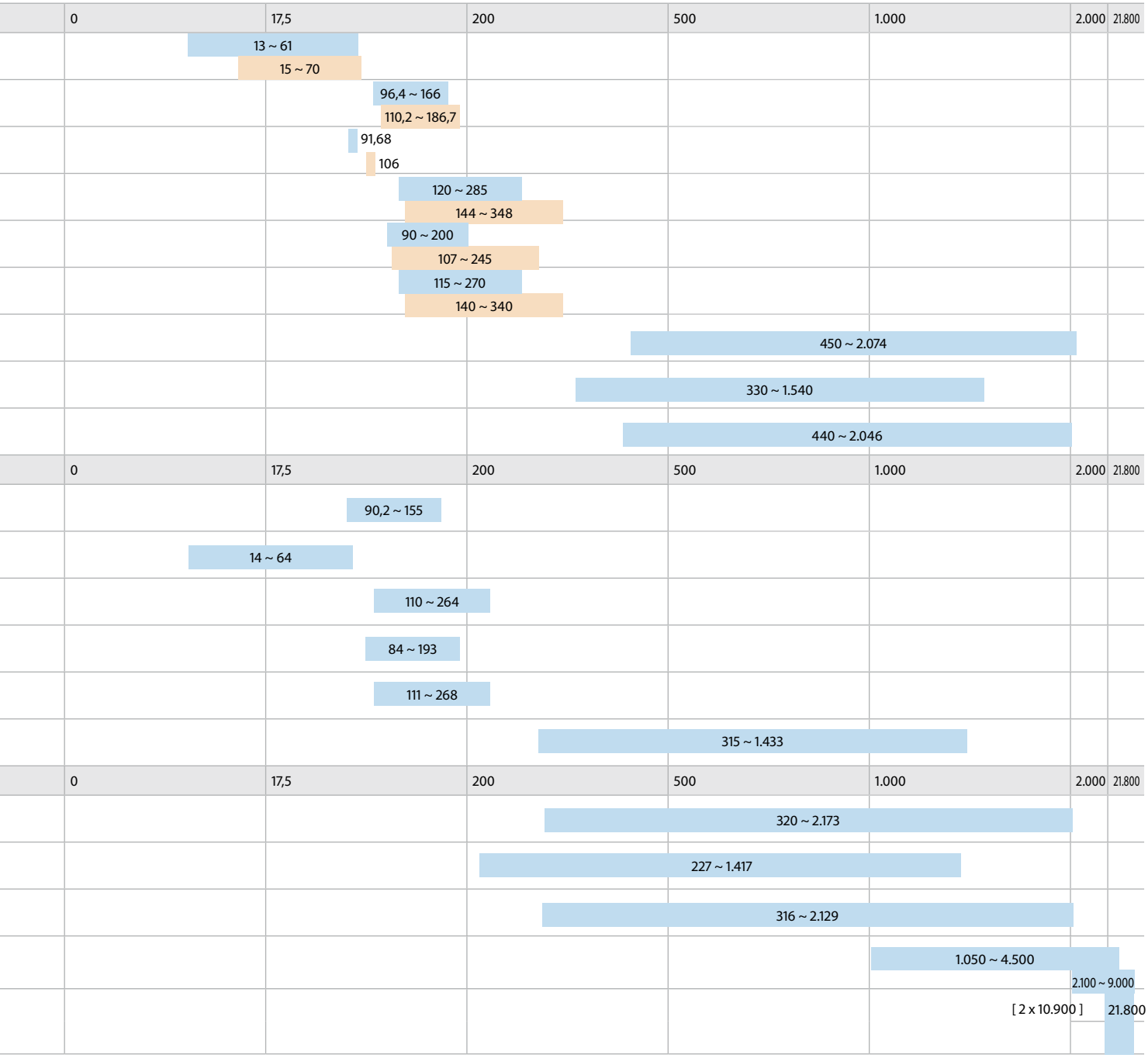
- EWAT-CZ inverter scroll air to water chillers
- EWYT-CZ inverter scroll air to water heat pumps
- EWAT-B-C fixed speed scroll air to water chillers
- EWFT-B-C hydronic free cooling fixed speed scroll air to water chiller

Products overview

		Refrigerant Type *	Refrigerant circuits	Compressor			Water heat exchanger			Efficiency version			Sound version	
				Inverter	Scroll	Screw	Centrifugal	Plate **	Single pass shell and tube	Shell and tube	Standard	High	Premium	Standard	Reduced
Water to water chillers (Cooling only and heat pump)															
EWWQ-KCW1N		R-410a	1-2		●			●			●			●	
EWWT-Q		R-32	1		●			●					●	●	●
EWHT-Q		R-32	1		●			●					●	●	●
EWWD-J-		R-134a	1			●		●			●			●	
EWWH-J-		R-1234ze(E)	1			●		●			●			●	
EWWS-J-		R-513A	1			●		●			●			●	
EWWD-VZ		R-134a	1-2	●		●				● Flooded	●	●	●	●	
EWWH-VZ		R-1234ze(E)	1-2	●		●				● Flooded	●	●	●	●	
EWWS-VZ		R-513A	1-2	●		●				● Flooded	●	●	●	●	
Condenserless chillers															
EWLT-Q		R-32	1		●			●					●	●	●
EWLQ-KCW1N		R-410a	1-2		●			● BPHE			●			●	
EWLD-J-		R-134a	1			●		●			●			●	
EWLH-J-		R-1234ze(E)	1			●		●			●			●	
EWLS-J-		R-513A	1			●		●			●			●	
EWLD-I-		R-134a	1-2-3			●			●		●			●	
Water to water centrifugal chillers															
EWWD-DZ		R-134a	1				●			● Flooded		●		●	
EWWH-DZ		R-1234ze(E)	1				●			● Flooded		●		●	
EWWS-DZ		R-513A	1				●			● Flooded		●		●	
DWSC/DWDC C		R-134a R-513A R-1234ze	1	optional			●		● Flooded			●		●	
6,000 RT CENTRIFUGAL		R-134a	2 per chiller				●		● Flooded			●		●	

* (GWP) : R-410A (2.087,5), R-134a (1.430), R-1234ze(E) (7), R-513A (631); ** BPHE: Brazed plate heat exchanger;

Cooling capacity (kW)
Heating capacity (kW)



Why choose Daikin air to water chillers and heat pumps?

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

Mini chillers and heat pumps

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 SEER.
Ideal for residential or light commercial applications.

Air to water scroll chillers and heat pumps

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 to water screw chillers and heat pumps

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.

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Air to water chillers (Cooling only)

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- EWAT-CZN 35
- EWAT-CZH 36
- EWAT-CZP 37
- EWAT-B-SSB/SLB 42
- EWAT-B-SRB 43
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- EWAT-B-XRB 45
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- EWAD-TZXSD 62
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- EWAH-TZXSD 74
- EWAH-TZXRD 76
- EWAH-TZPSD 78
- EWAH-TZPRD 80
- EWFH-TZBSD 102
- EWFH-TZSSD 104
- EWFH-TZXSD 106
- EWFH-TZPSD 108

R-513A

- EWAS-TZBSD 82
- EWAS-TZSSD 84
- EWAS-TZXSD 86
- EWAS-TZXRD 88
- EWAS-TZPSD 90
- EWAS-TZPRD 92
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- EWFS-TZXSD 114
- EWFS-TZPSD 116

Air to water chillers (Heat pump)

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Please consult the Webbased Selection Software Tool for detailed technical information.

EWAA-DV3P

- Inverter controlled swing compressor with refrigerant R-32
- R-32 refrigerant: reduces the environmental impact by 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- Renewed fan shape with improved air circulation
- New casing for the outdoor units
- Improved serviceability with rotatable switchbox
- Separate MMI-2 controller for indoor installation

EWAA

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

EWAA-DV3P

Cooling Only					EWAA-DV3P	004	006	008	011	014	016
Space cooling	A Condition 35°C	Pdc		kW		4,52	5,09	5,44	11,6	12,8	14,0
	ηs,c			%		213	215		229	226	221
SEER							-		5,79(6)	5,71(6)	5,59(6)
Cooling capacity	Nom.			kW		4,86(1)/4,52(2)	5,83(1)/5,09(2)	6,18(1)/5,44(2)	11,6(4)/11,5(5)	12,8(4)/12,7(5)	14,0(4)/15,3(5)
Power input	Cooling	Nom.		kW		0,820(1)/1,36(2)	1,08(1)/1,55(2)	1,19(1)/1,73(2)	3,56(4)/2,17(5)	4,06(4)/2,51(5)	4,58(4)/3,24(5)
	Heating	Nom.		kW		0,840(1)/1,26(2)	1,24(1)/1,69(2)	1,63(1)/2,23(2)		-	
Capacity control	Method							Variable (inverter)			
EER						5,91(1)/3,32(2)	5,40(1)/3,28(2)	5,19(1)/3,14(2)	3,26(4)/5,31(5)	3,16(4)/5,04(5)	3,06(4)/4,74(5)
Dimensions	Unit	Height		mm			770			870	
		Width		mm			1.250			1.380	
		Depth		mm			362			460	
Weight	Unit			kg			88.0			147	
Water heat exchanger	Type							Plate heat exchanger			
	Water volume			l			1			2	
Air heat exchanger	Type						-			High efficiency fin and tube type with integral subcooler	
Compressor	Type						Hermetically sealed swing compressor			Hermetically sealed swing inverter compressor	
	Quantity							1			
Fan	Type							Propeller fan			
	Quantity							1			
	Air flow rate	Cooling	Nom.	m^3/min			-		70	85	
Sound power level	Cooling	Nom.		dBA		61,0(1)	62,0(1)		67,0	69,0	
Sound pressure level	Cooling	Nom.		dBA		48,0(1)	49,0(1)	50,0(1)	47,7	50,8	51,0
Operation range	Air side	Cooling	Min.~Max.	°CDB			10(3)~43			10~43	
	Water side	Cooling	Min.~Max.	°CDB				5~22			
Refrigerant	Type/GWP							R-32/675.0			
	Charge			kg			1.35			-	
	Control						-			Electronic expansion valve	
	Circuits	Quantity					-			1	
Refrigerant charge	Per circuit			kg			-			3.80	
Unit	Running current	Max		A			-			30.8	
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50 /230 +/-10%			1~/50 /230	

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

EWAA-DW1P

- Inverter controlled swing compressor with refrigerant R-32
- R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- Easy installation and maintenance
- Separate MMI-2 controller for indoor installation

EWAA

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

EWAA-DW1P

Cooling Only					EWAA-DW1P	011	014	016
Space cooling	A Condition 35°C	Pdc			kW	11,6	12,8	14,0
	ηs,c				%	229	226	221
SEER						5,79	5,71	5,59
Cooling capacity	Nom.				kW	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)
Power input	Cooling	Nom.			kW	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)
Capacity control	Method					Variable (inverter)		
EER						3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)
Dimensions	Unit	Height			mm	870		
		Width			mm	1.380		
		Depth			mm	460		
Weight	Unit				kg	147		
Water heat exchanger	Type					Plate heat exchanger		
	Water volume				l	2		
Air heat exchanger	Type					High efficiency fin and tube type with integral subcooler		
Compressor	Type					Hermetically sealed swing inverter compressor		
	Quantity					1		
Fan	Type					Propeller fan		
	Quantity					1		
	Air flow rate	Cooling	Nom.		m^3/min	70	85	
Sound power level	Cooling	Nom.			dBA	67,0	69,0	
Sound pressure level	Cooling	Nom.			dBA	47,7	50,8	51,0
Operation range	Air side	Cooling	Min.~Max.		°CDB	10~43		
	Water side	Cooling	Min.~Max.		°CDB	5~22		
Refrigerant	Type/GWP					R-32/675,0		
	Control					Electronic expansion valve		
	Circuits	Quantity				1		
Refrigerant charge	Per circuit				kg	3,80		
	Per circuit				TCO_2Eq	2,6		
Unit	Running current	Max			A	14,0		
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400		

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

EWAA-DV3P-H-

- Inverter controlled swing compressor with refrigerant R-32
- R-32 refrigerant: reduces the environmental impact by 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- Renewed fan shape with improved air circulation
- New casing for the outdoor units
- Improved serviceability with rotatable switchbox
- Separate MMI-2 controller for indoor installation
- Water piping heater tape (OP10-d) as standard for a better insulation of the hydraulic

EWAA

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

EWAA-DV3P-H

Cooling Only				EWAA-DV3P-H-	004	006	008	011	014	016
Space cooling	A Condition 35°C	Pdc		kW	4,52	5,09	5,44	11,6	12,8	14,0
	ηs,c			%	213	215		229	226	221
SEER						-		5,79(6)	5,71(6)	5,59(6)
Cooling capacity	Nom.			kW	4,86(1)/4,52(2)	5,83(1)/5,09(2)	6,18(1)/5,44(2)	11,6(4)/11,5(5)	12,8(4)/12,7(5)	14,0(4)/15,3(5)
Power input	Cooling	Nom.		kW	0,820(1)/1,36(2)	1,08(1)/1,55(2)	1,19(1)/1,73(2)	3,56(4)/2,17(5)	4,06(4)/2,51(5)	4,58(4)/3,24(5)
	Heating	Nom.		kW	0,840(1)/1,26(2)	1,24(1)/1,69(2)	1,63(1)/2,23(2)		-	
Capacity control	Method				Variable (inverter)					
EER					5,91(1)/3,32(2)	5,40(1)/3,28(2)	5,19(1)/3,14(2)	3,26(4)/5,31(5)	3,16(4)/5,04(5)	3,06(4)/4,74(5)
Dimensions	Unit	Height		mm	770			870		
		Width		mm	1.250			1.380		
		Depth		mm	362			460		
Weight	Unit			kg	88.0			147		
Water heat exchanger	Type				Plate heat exchanger					
	Water volume			l	1			2		
Air heat exchanger	Type				-			High efficiency fin and tube type with integral subcooler		
Compressor	Type				Hermetically sealed swing compressor			Hermetically sealed swing inverter compressor		
	Quantity				1					
Fan	Type				Propeller fan					
	Quantity				1					
	Air flow rate	Cooling	Nom.	m^3/min	-			70	85	
Sound power level	Cooling	Nom.		dBA	61,0(1)	62,0(1)		67,0	69,0	
Sound pressure level	Cooling	Nom.		dBA	48,0(1)	49,0(1)	50,0(1)	47,7	50,8	51,0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10(3)~43			10~43		
	Water side	Cooling	Min.~Max.	°CDB	5~22					
Refrigerant	Type/GWP				R-32/675.0					
	Charge			kg	1.35			-		
	Control				-			Electronic expansion valve		
	Circuits	Quantity			-			1		
Refrigerant charge	Per circuit			kg	-			3,80		
Unit	Running current	Max		A	-			30,8		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /230 +/-10%			1~/50 /230		

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

EWAA-DW1P-H-

- Inverter controlled swing compressor with refrigerant R-32
- R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- Easy installation and maintenance
- Separate MMI-2 controller for indoor installation
- Water piping heater tape (OP10) as standard for a better insulation
- of the hydraulic(3)

EWAA

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

EWAA-DW1P-H

Cooling Only					EWAA-DW1P-H	011	014D	016
Space cooling	A Condition 35°C	Pdc			kW	11,6	12,8	14,0
		ηs,c			%	229	226	221
SEER						5,79	5,71	5,59
Cooling capacity	Nom.				kW	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)
Power input	Cooling	Nom.			kW	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)
Capacity control	Method					Variable (inverter)		
EER						3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)
Dimensions	Unit	Height			mm	870		
		Width			mm	1.380		
		Depth			mm	460		
Weight	Unit				kg	147		
Water heat exchanger	Type					Plate heat exchanger		
	Water volume				l	2		
Air heat exchanger	Type					High efficiency fin and tube type with integral subcooler		
Compressor	Type					Hermetically sealed swing inverter compressor		
	Quantity					1		
Fan	Type					Propeller fan		
	Quantity					1		
	Air flow rate	Cooling	Nom.		m^3/min	70	85	
Sound power level	Cooling	Nom.			dBA	67,0	69,0	
Sound pressure level	Cooling	Nom.			dBA	47,7	50,8	51,0
Operation range	Air side	Cooling	Min.~Max.		°CDB	10~43		
	Water side	Cooling	Min.~Max.		°CDB	5~22		
Refrigerant	Type/GWP					R-32/675,0		
	Control					Electronic expansion valve		
	Circuits	Quantity				1		
Refrigerant charge	Per circuit				kg	3,80		
	Per circuit				TCO_2Eq	2,6		
Unit	Running current	Max			A	14,0		
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400		

(1) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB; (3) EWAA-DW1P-H- has water piping heater tape (OP10) as standard

EWAT-CZ scroll inverter chillers

Why choose Daikin chiller & heat pump range?

Low environmental impact

The R-32 Small Inverter Chiller provides the lowest direct and indirect CO_2 emissions levels. That makes it an environmentally friendly series, also thanks to the use of R-32, which is known for being a low GWP and sustainable refrigerant.

Top class efficiency

This new series stands out for being able to provide the best efficiency levels in the market, both in cooling and heating mode, allowing substantial savings on energy bills.

Leadership in R-32 technology

Daikin can count on the highest number of R-32 installations around the world. This not only means being the most experienced, but also being the most knowledgeable and reliable brand producing R-32 technology.

Infinite application possibilities

The R-32 Small Inverter Chiller series has been designed to meet the needs of the widest possible range of applications, from process cooling applications, to residential, commercial and data centers applications. All that to provide customers with an extremely flexible solution to their needs.

Optimized system solutions

The management of multiple units in parallel as well as the advanced control logics for optimizing the heating and cooling production and fulfil domestic hot water needs provide to this new series a full set of key features.

Advanced connectivity

Complexity has been reduced by moving from hardware to software tools. Thanks to a newly designed Configuration App, it is possible to let the units of this series communicate with any external BMS.

Compact design

The new R-32 Small Inverter Chiller comes in three different layouts, all providing a very compact footprint despite the cooling/heating capacity they can deliver. The new series series represents a great solution for projects dealing with space issues.

Widespread support network

Daikin customers, other than benefitting from the quality standards associated with the brand, they can benefit from Daikin's widespread network of installers and after sales support teams around the world.

EWAT-CZN

- 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

EWAT-CZ_R

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

EWAT-CZN

Cooling Only				EWAT-CZN	016	021	025	032	040	040	050	064	090
Space cooling	A Condition 35°C	Pdc		kW	15,9	20,9	25,6	32,4	39,6	41,4	50,8	64,0	88,3
	ηs,c			%	197		200	205	201	213	210	205	198
SEER					5,00		5,06	5,21	5,09	5,41	5,33	5,21	5,03
Cooling capacity	Nom.			kW	15,9	20,9	25,6	32,4	39,6	41,4	50,8	64,0	88,3
Power input	Cooling	Nom.		kW	5,50	6,60	8,50	10,3	13,4	13,2	17,0	21,8	31,0
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2,90	3,16	3,00	3,13	2,95	3,12	2,98	2,93	2,84
IPLV					5,83	6,29	6,05	6,25	5,87	6,37	5,92	5,88	5,61
Dimensions	Unit	Height		mm	1.878								
		Width		mm	1.152			1.752		2.306		2.906	3.506
		Depth		mm	802					814			
Weight	Unit			kg	222	245		340	339	480		574	672
	Operation weight			kg	223	247		343	342	486		580	680
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0,8	1,0	1,2	1,6	1,9	2,0	2,4	3,1	4,2
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76,0		78,0	79,0	80,0		81,0	83,0	85,0
Sound pressure level	Cooling	Nom.		dBA	59,7		61,7	62,2	63,2	62,8	63,8	65,4	67,0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3,00	5,50		7,00	8,00	12,0		13,0	16,0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

EWAT-CZH

- 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
- High lift inverter pump kit option

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

EWAT-CZH

Cooling Only				**EWAT-CZH**	**016**	**021**	**025**	**032**	**040**	**040**	**050**	**064**	**090**
Space cooling	A Condition 35°C	Pdc	kW		16,1	21,1	25,8	32,7	39,9	41,7	51,1	64,3	88,7
	ηs,c		%		205	210	211	224	210	227	213	208	202
Cooling capacity	Nom.		kW		16,2	21,2	25,9	32,8	40,1	41,8	51,3	64,5	88,9
Power input	Cooling	Nom.	kW		5,60	6,70	8,70	10,4	13,5	13,3	17,0	22,0	31,2
Capacity control	Method				Inverter controlled								
	Minimum capacity		%		18	14	12	19	15	14	12	15	14
EER					2,89	3,15	2,98	3,14	2,97	3,15	3,02	2,93	2,85
IPLV					5,83	6,29	6,05	6,25	5,87	6,37	5,92	5,88	5,61
Dimensions	Unit	Height	mm		1.878								
		Width	mm		1.152			1.752		2.306		2.906	3.506
		Depth	mm		802					814			
Weight	Unit		kg		256	278		383	382	531		630	727
	Operation weight		kg		257	280		386	385	537		636	735
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume		l		1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0,8	1,0	1,2	1,6	1,9	2,0	2,4	3,1	4,20
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed		rpm		800	900	700	900	700	900		800	900
Sound power level	Cooling	Nom.	dBA		76,0	78,0	79,0	80,0		81,0		83,0	85,0
Sound pressure level	Cooling	Nom.	dBA		59,7	61,7	62,2	63,2	62,8	63,8		65,4	67,0
Refrigerant	Type/GWP				R-32/675								R-32/675,0
	Charge		kg		3,00	5,50		7,00	8,00	12,0		13,0	16,0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

EWAT-CZP

- 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
- Low lift inverter pump kit option

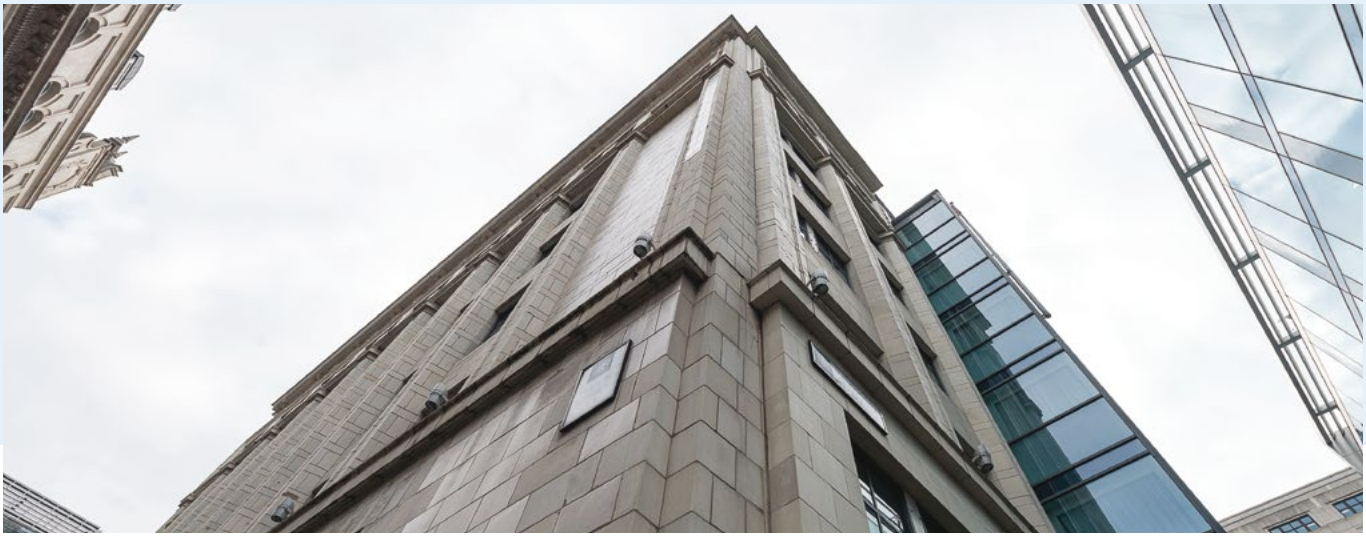
EWAT-CZ_P

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

EWAT-CZP

Cooling Only				EWAT-CZH	16	21	25	32	40	40	50	64	90
Space cooling	A Condition 35°C	Pdc		kW	16,01	21	25,71	32,58	39,81	41,58	50,98	64,28	88,6
	ηs,c			%	809	213		225	211	228	216	211	204
Cooling capacity	Nom.			kW	16,12	21,13	25,85	32,7	39,93	41,7	51,11	64,41	88,77
Power input	Cooling	Nom.		kW	5,45	6,56	8,48	10,28	13,33	13,14	16,89	21,86	31,13
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2,959	3,221	3,049	3,181	2,995	3,172	3,025	2,946	2,852
IPLV					5,83	6,29	6,05	6,25	5,87	6,37	5,92	5,88	5,61
Dimensions	Unit	Height		mm	1.878								
		Width		mm	1.152			1.752		2.306		2.906	3.506
		Depth		mm	802					814			
Weight	Unit			kg	256	278	278	383	382	531	531	630	727
	Operation weight			kg	257	280	280	386	385	537	537	636	735
Water heat exchanger	Type				Brazed plate								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0,8	1	1,2	1,6	1,9	2	2,4	3,1	4,2
	Water pressure drop	Cooling	Nom.	kPa	20,2	11,5	16,5	28,6	37,6	10,1	14,5	22	20,3
Air heat exchanger	Type				Al Fins & Cu Tubes								
Compressor	Type				Scroll								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76		78	79	80		81	83	85
Sound pressure level	Cooling	Nom.		dBA	59,7		61,7	62,2	63,2	62,8	63,8	65,4	67
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3	5		6,5	6,7	10,2	10,2	11,4	14,4
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4 (female)					2" (female)			

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



EWAT-B- Multi scroll air to water chiller with R-32 refrigerant

Why choose EWAT-B- chiller series?

- Environmentally friendly R-32 refrigerant with a low Global Warming Potential (GWP) and low flammability classification
- Wide capacity range: 80 – 1.000 kW
- Microchannel condensing coil, for reduced refrigerant charge
- Silver and Gold efficiency versions combinable with standard or reduced noise execution
- Free cooling unit version available
- Integrated hydronic kit with pumps
- Heat recovery option
- New performance monitoring option
- New Daikin mobile App
- Full compatibility with Daikin on Site

Single V

Modular V

- Brand new layout
- Suitable for Data Center application thanks to the:
  - New hydronic free cooling version available (EWFT-B-C)
  - Extended operating range with chilled water up to 30 °C
  - New rapid re-start option

Extensive option lists

Partial heat recovery

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

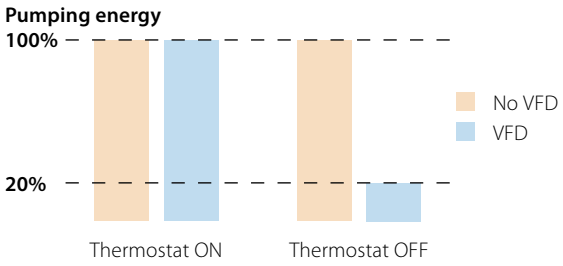
	HR @ 35°C ambient	HR @ 20°C ambient
Current	~ 15%	~ 3%
New	~ 15%	~ 15%

Buffer tank

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

VFD pumps and variable flow control

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



Master/Slave supplied as standard

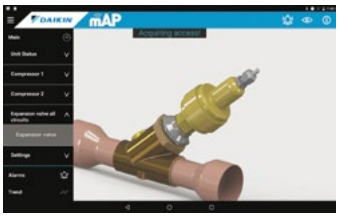
Master/Slave functionality allowing to manage up to 4 units on the same system without the need of external control devices.

Fan Silent Mode

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

Connectivity

mAP



- Android app
- Replicate the controller of the unit
- Operate on the unit by remote smart device (tablet, smartphone, PC)
- Soon available on PlayStore

Daikin on Site

Fully compatible with Daikin on Site cloud based platform that allows a number of advanced functionalities including:

- Remote monitoring,
- System optimization
- Preventive maintenance

Remote access with one click via LAN or GSM modem

Connection to Intelligent Chiller Manager

In case of more complex installations Daikin can offer the Intelligent Chiller Manager option, allowing energy optimisation of the system and, when necessary, full customization of the control solutions to the specific installation's needs

- High number of units
- Peripheral controls

cordeel
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cordeel
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DAIKIN

EWAT-B-SSB/SLB

- R-32 refrigerant: Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A
- Wide capacity with smallest footprint
- Top class efficiency both at full and part load conditions;
- New performance monitoring option
- New Daikin Mobile App
- New rapid re-start option

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

EWAT-B-SS

EWAT-B-SL

Cooling Only				EWAT-B-SS/SL	085	115	135	155	175	195	205	215
Space cooling	A Condition 35°C Pdc			kW	80,92	108,97	131,42	158,15	174,93	191,39	210,53	217,08
	ηs,c			%	161	173	161		176,2	170,6	173	161
	ηs,c + VFDFAN			%	-							
SEER + VFDFAN					4,1	4,4	4,1		4,48	4,34	4,4	4,1
SEER					-							
Cooling capacity	Nom.			kW	81	109	131	158	175	191	211	217
Power input	Cooling	Nom.		kW	31,8	38,5	49,8	61,9	67,8	69,5	80	85,8
Capacity control	Method				Step							
	Minimum capacity			%	50	38	50	25	38	21	19	50
EER					2,55	2,83	2,64	2,55	2,58	2,75	2,63	2,53
IPLV + VFDFAN					4,75	4,83	4,67	4,76	4,81	4,84	4,86	4,7
EER + VFDFAN					-							
IPLV					-							
Dimensions	Unit	Height		mm	1.801			1.822	1.801	1.822		
		Width		mm	1.204							
		Length		mm	2.110	2.650		3.570	3.170	4.170		3.770
Weight (SSB)	Unit			kg	681	767	811	1.007	984	1.166	1.158	1.184
	Operation weight			kg	686	773	821	1.014	996	1.177	1.169	1.200
Weight (SLB)	Unit			kg	691	777	820	1.028	994	1.187	1.179	1.194
	Operation weight			kg	696	783	830	1.035	1.006	1.198	1.190	1.210
Water heat exchanger	Type				Plate Heat Exchanger							
	Water volume			l	5	6	9	7	12	11		16
	Water flow rate	Cooling	Nom.	l/s	3,9	5,2	6,3	7,6	8,4	9,1	10,1	10,4
	Water pressure drop	Cooling	Nom.	kPa	27,3	34,4	26,5	64,2	41,7	45,9	54,4	41,4
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				2			4	2	4		2
Fan	Type				Direct propeller							
	Quantity				4	6		8		10		
	Air flow rate	Nom.		l/s	6.022	9.036		13.354	12.023	16.710		15.057
	Speed			rpm	1.360							
Sound power level (SSB)	Cooling	Nom.		dBA	84,8	88,2	89,7	87,8	91,8	89,9	90,9	93,2
Sound power level (SLB)	Cooling	Nom.		dBA	83,7	86,2	87	86,7	88,8	88,1	88,7	90
Sound pressure level (SSB)	Cooling	Nom.		dBA	67,4	70,5	72	69,5	73,8	71,3	72,3	74,8
Sound pressure level (SLB)	Cooling	Nom.		dBA	66,3	68,5	69,3	68,4	70,7	69,5	70,1	71,6
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	7,5	8,5		13	11	14,5		13
	Circuits	Quantity			1			2	1	2		1
Piping connections	Evaporator water inlet/outlet (OD)			mm	76,1			88,9	76,1	88,9		76,1
Unit	Starting current	Max		A	213	313	324	284	462	384	395	498
	Running current	Cooling	Nom.	A	59	69	83	108	113	117	131	142
		Max		A	73	86	96	143	132	156	167	168
Power supply	Phase/Frequency			Hz	3~/50							

EWAT-B-SRB

Single V

MicroTech 4

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

EWAT-B-SR

Cooling Only				EWAT-B-SR	085	115	135	155	175	195	205	215
Space cooling	A Condition 35°C	Pdc		kW	76,49	105	123,88	150,13	164,87	181,31	200,51	203,5
	ηs,c			%	161	173	161		166,2	162,2	167,8	161
SEER					4,1	4,4	4,1		4,23	4,13	4,27	4,1
Cooling capacity	Nom.			kW	76	105	124	150	165	181	201	204
Power input	Cooling	Nom.		kW	33,7	40,3	53	65,9	73	73,2	84,6	91,9
Capacity control	Method				Step							
	Minimum capacity			%	50	38	50	25	38	21	19	50
EER					2,27	2,61	2,34	2,28	2,26	2,48	2,37	2,21
IPLV					4,71	4,84	4,63	4,62	4,84	4,64	4,91	4,66
Dimensions	Unit	Height		mm	1.801			1.822	1.801	1.822		
		Width		mm	1.204							
		Length		mm	2.110	2.650		3.570	3.170	4.170		3.770
Weight	Unit			kg	691	777	821	1.028	994	1.187	1.179	1.194
	Operation weight			kg	696	783	830	1.035	1.006	1.198	1.190	1.210
Water heat exchanger	Type				Plate Heat Exchanger							
	Water volume			l	5	6	9	7	12	11		16
	Water flow rate	Cooling	Nom.	l/s	3,7	5	5,9	7,2	7,9	8,7	9,6	9,7
	Water pressure drop	Cooling	Nom.	kPa	24,6	32,2	23,8	58,5	37,5	41,6	49,9	36,8
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				2			4	2	4		2
Fan	Type				Direct propeller							
	Quantity				4	6		8		10		
	Air flow rate	Nom.		l/s	4.929	7.396		11.352	9.838	14.202		12.325
	Speed			rpm	1.200							
Sound power level	Cooling	Nom.		dBA	77	82,5	84,1	81,6	86,3	83,9	85,2	87,8
Sound pressure level	Cooling	Nom.		dBA	61,2	64,7	66,4	63,3	68,3	65,3	66,6	69,4
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	7,5	8,5		13	11	14,5		13
	Circuits	Quantity			1			2	1	2		1
Piping connections	Evaporator water inlet/outlet (OD)			mm	76,1			88,9	76,1	88,9		76,1
Unit	Starting current	Max		A	213	313	324	284	462	384	395	498
	Running current	Cooling	Nom.	A	62	71	87	115	119	123	139	151
		Max		A	73	86	96	143	132	156	167	168
Power supply	Phase/Frequency			Hz	3~/50							

EWAT-B-XSB/XLB

- R-32 refrigerant: Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A
- Wide capacity with smallest footprint
- Top class efficiency both at full and part load conditions;
- New performance monitoring option
- New Daikin Mobile App
- New rapid re-start option

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

EWAT-B-XSB

EWAT-B-XLB

Cooling Only					**EWAT-B-XSB/XLB**	**085**	**115**	**145**	**185**
Space cooling	A Condition 35°C	Pdc			kW	87,9	113,89	143,48	182,67
	ηs,c				%	167	183	175	175,8
	ηs,c + VFDFAN				%		-		-
SEER						4,25	4,65	4,45	4,47
SEER + VFDFAN							-		-
Cooling capacity	Nom.				kW	88	114	143	183
Power input	Cooling	Nom.			kW	28,8	36,6	44,4	63,6
Capacity control	Method					Step			
	Minimum capacity				%	50	38	50	38
EER						3,05	3,12	3,23	2,87
IPLV + VFDFAN						4,83	4,90	4,88	4,74
EER + VFDFAN							-		-
IPLV							-		-
Dimensions	Unit	Height			mm	1.801		1.822	1.822
		Width			mm	1.204			1.204
		Length			mm	2.650	3.170	3.770	3.770
Weight (XSB)	Unit				kg	737	830	949	1.066
	Operation weight				kg	742	836	958	1.078
Weight (XLB)	Unit				kg	747	840	959	1.076
	Operation weight				kg	752	846	968	1.088
Water heat exchanger	Type					Brazed plate			
	Water volume				l	5	6	9	12
	Water flow rate	Cooling	Nom.		l/s	4,2	5,4	6,9	8,7
	Water pressure drop	Cooling	Nom.		kPa	31,6	37,3	31	45,1
Air heat exchanger	Type					Microchannel			
Compressor	Type					Scroll compressor			
	Quantity					2			2
Fan	Type					Direct propeller			
	Quantity					6	8	10	10
	Air flow rate	Nom.			l/s	9.036	12.023	15.057	15.057
	Speed				rpm	1.360			1.360
Sound power level (XSB)	Cooling	Nom.			dBA	86	88,8	90,5	92,1
Sound power level (XLB)	Cooling	Nom.			dBA	85,2	87,1	88,5	89,3
Sound pressure level (XSB)	Cooling	Nom.			dBA	68,3	70,8	72,2	73,7
Sound pressure level (XLB)	Cooling	Nom.			dBA	67,5	69,1	70,1	70,9
Refrigerant	Type/GWP					R-32/675			
	Charge				kg	9	10	11	12
	Circuits	Quantity				1			1
Piping connections	Evaporator water inlet/outlet (OD)				mm	76,1			76,1
Unit	Starting current	Max			A	215	315	328	464
	Running current	Cooling	Nom.		A	56	67	78	108
		Max			A	75	87	100	134
Power supply	Phase/Frequency				Hz	3~/50			

EWAT-B-XRB

Single V

MicroTech 4

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

EWAT-B-XRB

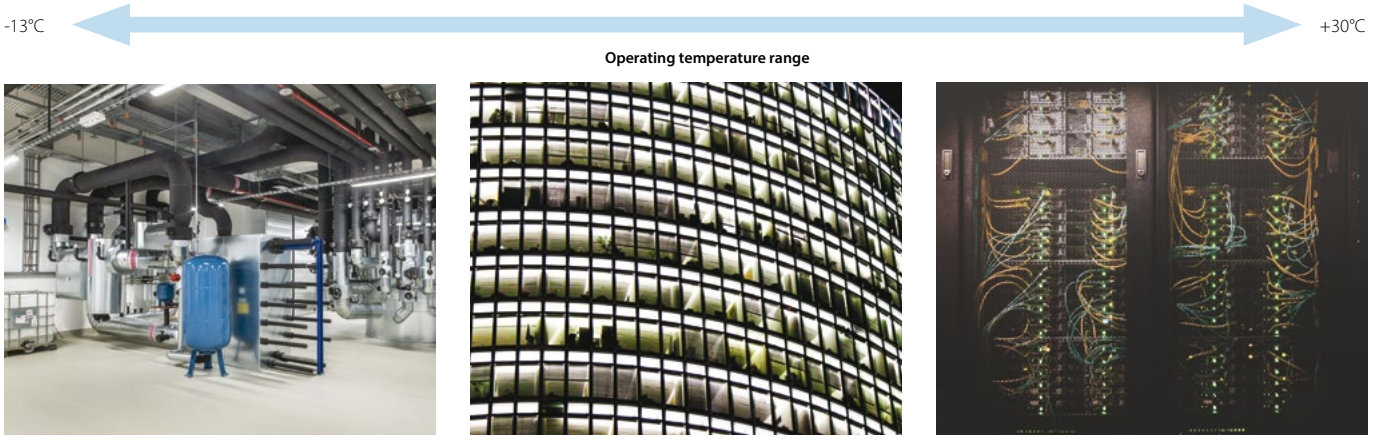
Cooling Only				EWAT-B-XRB	085	115	145	185
Space cooling	A Condition 35°C	Pdc		kW	81,86	108,59	135,62	166,16
	ηs,c			%	150,6	179,4	166,6	164,6
SEER					4,13	4,56	4,24	4,19
Cooling capacity	Nom.			kW	82	109	136	166
Power input	Cooling	Nom.		kW	30,8	38,9	46,9	70,5
Capacity control	Method				Step			
	Minimum capacity			%	50	38	50	38
EER					2,66	2,79	2,89	2,36
IPLV					4,74	4,91	4,70	4,72
Dimensions	Unit	Height		mm	1.801		1.822	1.822
		Width		mm	1.204			1.204
		Length		mm	2.650	3.170	3.770	3.770
Weight	Unit			kg	747	840	959	1.076
	Operation weight			kg	752	846	968	1.088
Water heat exchanger	Type				Plate Heat Exchanger			
	Water volume			l	5	6	9	12
	Water flow rate	Cooling	Nom.	l/s	3,9	5,2	6,5	7,9
	Water pressure drop	Cooling	Nom.	kPa	27,8	34,2	28	38
Air heat exchanger	Type				Microchannel			
Compressor	Type				Scroll compressor			
	Quantity				2			2
Fan	Type				Direct propeller			
	Quantity				6	8	10	10
	Air flow rate	Nom.		l/s	6.673	8.896	11.122	11.122
	Speed			rpm	1.108			1.108
Sound power level	Cooling	Nom.		dBA	77,9	81,9	84	86
Sound pressure level	Cooling	Nom.		dBA	60,2	63,9	65,6	67,7
Refrigerant	Type/GWP				R-32/675			
	Charge			kg	9	10	11	20
	Circuits	Quantity			1			1
Piping connections	Evaporator water inlet/outlet (OD)			mm	76,1			76,1
Unit	Starting current	Max		A	215	315	328	464
	Running current	Cooling	Nom.	A	59	71	83	118
		Max		A	75	87	100	134
Power supply	Phase/Frequency			Hz	3~/50			

EWAT-B-C

New Air to water Scroll Series

Suitable for data center, comfort and process applications

EWAT-B-C chillers are versatile and well-suited for various applications, thanks to their wide operating temperature range. They can effectively handle comfort, brine, and high-temperature process applications.



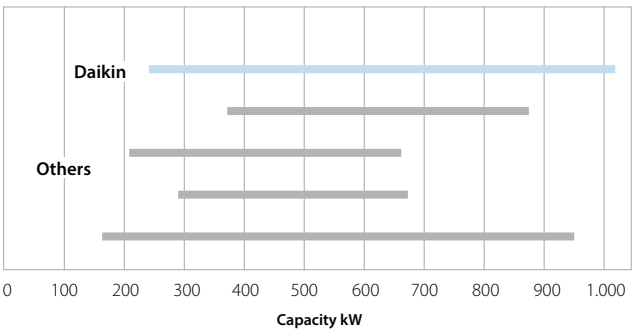
Process cooling

Comfort cooling

Datacenter cooling

Large capacity

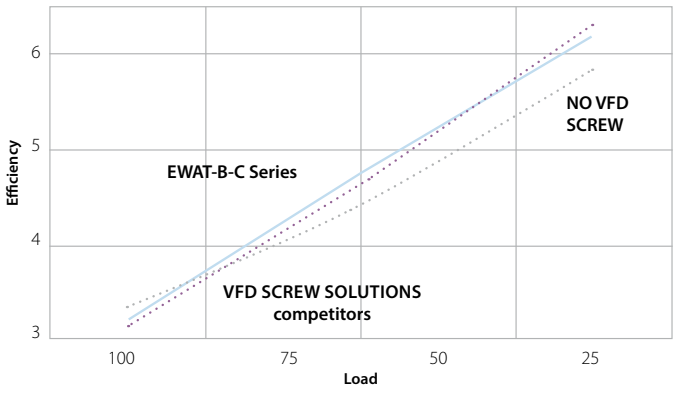
Daikin EWAT-B-C is available in large range of capacity, up to 1.012 kW*

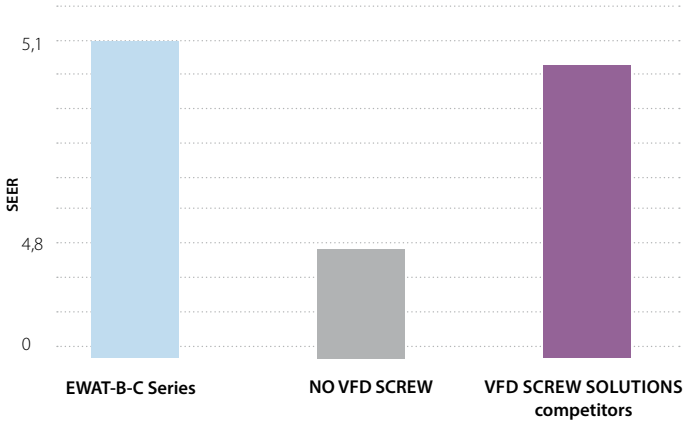


*Referred to standard rating conditions.

Best efficiency

EWAT-B-C chillers efficiency levels are comparable with VFD SCREW from competition offering a competitive alternative without compromising system performance.





Large capacity, small footprint

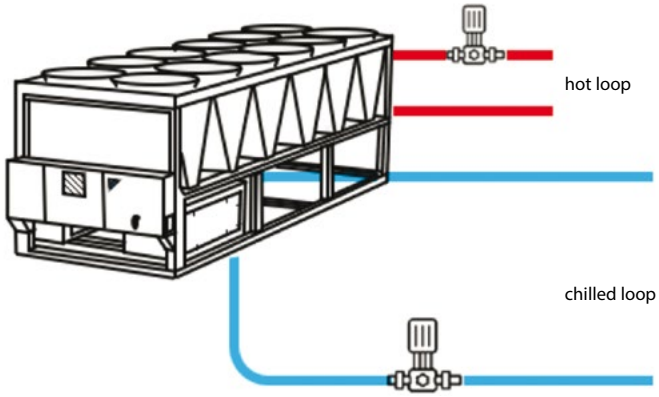
The EWAT-B-C chiller, thanks to the extended capacity and compact dimensions, offers a wide range of solutions with opportunities to deal with a great variety of projects.

Suitable for critical applications such as data centers

Capacity can be fully restored within just 180 seconds after power is restored.

Heat recovery

Decarbonization process requires alternative and high efficiency heat sources.
The EWAT-B-C chiller can be equipped with heat recovery capability generating free heating while producing the required cooling energy



EWAT-B-SSC

- R-32 refrigerant: Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A
- Wide capacity with smallest footprint
- Top class efficiency both at full and part load conditions;
- New performance monitoring option
- New Daikin Mobile App
- New rapid re-start option

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

EWAT-B-SSC

Cooling Only				EWAT-B-SSC	250	270	310	320	350	380	430	480
Space cooling	A Condition 35°C Pdc			kW	241,8	253	305,92	317,98	345,59	381,40	426,61	477,56
	ηs,c			%	185,4	182,2	184,6	177,7	181,2	183,0	184,9	183,0
SEER					4,71	4,63	4,689	4,517	4,604	4,649	4,698	4,649
Cooling capacity	Nom.			kW	241,8	253	305,92	317,98	345,59	381,40	426,61	477,56
Power input	Cooling	Nom.		kW	80,77	86,82	106,6	115,0	130,0	125,2	148,6	176,0
Capacity control	Method				Step							
	Minimum capacity			%	17	25	22	21	19	18	16	14
EER					2,994	2,914	2,869	2,764	2,658	3,046	2,871	2,714
IPLV					5,08	5,07	4,948	4,794	4,948	4,849	4,907	4,940
Dimensions	Unit	Height		mm	2.535							
		Width		mm	2.238							
		Depth		mm	2,514					3,594		
Weight	Unit			kg	2.019	2.063	2.076	2,118	2.200	2,618	2,801	2,924
	Operation weight			kg	2.039	2.083	2.099	2.146	2.228	2.646	2.837	2.960
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				4		3	4	3	4		5
Fan	Type				Direct propeller							
	Quantity				4					6		
	Air flow rate	Cooling	Nom.	l/s	25.500		25.490	25.500	25.490	38.240		
Sound power level	Cooling	Nom.		dBA	92	93	94,0	93,8	94,5	95,1	95,6	95,9
Sound pressure level	Cooling	Nom.		dBA	73	74	74,9	74,7	75,5	75,4	75,9	76,2
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20~52							
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	18	18	22,0	25,0	30,0	31,0	35,0	39,0
	Circuits	Quantity			2	2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9							
Unit	Starting current	Max		A	464	482	693	697	735	750	792	838
	Running current	Cooling	Nom.	A	152	163	186	200	224	222	260	304
		Max		A	199	216	245	249	287	302	344	390
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400							

Cooling Only				EWAT-B-SSC	570	620	670	730	790	860	960
Space cooling	A Condition 35°C Pdc			kW	567,34	622,34	668,92	734,97	791,18	857,22	961,63
	ηs,c			%	190,4	188,9	188,1	190,4	190,8	192,6	189,0
SEER					4,834	4,797	4,778	4,834	4,844	4,889	4,801
Cooling capacity	Nom.			kW	567,34	622,34	668,92	734,97	791,18	857,22	961,63
Power input	Cooling	Nom.		kW	185,5	213,1	237,0	248,6	273,9	285,5	335,1
Capacity control	Method				Step						
	Minimum capacity			%	22	20	18	17	15	14	25
EER					3,058	2,921	2,823	2,957	2,889	3,002	2,870
IPLV					5,062	5,073	5,088	5,120	5,092	5,122	5,079
Dimensions	Unit	Height		mm	2.535						
		Width		mm	2.238						
		Depth		mm	4.674			5.574	5.848	6.928	
Weight	Unit			kg	3.495	3.670	3.779	4.308	4.666	5.119	5.313
	Operation weight			kg	3.555	3.747	3.856	4.385	4.743	5.196	5.412
Air heat exchanger	Type				Microchannel						
Compressor	Type				Scroll compressor						
	Quantity				5	6			7		8
Fan	Type				Direct propeller						
	Quantity				8	8		10	10	12	
	Air flow rate	Cooling	Nom.	l/s	50.980	50.980		63.730	63.730	76.480	
Sound power level	Cooling	Nom.		dBA	96,7	97,0	97,3	97,9	98,1	98,6	99,0
Sound pressure level	Cooling	Nom.		dBA	76,5	76,7	77,0	77,2	77,4	77,5	77,8
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20~52						
Refrigerant	Type/GWP				R-32/675						
	Charge			kg	45,0	50,0	53,0	59,0	63,0	68,0	77,0
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7						
Unit	Starting current	Max		A	891	936	979	1.032	1.079	1.132	1.220
	Running	Cooling	Nom.	A	329	374	413	438	479	505	585
	current	Max		A	443	488	531	584	631	684	772
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400						

EWAT-B-SRC

RC

MicroTech 4

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

EWAT-B-SRC

Cooling Only					EWAT-B-SRC	250	270	310	320	350	380	430	480
Space cooling	A Condition 35°C	Pdc		kW		240,1	259,9	297,62	308,38	334,14	373,60	415,25	463,29
	ηs,c			%		201,4	187,4	197,5	185,0	189,2	192,8	193,5	193,1
SEER						5,11	4,76	5,013	4,700	4,806	4,895	4,913	4,902
Cooling capacity	Nom.			kW		240,1	259,9	297,62	308,38	334,14	373,60	415,25	463,29
Power input	Cooling	Nom.		kW		83,45	93,89	108,0	117,1	133,5	124,4	149,9	179,2
Capacity control	Method					Step							
	Minimum capacity			%		17	25	22	21	19	18	16	14
EER						2,877	2,768	2,757	2,634	2,502	3,003	2,771	2,586
IPLV						5,54	5,34	5,485	4,999	5,319	5,324	5,339	5,382
Dimensions	Unit	Height		mm		2,535							
		Width		mm		2,238							
		Depth		mm		2.514						3.594	
Weight	Unit			kg		2.107	2.151	2.076	2,206	2.200	2.618	2.801	2.924
	Operation weight			kg		2.127	2.171	2.099	2.234	2.228	2.646	2.837	2.960
Air heat exchanger	Type					Microchannel							
Compressor	Type					Scroll compressor							
	Quantity					4		3			4		5
Fan	Type					Direct propeller							
	Quantity					5	6	4			6		
	Air flow rate	Cooling	Nom.	l/s		21.460		21.470	21.460	21.470	32.200		
Sound power level	Cooling	Nom.		dBA		88		87,9	87,8	88,1	89,5	89,6	89,7
Sound pressure level	Cooling	Nom.		dBA		68	69	68,8		69,0	69,8	69,9	70,0
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~52							
Refrigerant	Type/GWP					R-32/675							
	Charge			kg		18		22	25	30	31	35	39
	Circuits	Quantity				2		1	2	1		2	
Piping connections	Evaporator water inlet/outlet (OD)			mm		88.9							
Unit	Starting current	Max		A		464	482	693	697	735	750	792	838
	Running current	Cooling	Nom.	A		151	165	195	210	236	232	272	319
		Max		A		199	216	245	249	287	302	344	390
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400							

Cooling Only					EWAT-B-SRC	570	620	670	730	790	860	960
Space cooling	A Condition 35°C	Pdc		kW		553,35	605,02	647,77	714,95	768,57	835,75	933,57
	ηs,c			%		202,0	200,3	197,9	205,2	206,3	208,4	201,8
SEER						5,124	5,083	5,022	5,206	5,232	5,284	5,121
Cooling capacity	Nom.			kW		553,35	605,02	647,77	714,95	768,57	835,75	933,57
Power input	Cooling	Nom.		kW		186,4	216,0	242,2	251,4	278,3	287,5	341,0
Capacity control	Method					Step						
	Minimum capacity			%		22	20	18	17	15	14	25
EER						2,969	2,801	2,674	2,844	2,762	2,907	2,738
IPLV						5,557	5,557	5,525	5,650	5,484	5,630	5,550
Dimensions	Unit	Height		mm		2.535						
		Width		mm		2.238						
		Depth		mm		4.674			5.754	5.848	6.928	
Weight	Unit			kg		3.495	3.670	3.779	4.308	4.666	5.119	5.313
	Operation weight			kg		3.555	3.747	3.856	4.385	4.743	5.196	5.412
Air heat exchanger	Type					Microchannel						
Compressor	Type					Scroll compressor						
	Quantity					5	6			7		8
Fan	Type					Direct propeller						
	Quantity					8	8		10	10	12	
	Air flow rate	Cooling	Nom.	l/s		42.940	42.940		53.670	53.670	64.400	
Sound power level	Cooling	Nom.		dBA		90,8	90,9	91,0	91,9	91,9	92,6	92,7
Sound pressure level	Cooling	Nom.		dBA		70,6	70,7	70,8	71,2	71,2	71,5	71,6
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~52						
Refrigerant	Type/GWP					R-32/675						
	Charge			kg		45	50	53	59	63	68	77
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)			mm		139,7						
Unit	Starting current	Max		A		891	936	979	1.032	1.078	1.131	1.219
	Running current	Cooling	Nom.	A		344	392	434	459	503	529	615
		Max		A		443	488	531	584	630	683	771
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

EWAT-B-XSC

- R-32 refrigerant: Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A
- Wide capacity with smallest footprint
- Top class efficiency both at full and part load conditions;
- New performance monitoring option
- New Daikin Mobile App
- New rapid re-start option

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

EWAT-B-XSC

Cooling Only				EWAT-B-XSC	180	210	230	250	250	290	320	320	350	370	10
Space cooling	A Condition 35°C	Pdc		kW	182,9	205	221,3	246,7	252,39	287,1	321,5	324,44	334,1	371,33	1.009,36
		ηs,c		%	181,4	185,4	186,6	187,4	181,8	187,8	188,6	188,6	118,6	187,4	193,4
SEER					4,61	4,71	4,74	4,76	4,620	4,77	4,79	4,789	4,79	4,759	4,910
Cooling capacity	Nom.			kW	182,9	205	221,3	246,7	252,39	287,1	321,5	324,44	334,1	371,33	1.009,00
Power input	Cooling	Nom.		kW	56,73	63,41	67,74	81,48	79,1	93,7	101,6	100,0	110	118,8	315,7
Capacity control	Method				Step										
	Minimum capacity			%	25	21	19	17	50	25	13	22	20	19	25
EER					3,225	3,233	3,267	3,028	3,189	3,064	3,165	3,245	3,036	3,126	3,197
IPLV					4,91	5,09		5,2	4,907	5,22	5,01	5,002	5,21	5,051	5,126
Dimensions	Unit	Height		mm	2.535										
		Width		mm	2.238										
		Depth		mm	2.514							3.594			9.088
Weight	Unit			kg	1.877	1.939	2.002	2.046	1.963	2.488	2.664	2.466	2.666	2.585	6.251
	Operation weight			kg	1.891	1.959	2.030	2.074	1.986	2.516	2.692	2.489	2.694	2.610	6.350
Air heat exchanger	Type				Microchannel										
Compressor	Type				Scroll compressor										
	Quantity				4				2	5		3	5	3	8
Fan	Type				Direct propeller										
	Quantity				4					6					16
	Air flow rate	Cooling	Nom.	l/s	25.500				25.490	38.240					101.980
Sound power level	Cooling	Nom.		dBA	91	92			93,5	94		94,8		95,3	99,5
Sound pressure level	Cooling	Nom.		dBA	72	73			74,4	74		75,1		75,6	77,6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52										
Refrigerant	Type/GWP				R-32/675										
	Charge			kg	19,2				33,1			50,0	44,0	55,0	75,0
	Circuits	Quantity			2				1	2	2	2			2
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9										139,7
Unit	Starting current	Max		A	304	429	468	464	647	492	532	703	540	746	1.240
	Running current	Cooling	Nom.	A	112	125	134	154	142	175	190	181	209	212	567
		Max		A	146	162	181	199	199	227	257	255	275	298	792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

Cooling Only				EWAT-B-XSC	390	450	510	540	590	630	720	760	830	880
Space cooling	A Condition 35°C	Pdc		kW	387,85	448,05	512,31	539,39	586,74	631,42	716,56	762,50	834,45	880,39
		ηs,c		%	184,9	187,4	189,4	192,5	192,4	192,6	193,9	194,2	193,8	193,5
SEER					4,697	4,760	4,810	4,887	4,884	4,890	4,923	4,930	4,920	4,913
Cooling capacity	Nom.			kW	387,85	448,05	512,31	539,39	586,74	631,42	716,56	762,50	834,45	880,39
Power input	Cooling	Nom.		kW	125,6	140,5	158,0	160,2	178,6	197,1	218,1	236,9	257,3	276,1
Capacity control	Method				Step									
	Minimum capacity			%	18	16	25	14	22	20	18	17	15	14
EER					3,088	3,189	3,242	3,368	3,285	3,203	3,285	3,219	3,243	3,189
IPLV					4,895	4,977	5,068	5,091	5,117	5,109	5,141	5,165	5,130	5,146
Dimensions	Unit	Height		mm	2.535									
		Width		mm	2.238									
		Depth		mm	3.594	4.674		5.754			6.834		8.008	
Weight	Unit			kg	2.657	3.169	3.359	3.804	3.916	4.024	4.565	4.673	5.442	5.551
	Operation weight			kg	2.693	3.205	3.419	3.864	3.979	4.084	4.642	4.750	5.519	5.628
Air heat exchanger	Type				Microchannel									
Compressor	Type				Scroll compressor									
	Quantity				4			5			6		7	
Fan	Type				Direct propeller									
	Quantity				6	8		10			12		14	
	Air flow rate	Cooling	Nom.	l/s	38.240	50.980		63.730			76.480		89.230	
Sound power level	Cooling	Nom.		dBA	95,1	96,1	96,5	96,9	97,2	97,5	98,0	98,3	98,7	98,9
Sound pressure level	Cooling	Nom.		dBA	75,4	75,9	76,3	76,2	76,5	76,8	76,9	77,1	77,2	77,4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52									
Refrigerant	Type/GWP				R-32/675									
	Charge			kg	30,5	35,0	39,5	42,0	45,0	49,0	55,0	57,5	62,5	67,0
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9		139,7							
Unit	Starting current	Max		A	750	803	845	858	901	944	999	1.042	1.142	
	Running current	Cooling	Nom.	A	223	252	284	292	323	354	394	425	464	495
		Max		A	302	355	397	410	453	496	551	594	694	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400									

EWAT-B-XRC

EWAT-B-XRC

MicroTech 4

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

EWAT-B-XRC

Cooling Only					EWAT-B-XRC	180	210	230	250	250	290	320	320	350	370	10
Space cooling	A Condition 35°C	Pdc		kW		169,8	192,1	220,5	239,4	241,40	274,5	313,20	286,2	326,9	355,68	965,50
	ηs,c			%		200,6	201,4	204,6	197,4	195,6	203,4	204,4	207	202,2	202,6	206,2
SEER						5,09	5,11	5,19	5,01	4,965	5,16	5,186	5,25	5,13	5,140	5,229
Cooling capacity	Nom.			kW		169,8	192,1	220,5	239,4	241,40	274,5	313,20	286,2	326,9	355,68	965,50
Power input	Cooling	Nom.		kW		51,15	61,78	70,9	85,68	81,1	91,3	99,9	93,11	115	121,4	323,5
Capacity control	Method					Step										
	Minimum capacity			%		25	21	19	17	50	25	22	13	20	19	25
EER						3,319	3,11		2,794	2,977	3,006	3,135	3,074	2,842	2,929	2,985
IPLV						5,51	5,59	5,5	5,51	5,340	5,77	5,525	5,67	5,72	5,487	5,576
Dimensions	Unit	Height		mm		2.535										
		Width		mm		2.238										
		Depth		mm		2.514				2.510		3.594				9.090
Weight	Unit			kg		1.965	2.026	2.090	2.134	1.963	2.604	2.576	2.831	2.833	2.585	6.251
	Operation weight			kg		1.979	2.046	2.118	2.162	1.968	2.604	2.604	2.831	2.833	2.610	6.350
Air heat exchanger	Type					Microchannel										
Compressor	Type					Scroll compressor										
	Quantity					4				2	4	3	5	5	3	8
Fan	Type					Direct propeller										
	Quantity					4					6					16
	Air flow rate	Cooling	Nom.	l/s		18.900					28.350					75.600
Sound power level	Cooling	Nom.		dBA		83				84,0	85	85,4	85	85	85,7	90,0
Sound pressure level	Cooling	Nom.		dBA		64				64,9	64	65,7	65	65	66,0	68,1
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~52										
Refrigerant	Type/GWP					R-32/675										
	Charge			kg		19,2				44,0	33,1	50,0	33,1	33,1	55,0	75,0
	Circuits	Quantity				2				1	2		2	2	1	2
Piping connections	Evaporator water inlet/outlet (OD)			mm		88,9										139,7
Unit	Starting current	Max		A		304	429	446	464	647	492	703	523	540	746	1.240
	Running current	Cooling	Nom.	A		103	119	131	152	143	164	178	205	205	213	570
		Max		A		146	163	181	199	199	227	255	275	275	298	792
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400										

Cooling Only					EWAT-B-XRC	390	450	510	540	590	630	720	760	830	880
Space cooling	A Condition 35°C	Pdc		kW		370,32	431,43	489,48	520,68	563,54	603,94	687,57	728,98	800,94	842,34
	ηs,c			%		196,2	203,3	201,3	208,2	207,8	206,5	208,6	207,0	210,0	208,8
SEER						4,979	5,158	5,108	5,279	5,270	5,237	5,291	5,249	5,324	5,294
Cooling capacity	Nom.			kW		370,32	431,43	489,48	520,68	563,54	603,94	687,57	729,00	800,94	842,34
Power input	Cooling	Nom.		kW		129,1	141,4	162,1	159,6	180,7	202,0	221,3	242,8	261,1	282,2
Capacity control	Method					Step									
	Minimum capacity			%		18	16	25	14	22	20	18	17	15	14
EER						2,869	3,052	3,019	3,262	3,119	2,990	3,107	3,003	3,067	2,979
IPLV						5,317	5,446	5,528	5,630	5,620	5,601	5,649	5,605	5,613	5,605
Dimensions	Unit	Height		mm		2.535									
		Width		mm		2.238									
		Depth		mm		3.590	4.670		5.750			6.830		8.010	
Weight	Unit			kg		2.657	3.169	3.359	3.804	3.916	4.024	4.565	4.673	5.442	5.551
	Operation weight			kg		2.693	3.205	3.419	3.864	3.976	4.084	4.642	4.750	5.519	5.628
Air heat exchanger	Type					Microchannel									
Compressor	Type					Scroll compressor									
	Quantity					4			5			6		7	
Fan	Type					Direct propeller									
	Quantity					6	8		10			12		14	
	Air flow rate	Cooling	Nom.	l/s		28.350	37.800		47.250			56.700		66.150	
Sound power level	Cooling	Nom.		dBA		85,6	86,8	87,0	87,6	87,8	87,9	88,6	88,7	89,3	89,4
Sound pressure level	Cooling	Nom.		dBA		65,9	66,5	66,7	66,9	67,1	67,2	67,5	67,6	67,7	67,8
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~52									
Refrigerant	Type/GWP					R-32/675									
	Charge			kg		30,5		39,5	42,0	45,0	49,0	55,0	57,5	62,5	67,0
	Circuits	Quantity				2									
Piping connections	Evaporator water inlet/outlet (OD)			mm		88,9		139,7							
Unit	Starting current	Max		A		750	803	845	858	901	944	999	1.042	1.142	
	Running	Cooling	Nom.	A		225	249	286	287	322	356	393	428	463	498
	current	Max		A		302	355	397	410	453	496	551	594	694	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400									

EWFT-B-SSC

- R-32 refrigerant: Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A
- Wide capacity with smallest footprint
- Top class efficiency both at full and part load conditions;
- New performance monitoring option
- New Daikin Mobile App
- New rapid re-start option

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

EWFT-B-SSC

Cooling Only				**EWFT-B-SSC**	**250**	**270**	**310**	**320**	**350**	**380**	**430**	**480**
SEER					4,815	4,545	4,833	4,546	4,641	4,688	4,73	4,742
Cooling capacity	Nom.			kW	339,55	363,1	395,2	351,7	439,1	499,3	493,6	553,8
Power input	Cooling	Nom.		kW	93,03	103,68	121,6	95,91	151,7	138,4	131,3	164,2
Capacity control	Method				Step							
	Minimum capacity			%	17	25	39	21	33	18	16	14
EER					3,65	3,502	3,25	3,667	2,894	3,608	3,76	3,373
IPLV					5,287	5,074	5,259	4,869	5,080	5,078	5,086	5,122
Dimensions	Unit	Height		mm	2.535							
		Width		mm	2.238							
		Depth		mm	2.514					3.594		
Weight	Unit			kg	2.186	2.232	2.245	2.288	2.373	2.852	3.012	3.155
	Operation weight			kg	2.326	2.372	2.388	2.436	2.521	3.023	3.198	3.341
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				4		3	4	3	4		5
Fan	Type				Direct propeller							
	Quantity				4					6		
	Air flow rate	Cooling	Nom.	l/s	22.500		22.510			33.765		
Sound power level	Cooling	Nom.		dBA	92	93	94	93,8	94,5	95,1	95,6	95,9
Sound pressure level	Cooling	Nom.		dBA	73	74	74,9	74,7	75,5	75,4	75,9	76,2
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46							
Refrigerant	Type/GWP				R-32/675,0							
	Charge			kg	20,0	22,0		25,0	30,0	31,0	35,0	39,0
	Circuits	Quantity			2		1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9							
Unit	Starting current	Max		A	464	482	693	697	735	750	792	838
	Running	Cooling	Nom.	A	166	183	216,2	174,1	264,3	252,3	240,2	294,4
	current	Max		A	199	216	245	249	287	302	344	390
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400							

Cooling Only				**EWFT-B-SSC**	**570**	**620**	**670**	**730**	**790**	**860**	**960**
SEER					4,921	4,879	4,815	5,014	5,049	5,076	4,93
Cooling capacity	Nom.			kW	738,6	803,5	749,6	843,7	1,018	1,112	1,235
Power input	Cooling	Nom.		kW	211	245,1	211,9	220,9	316,1	325,1	387,5
Capacity control	Method				Step						
	Minimum capacity			%	22	20	18	17	15	14	25
EER					3,501	3,278	3,538	3,819	3,222	3,422	3,188
IPLV					5,284	5,275	5,241	5,392	5,307	5,381	5,312
Dimensions	Unit	Height		mm	2.535						
		Width		mm	2.238						
		Depth		mm	4.674			5.754	5.848	6.928	
Weight	Unit			kg	3.774	3.953	4.056	4.667	5.035	5.546	5.860
	Operation weight			kg	4.044	4.223	4.343	5.054	5.422	5.975	6.311
Air heat exchanger	Type				Microchannel						
Compressor	Type				Scroll compressor						
	Quantity				5	6			7		8
Fan	Type				Direct propeller						
	Quantity				8			10	10	12	
	Air flow rate	Cooling	Nom.	l/s	45.020			56.275	56.275	67.530	
Sound power level	Cooling	Nom.		dBA	96,7	97	97,3	97,9	98,1	98,6	99
Sound pressure level	Cooling	Nom.		dBA	76,5	76,7	77,0	77,2	77,4	77,5	77,8
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-32/675,0						
	Charge			kg	45,0	50,0	53	59,0	63,0	68,0	77,0
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7						
Unit	Starting current	Max		A	891	936	979	1.032	1.079	1.132	1.220
	Running	Cooling	Nom.	A	378,9	435	380,3	403,2	559	581,8	683,6
	current	Max		A	443	488	531	584	631	684	772
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400						

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

EWFT-B-SRC

EWFT-B-SRC

MicroTech 4

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

EWFT-B-SRC

Cooling Only				EWFT-B-SRC	250	270	310	320	350	380	430	480
SEER					4,875	4,508	4,778	4,329	4,602	4,713	4,715	4,662
Cooling capacity	Nom.			kW	328,38	351,64	395,2	408,4	439,1	480,6	544,2	598,2
Power input	Cooling	Nom.		kW	97,44	111,63	121,6	131,1	151,7	143,7	167,5	204,3
Capacity control	Method				Step							
	Minimum capacity			%	17	25	39	21	33	18	16	14
EER					3,37	3,15	3,25	3,115	2,894	3,344	3,249	2,928
IPLV					5,273	5,051	5,281	4,858	5,084	5,074	5,096	5,148
Dimensions	Unit	Height		mm	2.535							
		Width		mm	2.238							
		Depth		mm	2.514					3.594		
Weight	Unit			kg	2.277	2.232	2.336	2.379	2.464	2.942	3.134	3.298
	Operation weight			kg	2.417	2.372	2.479	2.527	2.612	3.113	3.320	3.484
Air heat exchanger	Type				Microchannel							
Compressor	Type				Scroll compressor							
	Quantity				4		3	4	3	4		5
Fan	Type				Direct propeller							
	Quantity				4					6		
	Air flow rate	Cooling	Nom.	l/s	18.940		22.510			33.765		
Sound power level	Cooling	Nom.		dBA	88		87,9	87,8	88,1	89,5	89,6	89,7
Sound pressure level	Cooling	Nom.		dBA	68		68,8		69,0	69,8	69,9	70,0
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~ 46							
Refrigerant	Type/GWP				R-32/675							
	Charge			kg	20,0		22,0	25,0	30,0	31,0	35,0	39,0
	Circuits	Quantity			2		1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9							
Unit	Starting current	Max		A	464	482	693	697	735	750	792	838
	Running	Cooling	Nom.	A	169	192	229,6	243,8	277,7	266,8	312,2	372,3
	current	Max		A	199	216	245	249	287	302	344	390
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400							

Cooling Only				EWFT-B-SRC	570	620	670	730	790	860	960
SEER					4,899	4,823	4,782	4,972	4,984	5,057	4,883
Cooling capacity	Nom.			kW	725	762,6	851,4	947,6	970,4	1.093	1.170
Power input	Cooling	Nom.		kW	214,2	259,3	277,4	283,4	335,4	329,9	409,7
Capacity control	Method				Step						
	Minimum capacity			%	22	20	18	17	15	14	25
EER					3,385	2,941	3,069	3,344	2,893	3,312	2,856
IPLV					5,329	5,347	5,309	5,414	5,271	5,399	5,300
Dimensions	Unit	Height		mm	2.535						
		Width		mm	2.238						
		Depth		mm	4.674			5.754	5.848	6.928	
Weight	Unit			kg	3.917	4.116	4.219	4.830	5.220	5.730	6.065
	Operation weight			kg	4.187	4.386	4.506	5.217	5.607	6.159	6.516
Air heat exchanger	Type				Microchannel						
Compressor	Type				Scroll compressor						
	Quantity				5		6		7		8
Fan	Type				Direct propeller						
	Quantity				8			10	10	12	
	Air flow rate	Cooling	Nom.	l/s	45.020			56.275	56.275	67.530	
Sound power level	Cooling	Nom.		dBA	90,8	90,9	91	91,9	91,9	92,6	92,7
Sound pressure level	Cooling	Nom.		dBA	70,6	70,7	70,8	71,2	71,2	71,5	71,6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46						
Refrigerant	Type/GWP				R-32/675						
	Charge			kg	45,0	50,0	53,0	59,0	63,0	68,0	77,0
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7						
Unit	Starting current	Max		A	891	936	979	1.032	1.078	1.131	1.219
	Running	Cooling	Nom.	A	401,2	464,7	509,7	529,5	597,9	615,2	727,8
	current	Max		A	443	488	531	584	630	683	771
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400						

Performances according to Chiller Configurator 1,4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.

EWFT-B-XSC

- R-32 refrigerant: Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A
- Wide capacity with smallest footprint
- Top class efficiency both at full and part load conditions;
- New performance monitoring option
- New Daikin Mobile App
- New rapid re-start option

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

EWFT-B-XSC

Cooling Only				EWFT-B-XSC	180	210	230	250	250(C2)	290	320	320(C2)	350	370	390
SEER					4,939	5,025	5	4,723	4,935	5,059	5,186	5,137	5,087	5,011	4,74
Cooling capacity	Nom.			kW	246,8	288,18	319,26	331,9	346,62	369,51	429,6	444,23	471,69	487,6	508,5
Power input	Cooling	Nom.		kW	57,04	69,58	80,6	87,99	93,86	100,64	108,4	112,18	125,28	131	139,3
Capacity control	Method				Step										
	Minimum capacity			%	25	21	19	50	17	25	39	13	20	33	18
EER					4,327	4,142	3,961	3,772	3,693	3,94	3,963	3,96	3,765	3,722	3,65
IPLV					5,431	5,448	5,338	5,185	5,292	5,68	5,518	5,497	5,579	5,366	5,122
Dimensions	Unit	Height		mm	2.535										
		Width		mm	2.238										
		Depth		mm	2.514					3.594					
Weight	Unit			kg	2.040	2.104	2.169	2.129	2.214	2.700	2.678	2.882	2.884	2.800	2.885
	Operation weight			kg	2.174	2.244	2.317	2.272	2.362	2.871	2.851	3.060	3.062	2.975	3.064
Air heat exchanger	Type				Microchannel										
Compressor	Type				Scroll compressor										
	Quantity				4			2	4		3	5		3	4
Fan	Type				Direct propeller										
	Quantity				4						6				
	Air flow rate	Cooling	Nom.	l/s	22.500			22.510	22.500	33.760	33.765	33.760		33.765	
Sound power level	Cooling	Nom.		dBA	91	92		93,5	92	94	94,8	94		95,3	95,1
Sound pressure level	Cooling	Nom.		dBA	72		73	74,4	73	74	75,1	74		75,6	75,4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46										
Refrigerant	Type/GWP				R-32/675										
	Charge			kg	18,0	20,0	23,0	26,0	25,0	27,0	30,0	31,0	33,0	33,0	37,0
	Circuits	Quantity			2			1	2		1	2		1	2
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9										
Unit	Starting current	Max		A	304	429	446	647	464	492	703	523	540	746	750
	Running	Cooling	Nom.	A	112	132	147	160,7	167	184	202,1	205	224	239,6	253,6
	current	Max		A	146	163	181	199	199	227	255	257	275	298	302
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

Cooling Only				EWFT-B-XSC	450	510	540	590	630	720	760	830	880	C10
SEER					4,957	4,911	5,213	5,141	5,131	5,219	5,193	5,251	5,243	5,189
Cooling capacity	Nom.			kW	591,6	673,7	716,2	774,8	829,5	945,8	1.002	1.100	1.156	1.326
Power input	Cooling	Nom.		kW	152,6	176,8	175,2	197,5	219,9	241,8	264,5	284,6	307,3	351,7
Capacity control	Method				Step									
	Minimum capacity			%	16	25	14	22	20	18	17	15	14	25
EER					3,877	3,81	4,088	3,923	3,772	3,912	3,789	3,865	3,763	3,77
IPLV					5,326	5,322	5,623	5,546	5,509	5,570	5,518	5,553	5,519	5,514
Dimensions	Unit	Height		mm	2.535									
		Width		mm	2.238									
		Depth		mm	4.674		5.754		6.834			8.008		9.088
Weight	Unit			kg	3.420	3.634	4.150	4.266	4.377	4.975	5.086	5.879	5.991	6.792
	Operation weight			kg	3.658	3.904	4.520	4.636	4.747	5.404	5.515	6.352	6.464	7.331
Air heat exchanger	Type				Microchannel									
Compressor	Type				Scroll compressor									
	Quantity				4		5		6			7		8
Fan	Type				Direct propeller									
	Quantity				8		10		12			14		16
	Air flow rate	Cooling	Nom.	l/s	45.020		56.275		67.530			78.785		90.040
Sound power level	Cooling	Nom.		dBA	96,1	96,5	96,9	97,2	97,5	98	98,3	98,7	98,9	99,5
Sound pressure level	Cooling	Nom.		dBA	75,9	76,3	76,2	76,5	76,8	76,9	77,1	77,2	77,4	77,6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46									
Refrigerant	Type/GWP				R-32/675									
	Charge			kg	42,0	47,0	50,0	54,0	58,0	66,0	69,0	75,0	80,0	90,0
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9	139,7								
Unit	Starting current	Max		A	803	845	858	901	944	999	1.042	1.142		1.240
	Running	Cooling	Nom.	A	282,7	322,7	327,1	364,3	401,6	445,1	482,9	523,9	561,6	642,5
	current	Max		A	355	397	410	453	496	551	594	694		792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400									

Performances according to Chiller Configurator 1,4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full load operation.

EWFT-B-XRC

EWFT-B-XRC

MicroTech 4

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

EWFT-B-XRC

Cooling Only				EWFT-B-XRC	180	210	230	250	250(C2)	290	320	320(C2)	350	370	390
SEER					4,941	4,923	4,797	4,7	4,812	5,03	5,144	5,105	4,957	5,025	4,70
Cooling capacity	Nom.			kW	241,87	272,33	301,48	306,4	325,41	378,3	403,9	420,27	443,81	451,4	484,7
Power input	Cooling	Nom.		kW	59,44	73,4	86,48	95,79	106,07	108,89	114,4	120,11	137,62	142,5	146,9
Capacity control	Method				Step										
	Minimum capacity			%	25	21	19	50	17	25	39	13	20	33	18
EER					4,069	3,71	3,486	3,198	3,068	3,474	3,531	3,499	3,225	3,168	3,3
IPLV					5,44	5,468	5,453	5,118	5,353	5,701	5,587	5,633	5,613	5,431	5,094
Dimensions	Unit	Height		mm	2.535										
		Width		mm	2.238										
		Depth		mm	2.514					3.594					
Weight	Unit			kg	2.130	2.193	2.260	2.189	2.305	2.791	2.768	3.025	3.027	2.891	2.975
	Operation weight			kg	2.264	2.333	2.408	2.332	2.453	2.791	2.941	3.203	3.205	3.066	3.154
Air heat exchanger	Type				Microchannel										
Compressor	Type				Scroll compressor										
	Quantity				4			2	4		3	5		3	4
Fan	Type				Direct propeller										
	Quantity				4					6					
	Air flow rate	Cooling	Nom.	l/s	16.700			22.510	16.700	25.050	33.765	25.050		33.765	
Sound power level	Cooling	Nom.		dBA	82,8	83	83,1	84	83,3	85	85,4	85		85,7	85,6
Sound pressure level	Cooling	Nom.		dBA	64			64,9	64	65	65,7	65		66,0	65,9
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46										
Refrigerant	Type				R-32										
	Charge			kg	18,0	20,0	23,0	26,0	25,0	27,0	30,0	31,0	33,0	33,0	37,0
	Circuits	Quantity			2			1	2		1	2		1	
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9										
Unit	Starting current	Max		A	304	429	446	647	464	492	703	523	540	746	750
	Running	Cooling	Nom.	A	109	130	151	178,3	185	190	220,3	209	237	265,6	285,1
	current	Max		A	146	163	181	199	199	227	255	257	275	298	302
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

Cooling Only				EWFT-B-XRC	450	510	540	590	630	720	760	830	880	C10
SEER					5,002	4,833	5,214	5,167	5,064	5,159	5,121	5,293	5,181	5,14
Cooling capacity	Nom.			kW	553,5	620,5	673,3	721,2	765,7	878,7	924,2	1.023	1.068	1.224
Power input	Cooling	Nom.		kW	162,7	192,9	184,1	211,7	239,6	260,1	288,3	306,6	334,8	383,2
Capacity control	Method				Step									
	Minimum capacity			%	16	25	14	22	20	18	17	15	14	25
EER					3,402	3,217	3,657	3,407	3,196	3,378	3,206	3,335	3,19	3,195
IPLV					5,373	5,305	5,650	5,567	5,515	5,620	5,549	5,598	5,563	5,568
Dimensions	Unit	Height		mm	2.535									
		Width		mm	2.238									
		Depth		mm	4.674			5.754		6.834		8.008		9.088
Weight	Unit			kg	3.543	3.757	4.293	4.409	4.520	5.139	5.250	6.062	6.174	6.997
	Operation weight			kg	3.781	4.027	4.663	4.779	4.890	5.568	5.679	6.535	6.647	7.536
Air heat exchanger	Type				Microchannel									
Compressor	Type				Scroll compressor									
	Quantity				4		5		6			7		8
Fan	Type				Direct propeller									
	Quantity				8		10		12			14		16
	Air flow rate	Cooling	Nom.	l/s	45.020		56.275		67.530			78.785		90.040
Sound power level	Cooling	Nom.		dBA	86,8	87	87,6	87,8	87,9	88,6	88,7	89,3	89,4	90
Sound pressure level	Cooling	Nom.		dBA	66,5	66,7	66,9	67,1	67,2	67,5	67,6	67,7	67,8	68,1
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46									
Refrigerant	Type				R-32/675									
	Charge			kg	42,0	47,0	50,0	50,0	54,0	90,0	69,0	75,0	80,0	58,0
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9	139,7								
Unit	Starting current	Max		A	803	845	858	901	944	999	1.042	1.142		1.240
	Running	Cooling	Nom.	A	309,9	358,4	356	400,7	445,7	490,5	536,1	577,5	623,1	712,9
	current	Max		A	355	397	410	453	496	551	594	694		792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400									

Performances according to Chiller Configurator 1,4 software | Cooling: entering evaporator water temp. 26°C; leaving evaporator water temp. 18°C; ambient air temp. 35°C; ethylene glycol fluid 25%; full loadoperation.

EWA(D)(H)(S)-TZ-D & EWF(D)(H)(S)-TZ-D

Inverter screw chillers

Available with R-1234ze, R-513A and R-134a refrigerant,
free cooling version and special options for data center solutions

New Daikin fan
Innovative impeller designed by Daikin allowing increased compactness. higher efficiency, bigger air flow, lower noise

New condenser design
Optimized shape to increase airflow available with microchannel and tube & fin condenser

Direct expansion evaporator
BPHE or S&T to minimize refrigerant content

New single compressor
Integrated VFD on the compressor, refrigerant-cooled inverter, high part load efficiency, reliability in any ambient condition and perfect part load variation management

Active harmonic filter
Daikin design harmonic filter:
fully integrated, refrigerant cooled

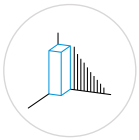
Tailored performance for every need:

- 4 efficiency levels
- 3 sound configurations
- Versatile technical solutions

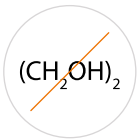
Ideal for a variety of applications:

- Comfort
- High and medium temperature process cooling
- Data center cooling

Free cooling for operating costs



Compact footprint combined with large cooling capabilities



Glycol free, free cooling options

Operating range

Min. ambient temperature:
- 30°C

Max. ambient temperature:
+ 55°C

Max. leaving water temperature:
+ 30°C

DAIKIN
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EWAD-TZBSD

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

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

EWAD-TZBSD

						EWAD-TZBSD	275	320	345	400	470	510	525
SEER							4,517	4,637	4,636	4,829	4,809	4,561	4,73
Cooling capacity	Nom.				kW		274,8	316,9	346	418,5	467	512,6	520,7
Power input	Cooling	Nom.			kW		91,31	100,1	115,5	136,4	159,9	171	167,6
Capacity control	Method						Stepless						
	Minimum capacity				%		22	19	17	22	23	11	22
EER							3	3,2	3	3,1	2,9	3	3,1
IPLV							4,4	4,6		4,8		4,4	4,7
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		2.560	3.640				4.720	
Weight	Unit				kg		2.602	3.084		3.486		4.212	4.032
	Operation weight				kg		2.677	3.169		3.583,7	3.593,7	4.552	4.160,1
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						1					2	1
Fan	Type						Direct propeller						
	Quantity						4	6				8	
	Air flow rate	Cooling	Nom.		l/s		25.490	38.240				50.980	50.990
Sound power level	Cooling	Nom.			dBA		97	98	100	97		99	98
Sound pressure level	Cooling	Nom.			dBA		78		80	78	77	79	77
Operation range	Air side	Cooling	Min.~Max.		°CDB		5 ~46						
Refrigerant	Type/GWP						R-134a/1.430						
	Charge				kg		35	45		55	65	70	
	Circuits	Quantity					1					2	1
Piping connections	Evaporator water inlet/outlet (OD)				mm		88,9			139,7		168,3	139,7
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		179,1	196,2	217,6	248,4	283,5	336,9	298,8
		Max			A		220	262	284	346	362	411	400
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

						EWAD-TZBSD	545	570	580	625	630	670	755
SEER							4,55	4,552	4,711	4,65	4,556	4,564	4,917
Cooling capacity	Nom.				kW		543,7	573,2	574,7	622,2	630,9	674	753,1
Power input	Cooling	Nom.			kW		188,4	206	198,2	230,6	216,2	242,8	231,7
Capacity control	Method						Stepless						
	Minimum capacity				%		10		19	17	10		13
EER							2,9	2,8	2,9	2,7	2,9	2,8	3,3
IPLV							4,4		4,7		4,5		4,9
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		4.720				5.800		6.880
Weight	Unit				kg		4.212		4.032		4.695		5.670
	Operation weight				kg		4.557	4.562	4.170,1	4.175,1	5.035	5.045	6.055
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						2		1		2		
Fan	Type						Direct propeller						
	Quantity						8				10		12
	Air flow rate	Cooling	Nom.		l/s		50.980		50.990		63.730		76.480
Sound power level	Cooling	Nom.			dBA		99	100	98	101		102	99
Sound pressure level	Cooling	Nom.			dBA		79	80	78	80		82	78
Operation range	Air side	Cooling	Min.~Max.		°CDB		5 ~46						
Refrigerant	Type/GWP						R-134a/1.430						
	Charge				kg		75	80		85		95	105
	Circuits	Quantity					2		1			2	
Piping connections	Evaporator water inlet/outlet (OD)				mm		168,3		139,7			168,3	
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		367,3	392,4	344,2	392,3	412,1	450	434,7
		Max			A		440	471	457	464	512	556	600
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

EWAD-TZBSD

EWAD_H_S-TZ-D

MicroTech 4

					EWAD-TZBSD	830	915	C10	H10	H11	C12	C13
SEER						4,879	4,901	4,855	4,797	4,936	4,942	4,906
Cooling capacity	Nom.				kW	825,6	916,8	997,9	1.092	1.168	1.238	1.332
Power input	Cooling	Nom.			kW	267,5	298,4	347,8	369,7	387,5	409,9	447
Capacity control	Method					Stepless						
	Minimum capacity				%	11	13	11	10			
EER						3,1		2,9	3			
IPLV						4,8	4,9	4,8	4,9			4,8
Dimensions	Unit	Height			mm	2.553						
		Width			mm	2.238						
		Depth			mm	6.880			7.960	9.040	10.120	11.200
Weight	Unit				kg	5.670	6.142		6.816	7.297	7.779	8.260
	Operation weight				kg	6.065	6.748	6.763	7.523	8.014	8.506	9.002
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					12			14	16	18	20
	Air flow rate	Cooling	Nom.		l/s	76.480			89.230	101.980	114.720	127.460
Sound power level	Cooling	Nom.			dBA	100	99	100	101		102	104
Sound pressure level	Cooling	Nom.			dBA	79	78	79			80	81
Operation range	Air side	Cooling	Min.~Max.		°CDB	5 ~46						
Refrigerant	Type/GWP					R-134a/1.430						
	Charge				kg	115	125	140	150	160	170	185
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)				mm	168,3	219,1					
Unit	Starting current	Max			A	0						
	Running current	Cooling	Nom.		A	488,5	536,5	610,2	645,8	674,8	710,6	767,8
		Max			A	668		751	817	884	930	948
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400						

					EWAD-TZBSD	C14	C15	H16	H17	H18	H19
SEER						4,849	4,858	5,044	4,995	4,997	4,979
Cooling capacity	Nom.				kW	1.405	1.534	1.665	1.760	1.876	1.954
Power input	Cooling	Nom.			kW	494,1	531,7	546,3	608,6	659,1	730,3
Capacity control	Method					Stepless					
	Minimum capacity				%	10		13	12	11	10
EER						2,8	2,9	3	2,9	2,8	2,7
IPLV						4,7		5,3		5,2	
Dimensions	Unit	Height			mm	2.553					
		Width			mm	2.238					
		Depth			mm	11.200	12.280			13.360	
Weight	Unit				kg	8.581	9.920	10.323		10.805	
	Operation weight				kg	9.333	11.146	11.564	11.579	12.076	12.086
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22			24	
	Air flow rate	Cooling	Nom.		l/s	127.460	140.210			152.960	
Sound power level	Cooling	Nom.			dBA	105	106	104	105	106	107
Sound pressure level	Cooling	Nom.			dBA	82	83	81	82	83	84
Operation range	Air side	Cooling	Min.~Max.		°CDB	5 ~46					
Refrigerant	Type/GWP					R-134a/1.430					
	Charge				kg	195	215	230	245	260	270
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)				mm	219,1	273				
Unit	Starting current	Max			A	0					
	Running current	Cooling	Nom.		A	837,3	899,1	919,5	1.011	1.088	1.193
		Max			A	1.120	1.200	1.227	1.340	1.475	1.608
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400					

EWAD-TZSSD

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

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EWAD-TZSSD

						EWAD-TZSSD	285	325	380	430	495	520	535
SEER							5,551	5,737	5,636	5,741	5,434	5,281	5,659
Cooling capacity	Nom.				kW		283,6	327,3	360,3	426,8	490,9	522,4	530,6
Power input	Cooling	Nom.			kW		84,44	98,36	112,8	131	151,7	162,1	161
Capacity control	Method						Stepless						
	Minimum capacity				%		22	19	17	22	23	11	22
EER							3,4	3,3	3,2	3,3	3,2		3,3
IPLV							5,7	5,8	5,7	6	5,8	5,4	6
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		3.640	4.720				5.800	
Weight	Unit				kg		3.084	3.604		3.968	4.032	4.693	4.513
	Operation weight				kg		3.164	3.697	3.702	4.070,7	4.155,1	5.033	4.646,1
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						1					2	1
Fan	Type						Direct propeller						
	Quantity						6	8				10	
	Air flow rate	Cooling	Nom.		l/s		38.240	50.990				63.730	
Sound power level	Cooling	Nom.			dBA		98		100	98	97	99	98
Sound pressure level	Cooling	Nom.			dBA		78		80	77		79	77
Operation range	Air side	Cooling	Min.~Max.		°CDB		5 ~46					-20 ~46	5 ~46
Refrigerant	Type/GWP						R-134a/1.430						
	Charge				kg		40	45	50	60	65	70	75
	Circuits	Quantity					1					2	1
Piping connections	Evaporator water inlet/outlet (OD)				mm		88,9			139,7		168,3	139,7
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		174,3	202,4	227,4	249,9	281,8	332,1	300,1
		Max			A		231	272	294	357	372	421	411
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

						EWAD-TZSSD	555	585	595	645	650	705	760
SEER							5,237	5,099	5,556	5,291	5,535	5,2	5,547
Cooling capacity	Nom.				kW		555,8	586,7	590	646,3	642,1	706,1	760,3
Power input	Cooling	Nom.			kW		177,6	194,1	188,4	202,9	218,2	235,4	225,2
Capacity control	Method						Stepless						
	Minimum capacity				%		10		19	10	17	10	13
EER							3,1	3	3,1	3,2	2,9	3	3,4
IPLV							5,3	5,2	5,8	5,4	5,6	5,3	6
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		5.800			6.880	5.800	6.880	7.960
Weight	Unit				kg		4.693		4.513	5.177	4.513	5.177	6.151
	Operation weight				kg		5.038	5.043	4.651,1	5.522	4.661,1	5.527	6.536
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						2		1	2	1	2	
Fan	Type						Direct propeller						
	Quantity						10			12	10	12	14
	Air flow rate	Cooling	Nom.		l/s		63.730			76.480	63.730	76.480	89.230
Sound power level	Cooling	Nom.			dBA		99	101	98	101		103	99
Sound pressure level	Cooling	Nom.			dBA		79	80	78	80		82	78
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46		5 ~46	-20 ~46	5 ~46	-20 ~46	
Refrigerant	Type/GWP						R-134a/1.430						
	Charge				kg		75	80		90		95	105
	Circuits	Quantity					2		1	2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)				mm		168,3		139,7	168,3	139,7	168,3	
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		359,1	387,7	340,8	407	384,9	451,6	442,9
		Max			A		450	481	467	523	474	566	610
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

EWAD-TZSSD

EWAD_H_S-TZ-D MicroTech 4

					EWAD-TZSSD	835	960	C10	H10	H11	H12	H13
SEER						5,714	5,615	5,536	5,55	5,562	5,714	5,673
Cooling capacity	Nom.			kW		837,7	960,2	1.017	1.064	1.168	1.281	1.372
Power input	Cooling	Nom.		kW		258,7	301,2	332,2	351,6	384,5	412,6	451,9
Capacity control	Method					Stepless						
	Minimum capacity			%		11	12	11			10	
EER						3,2		3,1	3		3,1	3
IPLV						5,8	5,7	5,6			5,7	
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		7.960				9.040	11.200	12.280
Weight	Unit			kg		6.151	6.623		6.816	7.297	8.260	8.742
	Operation weight			kg		6.546	7.239	7.244	7.518	8.014	8.992	9.489
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					14				16	20	22
	Air flow rate	Cooling	Nom.	l/s		89.230				101.908	127.460	140.210
Sound power level	Cooling	Nom.		dBA		100			101		102	104
Sound pressure level	Cooling	Nom.		dBA		79	78	79			80	81
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1.430						
	Charge			kg		115	135	140	145	160	175	190
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)			mm		168,3	219,1					
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		489,7	555	601,4	630,5	683,6	733,8	796,2
		Max		A		679	706	761	789	884	948	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

					EWAD-TZSSD	H14	H15	H16	H17	H18	H19
SEER						5,529	5,707	5,633	5,608	5,527	5,445
Cooling capacity	Nom.			kW		1.482	1.562	1.665	1.787	1.876	1.954
Power input	Cooling	Nom.		kW		500,2	485,4	542,2	589,4	654,5	725,7
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	10
EER						3	3,2	3,1	3	2,9	2,7
IPLV						5,6	6,1	6	5,9	5,8	5,7
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		12.280				13.360	
Weight	Unit			kg		9.920	10.323			10.805	
	Operation weight			kg		11.136	11.549	11.564	12.066	12.076	12.086
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					22				24	
	Air flow rate	Cooling	Nom.	l/s		140.210				152.960	
Sound power level	Cooling	Nom.		dBA		105	103	104	105	106	107
Sound pressure level	Cooling	Nom.		dBA		82	80	81	82	83	84
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1.430					
	Charge			kg		205	215	230	250	260	270
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		273					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		871,1	848	931,7	1.005	1.101	1.206
		Max		A		1.156	1.124	1.227	1.351	1.475	1.608
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAD-TZXSD

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

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EWAD-TZXSD

						EWAD-TZXSD	295	345	380	440	515	525	565
SEER							5,605	6,007	5,961	6,165	6,019	6,002	6,251
Cooling capacity	Nom.				kW		294,4	344,4	378	434,8	507,9	524,3	560,5
Power input	Cooling	Nom.			kW		89,4	102,5	116,8	120,6	150	146,6	162
Capacity control	Method						Stepless						
	Minimum capacity				%		22	19	17	28	23	13	22
EER							3,3	3,4	3,2	3,6	3,4	3,6	3,5
IPLV							6	6,3	6,1	6,6	6,5	6,3	6,7
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		3.640	4.720		5.800		6.880	
Weight	Unit				kg		3.255	3.775		4.569		5.348	5.136
	Operation weight				kg		3.335	3.868	3.873	4.687,1	4.697,1	5.673	5.287,3
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						1					2	1
Fan	Type						Direct propeller						
	Quantity						6	8		10		12	
	Air flow rate	Cooling	Nom.		l/s		33.930	45.240		56.540		67.860	68.280
Sound power level	Cooling	Nom.			dBA		97	98	103	96	97	100	
Sound pressure level	Cooling	Nom.			dBA		80	82	83	75	76	79	76
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46						
Refrigerant	Type/GWP						R-134a/1.430						
	Charge				kg		40	45	50	60	70		75
	Circuits	Quantity							1			2	1
Piping connections	Evaporator water inlet/outlet (OD)				mm			88,9		139,7		168,3	139,7
Unit	Starting current	Max			A					0			
	Running current	Cooling	Nom.		A		188,5	216,8	235,8	247,6	291,7	319,1	316,3
		Max			A		224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

						EWAD-TZXSD	565	610	635	670	705	725	760
SEER							5,937	5,999	6,146	5,891	5,552	5,94	5,308
Cooling capacity	Nom.				kW		565,9	610,7	629	668,1	701	724	757,3
Power input	Cooling	Nom.			kW		163,3	177	190,8	201,3	207,2	219,5	233,1
Capacity control	Method						Stepless						
	Minimum capacity				%		12	11	19	10	30	10	28
EER							3,5		3,3		3,4	3,3	3,2
IPLV							6,1	6,2	6,5	6,1	5,7	6,2	5,6
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		6.880	7.960	6.880	7.960	6.880	7.960	6.880
Weight	Unit				kg		5.348	5.829	5.136	5.829	5.805	5.946	5.805
	Operation weight				kg		5.683	6.169	5.297,3	6.174	5.976,3	6.344	5.986,3
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						2		1	2	1	2	1
Fan	Type						Direct propeller						
	Quantity						12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.		l/s		67.860	79.170	68.280	79.170	68.280	79.170	68.280
Sound power level	Cooling	Nom.			dBA		100	101	105	101	99	102	100
Sound pressure level	Cooling	Nom.			dBA		80	81	77	83	78	84	79
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46						
Refrigerant	Type/GWP						R-134a/1.430						
	Charge				kg		80	85		90	95	100	105
	Circuits	Quantity					2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				mm		168,3		139,7	168,3	139,7	168,3	139,7
Unit	Starting current	Max			A					0			
	Running current	Cooling	Nom.		A		348,1	378,7	359,4	420,8	383,5	443	421,6
		Max			A		429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

EWAD-TZXSD

EWAD_H_S-TZ-D MicroTech 4

					EWAD-TZXSD	805	880	950	C10	H10	H11	C12
SEER						6,088	6,355	6,192	6,365	6,186	6,313	6,217
Cooling capacity	Nom.			kW		802,3	877,7	949,4	993,6	1.062	1.129	1.194
Power input	Cooling	Nom.		kW		233,2	250,8	282,1	292,3	325,1	336,7	370,1
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
EER						3,4	3,5	3,4		3,3	3,4	3,2
IPLV						6,4	6,6	6,4	6,5	6,4	6,5	6,4
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		9.040			10.120		11.200	
Weight	Unit			kg		6.904	7.160		7.642		8.316	
	Operation weight			kg		7.495	7.761	7.771	8.258	8.268	9.028	9.038
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		90.480			101.780		113.080	
Sound power level	Cooling	Nom.		dBA		105	98	100	101	102	103	105
Sound pressure level	Cooling	Nom.		dBA		84	76	77		78		
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1.430						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1						
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		470,4	496,7	543,6	565	613,9	637,5	687
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

					EWAD-TZXSD	H12	H13	H14	H15	H16	H17
SEER						6,126	6,14	5,896	5,807	5,723	5,629
Cooling capacity	Nom.			kW		1.286	1.359	1.454	1.567	1.671	1.770
Power input	Cooling	Nom.		kW		402,4	425,5	419,5	472,2	528,4	590,4
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
EER						3,2		3,5	3,3	3,2	3
IPLV						6,3		6,1	6,3	6,2	6
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		11.200	12.280		13.360		
Weight	Unit			kg		8.316	9.655		10.805		
	Operation weight			kg		9.053	10.856	12.016	12.031	12.046	12.061
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22		24		
	Air flow rate	Cooling	Nom.	l/s		113.080	124.390		135.700		
Sound power level	Cooling	Nom.		dBA		108	106	102	103	104	105
Sound pressure level	Cooling	Nom.		dBA		78	79		80	81	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1.430					
	Charge			kg		180	190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1	273				
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		737,2	777,9	774,1	852	934,8	1.026
		Max		A		851	899	997	1.103	1.217	1.330
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAD-TZXRD

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EWAD-TZXRD

					EWAD-TZXRD	**295**	**345**	**380**	**440**	**515**	**525**	**565**
SEER						5,507	5,938	5,866	6,042	5,901	6,037	6,159
Cooling capacity	Nom.				kW	290,7	340,9	373,4	431	502,3	518,8	555,4
Power input	Cooling	Nom.			kW	89,12	101,1	116,3	118,5	149,8	144,1	160,2
Capacity control	Method					Stepless						
	Minimum capacity				%	22	19	17	28	23	13	22
EER						3,3	3,4	3,2	3,6	3,4	3,6	3,5
IPLV						6,1	6,3	6,2	6,5		6,3	6,7
Dimensions	Unit	Height			mm	2.553						
		Width			mm	2.238						
		Depth			mm	3.640	4.720		5.800		6.880	
Weight	Unit				kg	3.375	3.895		4.689		5.468	5.256
	Operation weight				kg	3.455	3.988	3.993	4.807,1	4.817,1	5.793	5.407,3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					6	8		10		12	
	Air flow rate	Cooling	Nom.		l/s	28.330	37.770		47.210		56.660	
Sound power level	Cooling	Nom.			dBA	87	88	92	88		90	
Sound pressure level	Cooling	Nom.			dBA	68		71	67	68	69	
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46						
Refrigerant	Type/GWP					R-134a/1.430						
	Charge				kg	40	45	50	60	70		75
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)				mm	88,9			139,7		168,3	139,7
Unit	Starting current	Max			A	0						
	Running current	Cooling	Nom.		A	193,6	221,9	241,5	252,5	299,5	326	323,5
		Max			A	224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400						

					EWAD-TZXRD	**565**	**610**	**635**	**670**	**705**	**725**	**760**
SEER						5,944	6,029	6,039	5,922	5,418	5,964	5,358
Cooling capacity	Nom.				kW	559,5	604,2	622,3	660,4	691,7	714,9	745,6
Power input	Cooling	Nom.			kW	161,7	174,5	190,5	200,1	209,3	219,2	236,6
Capacity control	Method					Stepless						
	Minimum capacity				%	12	11	19	10	30	10	28
EER						3,5			3,3			3,2
IPLV						6,2		6,6	6,1	5,8	6,2	5,8
Dimensions	Unit	Height			mm	2.553						
		Width			mm	2.238						
		Depth			mm	6.880	7.960	6.880	7.960	6.880	7.960	6.880
Weight	Unit				kg	5.468	5.949	5.256	5.949	5.925	6.066	5.925
	Operation weight				kg	5.803	6.289	5.417,3	6.294	6.096,3	6.464	6.106,3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1	2	1	2	1
Fan	Type					Direct propeller						
	Quantity					12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.		l/s	56.660	66.100	56.660	66.100	56.660	66.100	56.660
Sound power level	Cooling	Nom.			dBA	90	91	93	91	90	92	90
Sound pressure level	Cooling	Nom.			dBA	69		72	69	68	70	69
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46						
Refrigerant	Type/GWP					R-134a/1.430						
	Charge				kg	80	85		90	95	100	105
	Circuits	Quantity				2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				mm	168,3		139,7	168,3	139,7	168,3	139,7
Unit	Starting current	Max			A	0						
	Running current	Cooling	Nom.		A	356,7	387,5	368,6	431,6	396,2	454,1	436,4
		Max			A	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400						

EWAD-TZXRD

EWAD_H_S-TZ-D

MicroTech 4

					EWAD-TZXRD	805	880	950	C10	H10	H11	C12
SEER						6,169	6,363	6,179	6,354	6,217	6,34	6,191
Cooling capacity	Nom.			kW		792,9	867,7	937,7	982,6	1.049	1.117	1.179
Power input	Cooling	Nom.		kW		231,9	250,8	283,9	292,8	327,6	338	373,2
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
EER						3,4	3,5	3,3	3,4	3,2	3,3	3,2
IPLV						6,4	6,6	6,4	6,6	6,4	6,6	6,4
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		9.040			10.120		11.200	
Weight	Unit			kg		7.024	7.280		7.762		8.436	
	Operation weight			kg		7.615	7.881	7.891	8.378	8.388	9.148	9.158
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		75.540			84.980		94.420	
Sound power level	Cooling	Nom.		dBA		94	90	91	92		93	94
Sound pressure level	Cooling	Nom.		dBA		72	68	69		70		72
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-134a/1.430						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1						
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		481,4	509,6	559,3	580,3	632,1	655,3	707,6
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

					EWAD-TZXRD	H12	H13	H14	H15	H16	H17
SEER						6,12	6,181	5,883	5,764	5,704	5,537
Cooling capacity	Nom.			kW		1.268	1.341	1.434	1.543	1.641	1.729
Power input	Cooling	Nom.		kW		408	430,2	424,5	480,3	539,4	603,9
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
EER						3,2	3,1	3,4	3,2	3	2,9
IPLV						6,4		6,1	5,9	6,2	5,8
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		11.200	12.280	13.360			
Weight	Unit			kg		8.436	9.775	10.925			
	Operation weight			kg		9.173	10.976	12.136	12.151	12.166	12.181
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22	24			
	Air flow rate	Cooling	Nom.	l/s		94.420	103.870	113.320			
Sound power level	Cooling	Nom.		dBA		96	95	93		94	
Sound pressure level	Cooling	Nom.		dBA		74	72	69	70		71
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1.430					
	Charge			kg		180	190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1	273				
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		761,7	802,5	800,7	883,2	970,5	1.066
		Max		A		851	899	997	1.103	1.217	1.330
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAD-TZPSD

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EWAD-TZPSD

						EWAD-TZPSD	285	330	370	405	450	490
SEER							6,29	6,465	6,389	6,687	6,64	6,567
Cooling capacity	Nom.				kW		285,8	330,4	367,9	401,5	447	486,1
Power input	Cooling	Nom.			kW		77,75	92,02	106	105,2	117,3	130,3
Capacity control	Method						Stepless					
	Minimum capacity				%		23	20	18	30	28	25
EER							3,7	3,6	3,5	3,8		3,7
IPLV							6,7		6,6	7,3	7,6	7,5
Dimensions	Unit	Height			mm		2.553					
		Width			mm		2.238					
		Depth			mm		4.720	5.800		6.880		
Weight	Unit				kg		3.775	4.256		5.050	5.136	
	Operation weight				kg		3.863	4.349	4.354	5.163,1	5.272,3	5.277,3
Air heat exchanger	Type						Microchannel					
Compressor	Type						Screw compressor					
	Quantity						1					
Fan	Type						Direct propeller					
	Quantity						8	10		12		
	Air flow rate	Cooling	Nom.		l/s		45.240	56.540		67.850		
Sound power level	Cooling	Nom.			dBA		97	98	100	95	96	98
Sound pressure level	Cooling	Nom.			dBA		78	81	82	74	75	
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46					
Refrigerant	Type/GWP						R-134a/1.430					
	Charge				kg		40	45	50	55	60	65
	Circuits	Quantity					1					
Piping connections	Evaporator water inlet/outlet (OD)				mm		88,9			139,7		
Unit	Starting current	Max			A		0					
	Running current	Cooling	Nom.		A		174	204	229	233	249	269
		Max			A		220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400					

						EWAD-TZPSD	530	575	615	675	735
SEER							6,391	6,301	6,28	6,161	6,216
Cooling capacity	Nom.				kW		529,6	571,8	617,7	676,1	733,5
Power input	Cooling	Nom.			kW		143,1	158,6	171,1	194	210,7
Capacity control	Method						Stepless				
	Minimum capacity				%		13	12	11	10	
EER							3,7	3,6		3,5	
IPLV							6,7	6,6	6,5	6,4	6,5
Dimensions	Unit	Height			mm		2.553				
		Width			mm		2.238				
		Depth			mm		7.960		9.040		
Weight	Unit				kg		5.829		6.311		6.427
	Operation weight				kg		6.159	6.164	6.651	6.661	6.825
Air heat exchanger	Type						Microchannel				
Compressor	Type						Screw compressor				
	Quantity						2				
Fan	Type						Direct propeller				
	Quantity						14		16		
	Air flow rate	Cooling	Nom.		l/s		79.170		90.480		
Sound power level	Cooling	Nom.			dBA		100		101		102
Sound pressure level	Cooling	Nom.			dBA		79	80	81	83	
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46				
Refrigerant	Type/GWP						R-134a/1.430				
	Charge				kg		75	80	85	95	100
	Circuits	Quantity					2				
Piping connections	Evaporator water inlet/outlet (OD)				mm		168,3				
Unit	Starting current	Max			A		0				
	Running current	Cooling	Nom.		A		318	345	374	414	442
		Max			A		399	429	468	508	535
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400				

EWAD-TZPSD

EWAD_H_S-TZ-D

MicroTech 4

					EWAD-TZPSD	810	890	960	C10	H10	H11
SEER						6,48	6,725	6,602	6,648	6,483	6,529
Cooling capacity	Nom.			kW		809,8	885,5	958,4	1.003	1.072	1.137
Power input	Cooling	Nom.		kW		226,1	242,4	271,7	281,9	312,5	325,9
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3,6	3,7	3,5	3,6	3,4	3,5
IPLV						6,8	7	6,8	6,5	6,7	6,9
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		10.120			11.200		12.280
Weight	Unit			kg		7.385	7.642		8.123		8.798
	Operation weight			kg		7.976	8.243	8.253	8.744	8.754	9.515
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		101.780			113.080		140.200
Sound power level	Cooling	Nom.		dBA		105	99	100	101	102	103
Sound pressure level	Cooling	Nom.		dBA		84	76		77		
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1.430					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		466	490	534	555	601	627
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

					EWAD-TZPSD	C12	H12	H13	H14	H15
SEER						6,398	6,263	6,31	5,978	5,928
Cooling capacity	Nom.			kW		1.203	1.298	1.372	1.455	1.568
Power input	Cooling	Nom.		kW		357,4	387,4	409,1	409,5	462,1
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
EER						3,4			3,6	3,4
IPLV						6,7	6,6		6,2	6,5
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		12.280		13.360		
Weight	Unit			kg		8.798	9.655	10.136	10.805	
	Operation weight			kg		9.520	10.846	11.337	12.021	12.036
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		140.200		152.940		
Sound power level	Cooling	Nom.		dBA		105	108	106	102	103
Sound pressure level	Cooling	Nom.		dBA		78		79		80
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1.430				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1	273			
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		674	721	759		837
		Max		A		845	893	951	1.039	1.135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

EWAD-TZPRD

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

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EWAD-TZPRD

					EWAD-TZPRD	285	330	370	405	450	490
SEER						6,232	6,448	6,358	6,622	6,542	6,467
Cooling capacity	Nom.			kW		283,7	328,4	365	398,8	443,9	482,4
Power input	Cooling	Nom.		kW		75,13	88,51	103,1	101	113,6	127,2
Capacity control	Method					Stepless					
	Minimum capacity			%		23	20	18	30	28	25
EER						3,8	3,7	3,5	4	3,9	3,8
IPLV						6,7	6,8	6,6	7,2	7,5	7,4
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		4.720	5.800		6.880		
Weight	Unit			kg		3.895	4.376		5.170	5.256	
	Operation weight			kg		3.983	4.469	4.474	5.283,1	5.392,3	5.397,3
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					8	10		12		
	Air flow rate	Cooling	Nom.	l/s		37.770	47.210		56.660		
Sound power level	Cooling	Nom.		dBA		88	89	90	88		89
Sound pressure level	Cooling	Nom.		dBA		68		69	67		68
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1.430					
	Charge			kg		40	45	50	55	60	65
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)			mm		88,9			139,7		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		176,6	207,4	232,7	236,3	253,2	273,8
		Max		A		220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

					EWAD-TZPRD	530	575	615	675	735
SEER						6,421	6,322	6,325	6,183	6,254
Cooling capacity	Nom.			kW		524,8	566,5	612,5	669,9	726
Power input	Cooling	Nom.		kW		139	155,2	166,8	190,7	208,2
Capacity control	Method					Stepless				
	Minimum capacity			%		13	12	11	10	
EER						3,8	3,7		3,5	
IPLV						6,7	6,6	6,5	6,4	6,5
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		7.960		9.040		
Weight	Unit			kg		5.949		6.431		6.547
	Operation weight			kg		6.279	6.284	6.771	6.781	6.945
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16		
	Air flow rate	Cooling	Nom.	l/s		66.100		75.540		
Sound power level	Cooling	Nom.		dBA		91				92
Sound pressure level	Cooling	Nom.		dBA		69				70
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1.430				
	Charge			kg		75	80	85	95	100
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		168,3				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		324,3	352,5	381,3	422,7	448
		Max		A		399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

EWAD-TZPRD

EWAD_H_S-TZ-D MicroTech 4

					EWAD-TZPRD	810	890	960	C10	H10	H11
SEER						6,51	6,771	6,598	6,661	6,515	6,683
Cooling capacity	Nom.			kW		801,7	876,7	948,2	993	1.061	1.126
Power input	Cooling	Nom.		kW		222,8	240,2	271,1	280	312,2	324,7
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3,6		3,5		3,4	3,5
IPLV						6,8	7,1	6,9		6,7	7
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		10.120			11.200		12.280
Weight	Unit			kg		7.505	7.762		8.243		8.918
	Operation weight			kg		8.096	8.363	8.373	8.864	8.874	9.635
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		84.980			94.420		103.870
Sound power level	Cooling	Nom.		dBA		94	90	91	92		93
Sound pressure level	Cooling	Nom.		dBA		72	68	69		70	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-134a/1.430					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		475,1	501,2	547,7	568,5	616,6	643
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

					EWAD-TZPRD	C12	H12	H13	H14	H15
SEER						6,555	6,433	6,432	6,055	5,932
Cooling capacity	Nom.			kW		1.190	1.282	1.356	1.435	1.544
Power input	Cooling	Nom.		kW		357,7	389,9	410,4	413,9	469,4
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
EER						3,3			3,5	3,3
IPLV						6,7		6,6	6,3	6,1
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		12.280		13.360		
Weight	Unit			kg		8.918	9.775	10.256	10.925	
	Operation weight			kg		9.640	10.966	11.457	12.141	12.156
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		103.870		113.320		
Sound power level	Cooling	Nom.		dBA		95	96	95	93	
Sound pressure level	Cooling	Nom.		dBA		72	74	72	69	70
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-134a/1.430				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1	273			
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		692,2	742,3	780,3	784,9	867
		Max		A		845	893	951	1.039	1.135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

EWAH-TZBSD

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

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EWAH-TZBSD

						EWAH-TZBSD	235	255	300	350	400	400	420
SEER							4,491	4,373	4,355	4,666	4,428	4,588	4,601
Cooling capacity	Nom.				kW		235,4	255,6	301,6	359,8	398,5		417,2
Power input	Cooling	Nom.			kW		79,49	92,42	118,2	117,9	140,7		151,4
Capacity control	Method						Stepless						
	Minimum capacity				%		19	17	14	23	12	20	19
EER							2,961	2,766	2,552	3,052	2,832		2,755
IPLV							4,484	4,419	4,369	4,683	4,411	4,584	4,558
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		2.560			3.640	4.720	3.640	
Weight	Unit				kg		2.559		2.589	3.486	3.751	3.486	
	Operation weight				kg		2.589	2.594	2.629	3.536	3.806	3.541	
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						1				2	1	
Fan	Type						Direct propeller						
	Quantity						4			6	8	6	
	Air flow rate	Cooling	Nom.		l/s		25.490	25.493		38.240	50.987	38.240	
Sound power level	Cooling	Nom.			dBA		97,5	99,8	101,2	96,7	97,5	97,6	97,7
Sound pressure level	Cooling	Nom.			dBA		78,41	80,65	82,11	76,96	77,19	77,88	78
Operation range	Air side	Cooling	Min.~Max.		°CDB		5 ~46						
Refrigerant	Type/GWP						R-1234(ze)/1,4						
	Charge				kg		30	35	40	50	55		
	Circuits	Quantity					1				2	1	
Piping connections	Evaporator water inlet/outlet (OD)				mm		88,9			139,7			
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		159	181	219	221	255		271
		Max			A		204	227	268	291	334		355
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

						EWAH-TZBSD	425	455	485	505	545	545	590
SEER							4,571	4,593	4,603	4,565	4,557	4,595	4,568
Cooling capacity	Nom.				kW		425,2	448,8	487,5	500	537,5		576,1
Power input	Cooling	Nom.			kW		135,6	176,2	162	204,3	202,2		201,2
Capacity control	Method						Stepless						
	Minimum capacity				%		11	17	10	15		10	
EER							3,137	2,547	3,009	2,447	2,658		2,864
IPLV							4,407	4,537	4,451	4,523	4,492	4,462	4,402
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		4.720	3.640	4.720	3.640	4.720		5.800
Weight	Unit				kg		3.751	3.486	3.941	3.871	4.353	3.971	4.422
	Operation weight				kg		3.811	3.546	4.006	3.941	4.428	4.046	4.502
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						2	1	2	1		2	
Fan	Type						Direct propeller						
	Quantity						8	6	8	6	8		10
	Air flow rate	Cooling	Nom.		l/s		50.987	38.240	50.987	38.240	50.990	50.987	63.733
Sound power level	Cooling	Nom.			dBA		100,4	100,3	100,6	101,9	103	102,8	103,9
Sound pressure level	Cooling	Nom.			dBA		80,12	80,61	80,29	82,2	82,7	82,53	83,21
Operation range	Air side	Cooling	Min.~Max.		°CDB		5 ~46						
Refrigerant	Type/GWP						R-1234(ze)/1,4						
	Charge				kg		60		65	70	75		80
	Circuits	Quantity					2	1	2	1		2	
Piping connections	Evaporator water inlet/outlet (OD)				mm		139,7		168,3	139,7		168,3	
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		274	308	321		351		391
		Max			A		358	396	406	435	463	452	494
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

EWAH-TZBSD

EWAD_H_S-TZ-D

MicroTech 4

					EWAH-TZBSD	635	745	785	845	900	985	C11
SEER						4,612	4,792	4,758	4,774	4,766	4,72	4,71
Cooling capacity	Nom.			kW		633,2	742,7	786,2	842,9	899	983,8	1.104
Power input	Cooling	Nom.		kW		226,9	238,6	261,4	287,6	302,2	350,9	391,1
Capacity control	Method					Stepless						
	Minimum capacity			%		10	12	11	10			
EER						2,791	3,113	3,007	2,931	2,974	2,804	2,823
IPLV						4,452	4,741	4,716	4,722	4,692	4,624	4,623
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		5.800	6.880			7.960		9.040
Weight	Unit			kg		4.452	5.370		5.614	6.096	6.185	7.352
	Operation weight			kg		4.537	5.470	5.480	5.729	6.221	6.320	7.507
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					10	12			14		16
	Air flow rate	Cooling	Nom.	l/s		63.733	76.480			89.233		101.980
Sound power level	Cooling	Nom.		dBA		104,6	99,7	100,3	100,6	101,5	103,2	105,1
Sound pressure level	Cooling	Nom.		dBA		83,83	78,53	79,14	79,46	79,93	81,67	83,17
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46						
Refrigerant	Type/GWP					R-1234(ze)/1,4						
	Charge			kg		85	100	110	115	125	135	155
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)			mm			168,3			219,1		273
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		425	445	480	519	544	617	682
		Max		A		536	581	624	667	719	801	889
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

					EWAH-TZBSD	H11	C13	H13	H14	C15	H15
SEER						4,65	5,062	5,043	5,041	4,983	4,984
Cooling capacity	Nom.			kW		1.177	1.315	1.386	1.474	1.535	1.586
Power input	Cooling	Nom.		kW		436	423,5	471	508,7	563,3	580,5
Capacity control	Method					Stepless					
	Minimum capacity			%		10	12	11	10		
EER						2,699	3,105	2,943	2,898	2,725	2,732
IPLV						4,543	5,285	5,263	5,232	5,165	5,15
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		9.040	10.120		11.200		12.280
Weight	Unit			kg		7.352	8.279		8.760		9.242
	Operation weight			kg		7.517	8.459	8.469	8.965	8.975	9.462
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					16	18		20		22
	Air flow rate	Cooling	Nom.	l/s		101.980	114.720		127.467		140.213
Sound power level	Cooling	Nom.		dBA		106,9	104,3	105,2	106,1	107	107,5
Sound pressure level	Cooling	Nom.		dBA		84,97	82,09	82,94	83,56	84,45	84,63
Operation range	Air side	Cooling	Min.~Max.	°CDB		5 ~46					
Refrigerant	Type/GWP					R-1234(ze)/1,4					
	Charge			kg		165	180	190	205	215	220
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		273					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		748	733	804	862	943	971
		Max		A		927	1.015	1.106	1.383	1.330	1.400
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAH-TZSSD

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air to water inverter series with extension of capacity range
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
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EWAH-TZSSD

						EWAH-TZSSD	240	265	295	370	400	415	450
SEER							5,606	5,489	5,354	5,624	5,379	5,498	5,506
Cooling capacity	Nom.				kW		242,1	264,9	296,5	366,7	402,3	408,8	447,1
Power input	Cooling	Nom.			kW		75,33	86,23	98,15	112,9	121,5	133,5	144,5
Capacity control	Method						Stepless						
	Minimum capacity				%		19	17	15	23	12	20	19
EER							3,214	3,072	3,021	3,248	3,312	3,062	3,094
IPLV							5,624	5,53	5,387	5,92	5,48	5,755	5,738
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		3.640			4.720	5.800	4.720	
Weight	Unit				kg		3.041		3.071	3.968	4.233	3.968	4.032
	Operation weight				kg		3.076		3.111	4.018	4.288	4.023	4.092
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						1				2	1	
Fan	Type						Direct propeller						
	Quantity						6			8	10	8	
	Air flow rate	Cooling	Nom.		l/s		38.240			50.990	63.733	50.990	
Sound power level	Cooling	Nom.			dBA		97,9	100	102,3	97,1	97,8	98	98,1
Sound pressure level	Cooling	Nom.			dBA		78,18	80,27	82,57	76,87	77,09	77,71	77,82
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46						
Refrigerant	Type/GWP						R-1234(ze)/1,4						
	Charge				kg		35		40	50	55		60
	Circuits	Quantity					1				2	1	
Piping connections	Evaporator water inlet/outlet (OD)				mm		88,9			139,7			
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		158,4	177,6	198,4	226,8	259,9	254	271,3
		Max			A		214	237	259	302	345	344	365
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

						EWAH-TZSSD	470	490	535	540	595	630	690
SEER							5,211	5,512	5,252	5,592	5,291	5,221	5,538
Cooling capacity	Nom.				kW		468,8	485,8	508,7	533,5	592,4	626,5	696,4
Power input	Cooling	Nom.			kW		149,2	166,9	162,3	183,6	188,6	206,3	214,1
Capacity control	Method						Stepless						
	Minimum capacity				%		10	17	10	15	10		13
EER							3,143	2,911	3,134	2,906	3,141	3,037	3,252
IPLV							5,317	5,593	5,351	5,607	5,392	5,316	5,64
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		5.800	4.720	5.800		6.880		
Weight	Unit				kg		4.233	4.032	4.422	4.834	4.934		5.370
	Operation weight				kg		4.298	4.097	4.492	4.909	5.014	5.019	5.465
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						2	1	2	1	2		
Fan	Type						Direct propeller						
	Quantity						10	8	10		12		
	Air flow rate	Cooling	Nom.		l/s		63.733	50.990	63.733		76.480		
Sound power level	Cooling	Nom.			dBA		100,7	100,5	101,3	102,2	104,3	105,1	99
Sound pressure level	Cooling	Nom.			dBA		79,96	80,28	80,56	81,47	83,15	83,92	77,8
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46						
Refrigerant	Type/GWP						R-1234(ze)/1,4						
	Charge				kg		65		70	75	80	85	95
	Circuits	Quantity					2	1	2	1		2	
Piping connections	Evaporator water inlet/outlet (OD)				mm		139,7		168,3	139,7		168,3	
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		309	304,8	332,2	334,3	381,9	412,4	425,7
		Max			A		405	406	428	455	495	526	538
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

EWAH-TZSSD

EWAD_H_S-TZ-D

MicroTech 4

					EWAH-TZSSD	740	795	855	910	980	C10	C11
SEER						5,452	5,539	5,505	5,532		5,53	5,489
Cooling capacity	Nom.			kW		741,3	795,3	854,3	909,5	983,4	1.043	1.113
Power input	Cooling	Nom.		kW		236,7	254,1	278,9	294	322,6	341,1	365,2
Capacity control	Method					Stepless						
	Minimum capacity			%		11			10			
EER						3,132	3,13	3,063	3,094	3,048	3,058	3,046
IPLV						5,523	5,564	5,539	5,56	5,516	5,505	5,452
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		6.880	7.960		9.040	10.120	11.200	
Weight	Unit			kg		5.370	5.852	6.096	6.577	7.059	7.629	8.315
	Operation weight			kg		5.470	5.962	6.216	6.702	7.194	7.774	8.470
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					12	14		16	18	20	
	Air flow rate	Cooling	Nom.	l/s		76.480	89.233		101.908	114.714	127.460	
Sound power level	Cooling	Nom.		dBA		99,7	100,5	100,8	101,6	103	104,1	104,8
Sound pressure level	Cooling	Nom.		dBA		78,52	78,95	79,25	79,73	80,8	81,53	82,27
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46						
Refrigerant	Type/GWP					R-1234(ze)/1,4						
	Charge			kg		100	110	120	125	135	145	155
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)			mm		168,3			219,1			273
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		456,1	483,2	520,7	547,3	594,5	627,5	665,5
		Max		A		581	634	677	729	802	852	891
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

					EWAH-TZSSD	C12	H12	H13	C14	C15	H15
SEER						5,339	5,735	5,652	5,723	5,774	5,686
Cooling capacity	Nom.			kW		1.211	1.331	1.406	1.492	1.542	1.606
Power input	Cooling	Nom.		kW		416,6	409,9	455,3	495,6	512,4	566,3
Capacity control	Method					Stepless					
	Minimum capacity			%		10	12	11		10	
EER						2,906	3,248	3,088	3,01	3,009	2,836
IPLV						5,254	6,207	5,994	6,078	6,09	5,956
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		11.200			12.280	13.360	
Weight	Unit			kg		8.315	8.760		9.242	9.723	
	Operation weight			kg		8.485	8.945	8.955	9.447	9.938	9.948
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20			22	24	
	Air flow rate	Cooling	Nom.	l/s		127.460			140.206	152.952	
Sound power level	Cooling	Nom.		dBA		107	104,4	105,2	106,2	107,1	107,5
Sound pressure level	Cooling	Nom.		dBA		84,42	81,86	82,7	83,33	83,98	84,4
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/1,4					
	Charge			kg		170	185	195	205	215	225
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		273					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		741,8	732,3	799,8	862,2	893,4	973,3
		Max		A		948	1.025	1.117	1.393	1.351	1.410
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAH-TZXSD

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

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EWAH-TZXSD

						EWAH-TZXSD	220	230	275	300	350	400
SEER							5,528	5,478	5,899	5,78	6,259	6,127
Cooling capacity	Nom.				kW		219,8	323,4	275,1	299,3	348,7	397,5
Power input	Cooling	Nom.			kW		67,79	74,71	82,02	92,55	99,59	122,1
Capacity control	Method						Stepless					
	Minimum capacity				%		22	20	18	16	25	22
EER							3,243	3,111	3,354	3,234	3,501	3,256
IPLV							6,035	5,988	6,156	6,085	6,684	6,588
Dimensions	Unit	Height			mm		2.553					
		Width			mm		2.238					
		Depth			mm		2.560		3.640		4.720	
Weight	Unit				kg		2.731		3.242		4.023	
	Operation weight				kg		2.761		3.277	3.282	4.068	4.078
Air heat exchanger	Type						Microchannel					
Compressor	Type						Screw compressor					
	Quantity						1					
Fan	Type						Direct propeller					
	Quantity						4		6		8	
	Air flow rate	Cooling	Nom.		l/s		22.620		33.930		45.240	
Sound power level	Cooling	Nom.			dBA		97,3	97,5	100,2	100,8	97,3	99,8
Sound pressure level	Cooling	Nom.			dBA		78,13	78,36	80,42	81,11	77,01	79,55
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46					
Refrigerant	Type/GWP						R-1234(ze)/1,4					
	Charge				kg		30		35	40	45	55
	Circuits	Quantity					1					
Piping connections	Evaporator water inlet/outlet (OD)				mm		88,9				139,7	
Unit	Starting current	Max			A		0					
	Running current	Cooling	Nom.		A		145,1	157,4	175,8	194,2	211,3	243,1
		Max			A		172	183	214	236	269	310
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400					

						EWAH-TZXSD	465	470	515	540	545	600
SEER							5,999	6,336	6,198	5,64	6,108	6,04
Cooling capacity	Nom.				kW		471,7	466	504,2	534,5	543,9	602,4
Power input	Cooling	Nom.			kW		135,2	139,9	159,8	152,6	155,1	178,4
Capacity control	Method						Stepless					
	Minimum capacity				%		10	19	17	30	10	
EER							3,488	3,331	3,156	3,503	3,508	3,376
IPLV							6,223	6,632	6,422	5,95	6,381	6,28
Dimensions	Unit	Height			mm		2.553					
		Width			mm		2.238					
		Depth			mm		6.880		5.800		6.880	
Weight	Unit				kg		4.886	4.569		5.323	5.105	5.157
	Operation weight				kg		4.951	4.634	4.639	5.398	5.180	5.242
Air heat exchanger	Type						Microchannel					
Compressor	Type						Screw compressor					
	Quantity						2	1			2	
Fan	Type						Direct propeller					
	Quantity						12	10			12	
	Air flow rate	Cooling	Nom.		l/s		67.860	56.540			67.860	
Sound power level	Cooling	Nom.			dBA		100,6	104,5	101,7	98,8	100,9	105,5
Sound pressure level	Cooling	Nom.			dBA		79,43	83,77	80,97	78,1	79,75	84,34
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46					
Refrigerant	Type/GWP						R-1234(ze)/1,4					
	Charge				kg		65		70	75		85
	Circuits	Quantity					2	1			2	
Piping connections	Evaporator water inlet/outlet (OD)				mm		139,7				168,3	
Unit	Starting current	Max			A		0					
	Running current	Cooling	Nom.		A		299	276,8	306,6	296,2	334,4	375,7
		Max			A		364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400					

EWAH-TZXSD

EWAD_H_S-TZ-D

MicroTech 4

					EWAH-TZXSD	620	645	700	750	790	840
SEER						5,558	6,211	6,102	6,362	6,407	6,296
Cooling capacity	Nom.			kW		617	641,9	697,1	752,7	788,8	841,2
Power input	Cooling	Nom.		kW		191	186	209,1	219	225,9	249,4
Capacity control	Method					Stepless					
	Minimum capacity			%		25	14	13	12		11
EER						3,231	3,452	3,334	3,437	3,491	3,373
IPLV						5,741	6,446	6,347	6,608	6,64	6,479
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		5.800	6.880		7.960	9.040	
Weight	Unit			kg		5.323	5.414		6.151	6.633	
	Operation weight			kg		5.408	5.504	5.509	6.256	6.743	6.748
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1	2				
Fan	Type					Direct propeller					
	Quantity					10	12		14	16	
	Air flow rate	Cooling	Nom.	l/s		56.540	67.860		79.170	90.480	
Sound power level	Cooling	Nom.		dBA		100,5	98,1	100,1	100,9	101,5	102,8
Sound pressure level	Cooling	Nom.		dBA		79,81	76,91	78,9	79,3	79,61	80,92
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/1,4					
	Charge			kg		85	90	95	105	110	115
	Circuits	Quantity				1	2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		139,7	168,3		219,1		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		353,5	388,6	428,2	445,5	457,9	493,4
		Max		A		491	472	517	527	579	618
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

					EWAH-TZXSD	900	975	H10	H11	H12	H13
SEER						6,195	6,234	6,183	5,865	5,933	5,988
Cooling capacity	Nom.			kW		897,2	972,1	1.082	1.184	1.275	1.383
Power input	Cooling	Nom.		kW		273,7	299,9	326,1	346,2	380	415,3
Capacity control	Method					Stepless					
	Minimum capacity			%			10		14	13	12
EER						3,278	3,242	3,318	3,42	3,355	3,33
IPLV						6,36	6,383	6,42	6,367	6,514	6,481
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		9.040	10.120		11.200	12.280	13.360
Weight	Unit			kg		6.722	7.203	8.091	8.760	9.242	9.723
	Operation weight			kg		6.847	7.338	8.241	8.925	9.417	9.913
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					16	18	20		22	24
	Air flow rate	Cooling	Nom.	l/s		90.480	101.772	113.080		124.388	135.696
Sound power level	Cooling	Nom.		dBA		105,1	106,8	104,7	102,7	103,6	104,5
Sound pressure level	Cooling	Nom.		dBA		83,2	84,61	82,17	80,14	80,78	81,43
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/1,4					
	Charge			kg		125	135	150	165	175	190
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1		273			
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		530,6	575,7	623,9	651,9	708,1	768,7
		Max		A		655	702	787	902	992	1.090
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAH-TZXRD

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air to water inverter series with extension of capacity range
- New single screw compressor geometry allowing performance optimization
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EWAH-TZXRD

						EWAH-TZXRD	220	230	275	300	350	400
SEER							5,404	5,363	5,942	5,775	6,188	6,026
Cooling capacity	Nom.				kW		216,3	228,3	271,7	295,3	345,2	393,5
Power input	Cooling	Nom.			kW		68,5	75,92	81,59	92,45	98,6	122,2
Capacity control	Method						Stepless					
	Minimum capacity				%		22	20	18	16	25	22
EER							3,157	3,007	3,33	3,194	3,501	3,219
IPLV							6,058	6,007	6,144	6,065	6,641	6,619
Dimensions	Unit	Height			mm		2.553					
		Width			mm		2.238					
		Depth			mm		2.680		3.760		4.840	
Weight	Unit				kg		2.851		3.362		4.143	
	Operation weight				kg		2.761		3.277	3.282	4.068	4.078
Air heat exchanger	Type						Microchannel					
Compressor	Type						Screw compressor					
	Quantity						1					
Fan	Type						Direct propeller					
	Quantity						4		6		8	
	Air flow rate	Cooling	Nom.		l/s		18.890		28.330		37.770	
Sound power level	Cooling	Nom.			dBA		86,7	86,9	89,3	89,9	87,9	89,4
Sound pressure level	Cooling	Nom.			dBA		67,62	67,78	69,6	70,14	67,59	69,17
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46					
Refrigerant	Type/GWP						R-1234(ze)/1,4					
	Charge				kg		30		35	40	45	55
	Circuits	Quantity					1					
Piping connections	Evaporator water inlet/outlet (OD)				mm		88,9				139,7	
Unit	Starting current	Max			A		0					
	Running current	Cooling	Nom.		A		150,2	163,3	180,6	199,6	216,9	249,8
		Max			A		172	183	214	236	269	310
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400					

						EWAH-TZXRD	465	470	515	540	545	600
SEER							6,02	6,284	6,103	5,588	6,133	6,042
Cooling capacity	Nom.				kW		467,2	461,6	497,8	528	537,6	594,3
Power input	Cooling	Nom.			kW		132,7	139,1	159,9	153,8	153,6	178,3
Capacity control	Method						Stepless					
	Minimum capacity				%		10	19	17	30	10	
EER							3,52	3,319	3,112	3,434	3,494	3,334
IPLV							6,273	6,667	6,49	5,796	6,414	6,301
Dimensions	Unit	Height			mm		2.553					
		Width			mm		2.238					
		Depth			mm		7.000		5.920		7.000	
Weight	Unit				kg		5.006		4.689	5.443	5.225	5.277
	Operation weight				kg		4.951	4.634	4.639	5.398	5.180	5.242
Air heat exchanger	Type						Microchannel					
Compressor	Type						Screw compressor					
	Quantity						2		1		2	
Fan	Type						Direct propeller					
	Quantity						12		10		12	
	Air flow rate	Cooling	Nom.		l/s		56.660		47.213		56.660	
Sound power level	Cooling	Nom.			dBA		90,5	93,3	91,1	89,2	90,8	94,2
Sound pressure level	Cooling	Nom.			dBA		69,38	72,53	70,32	68,42	69,59	73,07
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~46					
Refrigerant	Type/GWP						R-1234(ze)/1,4					
	Charge				kg		65		70	75		85
	Circuits	Quantity					2		1		2	
Piping connections	Evaporator water inlet/outlet (OD)				mm		139,7				168,3	
Unit	Starting current	Max			A		0					
	Running current	Cooling	Nom.		A		305,9	283,6	314,9	306,1	343,5	386,6
		Max			A		364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400					

EWAH-TZXRD

EWAD_H_S-TZ-D MicroTech 4

					EWAH-TZXRD	620	645	700	750	790	840
SEER						5,467	6,207	6,095	6,392	6,417	6,318
Cooling capacity	Nom.			kW		607,1	632,8	687,3	743,4	780,8	831,9
Power input	Cooling	Nom.		kW		194,4	186,7	211,1	220	225,2	250,2
Capacity control	Method					Stepless					
	Minimum capacity			%		25	14	13	12		11
EER						3,123	3,389	3,255	3,379	3,467	3,325
IPLV						5,64	6,46	6,317	6,633	6,648	6,52
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		5.920	7.000		8.080	9.160	
Weight	Unit			kg		5.443	5.534		6.271	6.753	
	Operation weight			kg		5.408	5.504	5.509	6.256	6.743	6.748
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1	2				
Fan	Type					Direct propeller					
	Quantity					10	12		14	16	
	Air flow rate	Cooling	Nom.	l/s		47.213	56.660		66.098	75.540	
Sound power level	Cooling	Nom.		dBA		90,2	89,1	90,2	91	91,6	92,4
Sound pressure level	Cooling	Nom.		dBA		69,5	67,94	69,04	69,4	69,68	70,53
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/1,4					
	Charge			kg		85	90	95	105	110	115
	Circuits	Quantity				1	2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		139,7	168,3		219,1		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		366,7	401,1	433,8	454,5	470	507,6
		Max		A		491	472	517	527	579	618
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

					EWAH-TZXRD	900	975	H10	H11	H12	H13
SEER						6,216	6,252	6,226	5,875	5,942	5,987
Cooling capacity	Nom.			kW		886	959,8	1.066	1.167	1.257	1.363
Power input	Cooling	Nom.		kW		276	301,6	327,9	351,2	384,5	419,4
Capacity control	Method					Stepless					
	Minimum capacity			%			10		14	13	12
EER						3,21	3,182	3,251	3,323	3,268	3,251
IPLV						6,407	6,445	6,447	6,498	6,388	6,435
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		9.160	10.240		11.320	12.400	13.480
Weight	Unit			kg		6.842	7.323	8.211	8.880	9.362	9.843
	Operation weight			kg		6.847	7.338	8.241	8.925	9.417	9.913
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					16	18	20		22	24
	Air flow rate	Cooling	Nom.	l/s		75.540	84.983	94.425		103.868	113.320
Sound power level	Cooling	Nom.		dBA		94,1	95,6	94,1	92,7	93,4	94,2
Sound pressure level	Cooling	Nom.		dBA		72,22	73,4	71,53	70,14	70,59	71,07
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/1,4					
	Charge			kg		125	135	150	165	175	190
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1		273			
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		547,1	592,9	642,8	675,5	732,6	793,9
		Max		A		655	702	787	902	992	1.090
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAH-TZPSD

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

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

EWAH-TZPSD

					EWAH-TZPSD	225	265	295	340	395	420
SEER						6,234	6,353	6,334	6,977	6,709	6,849
Cooling capacity	Nom.				kW	227,3	266,6	293,6	336,7	392	421,5
Power input	Cooling	Nom.			kW	61,76	71,25	81,63	84,16	105,1	113,2
Capacity control	Method					Stepless					
	Minimum capacity				%	22	19	17	28	23	22
EER						3,6	3,618	3,499	3,853	3,651	3,612
IPLV						6,688	6,689	6,595	7,437	7,042	7,251
Dimensions	Unit	Height			mm	2.553					
		Width			mm	2.238					
		Depth			mm	3.640	4.720		5.800		6.880
Weight	Unit				kg	3.212	3.724		4.569		5.050
	Operation weight				kg	3.242	3.759	3.764	4.614	4.624	5.110
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					6	8		10		12
	Air flow rate	Cooling	Nom.		l/s	33.930	45.240		56.540		67.848
Sound power level	Cooling	Nom.			dBA	97,5	98,1	102,6	95,7	98,7	100,1
Sound pressure level	Cooling	Nom.			dBA	77,74	77,83	82,3	75	77,94	78,89
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/1,4					
	Charge				kg	30	35	40	45	55	60
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)				mm	88,9			139,7		
Unit	Starting current	Max			A	0					
	Running current	Cooling	Nom.		A	142,3	166,7	184,7	196,1	230,8	248
		Max			A	183	214	235	258	301	330
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400					

					EWAH-TZPSD	490	500	540	545	615
SEER						6,786	6,44	6,576	6,09	6,865
Cooling capacity	Nom.				kW	848,9	502,6	538,7	541,2	612,4
Power input	Cooling	Nom.			kW	133,4	132,3	141,6	143,6	156,8
Capacity control	Method					Stepless				
	Minimum capacity				%	19	10		30	15
EER						3,561	3,737	3,721	3,736	3,843
IPLV						7,093	6,797	6,932	6,385	7,155
Dimensions	Unit	Height			mm	2.553				
		Width			mm	2.238				
		Depth			mm	6.880		7.960	6.880	7.960
Weight	Unit				kg	5.136	5.157	5.639	5.805	6.151
	Operation weight				kg	5.201	5.227	5.714	5.880	6.236
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					1	2		1	2
Fan	Type					Direct propeller				
	Quantity					12		14	12	14
	Air flow rate	Cooling	Nom.		l/s	67.848		79.170	67.848	79.170
Sound power level	Cooling	Nom.			dBA	104,6	100,6	100,9	99	96,6
Sound pressure level	Cooling	Nom.			dBA	83,39	79,43	79,35	77,82	75,06
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/1,4				
	Charge				kg	65	70	75		85
	Circuits	Quantity				1	2		1	2
Piping connections	Evaporator water inlet/outlet (OD)				mm	139,7	168,3		139,7	219,1
Unit	Starting current	Max			A	0				
	Running current	Cooling	Nom.		A	278	298,6	322,3	290,8	347,4
		Max			A	367	375	406	425	432
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400				

EWAH-TZPSD

EWAD_H_S-TZ-D MicroTech 4

					EWAH-TZPSD	645	700	770	845	900
SEER						6,816	6,672	6,656	6,712	6,595
Cooling capacity	Nom.			kW		640,9	697,3	768,3	847,6	901,3
Power input	Cooling	Nom.		kW		167,4	190,8	209,2	230,4	254,6
Capacity control	Method					Stepless				
	Minimum capacity			%		14	13	12	11	10
EER						3,782	3,642	3,648		3,528
IPLV						7,157	6,992	6,965	7,134	6,932
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		7.960		9.040	10.120	
Weight	Unit			kg		6.151		6.722	7.256	
	Operation weight			kg		6.241	6.246	6.827	7.371	7.381
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16	18	
	Air flow rate	Cooling	Nom.	l/s		79.170		90.480	101.780	
Sound power level	Cooling	Nom.		dBA		97,5	99,3	101	102,3	104,2
Sound pressure level	Cooling	Nom.		dBA		75,95	77,76	79,04	80,05	81,92
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/1,4				
	Charge			kg		90	95	105	115	125
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		365	403,1	437,5	473,2	507,8
		Max		A		458	505	558	609	647
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

					EWAH-TZPSD	960	C10	H10	H11	C12
SEER						6,596	6,52	6,564	6,262	6,327
Cooling capacity	Nom.			kW		958,2	1.006	1.068	1.163	1.216
Power input	Cooling	Nom.		kW		268,9	289,6	305,9	315,5	327,6
Capacity control	Method					Stepless				
	Minimum capacity			%		10			14	
EER						3,54	3,462	3,469	3,7	3,712
IPLV						6,912	6,746	6,815	6,562	7,068
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		11.200		12.280		13.360
Weight	Unit			kg		8.050		8.573	9.242	9.723
	Operation weight			kg		8.180	8.190	8.723	9.402	9.893
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					20		22		24
	Air flow rate	Cooling	Nom.	l/s		113.089		140.200		152.945
Sound power level	Cooling	Nom.		dBA		106,5	106,9	105,5	102,4	102,8
Sound pressure level	Cooling	Nom.		dBA		83,96	84,32	82,67	79,52	79,71
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/1,4				
	Charge			kg		130	140	150	160	170
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		273				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		539,6	569,4	603	612	638,1
		Max		A		694	731	779	875	923
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

EWAH-TZPRD

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air to water inverter series with extension of capacity range
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
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EWAH-TZPRD

					EWAH-TZPRD	225	265	295	340	395	420
SEER						6,176	6,335	6,289	7,018	6,627	6,824
Cooling capacity	Nom.				kW	225,2	264,6	291,2	333,9	389,2	419,1
Power input	Cooling	Nom.			kW	61,76	71,25	81,63	84,16	105,1	113,2
Capacity control	Method					Stepless					
	Minimum capacity				%	22	19	17	28	23	22
EER						3,647	3,713	3,567	3,967	3,705	3,703
IPLV						6,699	6,688	6,583	7,472	7,129	7,273
Dimensions	Unit	Height			mm	2.553					
		Width			mm	2.238					
		Depth			mm	3.760	4.840		5.920		7.000
Weight	Unit				kg	3.332	3.844		4.689		5.170
	Operation weight				kg	3.242	3.759	3.764	4.614	4.624	5.110
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					6	8		10		12
	Air flow rate	Cooling	Nom.		l/s	28.330	37.770		47.213		56.660
Sound power level	Cooling	Nom.			dBA	87,5	88,3	91,5	87,6	89,1	90,2
Sound pressure level	Cooling	Nom.			dBA	67,73	68,06	71,23	66,88	68,33	69,04
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46					
Refrigerant	Type/GWP					R-1234(ze)/1,4					
	Charge				kg	30	35	40	45	55	60
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)				mm	88,9			139,7		
Unit	Starting current	Max			A	0					
	Running current	Cooling	Nom.		A	145,5	169,8	188,1	199,8	235,9	252,3
		Max			A	183	214	235	258	301	330
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400					

					EWAH-TZPRD	490	500	540	545	615
SEER						6,728	6,458	6,426	6,091	6,484
Cooling capacity	Nom.				kW	481,2	497,4	533,5	536,5	604,9
Power input	Cooling	Nom.			kW	133,4	132,3	141,6	143,6	156,8
Capacity control	Method					Stepless				
	Minimum capacity				%	19	10		30	15
EER						3,606	3,76	3,768	3,736	3,858
IPLV						7,127	6,826	6,955	6,407	7,285
Dimensions	Unit	Height			mm	2.553				
		Width			mm	2.238				
		Depth			mm	7.000		8.080	7.000	8.080
Weight	Unit				kg	5.256	5.277	5.759	5.925	6.271
	Operation weight				kg	5.201	5.227	5.714	5.880	6.236
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					1	2		1	2
Fan	Type					Direct propeller				
	Quantity					12		14	12	14
	Air flow rate	Cooling	Nom.		l/s	56.660		66.098	56.660	66.098
Sound power level	Cooling	Nom.			dBA	93,4	90,5	91	89,6	88,9
Sound pressure level	Cooling	Nom.			dBA	72,28	69,38	69,43	68,42	67,29
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/1,4				
	Charge				kg	65	70	75		85
	Circuits	Quantity				1	2		1	2
Piping connections	Evaporator water inlet/outlet (OD				mm	139,7	168,3		139,7	219,1
Unit	Starting current	Max			A	0				
	Running current	Cooling	Nom.		A	283,4	305,9	329,8	298,5	355,9
		Max			A	367	375	406	425	432
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400				

EWAH-TZPRD

EWAD_H_S-TZ-D MicroTech 4

					EWAH-TZPRD	645	700	770	845	900
SEER						6,833	6,649	6,674	6,722	6,613
Cooling capacity	Nom.			kW		633,1	689	760,6	839,9	892,3
Power input	Cooling	Nom.		kW		167,4	190,8	209,2	230,4	254,6
Capacity control	Method					Stepless				
	Minimum capacity			%		14	13	12	11	10
EER						3,783	3,612	3,636	3,646	3,504
IPLV						7,162	7,001	6,458	7,118	6,974
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		8.080		9.160	10.240	
Weight	Unit			kg		6.271		6.842	7.376	
	Operation weight			kg		6.241	6.246	6.827	7.371	7.381
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16	18	
	Air flow rate	Cooling	Nom.	l/s		66.098		75.540	84.983	
Sound power level	Cooling	Nom.		dBA		89,2	90,1	91,2	92,3	93,5
Sound pressure level	Cooling	Nom.		dBA		67,65	68,52	69,33	70,02	71,3
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/1,4				
	Charge			kg		90	95	105	115	125
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		374,4	414,8	449,1	484,8	521,2
		Max		A		458	505	558	609	647
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

					EWAH-TZPRD	960	C10	H10	H11	C12
SEER						6,665	6,53	6,577	6,262	6,255
Cooling capacity	Nom.			kW		949,1	994,9	1.056	1.150	1.204
Power input	Cooling	Nom.		kW		268,9	289,6	305,9	315,5	327,6
Capacity control	Method					Stepless				
	Minimum capacity			%		10			14	
EER						3,53	3,435	3,452	3,644	3,675
IPLV						6,918	6,794	6,863	6,451	6,947
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		11.320		12.400		13.480
Weight	Unit			kg		8.170		8.693	9.362	9.843
	Operation weight			kg		8.180	8.190	8.723	9.402	9.893
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					20		22		24
	Air flow rate	Cooling	Nom.	l/s		94.425		103.868		113.320
Sound power level	Cooling	Nom.		dBA		95,4	95,7	94,8	92,6	93,1
Sound pressure level	Cooling	Nom.		dBA		72,9	73,2	71,92	69,81	69,96
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~46				
Refrigerant	Type/GWP					R-1234(ze)/1,4				
	Charge			kg		130	140	150	160	170
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		273				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		552,9	584,1	617,4	631,3	656,9
		Max		A		694	731	779	875	923
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

EWAS-TZBSD

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

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EWAS-TZBSD

					EWAS-TZBSD	275	320	345	400	470	525
SEER						4,3	4,4			4,6	
Cooling capacity	Nom.				kW	258,8	310,6	338,2	405,8	451,2	505,5
Power input	Cooling				kW	97,8	106,4	122,7	145,2	170,8	178,3
Capacity control	Method					Stepless					
	Minimum capacity				%	22	19	17	22	23	22
EER						2,646	2,919	2,756	2,795	2,642	2,835
IPLV						4,3	4,5	4,4	4,7	4,6	
Dimensions	Unit	Height			mm	2.553					
		Width			mm	2.238					
		Depth			mm	2.560	3.640				4.720
Weight	Unit				kg	2.602	3.084		3.486		4.032
	Operation weight				kg	2.677	3.169		3.583,7	3.593,7	4.160,1
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					4	6				8
	Air flow rate	Cooling	Nom.		l/s	25.490	38.235				50.990
Sound power level	Cooling	Nom.			dBA	97,4	97,9	100	97,3	96,7	97,7
Sound pressure level	Cooling	Nom.			dBA	78,3	78,2	80,3	77,6	77	77,4
Operation range	Air side	Cooling	Min.~Max.		°CDB	5 ~42					
Refrigerant	Type/GWP					R-513A/629,5					
	Charge				kg	35	45		55	65	70
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)				mm	88,9			139,7		
Unit	Starting current	Max			A	0					
	Running	Cooling	Nom.		A	190,1	207,1	228,7	262	300,2	315,2
	current	Max			A	220	262	284	346	362	400
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400					

					EWAS-TZBSD	580	625	755	830	915
SEER						4,7		4,6		4,7
Cooling capacity	Nom.				kW	554,9	597,4	734	800,1	884,2
Power input	Cooling				kW	210,4	244,8	246,3	284,8	319,3
Capacity control	Method					Stepless				
	Minimum capacity				%	19	17	13	11	13
EER						2,637	2,44	2,98	2,809	2,769
IPLV						4,5		4,8	4,7	
Dimensions	Unit	Height			mm	2.553				
		Width			mm	2.238				
		Depth			mm	4.720		6.880		
Weight	Unit				kg	4.032		5.670		6.142
	Operation weight				kg	4.170,1	4.175,1	6.055	6.065	6.748
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					1		2		
Fan	Type					Direct propeller				
	Quantity					8		12		
	Air flow rate	Cooling	Nom.		l/s	50.990		76.470		
Sound power level	Cooling	Nom.			dBA	98,1	100,5	99	100	99
Sound pressure level	Cooling	Nom.			dBA	77,8	80,3	77,8	78,8	77,8
Operation range	Air side	Cooling	Min.~Max.		°CDB	5 ~42				
Refrigerant	Type/GWP					R-513A/629,5				
	Charge				kg	80	85	105	115	125
	Circuits	Quantity				1		2		
Piping connections	Evaporator water inlet/outlet (OD)				mm	139,7		168,3		219,1
Unit	Starting current	Max			A	0				
	Running	Cooling	Nom.		A	362,8	413,9	457,4	515,3	568,4
	current	Max			A	457	464	600	668	
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400				

EWAS-TZBSD

EWAD_H_S-TZ-D

MicroTech 4

					EWAS-TZBSD	C10	H10	H11	C12	C13	C14
SEER								4,7			4,6
Cooling capacity	Nom.			kW		953,9	1.050	1.127	1.197	1.293	1.359,6
Power input	Cooling			kW		371,96	393,3	411,8	434,6	472,69	519,9
Capacity control	Method							Stepless			
	Minimum capacity			%		11			10		
EER						2,565	2,67	2,737	2,754	2,735	2,615
IPLV						4,7	4,8		4,7	4,6	
Dimensions	Unit	Height		mm				2.553			
		Width		mm				2.238			
		Depth		mm		6.880	7.960	9.040	10.120	11.200	
Weight	Unit			kg		6.142	6.816	7.297	7.779	8.260	8.581
	Operation weight			kg		6.763	7.523	8.014	8.506	9.002	9.333
Air heat exchanger	Type							Microchannel			
Compressor	Type							Screw compressor			
	Quantity							2			
Fan	Type							Direct propeller			
	Quantity					12	14	16	18	20	
	Air flow rate	Cooling	Nom.	l/s		76.470	89.233	101.980	114.705	127.450	
Sound power level	Cooling	Nom.		dBA		100	100,7	101	101,8	103,7	104,8
Sound pressure level	Cooling	Nom.		dBA		78,8	79,1		79,6	81,2	82,3
Operation range	Air side	Cooling	Min.~Max.	°CDB				5 ~42			
Refrigerant	Type/GWP							R-513A/629,5			
	Charge			kg		140	150	160	170	185	195
	Circuits	Quantity						2			
Piping connections	Evaporator water inlet/outlet (OD)			mm				219,1			
Unit	Starting current	Max		A				0			
	Running	Cooling	Nom.	A		647,2	681,9	711,6	748,1	807,1	876,6
	current	Max		A		751	817	884	930	948	1.120
Power supply	Phase/Frequency/Voltage			Hz/V				3~/50 /400			

					EWAS-TZBSD	C15	H16	H17	H18	H19
SEER						4,6	4,9	4,8	4,7	4,8
Cooling capacity	Nom.			kW		1.483,5	1.606	1.688	1.799,6	1.868
Power input	Cooling			kW		558,77	581,2	647,2	699,02	775,2
Capacity control	Method							Stepless		
	Minimum capacity			%		10	13	12	11	10
EER						2,655	2,763	2,608	2,574	2,41
IPLV						4,6	5,2		5,1	
Dimensions	Unit	Height		mm				2.553		
		Width		mm				2.238		
		Depth		mm			12.280		13.360	
Weight	Unit			kg		9.920	10.323		10.805	
	Operation weight			kg		11.146	11.564	11.579	12.076	12.086
Air heat exchanger	Type							Microchannel		
Compressor	Type							Screw compressor		
	Quantity							2		
Fan	Type							Direct propeller		
	Quantity						22		24	
	Air flow rate	Cooling	Nom.	l/s			140.195		152.940	
Sound power level	Cooling	Nom.		dBA		106,2	104,1	104,9	105,8	106,6
Sound pressure level	Cooling	Nom.		dBA		83,4	81,2	82	82,7	83,5
Operation range	Air side	Cooling	Min.~Max.	°CDB				5 ~ 42		
Refrigerant	Type/GWP							R-513A/629,5		
	Charge			kg		215	230	245	260	270
	Circuits	Quantity						2		
Piping connections	Evaporator water inlet/outlet (OD)			mm				273		
Unit	Starting current	Max		A				0		
	Running	Cooling	Nom.	A		940,2	972,2	1.069	1.148	1.261
	current	Max		A		1.200	1.227	1.340	1.475	1.608
Power supply	Phase/Frequency/Voltage			Hz/V				3~/50 /400		

EWAS-TZSSD

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

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EWAS-TZSSD

						EWAS-TZSSD	285	325	380	430	495	520	535
SEER							5,2	5,4	5,5	5,2	5,1	4,9	5,3
Cooling capacity	Nom.				kW		284,9	329,3	374,3	426,2	487,5	522	529,7
Power input	Cooling	Nom.			kW		89,25	103,6	120,5	138,8	161,5	172,1	170,5
Capacity control	Method						Stepless						
	Minimum capacity				%		22	19	17	22	23	11	22
EER							3,192	3,179	3,106	3,071	3,019	3,033	3,107
IPLV							5,5	5,6	5,7	5,8	5,6	5,2	5,7
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		3.640	4.720				5.800	
Weight	Unit				kg		3.084	3.604		3.968	4.032	4.693	4.513
	Operation weight				kg		3.164	3.697	3.702	4.070,7	4.155,1	5.033	4.646,1
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						1					2	1
Fan	Type						Direct propeller						
	Quantity						6	8				10	
	Air flow rate	Cooling	Nom.		l/s		38.240	50.990				63.733	
Sound power level	Cooling	Nom.			dBA		97,8	98,3	100,2	97,7	97,1	99,3	98
Sound pressure level	Cooling	Nom.			dBA		78		80	77,4	76,9	78,6	77,3
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~42						
Refrigerant	Type/GWP						R-513A/629,5						
	Charge				kg		40	45	50	60	65	70	75
	Circuits	Quantity					1					2	1
Piping connections	Evaporator water inlet/outlet (OD)				mm		88,9			139,7		168,3	139,7
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		182,7	211,5	234,4	261,8	296,6	349,9	314,5
		Max			A		231	272	294	357	372	421	411
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

						EWAS-TZSSD	555	585	595	645	650	705	760
SEER							5	4,9	5,2	5	5,2	4,9	5
Cooling capacity	Nom.				kW		553,9	583,2	585,6	645,1	635,1	702,3	758,2
Power input	Cooling	Nom.			kW		188,8	206,6	200,1	214,8	231	249,4	239,4
Capacity control	Method						Stepless						
	Minimum capacity				%		10		19	10	17	10	13
EER							2,934	2,823	2,927	3,003	2,749	2,816	3,167
IPLV							5,1		5,6	5,2	5,5	5,1	5,7
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		5.800			6.880	5.800	6.880	7.960
Weight	Unit				kg		4.693		4.513	5.177	4.513	5.177	6.151
	Operation weight				kg		5.038	5.043	4.651,1	5.522	4.661,1	5.527	6.536
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						2		1	2	1	2	
Fan	Type						Direct propeller						
	Quantity						10			12	10	12	14
	Air flow rate	Cooling	Nom.		l/s		63.733			76.480	63.733	76.480	89.233
Sound power level	Cooling	Nom.			dBA		99,5	100,7	98,4	100,9	100,7	103	99,2
Sound pressure level	Cooling	Nom.			dBA		78,7	79,9	77,7	79,8	80	81,9	77,7
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~42						
Refrigerant	Type/GWP						R-513A/629,5						
	Charge				kg		75	80		90		95	105
	Circuits	Quantity					2		1	2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)				mm		168,3		139,7	168,3	139,7	168,3	
Unit	Starting current	Max			A		0						
	Running current	Cooling	Nom.		A		378,9	409,6	358,4	427,8	404,3	472,9	461,3
		Max			A		450	481	467	523	474	566	610
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

EWAS-TZSSD

EWAD_H_S-TZ-D MicroTech 4

					EWAS-TZSSD	835	960	C10	H10	H11	H12	H13
SEER						5,2	5,3	5,2		5,3	5,4	
Cooling capacity	Nom.			kW		832,7	948,8	1.001	1.043	1.149	1.268	1.359
Power input	Cooling	Nom.		kW		274,7	321,4	354,4	375	408,9	436,8	477,3
Capacity control	Method					Stepless						
	Minimum capacity			%		11	12	11		10		
EER						3,031	2,952	2,824	2,781	2,81	2,903	2,847
IPLV						5,6	5,5	5,4	5,5	5,4	5,5	
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		7.960				9.040	11.200	12.280
Weight	Unit			kg		6.151	6.623		6.816	7.297	8.260	8.742
	Operation weight			kg		6.546	7.239	7.244	7.518	8.014	8.992	9.489
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					14				16	20	22
	Air flow rate	Cooling	Nom.	l/s		89.233				101.908	127.467	140.213
Sound power level	Cooling	Nom.		dBA		100,2	99,6	100,2	100,5	101	102,5	104,2
Sound pressure level	Cooling	Nom.		dBA		78,7	78	78,7	78,9	79,1	79,9	81,3
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-513A/629,5						
	Charge			kg		115	135	140	145	160	175	190
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)			mm		168,3	219,1					
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		514,3	585,7	635	666,1	720,5	770,5	834,6
		Max		A		679	706	761	789	884	948	1.187
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

					EWAS-TZSSD	H14	H15	H16	H17	H18	H19
SEER						5,2	5,5	5,4		5,3	5,1
Cooling capacity	Nom.			kW		1.465	1.542	1.638	1.756	1.837	
Power input	Cooling	Nom.		kW		526,1	516,5	577,2	627,5	695,5	
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	10
EER						2,785	2,985	2,838	2,798	2,641	
IPLV						5,4	6,1	5,9	5,8	5,7	5,5
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		12.280				13.360	
Weight	Unit			kg		9.920	10.323			10.805	
	Operation weight			kg		11.136	11.549	11.564	12.066	12.076	12.086
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					22				24	
	Air flow rate	Cooling	Nom.	l/s		140.213				152.960	
Sound power level	Cooling	Nom.		dBA		105,3	103,3	104,1	104,9	105,8	106,6
Sound pressure level	Cooling	Nom.		dBA		82,5	80,5	81,2	81,8	82,7	83,5
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-513A/629,5					
	Charge			kg		205	215	230	250	260	270
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		273					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		910,1	894,9	984,4	1.062	1.163	
		Max		A		1.156	1.124	1.227	1.351	1.475	1.608
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAS-TZXSD

- Refrigerant R-513A
- New generation of air to water inverter series with extension of capacity range
- New single screw compressor geometry allowing performance optimization
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- Premium energy efficiency both at full and part load conditions
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- Performance monitoring
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EWAS-TZXSD

						EWAS-TZXSD	295	345	380	440	515	525	565
SEER							5,2	5,4	5,5	5,2	5,1	5	5,3
Cooling capacity	Nom.				kW		293,5	344,9	377,1	435,9	506,6	524,4	560,5
Power input	Cooling				kW		94,89	108,5	124,1	127,6	159,3	155	171,5
Capacity control	Method						Stepless						
	Minimum capacity				%		22	19	17	28	23	13	22
EER							3,093	3,179	3,039	3,416	3,18	3,383	3,268
IPLV							5,8	6,1	5,9	6,3	6,1	6	6,5
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		3.640	4.720		5.800		6.880	
Weight	Unit				kg		3.255	3.775		4.569		5.348	5.136
	Operation weight				kg		3.335	3.868	3.873	4.687,1	4.697,1	5.673	5.287,3
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						1					2	1
Fan	Type						Direct propeller						
	Quantity						6	8		10		12	
	Air flow rate	Cooling	Nom.		l/s		33.930	45.240		56.540		67.860	68.280
Sound power level	Cooling	Nom.			dBA		97,5	98,1	102,6	95,7	97,5	100,1	
Sound pressure level	Cooling	Nom.			dBA		79,9	81,8	82,8	74,6	75,8	78,9	76,2
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~42						
Refrigerant	Type/GWP						R-513A/629,5						
	Charge				kg		40	45	50	60	70		75
	Circuits	Quantity							1			2	1
Piping connections	Evaporator water inlet/outlet (OD)				mm			88,9		139,7		168,3	139,7
Unit	Starting current	Max			A					0			
	Running current	Cooling	Nom.		A		198,1	227,3	247	258,3	305,8	334,1	331
		Max			A		224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

						EWAS-TZXSD	565	610	635	670	705	725	760
SEER							4,9	5	5,2	4,9	5,2	5	4,9
Cooling capacity	Nom.				kW		560,5	610,4	626,7	665,8	696,1	719,7	749,1
Power input	Cooling				kW		171,5	187,8	202,4	214,2	220,6	233,6	248,3
Capacity control	Method						Stepless						
	Minimum capacity				%		12	11	19	10	30	10	28
EER							3,268	3,25	3,096	3,108	3,155	3,081	3,017
IPLV							5,9	6	6,2	5,8	5,6	5,9	5,5
Dimensions	Unit	Height			mm		2.553						
		Width			mm		2.238						
		Depth			mm		6.880	7.960	6.880	7.960	6.880	7.960	6.880
Weight	Unit				kg		5.348	5.829	5.136	5.829	5.805	5.946	5.805
	Operation weight				kg		5.683	6.169	5.297,3	6.174	5.976,3	6.344	5.986,3
Air heat exchanger	Type						Microchannel						
Compressor	Type						Screw compressor						
	Quantity						2		1	2	1	2	1
Fan	Type						Direct propeller						
	Quantity						12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.		l/s		67.860	79.170	68.280	79.170	68.280	79.170	68.280
Sound power level	Cooling	Nom.			dBA		100,3	100,6	104,6	100,9	99	102,3	99,8
Sound pressure level	Cooling	Nom.			dBA		80,2	81,2	76,6	83,3	77,8	83,8	78,6
Operation range	Air side	Cooling	Min.~Max.		°CDB		-20 ~42						
Refrigerant	Type/GWP						R-513A/629,5						
	Charge				kg		80	85		90	95	100	105
	Circuits	Quantity					2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				mm		168,3		139,7	168,3	139,7	168,3	139,7
Unit	Starting current	Max			A					0			
	Running current	Cooling	Nom.		A		331	397,7	377,1	443,2	403,7	464,7	444,5
		Max			A		429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage				Hz/V		3~/50 /400						

EWAS-TZXSD

EWAD_H_S-TZ-D

MicroTech 4

					EWAS-TZXSD	805	880	950	C10	H10	H11	C12
SEER						5,2	5,3	5,2		5,3	5,4	
Cooling capacity	Nom.			kW		794,9	873,2	941,6	988,1	1.052	1.122	1.183
Power input	Cooling			kW		246,2	266,2	300,2	310,7	346,2	357,9	393,7
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
EER						3,229	3,28	3,137	3,18	3,039	3,135	3,005
IPLV						6	6,4	6,2	6,3	6,1	6,3	6,1
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		9.040			10.120		11.200	
Weight	Unit			kg		6.904	7.160		7.642		8.316	
	Operation weight			kg		7.495	7.761	7.771	8.258	8.268	9.028	9.038
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		90.480			101.772		113.080	
Sound power level	Cooling	Nom.		dBA		104,6	98,4	100,3	101	102,3	102,9	105,2
Sound pressure level	Cooling	Nom.		dBA		83,9	76,1	76,5	76,8	77,5	77,6	77,9
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-513A/629,5						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1						
Unit	Starting current	Max		A		0						
	Running current	Cooling	Nom.	A		466,5	520,3	571,1	592,9	645,8	669,5	722,6
		Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

					EWAS-TZXSD	H12	H13	H14	H15	H16	H17
SEER						5,2	5,5	5,4		5,3	5,1
Cooling capacity	Nom.			kW		1.267,2	1.344	1.442	1.551	1.645	1.734
Power input	Cooling			kW		426,7	452,1	446,3	503,1	562,8	628,6
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
EER						2,97	2,973	3,231	3,083	2,923	2,759
IPLV						6		6,1	6,2	6,1	5,9
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		11.200	12.280	13.360			
Weight	Unit			kg		8.316	9.655	10.805			
	Operation weight			kg		9.053	10.856	12.016	12.031	12.046	12.061
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22	24			
	Air flow rate	Cooling	Nom.	l/s		113.080	124.388	135.696			
Sound power level	Cooling	Nom.		dBA		107,5	106,1	102	102,8	103,7	104,5
Sound pressure level	Cooling	Nom.		dBA		78	79,1	78,9	79,7	80,5	81,4
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-513A/629,5					
	Charge			kg		180	190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1	273				
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		744,2	817,8	814,6	898,5	986,3	1.083
		Max		A		851	899	997	1.103	1.217	1.330
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAS-TZXRD

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

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EWAS-TZXRD

					EWAS-TZXRD	295	345	380	440	515	525	565
Capacity control	Method					Stepless						
	Minimum capacity			%		22	19	17	28	23	13	22
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		3.640	4.720		5.800		6.880	
Weight	Unit			kg		3.375	3.895		4.689		5.468	5.256
	Operation weight			kg		3.455	3.988	3.993	4.807,1	4.817,1	5.793	5.407,3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					1					2	1
Fan	Type					Direct propeller						
	Quantity					6	8		10		12	
	Air flow rate	Cooling	Nom.	l/s		28.330	37.770		47.213		56.660	
Sound power level	Cooling	Nom.		dBA		87,5	88,3	91,5	87,6	88,4	90,2	
Sound pressure level	Cooling	Nom.		dBA		67,7	68,1	71,2	66,9	67,7	69	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-134a/629,5						
	Charge			kg		40	45	50	60	70		75
	Circuits	Quantity				1					2	1
Piping connections	Evaporator water inlet/outlet (OD)			mm		88,9			139,7		168,3	139,7
Unit	Starting current	Max		A		0						
	Running current	Max		A		224	261	289	314	342	389	404
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

					EWAS-TZXRD	565	610	635	670	705	725	760
Capacity control	Method					Stepless						
	Minimum capacity			%		12	11	19	10	30	10	28
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		6.880	7.960	6.880	7.960	6.880	7.960	6.880
Weight	Unit			kg		5.468	5.949	5.256	5.949	5.925	6.066	5.925
	Operation weight			kg		5.803	6.289	5.417,3	6.294	6.096,3	6.464	6.106,3
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2		1	2	1	2	1
Fan	Type					Direct propeller						
	Quantity					12	14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s		56.660	66.098	56.660	66.098	56.660	66.098	56.660
Sound power level	Cooling	Nom.		dBA		90,3	90,8	93,4	91	89,6	91,9	90,1
Sound pressure level	Cooling	Nom.		dBA		69,2		72,3	69,4	68,4	70,3	68,9
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-134a/629,5						
	Charge			kg			85		90	95	100	105
	Circuits	Quantity				2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)			mm		168,3		139,7	168,3	139,7	168,3	139,7
Unit	Starting current	Max		A		0						
	Running current	Max		A		429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

EWAS-TZXRD

EWAD_H_S-TZ-D MicroTech 4

					EWAS-TZXRD	805	880	950	C10	H10	H11	C12
Capacity control	Method					Stepless						
	Minimum capacity			%		10	14	13	12	11		10
Dimensions	Unit	Height		mm		2.553						
		Width		mm		2.238						
		Depth		mm		9.040			10.120		11.200	
Weight	Unit			kg		7.024	7.280		7.762		8.436	
	Operation weight			kg		7.615	7.881	7.891	8.378	8.388	9.148	9.158
Air heat exchanger	Type					Microchannel						
Compressor	Type					Screw compressor						
	Quantity					2						
Fan	Type					Direct propeller						
	Quantity					16			18		20	
	Air flow rate	Cooling	Nom.	l/s		75.540			84.983		94.425	
Sound power level	Cooling	Nom.		dBA		93,7	89,9	90,9	91,5	92,3	92,8	94,4
Sound pressure level	Cooling	Nom.		dBA		71,8	68	69	69,3	70	70,3	71,9
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42						
Refrigerant	Type/GWP					R-134a/629,5						
	Charge			kg		110	120	130	135	145	155	165
	Circuits	Quantity				2						
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1						
Unit	Starting current	Max		A		0						
	Running current	Max		A		573	626	683	720	782	744	803
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

					EWAS-TZXRD	H12	H13	H14	H15	H16	H17
Capacity control	Method					Stepless					
	Minimum capacity			%		10		15	14	13	12
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		11.200	12.280		13.360		
Weight	Unit			kg		8.436	9.775		10.925		
	Operation weight			kg		9.173	10.976	12.136	12.151	12.166	12.181
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					20	22		24		
	Air flow rate	Cooling	Nom.	l/s		94.425	103.868		113.320		
Sound power level	Cooling	Nom.		dBA		96,3	95,2	92,6	93,1	93,6	94,2
Sound pressure level	Cooling	Nom.		dBA		73,7	72,4	69,5	70	70,5	71,1
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-134a/629,5					
	Charge			kg			190	200	215	230	245
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1	273				
Unit	Starting current	Max		A		0					
	Running current	Max		A			899	997	1.103	1.217	1.330
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

EWAS-TZPSD

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

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

EWAS-TZPSD

					EWAS-TZPSD	285	330	370	405	450	490
SEER						5,9	6	5,9	6,3	6,2	
Cooling capacity	Nom.			kW		287,6	333,2	370,2	405,1	450,1	488,4
Power input	Cooling	Nom.		kW		81,89	96,83	111,6	110,6	123,5	137,5
Capacity control	Method					Stepless					
	Minimum capacity			%		23	20	18	30	28	25
EER						3,512	3,441	3,317	3,663	3,645	3,552
IPLV						6,5		6,4	7	7,3	7,2
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		4.720	5.800		6.880		
Weight	Unit			kg		3.775	4.256		5.050	5.136	
	Operation weight			kg		3.863	4.349	4.354	5.163,1	5.272,3	5.277,3
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					8	10		12		
	Air flow rate	Cooling	Nom.	l/s		45.240	56.540		67.848		
Sound power level	Cooling	Nom.		dBA		97,5	98,1	100,4	94,7	96	97,7
Sound pressure level	Cooling	Nom.		dBA		78,2	81	81,9	74,2	74,5	74,9
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-513A/629,5					
	Charge			kg		40	45	50	55	60	65
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)			mm		88,9			139,7		
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		181,1	212,7	238,2	242	258,8	280
		Max		A		220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

					EWAS-TZPSD	530	575	615	675	735
SEER						6	5,9		5,8	
Cooling capacity	Nom.			kW		531,7	573,6	620,2	677,1	732,9
Power input	Cooling	Nom.		kW		150,8	167,7	180,9	205,7	223,4
Capacity control	Method					Stepless				
	Minimum capacity			%		13	12	11	10	
EER						3,526	3,42	3,428	3,292	3,281
IPLV						6,4	6,3		6,1	6,2
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		7.960		9.040		
Weight	Unit			kg		5.829		6.311		6.427
	Operation weight			kg		6.159	6.164	6.651	6.661	6.825
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16		
	Air flow rate	Cooling	Nom.	l/s		79.170		90.480		
Sound power level	Cooling	Nom.		dBA		100,2	100,4	100,7	101	102,3
Sound pressure level	Cooling	Nom.		dBA		78,6	79,9	80,9	83	83,4
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42				
Refrigerant	Type/GWP					R-513A/629,5				
	Charge			kg		75	80	85	95	100
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		168,3				
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		332	361,5	391,2	434	459,1
		Max		A		399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

EWAS-TZPSD

EWAD_H_S-TZ-D

MicroTech 4

					EWAS-TZPSD	810	890	960	C10	H10	H11
SEER						6,1	6,3	6,1	6,2	6,1	
Cooling capacity	Nom.			kW		810	884,2	954	1.001	1.067	1.110
Power input	Cooling	Nom.		kW		238,8	256,7	288,7	298,9	331,9	343,6
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
EER						3,392	3,444	3,304	3,349	3,215	3,231
IPLV						6,5	6,8	6,6		6,3	6,5
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		10.120			11.200		12.280
Weight	Unit			kg		7.385	7.642		8.123		8.798
	Operation weight			kg		7.976	8.243	8.253	8.744	8.754	9.515
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		101.772			113.080		140.200
Sound power level	Cooling	Nom.		dBA		104,6	98,6	100,4	101,1	102,4	103
Sound pressure level	Cooling	Nom.		dBA		83,6	75,9	76,3	76,6	77,3	77,4
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-513A/629,5					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1					
Unit	Starting current	Max		A		0					
	Running current	Cooling	Nom.	A		485,2	511,9	559,9	581,2	630,4	653,8
		Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

					EWAS-TZPSD	C12	H12	H13	H14	H15
SEER						6	6,1	6	5,9	5,7
Cooling capacity	Nom.			kW		1.197	1.288	1.363	1.443	1.552
Power input	Cooling	Nom.		kW		434,6	410,7	433,6	435,6	492,1
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
EER						2,754	3,136	3,143	3,313	3,154
IPLV						6,4	6,3	6,4	6,3	6,4
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		12.280		13.360		
Weight	Unit			kg		8.798	9.655	10.136	10.805	
	Operation weight			kg		9.520	10.846	11.337	12.021	12.036
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		140.200		152.945		
Sound power level	Cooling	Nom.		dBA		105,2	107,5	106,2	102	102,8
Sound pressure level	Cooling	Nom.		dBA		77,7	77,9	78,9		79,7
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42				
Refrigerant	Type/GWP					R-513A/629,5				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1	273			
Unit	Starting current	Max		A		0				
	Running current	Cooling	Nom.	A		748,1	756,2	796,3	798,5	882
		Max		A		845	893	951	1.039	1.135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

EWAS-TZPRD

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

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EWAS-TZPRD

					EWAS-TZPRD	285	330	370	405	450	490
Capacity control	Method					Stepless					
	Minimum capacity				%	23	20	18	30	28	25
Dimensions	Unit	Height			mm	2.553					
		Width			mm	2.238					
		Depth			mm	4.720	5.800		6.880		
Weight	Unit				kg	3.895	4.376		5.170	5.256	
	Operation weight				kg	3.983	4.469	4.474	5.283,1	5.392,3	5.397,3
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					1					
Fan	Type					Direct propeller					
	Quantity					8	10		12		
	Air flow rate	Cooling	Nom.		l/s	37.770	47.213		56.660		
Sound power level	Cooling	Nom.			dBA	88	88,7	90,1	87,8	88,2	88,9
Sound pressure level	Cooling	Nom.			dBA	67,7	68	69,4	66,6	67	67,8
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~42					
Refrigerant	Type/GWP					R-134a/629,5					
	Charge				kg	40	45	50	55	60	65
	Circuits	Quantity				1					
Piping connections	Evaporator water inlet/outlet (OD)				mm	88,9			139,7		
Unit	Starting current	Max			A	0					
	Running current	Max			A	220	258	285	293	352	404
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400					

					EWAS-TZPRD	530	575	615	675	735
Capacity control	Method					Stepless				
	Minimum capacity				%	13	12	11	10	
Dimensions	Unit	Height			mm	2.553				
		Width			mm	2.238				
		Depth			mm	7.960		9.040		
Weight	Unit				kg	5.949		6.431		6.547
	Operation weight				kg	6.279	6.284	6.771	6.781	6.945
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					14		16		
	Air flow rate	Cooling	Nom.		l/s	66.098		75.540		
Sound power level	Cooling	Nom.			dBA	90,6	90,7	91,1	91,3	92,1
Sound pressure level	Cooling	Nom.			dBA	69	69,1	69,2	69,4	70,2
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20 ~42				
Refrigerant	Type/GWP					R-134a/629,5				
	Charge				kg	75	80	85	95	100
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)				mm	168,3				
Unit	Starting current	Max			A	0				
	Running current	Max			A	399	429	468	508	535
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400				

EWAS-TZPRD

EWAD_H_S-TZ-D

MicroTech 4

					EWAS-TZPRD	810	890	960	C10	H10	H11
Capacity control	Method					Stepless					
	Minimum capacity			%		10	14	13	12	11	
Dimensions	Unit	Height		mm		2.553					
		Width		mm		2.238					
		Depth		mm		10.120			11.200		12.280
Weight	Unit			kg		7.505	7.762		8.243		8.918
	Operation weight			kg		8.096	8.363	8.373	8.864	8.874	9.635
Air heat exchanger	Type					Microchannel					
Compressor	Type					Screw compressor					
	Quantity					2					
Fan	Type					Direct propeller					
	Quantity					18			20		22
	Air flow rate	Cooling	Nom.	l/s		84.983			94.425		103.868
Sound power level	Cooling	Nom.		dBA		93,9	90,3	91,2	91,8	92,5	93
Sound pressure level	Cooling	Nom.		dBA		71,6	68,1	68,9	69,2	69,9	70,2
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42					
Refrigerant	Type/GWP					R-134a/629,5					
	Charge			kg		110	120	130	140	150	160
	Circuits	Quantity				2					
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1					
Unit	Starting current	Max		A		0					
	Running current	Max		A		573	616	672	709	761	796
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400					

					EWAS-TZPRD	C12	H12	H13	H14	H15
Capacity control	Method					Stepless				
	Minimum capacity			%		10			15	14
Dimensions	Unit	Height		mm		2.553				
		Width		mm		2.238				
		Depth		mm		12.280		13.360		
Weight	Unit			kg		8.918	9.775	10.256	10.925	
	Operation weight			kg		9.640	10.966	11.457	12.141	12.156
Air heat exchanger	Type					Microchannel				
Compressor	Type					Screw compressor				
	Quantity					2				
Fan	Type					Direct propeller				
	Quantity					22		24		
	Air flow rate	Cooling	Nom.	l/s		103.868		113.320		
Sound power level	Cooling	Nom.		dBA		94,5	96,4	95,4	92,6	93,1
Sound pressure level	Cooling	Nom.		dBA		71,7	73,5	72,2	69,5	70
Operation range	Air side	Cooling	Min.~Max.	°CDB		-20 ~42				
Refrigerant	Type/GWP					R-134a/629,5				
	Charge			kg		165	180	190	205	220
	Circuits	Quantity				2				
Piping connections	Evaporator water inlet/outlet (OD)			mm		219,1	273			
Unit	Starting current	Max		A		0				
	Running current	Max		A		845	893	951	1.039	1.135
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400				

EWFD-TZBSD

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

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EWFD-TZBSD

		EWFD~TZBSD	275	320	345	400	470	510	525
Cooling Capacity (1)		kW	369,3	428	465,2	559,3	618,4	686,7	708,2
Power input (1)		kW	109,9	119	138	167,3	196	200,4	206,7
EER (1)			3,36	3,6	3,37	3,34	3,16	3,43	3,43
SEER (1)(2)			4,949	5,245	5,331	5,382	5,141	4,802	5,364
ηs,c (3)		%	195	207	210	212	203	189	212
SEPR (1)(2)			5,783	6,064	5,847	5,756	5,633	5,859	5,798
IPLV			5,248	5,612	5,562	5,76	5,549	5,137	5,729
Full Free Cooling Temperature		°C	3,27	7,12	5,99	3,08	1,21	4,5	3,97
Flow rate (1)		l/s	12,7	14,7	16	19,2	21,2	23,6	24,3
Evaporator Pressure Drop free cooling OFF (1)		kPa	15,3	20,4	23,8	44,3	53,4	29,8	38,6
Unit pressure drop free cooling ON		kPa	96	74,3	85,2	128	154	96,4	115
Sound Power (1)	Lw	dB(a)	97	98	100	97		99	98
	Lw with + OP76b	dB(a)	95	97		96		98	97
Number of circuits / Compressors			1					2	1
Water volume – open loop Free Cooling		Lt	40			42,7		270	58,1
Minimum water flow rate		l/s	7,6			5,94		8,6	10,2
Dimensions	Length	mm	2.560	3.640				4.720	
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Unit	kg	2.626	3.136	3.136	3.581		4.045	4.154
	Operating weight	kg	2.847	3.432		3.907	3.917	4.662	4.581
Water Connection Size		Ø mm	88,9			139,7		168,3	139,7
Unit	Running Current (1)	A	178	192	220	270	312	327	328
	Max Running Current	A	220	262	284	346	362	411	400
	Current for Wiring Sizing	A	242	287	287	381	398	452	440

		EWFD~TZBSD	275	320	345	400	470	510
Cooling Capacity (1)		kW	369,3	428	465,2	559,3	618,4	686,7
Power input (1)		kW	109,9	119	138	167,3	196	200,4
EER (1)			3,36	3,6	3,37	3,34	3,16	3,43
SEER (1)(2)			4,949	5,245	5,331	5,382	5,141	4,802
ηs,c (3)		%	195	207	210	212	203	189
SEPR (1)(2)			5,783	6,064	5,847	5,756	5,633	5,859
IPLV			5,248	5,612	5,562	5,76	5,549	5,137
Full Free Cooling Temperature		°C	3,27	7,12	5,99	3,08	1,21	4,5
Flow rate (1)		l/s	12,7	14,7	16	19,2	21,2	23,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	15,3	20,4	23,8	44,3	53,4	29,8
Unit pressure drop free cooling ON		kPa	96	74,3	85,2	128	154	96,4
Sound Power (1)	Lw	dB(a)	97	98	100	97		99
	Lw with + OP76b	dB(a)	95	97		96		98
Number of circuits / Compressors			1					2
Water volume – open loop Free Cooling		Lt	40			42,7		270
Minimum water flow rate		l/s	7,6			5,94		8,6
Dimensions	Length	mm	2.560	3.640				4.720
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Unit	kg	2.626	3.136		3.581		4.045
	Operating weight	kg	2.847	3.432	3.432	3.907	3.917	4.662
Water Connection Size		Ø mm	88,9			139,7		168,3
Unit	Running Current (1)	A	178	192	220	270	312	327
	Max Running Current	A	220	262	284	346	362	411
	Current for Wiring Sizing	A	242	287		381	398	452

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFD-TZBSD

MicroTech 4

		EWFD~TZBSD	755	830	915	C10	H10	H11	C12
Cooling Capacity (1)		kW	1.017,5	1.112,2	1.216,3	1.554,9	1.438,6	1.558,6	1.664,1
Power input (1)		kW	281,5	324,5	362,9	473,1	450,4	475,5	504,9
EER (1)			3,61	3,43	3,35	3,290	3,190	3,280	3,300
SEER (1)(2)			5,456	5,327	5,217	5,132	5,282	5,362	5,458
ηs,c (3)		%	215	210	206	202	208	211	215
SEPR (1)(2)			6,05	5,862	5,92	5,605	5,674	5,684	5,713
IPLV			5,839	5,674	5,628	5,474	5,650	5,783	5,753
Full Free Cooling Temperature		°C	4,67	3,14	1,5	-0,01	1,33	1,65	3,22
Flow rate (1)		l/s	34,9	38,1	41,7	53,3	49,3	53,5	57,1
Evaporator Pressure Drop free cooling OFF (1)		kPa	49,6	56,8	42,1	55,1	48,9	55,3	61,5
Unit pressure drop free cooling ON		kPa	120	141	140	199	150	147	145
Sound Power (1)	Lw	dB(a)	99	100	99	100	101		102
	Lw with + OP76b	dB(a)	99				100		101
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	280		481		557		
Minimum water flow rate		l/s	12,9		15,3		18,2		
Dimensions	Length	mm	6.880				7.960	9.040	10.120
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Unit	kg	5.549		5.806		6.427	6.936	7.446
	Operating weight	kg	6.341	6.351	6.819	6.834	7.606	8.191	8.776
Water Connection Size		Ø mm	168,3				219,1		
Unit	Running Current (1)	A	460	524	582	745	712	749	792
	Max Running Current	A	600	668		751	817	884	930
	Current for Wiring Sizing	A	660	735	735	826	896	935	947

		EWFD~TZBSD	C13	C14	C15	H16	H17	H18	H19
Cooling Capacity (1)		kW	1.798,7	1.884,6	2.067,5	2.175,4	2.269,8	2.450,5	2.554,3
Power input (1)		kW	555,2	608,0	657,0	673,3	743,2	827,9	956,3
EER (1)			3,240	3,100	3,150	3,230	3,050	2,960	2,670
SEER (1)(2)			5,392	5,299	5,339	5,414	5,336	5,185	5,225
ηs,c (3)		%	213	209	211	214	210	204	206
SEPR (1)(2)			5,399	5,436	5,373	6,629	6,410	6,167	5,992
IPLV			5,705	5,579	5,589	5,971	5,829	5,779	5,685
Full Free Cooling Temperature		°C	3,66	2,85	2,9	1,98	1,25	1,34	0,53
Flow rate (1)		l/s	61,7	64,6	70,9	74,6	77,8	84,0	87,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	69,4	74,9	51,2	55,5	59,3	66,1	70,8
Unit pressure drop free cooling ON		kPa	148	160	137	150	161	166	179
Sound Power (1)	Lw	dB(a)	104	105	106	104	105	106	107
	Lw with + OP76b	dB(a)	101	102					
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	557		1.011				
Minimum water flow rate		l/s	18,2		22,6				
Dimensions	Length	mm	11.200		12.280			13.360	
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Unit	kg	7.956	8.277	9.157	9.561		10.070	
	Operating weight	kg	9.366	9.697	11.117	11.535	11.550	12.140	12.150
Water Connection Size		Ø mm	219,1			273			
Unit	Running Current (1)	A	867	954	1.027	1.051	1.162	1.287	1.477
	Max Running Current	A	948	1.120	1.200	1.227	1.340	1.475	1.608
	Current for Wiring Sizing	A	958	1.232	1.275	1.280	1.474	1.621	

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFD-TZSSD

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

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

EWFD-TZSSD

		EWFD~TZSSD	285	325	380	430	495	520	535
Cooling Capacity (1)		kW	382	442,2	497,8	565	668,2	698,1	726
Power input (1)		kW	98,8	115,8	134,6	156	185,9	189,7	198,4
EER (1)			3,87	3,82	3,7	3,62	3,6	3,68	3,66
SEER (1)(2)			5,263	5,535	5,711	5,727	5,422	5,128	5,459
ηs,c (3)		%	208	218	225	226	214	202	215
SEPR (1)(2)			6,279	6,358	6,233	6,068	6,048	5,816	6,077
IPLV			5,706	5,873	5,918	6,074	5,885	5,419	6,016
Full Free Cooling Temperature		°C	8,55	10,12	8,82	7,25	4,91	7,4	6,88
Flow rate (1)		l/s	13,1	15,2	17,1	19,4	22,9	23,9	24,9
Evaporator Pressure Drop free cooling OFF (1)		kPa	16,3	17,7	35,8	45,1	34,8	31,2	40,5
Unit pressure drop free cooling ON		kPa	61,5	53,6	103	98,4	104	84,4	96,1
Sound Power (1)	Lw	dB(a)	98	98	100	98	97	99	98
	Lw with + OP76b	dB(a)	96	98		97		99	98
Number of circuits / Compressors			1					2	1
Water volume – open loop Free Cooling		Lt	40	48		42,7	58,1	270	58,1
Minimum water flow rate		l/s	7,6	8,5		5,94	10,2	8,6	10,2
Dimensions	Length	mm	3.640	4.720				5.800	
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Unit	kg	3.136	3.675		4.090	4.154	4.555	4.664
	Operating weight	kg	3.427	4.045	4.050	4.487	4.576	5.237	5.161
Water Connection Size		Ø mm	88,9			139,7		168,3	139,7
Unit	Running Current (1)	A	161	187	215	253	297	311	316
	Max Running Current	A	231	272	294	357	372	421	411
	Current for Wiring Sizing	A	254	298		392	410	463	452

		EWFD~TZSSD	555	585	595	650	645	705
Cooling Capacity (1)		kW	747,7	789,3	796,9	872,4	876,4	963
Power input (1)		kW	208	229	231,2	270,8	241,3	288,9
EER (1)			3,6	3,45	3,45	3,22	3,63	3,33
SEER (1)(2)			5,08	4,983	5,357	5,32	5,147	5,032
ηs,c (3)		%	200	196	211	210	203	198
SEPR (1)(2)			5,179	5,696	5,772	5,472	6,044	5,708
IPLV			5,361	5,308	5,826	5,63	5,508	5,424
Full Free Cooling Temperature		°C	6,49	5,74	5,6	4,23	6,78	5,49
Flow rate (1)		l/s	25,6	27,1	27,3	29,9	30,1	33
Evaporator Pressure Drop free cooling OFF (1)		kPa	34,9	38,1	48,1	56,8	34,5	40,3
Unit pressure drop free cooling ON		kPa	93,8	101	112	131	90,6	105
Sound Power (1)	Lw	dB(a)	99	101	98	101		103
	Lw with + OP76b	dB(a)	99		98		100	
Number of circuits / Compressors			2		1		2	
Water volume – open loop Free Cooling		Lt	270		58,1		255	
Minimum water flow rate		l/s	8,6		10,2		10,7	
Dimensions	Length	mm	5.800				6.880	
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Unit	kg	4.555		4.664		5.083	
	Operating weight	kg	5.242	5.247	5.166	5.176	5.835	5.840
Water Connection Size		Ø mm	168,3		139,7		168,3	
Unit	Running Current (1)	A	338	370	365	423	388	459
	Max Running Current	A	450	481	467	474	523	566
	Current for Wiring Sizing	A	495	528	480		572	

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

MicroTech 4

		EWFD~TZSSD	760	835	960	C10	H10	H11	H12
Cooling Capacity (1)		kW	1.006,2	1.119,7	1.280,8	1.356,0	1.402,2	1.554,9	1.712,6
Power input (1)		kW	264,1	311,5	365,7	406,7	429,1	473,1	506,7
EER (1)			3,81	3,6	3,5	3,330	3,270	3,290	3,380
SEER (1)(2)			5,659	5,558	5,444	5,349	5,338	5,362	5,492
ηs,c (3)		%	223	219	215	211	211	211	217
SEPR (1)(2)			6,322	6,015	6,062	5,618	5,613	5,684	5,764
IPLV			6,045	5,875	5,8	5,680	5,709	5,697	5,967
Full Free Cooling Temperature		°C	7	5,55	3,4	2,36	1,78	2,28	5,01
Flow rate (1)		l/s	34,5	38,4	43,9	46,5	48,1	53,3	58,7
Evaporator Pressure Drop free cooling OFF (1)		kPa	48,3	58,1	44,8	49,0	46,9	55,1	63,9
Unit pressure drop free cooling ON		kPa	104	123	128	137	140	146	133
Sound Power (1)	Lw	dB(a)	99		100		101		102
	Lw with + OP76b	dB(a)			100				101
Number of circuits / Compressors						2			
Water volume – open loop Free Cooling		Lt		280		481		557	
Minimum water flow rate		l/s		12,9		15,3		18,2	
Dimensions	Length	mm			7.960			9.040	11.200
	Width	mm				2.238			
	Height	mm				2.553			
Weight	Unit	kg		6.059	6.316	6.316	6.427	6.936	7.956
	Operating weight	kg	6.916	6.926	7.404	7.409	7.601	8.191	9.356
Water Connection Size		Ø mm		168,3			219,1		
Unit	Running Current (1)	A	434	505	586	647	680	745	795
	Max Running Current	A	610	679	706	761	789	884	948
	Current for Wiring Sizing	A	671	747	776	837	868	935	958

		EWFD~TZSSD	H13	H14	H15	H16	H17	H18	H19
Cooling Capacity (1)		kW	1.849,0	1.998,9	2.057,0	2.175,4	2.344,7	2.450,5	2.554,3
Power input (1)		kW	561,0	622,3	572,2	673,3	732,0	827,9	956,3
EER (1)			3,300	3,210	3,600	3,230	3,200	2,960	2,670
SEER (1)(2)			5,510	5,340	5,382	5,414	5,408	5,185	5,225
ηs,c (3)		%	217	211	212	214	213	204	206
SEPR (1)(2)			5,503	5,524	6,997	6,629	6,471	6,167	5,992
IPLV			5,764	5,690	6,081	5,971	5,891	5,779	5,685
Full Free Cooling Temperature		°C	4,8	3,52	3,03	1,98	2,18	1,34	0,53
Flow rate (1)		l/s	63,4	68,6	70,5	74,6	80,4	84,0	87,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	72,6	48,6	50,8	55,5	61,4	66,1	70,8
Unit pressure drop free cooling ON		kPa	141	129	136	150	154	166	179
Sound Power (1)	Lw	dB(a)	104	105	103	104	105	106	107
	Lw with + OP76b	dB(a)				102			
Number of circuits / Compressors						2			
Water volume – open loop Free Cooling		Lt	557			1.011			
Minimum water flow rate		l/s	18,2			22,6			
Dimensions	Length	mm			12.280			13.360	
	Width	mm				2.238			
	Height	mm				2.553			
Weight	Unit	kg	8.465	9.157	9.561	9.561		10.070	
	Operating weight	kg	9.945	11.107	11.520	11.535	12.130	12.140	12.150
Water Connection Size		Ø mm	219,1	273	273	273	273	273	273
Unit	Running Current (1)	A	875	975	901	1.051	1.145	1.287	1.477
	Max Running Current	A	1.187	1.156	1.124	1.227	1.351	1.475	1.608
	Current for Wiring Sizing	A	1.248	1.271	1.237	1.280	1.486	1.621	1.621

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFD-TZXSD

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

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

EWFD-TZXSD

		EWFD-TZXSD	295	345	380	440	515	565	635
Cooling Capacity (1)		kW	401,2	469,3	513,3	602	696,2	745,6	856
Power input (1)		kW	107,1	119,4	140,9	143,9	183,6	190,5	235
Cooling Efficiency – EER (1)			3,74	3,93	3,64	4,18	3,79	3,91	3,64
SEER (1)(2)			5,513	5,77	5,694	6,127	5,991	6,002	5,971
ηs,c (3)		%	218	228	225	242	237		236
SEPR (1)(2)			6,876	7,069	6,779	7,721	6,991	6,721	6,739
IPLV			6,087	6,309	6,223	6,763	6,548	6,747	6,544
Full Free Cooling Temperature		°C	7,93	9,51	8,44	9,2	7,44	8,83	7,12
Flow rate (1)		l/s	13,8	16,1	17,6	20,6	23,9	25,6	29,4
Evaporator Pressure Drop free cooling OFF (1)		kPa	18,1	19,7	23,4	28,8	37,5	25,7	33,2
Unit pressure drop free cooling ON		kPa	66,8	59,3	69,1	70,2	89,6	69,3	87,2
Sound Power (1)	Lw	dB(a)	97	98	103	96	97	100	105
	Lw with + OP76b	dB(a)	93	95		94		95	
Number of circuits / Compressors			1						
Water volume – open loop Free Cooling		Lt	40	48		58,1		76,3	
Minimum water flow rate		l/s	7,6	8,5		10,2		13,4	
Dimensions	Length	mm	3.640	4.720		5.800		6.880	
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Shipping weight	kg	3.307	3.846		4.720		5.315	
	Operating weight	kg	3.598	4.216	4.221	5.202	5.212	5.897	5.907
Water Connection Size		Ø mm	88,9			139,7			
Unit	Running Current (1)	A	174	192	224	235	294	304	370
	Max Running Current	A	224	261	289	314	342	404	452
	Current for Wiring Sizing	A	246	288	298	345	376	444	491

		EWFD-TZXSD	705	760	525	565	610	670
Cooling Capacity (1)		kW	931,9	1005,8	726,9	780,5	816,1	887,3
Power input (1)		kW	236,5	284,2	173	192,6	203,7	230,7
Cooling Efficiency – EER (1)			3,94	3,54	4,2	4,05	4,01	3,85
SEER (1)(2)			5,379	5,305	5,812	5,746	5,825	5,719
ηs,c (3)		%	212	209	229	227	230	226
SEPR (1)(2)			7,307	6,985	5,644	6,981	7,221	6,928
IPLV			5,859	5,769	6,305	6,193	6,275	6,135
Full Free Cooling Temperature		°C	5,96	4,84	9,1	8,26	9,54	8,58
Flow rate (1)		l/s	32	34,5	24,9	26,8	28	30,4
Evaporator Pressure Drop free cooling OFF (1)		kPa	38,4	44,3	41	46	30,3	34,7
Unit pressure drop free cooling ON		kPa	100	114	83,6	93,7	70,6	80,8
Sound Power (1)	Lw	dB(a)	99	100			101	
	Lw with + OP76b	dB(a)	95		96		97	
Number of circuits / Compressors			1		2			
Water volume – open loop Free Cooling		Lt	76,3		255			
Minimum water flow rate		l/s	13,4		8,6		10,7	
Dimensions	Length	mm	6.880				7.960	
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Shipping weight	kg	5.984		5.254		5.763	
	Operating weight	kg	6.586	6.596	5.986	5.996	6.576	6.581
Water Connection Size		Ø mm	139,7		168,3			
Unit	Running Current (1)	A	377	448	286	315	332	372
	Max Running Current	A	520	568	389	429	457	498
	Current for Wiring Sizing	A	572	625	428	472	503	548

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFD-TZXSD

MicroTech 4

		EWFD-TZXSD	725	805	880	950	C10	H10	H11
Cooling Capacity (1)		kW	961,8	1.092,90	1.196,60	1.293,60	1.345,30	1.415,40	1.524,60
Power input (1)		kW	257,5	284,1	310,3	358	356,6	396,8	415,4
Cooling Efficiency – EER (1)			3,73	3,85	3,86	3,61	3,770	3,570	3,670
SEER (1)(2)			5,728	5,937	6,09	5,977	6,099	5,952	5,419
ηs,c (3)		%	226	234	241	236	241	235	214
SEPR (1)(2)			6,88	6,938	7,037	7,159	6,755	6,866	6,972
IPLV			6,225	6,482	6,614	6,459	6,591	6,418	6,605
Full Free Cooling Temperature		°C	7,59	7,67	6,48	5,37	6,49	5,79	6,21
Flow rate (1)		l/s	33	37,5	41	44,4	46,1	48,5	52,3
Evaporator Pressure Drop free cooling OFF (1)		kPa	36,5	35,4	40,7	45,8	48,9	52,3	53,7
Unit pressure drop free cooling ON		kPa	88,7	85,8	98,7	111	107	116	113
Sound Power (1)	Lw	dB(a)	102	105	98	100	101	102	103
	Lw with + OP76b	dB(a)	97	98	96			97	
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	298	481					557
Minimum water flow rate		l/s	14,3	15,3					18,2
Dimensions	Length	mm	7.960	9.040			10.120		11.200
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Shipping weight	kg	5.834	6.624	6.881		7.390		8.011
	Operating weight	kg	6.704	7.753	8.019	8.029	8.609	8.619	9.391
Water Connection Size		Ø mm	168,3	219,1					
Unit	Running Current (1)	A	412	452	503	574	572	632	660
	Max Running Current	A	535	573	626	683	720	782	744
	Current for Wiring Sizing	A	585	607	689	751	792	860	819

		EWFD-TZXSD	C12	H12	H13	H14	H15	H16	H17
Cooling Capacity (1)		kW	1.621,90	1.730,60	1.814,30	1.952,20	2.065,70	2.200,80	2.323,90
Power input (1)		kW	461,9	509,1	535,2	490,7	577,7	660,1	761,0
Cooling Efficiency – EER (1)			3,510	3,400	3,390	3,980	3,580	3,330	3,050
SEER (1)(2)			6,0	5,809	5,981	5,690	5,512	5,517	5,368
ηs,c (3)		%	237	229	236	225	217	218	212
SEPR (1)(2)			6,760	6,650	6,575	7,592	7,038	6,838	6,451
IPLV			6,440	6,380	6,347	6,404	6,197	6,076	5,915
Full Free Cooling Temperature		°C	5,32	4,33	5,11	5,29	4,41	3,35	2,36
Flow rate (1)		l/s	55,6	59,3	62,2	66,9	70,8	75,5	79,7
Evaporator Pressure Drop free cooling OFF (1)		kPa	59,6	39,1	41,8	46,6	50,4	55,7	60,9
Unit pressure drop free cooling ON		kPa	124	113	110	113	123	138	151
Sound Power (1)	Lw	dB(a)	105	108	106	102	103	104	105
	Lw with + OP76b	dB(a)	97	98				99	
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	557		1.011				
Minimum water flow rate		l/s	18,2		22,6				
Dimensions	Length	mm	11.200		12.280	13.360			
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Shipping weight	kg	8.011		8.892	10.070			
	Operating weight	kg	9.401	9.416	10.826	12.080	12.095	12.110	12.125
Water Connection Size		Ø mm	219,1				273		
Unit	Running Current (1)	A	729	799	837	780	909	1.031	1.188
	Max Running Current	A	803	851	899	997	1.103	1.217	1.330
	Current for Wiring Sizing	A	883	924		1.097	1.214	1.268	1.463

1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFD-TZPSD

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

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

EWFD-TZPSD

		EWFD-TZXSD	285	330	370	405	450	490
Cooling Capacity (1)		kW	384,1	452,2	500,1	559,5	622	642
Power input (1)		kW	87,5	104,1	122,8	121,3	138,2	138,4
Cooling Efficiency – EER (1)			4,39	4,34	4,07	4,61	4,5	4,64
SEER (1)(2)			6,018	6,229	6,138	6,369	6,325	6,262
ηs,c (3)		%	238	246	243	252	250	247
SEPR (1)(2)			7,819	7,65	7,291	6,352	4,85	7,622
IPLV			6,73	6,82	6,691	7,327	7,623	7,171
Full Free Cooling Temperature		°C	11,45	11,96	11,1	11,73	10,75	10,1
Flow rate (1)		l/s	13,2	15,5	17,2	19,2	21,3	20,5
Evaporator Pressure Drop free cooling OFF (1)		kPa	13,4	18,3	22,3	25,2	18,7	18,9
Unit pressure drop free cooling ON		kPa	42,1	44,5	53,1	52,8	51	42,2
Sound Power (1)	Lw	dB(a)	97	98	100	95	96	98
	Lw with + OP76b	dB(a)	94	95	96		95	
Number of circuits / Compressors			1					
Water volume – open loop Free Cooling		Lt	48			58,1	76,3	
Minimum water flow rate		l/s	8,5			10,2	13,4	
Dimensions	Length	mm	4.720	5.800		6.880		
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Shipping weight	kg	3.846	4.356		5.229	5.315	
	Operating weight	kg	4.211	4.791	4.796	5.771	5.882	5.887
Water Connection Size		Ø mm	88,9			139,7		
Unit	Running Current (1)	A	145	169	197	201	226	
	Max Running Current	A	220	258	285	293	352	404
	Current for Wiring Sizing	A	242	284	310	322	388	444

		EWFD-TZXSD	530	575	615	675	735
Cooling Capacity (1)		kW	730,7	792,8	811,8	919,6	998,7
Power input (1)		kW	166,8	187	187,4	220,3	252,3
Cooling Efficiency – EER (1)			4,38	4,24	4,33	4,17	3,96
SEER (1)(2)			6,194	6,108	6,056	5,971	6,024
ηs,c (3)		%	245	241	239	236	238
SEPR (1)(2)			7,167	7,55	6,025	6,652	6,611
IPLV			6,719	6,613	6,593	6,435	6,529
Full Free Cooling Temperature		°C	10,66	9,84	10,94	9,71	8,8
Flow rate (1)		l/s	25,1	27,2	27,8	31,5	34,3
Evaporator Pressure Drop free cooling OFF (1)		kPa	41,5	47,6	30,3	37,5	39,4
Unit pressure drop free cooling ON		kPa	75,6	86,2	62,3	76,4	83,8
Sound Power (1)	Lw	dB(a)	100		101		102
	Lw with + OP76b	dB(a)	96		97	98	
Number of circuits / Compressors			2				
Water volume – open loop Free Cooling		Lt	255				298
Minimum water flow rate		l/s	8,6		10,7		14,3
Dimensions	Length	mm	7.960		9.040		
	Width	mm	2.238				
	Height	mm	2.553				
Weight	Shipping weight	kg	5.763		6.273		6.344
	Operating weight	kg	6.566	6.571	7.151	7.161	7.279
Water Connection Size		Ø mm	168,3				
Unit	Running Current (1)	A	277	307	308	357	404
	Max Running Current	A	399	429	468	508	535
	Current for Wiring Sizing	A	439	472	514	559	585

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFD-TZPSD

MicroTech 4

		EWFD-TZXSD	810	890	960	C10	H10	H11
Cooling Capacity (1)		kW	1.105,30	1.177,70	1.275,20	1.326,90	1.449,20	1.497,00
Power input (1)		kW	263,6	282,8	320,6	330,5	382,3	379,0
Cooling Efficiency – EER (1)			4,19	4,16	3,98	4,010	3,790	3,950
SEER (1)(2)			6,262	6,488	6,363	6,411	6,274	6,440
ηs,c (3)		%	247	257	252	253	248	255
SEPR (1)(2)			7,327	7,579	7,586	7,434	7,277	7,321
IPLV			6,853	7,078	6,894	6,876	6,739	6,964
Full Free Cooling Temperature		°C	8,97	8,21	7,2	8,04	6,91	7,73
Flow rate (1)		l/s	37,9	40,4	43,7	45,5	49,7	51,3
Evaporator Pressure Drop free cooling OFF (1)		kPa	36,2	39,4	44,5	47,3	54,7	51,7
Unit pressure drop free cooling ON		kPa	79	87,3	98,8	96,4	111	103
Sound Power (1)	Lw	dB(a)	105	99	100	101	102	103
	Lw with + OP76b	dB(a)	98	97				98
Number of circuits / Compressors			2					
Water volume – open loop Free Cooling		Lt	481					557
Minimum water flow rate		l/s	15,3					18,2
Dimensions	Length	mm	10.120			11.200		12.280
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Shipping weight	kg	7.134	7.390		7.900		8.521
	Operating weight	kg	8.327	8.594	8.604	9.189	9.199	9.971
Water Connection Size		Ø mm	219,1					
Unit	Running Current (1)	A	421	462	519	637	685	605
	Max Running Current	A	573	616	672	709	761	796
	Current for Wiring Sizing	A	607	677	740	780	837	876

		EWFD-TZXSD	C12	H12	H13	H14	H15
Cooling Capacity (1)		kW	1.619,40	1.734,60	1.847,60	1.954,20	2.069,80
Power input (1)		kW	433,6	481,3	518,0	481,1	565,5
Cooling Efficiency – EER (1)			3,730	3,600	3,570	4,060	3,660
SEER (1)(2)			6,286	6,189	6,180	5,850	5,671
ηs,c (3)		%	248	245	244	231	224
SEPR (1)(2)			7,098	6,919	6,725	7,731	7,210
IPLV			6,778	6,639	6,674	6,585	6,367
Full Free Cooling Temperature		°C	6,69	5,76	6,06	5,28	4,37
Flow rate (1)		l/s	55,5	59,5	63,4	67,0	71,0
Evaporator Pressure Drop free cooling OFF (1)		kPa	58,8	39,3	43,2	46,6	50,6
Unit pressure drop free cooling ON		kPa	116	102	104	113	124
Sound Power (1)	Lw	dB(a)	105	108	106	102	103
	Lw with + OP76b	dB(a)	98				99
Number of circuits / Compressors			2				
Water volume – open loop Free Cooling		Lt	557	1.011			
Minimum water flow rate		l/s	18,2	22,6			
Dimensions	Length	mm	12.280		13.360		
	Width	mm	2.238				
	Height	mm	2.553				
Weight	Shipping weight	kg	8.521	8.892	9.402	10.070	
	Operating weight	kg	9.976	10.816	11.401	12.085	12.100
Water Connection Size		Ø mm	219,1	273			
Unit	Running Current (1)	A	687	757	812	766	891
	Max Running Current	A	845	893	951	1.039	1.135
	Current for Wiring Sizing	A	929	982	1.021	1.143	1.248

1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFH-TZBSD

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

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EWFH-TZBSD

		EWFH~TZBSD	235	255	300	350	400	400	420
Cooling Capacity (1)		kW	313,9	346	406,4	483,9	531,2	538,7	557,2
Power input (1)		kW	96,1	116,2	154,3	142,4	172,9	144,6	190
EER (1)			3,27	2,98	2,63	3,4	3,07	3,73	2,93
SEER (1)(2)			5,059	4,998	4,723	5,229	5,089	4,974	5,053
ηs,c (3)		%	199	197	186	206	201	196	199
SEPR (1)(2)			5,774	5,486	5,116	5,742	5,475	6,007	5,278
IPLV			5,386	5,251	4,93	5,67	5,47	5,334	5,364
Full Free Cooling Temperature		°C	5,8	4,29	1,46	5,42	3,96	7,87	3,08
Flow rate (1)		l/s	10,8	11,9	13,9	16,6	18,2	18,5	19,1
Evaporator Pressure Drop free cooling OFF (1)		kPa	11,3	13,5	14,8	33,7	40,3	28,5	44
Unit pressure drop free cooling ON		kPa	74,4	85,8	112	99,1	117	78,7	127
Sound Power (1)	Lw	dB(a)	98	100	101	97	98	97	98
	Lw with + OP76b	dB(a)	93		95	92	93	94	93
Number of circuits / Compressors			1					2	1
Water volume – open loop Free Cooling		Lt	40		48	42,7		152	42,7
Minimum water flow rate		l/s	7,6	7,6	8,5	5,94	5,94	8,7	5,94
Dimensions	Length	mm	2.560			3.640		4.720	3.640
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Unit	kg	2.626	2.626	2.656	3.581		3.874	3.581
	Operating weight	kg	2.882	2.887	2.938	3.927,7	3.932,7	4.510	3.932,7
Water Connection Size		Ø mm	88,9			139,7			
Unit	Running Current (1)	A	157	187	244	233	278	238	304
	Max Running Current	A	204	227	268	291	334	334	355
	Current for Wiring Sizing	A	224	249	275	320	367	368	391

		EWFH~TZBSD	425	455	485	505	545	545
Cooling Capacity (1)		kW	566,5	594,2	663,9	651,8	717,4	747,2
Power input (1)		kW	158,4	218,7	195,8	242,4	250,2	238,9
EER (1)			3,58	2,72	3,39	2,69	2,87	3,13
SEER (1)(2)			4,912	4,925	4,875	4,875	5,148	4,819
ηs,c (3)		%	193	194	192	192	203	190
SEPR (1)(2)			5,912	5,019	5,767	4,875	5,047	5,545
IPLV			5,262	4,994	5,224	5,082	5,233	5,172
Full Free Cooling Temperature		°C	7,21	1,94	4,99	0,25	3,75	3
Flow rate (1)		l/s	19,4	20,4	22,8	22,4	24,6	25,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	31	49,5	35,1	32,9	39,8	35,7
Unit pressure drop free cooling ON		kPa	85,5	143	98,2	143	118	113
Sound Power (1)	Lw	dB(a)	100		101	102	103	103
	Lw with + OP76b	dB(a)	95	93	96	94	95	96
Number of circuits / Compressors			2	1	2	1		2
Water volume – open loop Free Cooling		Lt	152	42,7	255	58,1	58,1	232
Minimum water flow rate		l/s	8,7	5,94	8,6	10,2	10,2	10,7
Dimensions	Length	mm	4.720	3.640	4.720	3.640	4.720	
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Unit	kg	3.874	3.581	4.064	3.966	4.475	4.093
	Operating weight	kg	4.515	3.937,7	4.915	4.364,1	4.943,1	4.909
Water Connection Size		Ø mm	139,7		168,3	139,7		168,3
Unit	Running Current (1)	A	258	346	320	381	393	384
	Max Running Current	A	358	396	406	435	463	452
	Current for Wiring Sizing	A	394	436	447	457	468	497

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFH-TZBSD

MicroTech 4

		EWFH~TZBSD	590	635	745	785	845	900	985
Cooling Capacity (1)		kW	787,5	861,2	998,9	1051	1.136,3	1.213,7	1.324,7
Power input (1)		kW	248,7	289,1	287,6	320,6	361,1	377,9	443,3
EER (1)			3,17	2,98	3,47	3,28	3,15	3,21	2,99
SEER (1)(2)			4,948	4,899	5,268	5,165	5,139	5,268	5,129
ηs,c (3)		%	195	193	208	204	203	208	202
SEPR (1)(2)			5,432	5,436	5,834	5,618	5,506	5,536	5,21
IPLV			5,275	5,242	5,594	5,496	5,443	5,506	5,399
Full Free Cooling Temperature		°C	5,78	4,4	4,94	4,09	2,74	4,32	2,78
Flow rate (1)		l/s	27	29,5	34,3	36	39	41,6	45,4
Evaporator Pressure Drop free cooling OFF (1)		kPa	47,5	44,8	47,4	51,6	58	64,9	59,5
Unit pressure drop free cooling ON		kPa	110	116		127	137	130	142
Sound Power (1)	Lw	dB(a)	104	105	100		101		103
	Lw with + OP76b	dB(a)	97	98	95		96		97
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	255	232	280		492	492	583
Minimum water flow rate		l/s	8,6	10,7	12,9		12,3	12,3	14,6
Dimensions	Length	mm	5.800		6.880			7.960	
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Unit	kg	4.573	4.603	5.549		5.793	6.303	6.392
	Operating weight	kg	5.505	5.494	6.616	6.626	7.299	7.884	8.165
Water Connection Size		Ø mm	168,3					219,1	
Unit	Running Current (1)	A	399	472	469	519	579	604	701
	Max Running Current	A	494	536	581	624	667	719	801
	Current for Wiring Sizing	A	535	561	639	686	733	791	880

		EWFH~TZBSD	C11	H11	C13	H13	H14	C15	H15
Cooling Capacity (1)		kW	1.479,5	1.571,8	1.724,5	1.815,6	1.944,9	1.996,8	2.083,0
Power input (1)		kW	487,5	542,9	527,7	603,8	659,1	724,8	758,8
EER (1)			3,040	2,890	3,270	3,010	2,950	2,760	2,740
SEER (1)(2)			5,106	4,996	5,425	5,348	5,365	5,278	5,295
ηs,c (3)		%	201	197	214	211	212	208	209
SEPR (1)(2)			5,17	5,051	6,572	6,304	6,249	6,097	6,134
IPLV			5,392	5,238	5,966	5,902	5,812	5,741	5,748
Full Free Cooling Temperature		°C	3,18	2,15	2,56	1,67	2,28	1,8	2,79
Flow rate (1)		l/s	50,7	53,9	59,1	62,3	66,7	68,5	71,4
Evaporator Pressure Drop free cooling OFF (1)		kPa	45,2	49,4	38,7	41,9	46,8	48,3	52,9
Unit pressure drop free cooling ON		kPa	128	142	130	141	139	146	140
Sound Power (1)	Lw	dB(a)	105	107	104	105	106	107	
	Lw with + OP76b	dB(a)	98				99		
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	1.043		1.011				
Minimum water flow rate		l/s	18,1		22,6				
Dimensions	Length	mm	9.040		10.120		11.200		12.280
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Unit	kg	7.587		8.542		9.051		9.561
	Operating weight	kg	10.366	10.376	11.347		11.946	11.956	12.536
Water Connection Size		Ø mm	273						
Unit	Running Current (1)	A	767	849	835	948	1.030	1.135	1.185
	Max Running Current	A	889	927	1.015	1.106	1.218	1.330	1.400
	Current for Wiring Sizing	A	935	935	1.116	1.210	1.340	1.463	1.540

1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFH-TZSSD

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air to water inverter series with extension of capacity range
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EWFH-TZSSD

		EWFH~TZSSD	240	265	295	370	400	415	450
Cooling Capacity (1)		kW	322,7	352,6	403,9	493,5	539,1	555,6	599,4
Power input (1)		kW	87,7	102,1	121,9	133,5	141,8	164,8	177,8
EER (1)			3,68	3,45	3,32	3,7	3,8	3,37	3,37
SEER (1)(2)			5,37	5,267	5,211	5,412	5,195	5,299	5,284
ηs,c (3)		%	212	208	205	213	205	209	208
SEPR (1)(2)			6,171	5,977	5,813	6,055	4,695	5,451	5,621
IPLV			5,695	5,62	5,412	5,962	5,56	5,678	5,767
Full Free Cooling Temperature		°C	10,35	9,44	7,85	8,91	10,36	7,47	6,47
Flow rate (1)		l/s	11,1	12,1	13,9	16,9	18,5	19,1	20,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	11,9	14,1	14,6	35,1	28,7	43,4	28,1
Unit pressure drop free cooling ON		kPa	46,3	53,8	64,1	78,3	64,1	95,8	86,4
Sound Power (1)	Lw	dB(a)	98	100	102	97	98		
	Lw with + OP76b	dB(a)	94	94	95	93	95	94	
Number of circuits / Compressors			1				2	1	
Water volume – open loop Free Cooling		Lt	40	40	48	42,7	152	42,7	58,1
Minimum water flow rate		l/s	7,6	7,6	8,5	5,94	8,7	5,94	10,2
Dimensions	Length	mm	3.640			4.720	5.800	4.720	
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Unit	kg	3.136	3.136	3.166	4.090	4.384	4.090	4.154
	Operating weight	kg	3.462	3.462	3.513	4.502,7	5.085	4.507,7	4.607,1
Water Connection Size		Ø mm	88,9			139,7			
Unit	Running Current (1)	A	145	166	196	219	234	266	285
	Max Running Current	A	214	237	259	302	345	344	365
	Current for Wiring Sizing	A	235	261	285	332	379	379	402

		EWFH~TZSSD	470	490	535	540	595	630
Cooling Capacity (1)		kW	629,2	650,1	681,2	717,6	803,4	850,3
Power input (1)		kW	175,5	206	194,5	227,4	231,9	252,2
EER (1)			3,59	3,16	3,5	3,16	3,46	3,37
SEER (1)(2)			5,058	5,208	5,097	5,441	5,15	5,072
ηs,c (3)		%	199	205	201	215	203	200
SEPR (1)(2)			5,92	5,389	5,871	5,303	3,933	5,644
IPLV			5,39	5,594	5,423	5,459	5,509	5,431
Full Free Cooling Temperature		°C	8,69	5,31	7,71	7,04	7,92	7,2
Flow rate (1)		l/s	21,6	22,3	23,4	24,6	27,6	29,2
Evaporator Pressure Drop free cooling OFF (1)		kPa	37,4	32,8	36,4	39,3	39,6	43,5
Unit pressure drop free cooling ON		kPa	82,8	98,6	88,6	93,9	88,7	97,1
Sound Power (1)	Lw	dB(a)	101			102	104	105
	Lw with + OP76b	dB(a)	96	94	97	95	98	
Number of circuits / Compressors			2	1	2	1	2	
Water volume – open loop Free Cooling		Lt	152	58,1	255	58,1	232	232
Minimum water flow rate		l/s	8,7	10,2	8,6	10,2	10,7	10,7
Dimensions	Length	mm	5.800	4.720	5.800		6.880	
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Unit	kg	4.384	4.154	4.573	4.985	5.113	5.113
	Operating weight	kg	5.095	4.612,1	5.495	5.518,1	6.064	6.069
Water Connection Size		Ø mm	139,7		168,3	139,7	168,3	
Unit	Running Current (1)	A	290	327	318	359	374	404
	Max Running Current	A	405	406	428	455	495	526
	Current for Wiring Sizing	A	445	447	471	480	544	570

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFH-TZSSD

MicroTech 4

		EWFH~TZSSD	690	740	795	855	910	980	C10
Cooling Capacity (1)		kW	941,1	995,8	1.069	1.144,7	1.219,8	1.331,5	1.404,6
Power input (1)		kW	261,8	284,4	310,2	341,5	360,9	401,6	417,8
EER (1)			3,6	3,5	3,45	3,35	3,38	3,32	3,360
SEER (1)(2)			5,348	5,253	5,277	5,348	5,38	5,381	5,392
ηs,c (3)		%	211	207	208	211	212	212	213
SEPR (1)(2)			5,917	5,831	5,813	5,67	5,643	5,437	3,898
IPLV			5,69	5,6	5,662	5,622	5,657	5,622	5,638
Full Free Cooling Temperature		°C	5,8	4,99	6,19	5,23	6,18	6,63	7,32
Flow rate (1)		l/s	32,3	34,2	36,7	39,3	41,8	45,7	48,2
Evaporator Pressure Drop free cooling OFF (1)		kPa	43	47,3	53,6	56,8	62,7	77,7	64,4
Unit pressure drop free cooling ON		kPa	106	115	114	124	122	130	118
Sound Power (1)	Lw	dB(a)	99	100	101		102	103	104
	Lw with + OP76b	dB(a)	95		96		97		98
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	280	280	280	492	492	492	583
Minimum water flow rate		l/s	12,9	12,9	12,9	12,3	12,3	12,3	14,6
Dimensions	Length	mm	6.880	6.880	7.960	7.960	9.040	10.120	11.200
	Width	mm	2.238	2.238	2.238	2.238	2.238	2.238	2.238
	Height	mm	2.553	2.553	2.553	2.553	2.553	2.553	2.553
Weight	Unit	kg	5.549	5.549	6.059	6.303	6.812	7.322	7.920
	Operating weight	kg	6.611	6.616	7.201	7.879	8.459	9.044	9.899
Water Connection Size		Ø mm	168,3			219,1			
Unit	Running Current (1)	A	431	465	503	550	579	639	663
	Max Running Current	A	538	581	634	677	729	802	852
	Current for Wiring Sizing	A	592	639	698	745	802	882	937

		EWFH~TZSSD	C11	C12	H12	H13	C14	C15	H15
Cooling Capacity (1)		kW	1.500,1	1.650,7	1.760,0	1.860,7	1.974,1	2.038,4	2.148,5
Power input (1)		kW	448,7	524,5	508,1	582,6	634,8	649,6	772,0
EER (1)			3,340	3,150	3,460	3,190	3,110	3,140	2,780
SEER (1)(2)			5,353	5,19	5,529	5,447	5,523	5,559	5,47
ηs,c (3)		%	211	205	218	215	218	219	216
SEPR (1)(2)			5,5	5,066	6,752	6,444	6,392	6,385	6,239
IPLV			5,592	5,422	6,121	5,964	6,063	6,076	5,970
Full Free Cooling Temperature		°C	6,39	5,05	4,05	3,09	3,75	4,6	3,86
Flow rate (1)		l/s	51,4	56,6	60,4	63,8	67,7	69,9	73,7
Evaporator Pressure Drop free cooling OFF (1)		kPa	45,4	53,4	39,8	43,5	47,7	50,2	53,5
Unit pressure drop free cooling ON		kPa	104	119	117	129	128	121	133
Sound Power (1)	Lw	dB(a)	105	107	104	105	106	107	108
	Lw with + OP76b	dB(a)	98	99	98	98	99	100	
Number of circuits / Compressors			2						
Water volume – open loop Free Cooling		Lt	1.043		1.011				
Minimum water flow rate		l/s	18,1	18,1	22,6	22,6	22,6	22,6	22,6
Dimensions	Length	mm	11.200				12.280	13.360	
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Unit	kg	8.606		9.051		9.561	10.070	
	Operating weight	kg	11.515	11.530	11.926	11.936	12.521	13.106	13.116
Water Connection Size		Ø mm	273						
Unit	Running Current (1)	A	709	821	806	916	994	1.023	1.205
	Max Running Current	A	891	948	1.025	1.117	1.228	1.351	1.410
	Current for Wiring Sizing	A	958		1.128	1.222	1.351	1.486	1.552

1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFH-TZXSD

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

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

EWFH-TZXSD

		EWFH~TZXSD	220	230	275	300	350	400
Cooling Capacity (1)		kW	294,3	316,3	373,8	409,1	472,7	537,6
Power input (1)		kW	83	94,9	98,3	116,8	118,6	150,7
EER (1)			3,55	3,33	3,8	3,5	3,99	3,57
SEER (1)(2)			5,493	5,444	5,544	5,609	6,003	5,967
ηs,c (3)		%	217	215	219	221	237	23
SEPR (1)(2)			6,902	6,732	6,519	6,537	7,31	6,658
IPLV			6,046	6,019	6,119	6,101	6,701	6,28
Full Free Cooling Temperature		°C	6,66	5,66	8,78	7,69	9,4	7,84
Flow rate (1)		l/s	10,1	10,9	12,8	14	16,2	18,4
Evaporator Pressure Drop free cooling OFF (1)		kPa	10,1	11,4	12,8	15	32,3	41
Unit pressure drop free cooling ON		kPa	67,4	75,2	56,3	65,4	72,8	90,5
Sound Power (1)	Lw	dB(a)	97	97	100	101	97	100
	Lw with + OP76b	dB(a)	90	91	93		91	
Number of circuits / Compressors			1					
Water volume – open loop Free Cooling		Lt	40		48		42,7	
Minimum water flow rate		l/s	7,6		8,5		5,94	
Dimensions	Length	mm	2.560		3.640		4.720	
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Unit	kg	2.797	2.797	3.337	3.337	4.146	4.146
	Operating weight	kg	3.054	3.054	3.679	3.684	4.552,7	4.562,7
Water Connection Size		Ø mm	88,9				139,7	
Unit	Running Current (1)	A	135	153	161	188	197	245
	Max Running Current	A	172	183	214	236	269	310
	Current for Wiring Sizing	A	190	201	235	259	296	340

		EWFH~TZXSD	470	465	515	540	545	600
Cooling Capacity (1)		kW	627,1	639,3	680,6	712,1	745,7	817,3
Power input (1)		kW	172,2	157,4	195,9	182,4	183,2	220,5
EER (1)			3,64	4,06	3,47	3,9	4,07	3,71
SEER (1)(2)			6,11	5,8	5,704	5,444	5,912	5,831
ηs,c (3)		%	241	229	225	215	233	230
SEPR (1)(2)			6,762	6,624	6,428	7,322	5,413	6,739
IPLV			6,571	6,277	6,45	6,125	6,389	6,3
Full Free Cooling Temperature		°C	8,73	10,48	7,73	7,15	8,82	7,71
Flow rate (1)		l/s	21,5	21,9	23,3	24,4	25,6	28
Evaporator Pressure Drop free cooling OFF (1)		kPa	30,5	38,4	35,8	23,4	35,3	31,1
Unit pressure drop free cooling ON		kPa	74,9	73,1	86	77,2	78,7	81,2
Sound Power (1)	Lw	dB(a)	105	101	102	99	101	106
	Lw with + OP76b	dB(a)	92	95	93	92	95	96
Number of circuits / Compressors			1	2	1		2	
Water volume – open loop Free Cooling		Lt	58,1	152	58,1	76,3	232	289
Minimum water flow rate		l/s	10,2	8,7	10,2	13,4	10,7	13
Dimensions	Length	mm	5..800	6..880	5.800		6.880	
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Unit	kg	4.720	5.065	4.720	5.474	5.284	5.336
	Operating weight	kg	5.243,1	5.841	5.248,1	6.043,3	6.230	6.406
Water Connection Size		Ø mm	139,7				168,3	
Unit	Running Current (1)	A	277	257	312	296	295	357
	Max Running Current	A	357	364	394	414	406	448
	Current for Wiring Sizing	A	393	401	434	456	442	492

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFH-TZXSD

MicroTech 4

		EWFH~TZXSD	620	645	700	750	790	840
Cooling Capacity (1)		kW	819,3	877	941,7	1.013,6	1.071,7	1.139,2
Power input (1)		kW	241,7	230,7	256,6	267,4	271,3	303,5
EER (1)			3,39	3,8	3,67	3,79	3,95	3,75
SEER (1)(2)			5,379	5,957	5,918	6,147	6,205	6,127
ηs,c (3)		%	212	235	234	243	245	242
SEPR (1)(2)			6,839	7,05	6,967	7,142	7,038	6,926
IPLV			5,832	6,479	6,362	6,639	6,69	6,489
Full Free Cooling Temperature		°C	5,15	6,79	5,79	6,91	7,89	7,12
Flow rate (1)		l/s	28,1	30,1	32,3	34,8	36,8	39,1
Evaporator Pressure Drop free cooling OFF (1)		kPa	30,1	34,8	39,1	47	51,1	56,4
Unit pressure drop free cooling ON		kPa	96,8	90,8	102	103	101	111
Sound Power (1)	Lw	dB(a)	101	98	100	101	102	103
	Lw with + OP76b	dB(a)	93				94	
Number of circuits / Compressors			1	2				
Water volume – open loop Free Cooling		Lt	76,3	289		492		
Minimum water flow rate		l/s	13,4	13		12,3		
Dimensions	Length	mm	5.800	6.880		7.960	9.040	
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Unit	kg	5.474	5.593		6.358	6.868	
	Operating weight	kg	6.053,3	6.668	6.673	7.920	8.500	8.505
Water Connection Size		Ø mm	139,7	168,3			219,1	
Unit	Running Current (1)	A	385	384	423	439	445	493
	Max Running Current	A	491	472	517	527	579	618
	Current for Wiring Sizing	A	541	520	569	580	637	680

		EWFH~TZXSD	900	975	H10	H11	H12	H13
Cooling Capacity (1)		kW	1.210,2	1.312,2	1.468,8	1.564,7	1.682,3	1.812,0
Power input (1)		kW	342	375,8	416,1	422,1	463,2	521,6
EER (1)			3,54	3,49	3,530	3,710	3,630	3,470
SEER (1)(2)			6,008	6,025	5,997	5,645	5,693	5,758
ηs,c (3)		%	237	238	237	223	225	227
SEPR (1)(2)			6,695	6,108	6,202	7,177	6,961	6,864
IPLV			6,472	6,443	6,436	6,376	6,481	6,426
Full Free Cooling Temperature		°C	6,3	6,81	6,71	5,83	6,16	6,32
Flow rate (1)		l/s	41,5	45	50,4	53,7	57,7	62,1
Evaporator Pressure Drop free cooling OFF (1)		kPa	51,3	58,4	30,4	48,9	54,2	41,5
Unit pressure drop free cooling ON		kPa	110	115	86,5	110	115	101
Sound Power (1)	Lw	dB(a)	105	107	105	103	104	105
	Lw with + OP76b	dB(a)	94	95		96		97
Number of circuits / Compressors			2					
Water volume – open loop Free Cooling		Lt	583		1.011			
Minimum water flow rate		l/s	14,6		22,6			
Dimensions	Length	mm	9.040	10.120	11.200		12.280	13.360
	Width	mm	2238					
	Height	mm	2553					
Weight	Unit	kg	6.957	7.466	8.383	9.051	9.561	10.070
	Operating weight	kg	8.785	9.370	11.223	11.906	12.491	13.081
Water Connection Size		Ø mm	219,1	219,1	273	273	273	273
Unit	Running Current (1)	A	550	601	661	678	739	826
	Max Running Current	A	655	702	787	902	992	1.090
	Current for Wiring Sizing	A	721	772	866	992	1.091	1.198

1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFH-TZPSD

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

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

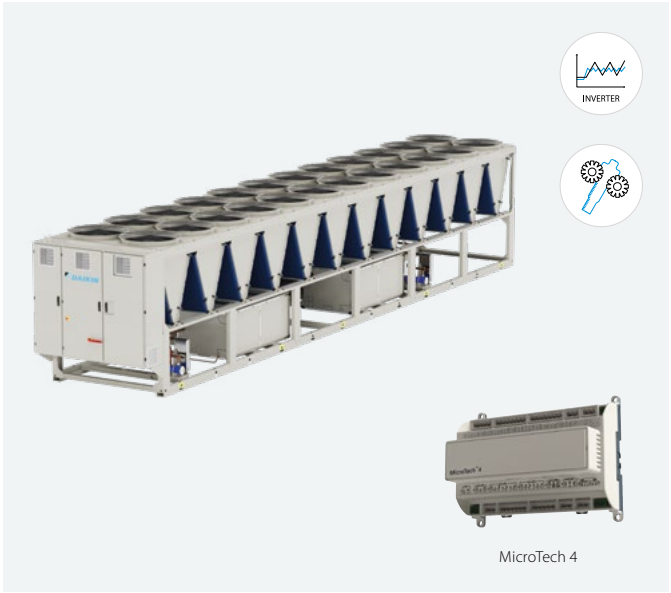
EWFH-TZPSD

		EWFH~TZPSD	225	265	295	340	395	420
Cooling Capacity (1)		kW	308,3	364,2	398,9	460,2	543,6	573,6
Power input (1)		kW	73,4	83,7	98,4	100,8	129,4	133
EER (1)			4,2	4,35	4,05	4,57	4,2	4,31
SEER (1)(2)			6,008	6,095	6,081	6,58	6,397	6,579
ηs,c (3)		%	237	241	240	260	253	260
SEPR (1)(2)			7,312	7,556	7,271	7,983	7,59	5,795
IPLV			6,738	6,736	6,579	7,506	7,214	7,271
Full Free Cooling Temperature		°C	10,78	11,86	11,12	11,82	11,4	12,09
Flow rate (1)		l/s	10,6	12,5	13,7	15,8	18,6	19,7
Evaporator Pressure Drop free cooling OFF (1)		kPa	11,2	12,2	14,5	17,5	23,5	26
Unit pressure drop free cooling ON		kPa	42,8	38,3	44,9	44,2	58,7	77
Sound Power (1)	Lw	dB(a)	97	98	103	96	99	100
	Lw with + OP76b	dB(a)	91	93	94	92		93
Number of circuits / Compressors			1					
Water volume – open loop Free Cooling		Lt	40	48		58,1		
Minimum water flow rate		l/s	7,6	8,5		10,2		
Dimensions	Length	mm	3.640	4.720		5.800		6.880
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Unit	kg	3.307	3.846	3.846	4.720	4.720	5.229
	Operating weight	kg	3.628	4.254	4.259	5.223,1	5.233,1	5.813,1
Water Connection Size		Ø mm	88,9			139,7		
Unit	Running Current (1)	A	121	136	161	170	213	219
	Max Running Current	A	183	214	235	258	301	330
	Current for Wiring Sizing	A	201	235	258	283	331	363

		EWFH~TZPSD	490	500	540	545	615
Cooling Capacity (1)		kW	653	684,2	730,5	717,1	834,7
Power input (1)		kW	160,4	158,9	165	163,7	195,6
EER (1)			4,07	4,3	4,43	4,38	4,27
SEER (1)(2)			6,481	6,199	6,24	5,753	6,646
ηs,c (3)		%	256	245	247	227	263
SEPR (1)(2)			7,297	6,966	7,58	8,001	7,332
IPLV			7,135	6,819	6,956	6,73	7,347
Full Free Cooling Temperature		°C	10,27	9,81	10,71	9,3	9,31
Flow rate (1)		l/s	22,4	23,5	25,1	24,6	28,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	20,1	23,3	25,9	23,8	35
Unit pressure drop free cooling ON		kPa	55,1	61,1	59,1	64,6	76,2
Sound Power (1)	Lw	dB(a)	105	101		99	97
	Lw with + OP76b	dB(a)	93	95	96	93	
Number of circuits / Compressors			1	2		1	2
Water volume – open loop Free Cooling		Lt	76,3	289	289	76,3	492
Minimum water flow rate		l/s	13,4	13	13	13,4	12,3
Dimensions	Length	mm	6.880		7.960	6.880	7.960
	Width	mm	2.238				
	Height	mm	2.553				
Weight	Unit	kg	5.315	5.336	5.846	5.984	6.358
	Operating weight	kg	5.939,3	6.391	6.971	6.618,3	7.900
Water Connection Size		Ø mm	139,7	168,3		139,7	219,1
Unit	Running Current (1)	A	259	259	268	269	332
	Max Running Current	A	367	375	406	425	432
	Current for Wiring Sizing	A	404	412	444	467	476

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFH-TZPSD



MicroTech 4

		EWFH~TZPSD	645	700	770	845	900
Cooling Capacity (1)		kW	875,7	945,2	1.038	1.153,1	1.224,2
Power input (1)		kW	206,6	231,1	250,4	271,4	309,9
EER (1)			4,24	4,09	4,15	4,25	3,95
SEER (1)(2)			6,55	5,945	6,46	6,506	6,388
ηs,c (3)		%	259	235	255	257	253
SEPR (1)(2)			7,884	7,611	7,394	7,499	7,129
IPLV			7,226	7,016	7,052	7,143	6,966
Full Free Cooling Temperature		°C	8,76	7,82	8,3	8,47	7,72
Flow rate (1)		l/s	30	32,4	35,6	39,5	42
Evaporator Pressure Drop free cooling OFF (1)		kPa	37,4	42,1	39,8	60,3	66,1
Unit pressure drop free cooling ON		kPa	82,1	92,3	86,8	170	117
Sound Power (1)	Lw	dB(a)	98	99	101	102	104
	Lw with + OP76b	dB(a)	93		94	95	
Number of circuits / Compressors			2				
Water volume – open loop Free Cooling		Lt	492		583	546	
Minimum water flow rate		l/s	12,3		14,6	14,5	
Dimensions	Length	mm	7.960		9.040	10.120	
	Width	mm	2.238				
	Height	mm	2.553				
Weight	Unit	kg	6.358	6.358	6.957	7.519	
	Operating weight	kg	7.905	7.910	8.765	9.329	9.339
Water Connection Size		Ø mm	219,1	219,1	219,1	219,1	219,1
Unit	Running Current (1)	A	348	385	414	445	503
	Max Running Current	A	458	505	558	609	647
	Current for Wiring Sizing	A	503	556	614	670	712

		EWFH~TZPSD	960	C10	H10	H11	C12
Cooling Capacity (1)		kW	1.446,8	1.352,1	1.439,3	1.532,9	1.610,7
Power input (1)		kW	394,2	352,3	378,7	367,3	385,1
EER (1)			3,67	3,840	3,800	4,170	4,180
SEER (1)(2)			5,929	6,3	5,568	6,031	6,095
ηs,c (3)		%	234	249	220	238	241
SEPR (1)(2)			6,569	6,93	6,912	7,423	7,821
IPLV			6,615	6,787	6,825	6,965	7,041
Full Free Cooling Temperature		°C	6,89	7,8	8,23	7,43	7,88
Flow rate (1)		l/s	49,6	46,4	49,4	52,6	55,2
Evaporator Pressure Drop free cooling OFF (1)		kPa	43	38,9	29,5	32,4	35,0
Unit pressure drop free cooling ON		kPa	98,4	88,8	76,2	84,5	84,1
Sound Power (1)	Lw	dB(a)	107	107	106	102	103
	Lw with + OP76b	dB(a)	95			96	
Number of circuits / Compressors			2				
Water volume – open loop Free Cooling		Lt	1.043			1.011	
Minimum water flow rate		l/s	18,1			22,6	
Dimensions	Length	mm	11.200		12.280		13.360
	Width	mm	2.238				
	Height	mm	2.553				
Weight	Unit	kg	8.341	8.341	8.892	9.561	10.070
	Operating weight	kg	11.225	11.235	11.797	12.476	13.061
Water Connection Size		Ø mm	273				
Unit	Running Current (1)	A	696	639	605	596	623
	Max Running Current	A	694	731	779	875	923
	Current for Wiring Sizing	A	764	804	857	962	1.015

1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFS-TZBSD

- Refrigerant R-513A
- New generation of air to water inverter series with extension of capacity range: Nominal capacity up to 1.850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive
- software logic for stable operating conditions

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

EWFS-TZBSD

		EWFS-TZBSD	275	320	345	400	470	525
Cooling Capacity (1)		kW	353,3	412,4	447,6	528,7	571,3	657
Power input (1)		kW	116,8	124,1	144,8	172,6	194,9	206,4
Cooling Efficiency – EER (1)			3,03	3,32	3,09	3,06	2,93	3,18
SEER (1)(2)			4,648	5,032	4,966	5,234	4,921	5,225
ηs,c (3)		%	183	198	196	206	194	206
SEPR (1)(2)			5,464	5,846	5,645	5,6	5,463	5,685
IPLV			5,084	5,463	5,375	5,565	5,295	5,599
Full Free Cooling Temperature		°C	3,67	7,32	6,22	3,69	2,34	4,85
Flow rate (1)		l/s	12,1	14,1	15,4	18,1	19,6	22,5
Evaporator Pressure Drop free cooling OFF (1)		kPa	14,2	19	22,2	40	46,1	33,9
Unit pressure drop free cooling ON		kPa	88,9	68,2	78,2	114	131	98,7
Sound Power (1)	Lw	dB(a)	97	98	100	97		98
	Lw with + OP76b	dB(a)	73	74	75	73		
Number of circuits / Compressors			1					
Water volume – open loop Free Cooling		Lt	40			42,7		58,1
Minimum water flow rate		l/s	7,6			5,94		10,2
Dimensions	Length	mm	2.560	3.640				4.720
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Shipping weight	kg	2.626	3.136		3.581		4.154
	Operating weight	kg	2.847	3.432		3.907	3.917	4.581
Water Connection Size		Ø mm	88,9			139,7		
Unit	Running Current (1)	A	188	199	230	278	311	328
	Max Running Current	A	220	262	284	346	362	400
	Current for Wiring Sizing	A	242	287		381	398	440

		EWFS-TZBSD	580	625	755	830	915
Cooling Capacity (1)		kW	728,9	758,7	956,9	1.067	1.162,6
Power input (1)		kW	250,2	274,5	275,4	347,3	386,6
Cooling Efficiency – EER (1)			2,91	2,76	3,47	3,072	3,01
SEER (1)(2)			5,233	5,015	5,288	5,217	5,037
ηs,c (3)		%	206	198	209	206	198
SEPR (1)(2)			5,375	5,129	6,023	5,665	5,715
IPLV			5,564	5,377	5,66	5,55	5,409
Full Free Cooling Temperature		°C	3,08	2,4	5,35	3,56	2,02
Flow rate (1)		l/s	25	26	32,8	36,6	39,9
Evaporator Pressure Drop free cooling OFF (1)		kPa	41,1	44,1	44,6	53,1	38,7
Unit pressure drop free cooling ON		kPa	119	128	106	124	127
Sound Power (1)	Lw	dB(a)	98	101	99	100	99
	Lw with + OP76b	dB(a)	73	74			
Number of circuits / Compressors			1		2		
Water volume – open loop Free Cooling		Lt	58,1		280		481
Minimum water flow rate		l/s	10,2		12,9		15,3
Dimensions	Length	mm	4.720		6.880		
	Width	mm	2.238				
	Height	mm	2.553				
Weight	Shipping weight	kg	4.154		5.549		5.806
	Operating weight	kg	4.591	4.596	6.341	6.351	6.819
Water Connection Size		Ø mm	139,7		168,3		219,1
Unit	Running Current (1)	A	393	429	451	558	617
	Max Running Current	A	457	464	600	668	
	Current for Wiring Sizing	A	468		660	735	

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
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EWFS-TZBSD

MicroTech 4

		EWFS-TZBSD	C10	H10	H11	C12	C13	C14
Cooling Capacity (1)		kW	1.244,3	1.343,5	1.446,7	1.570,3	1.721,3	1.797,1
Power input (1)		kW	442,7	453,9	475,3	520,6	574,3	633,0
Cooling Efficiency – EER (1)			2,810	2,960	3,040	3,020	3,000	2,840
SEER (1)(2)			4,917	5,034	5,163	4,951	5,254	5,165
ηs,c (3)		%	194	198	204	195	207	204
SEPR (1)(2)			5,335	5,526	5,541	5,264	5,324	5,177
IPLV			5,281	5,468	5,513	5,558	5,543	5,454
Full Free Cooling Temperature		°C	2,66	2,23	3,21	3,88	2,58	2,15
Flow rate (1)		l/s	42,7	46,1	49,6	53,9	59,0	61,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	43,2	44,0	49,3	56,2	65,1	70,3
Unit pressure drop free cooling ON		kPa	129	131	127	129	136	147
Sound Power (1)	Lw	dB(a)	100	101		102	104	105
	Lw with + OP76b	dB(a)	74	75				76
Number of circuits / Compressors			2					
Water volume – open loop Free Cooling		Lt	481	557				
Minimum water flow rate		l/s	15,3	18,2				
Dimensions	Length	mm	6.880	7.960	9.040	10.120	11.200	
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Shipping weight	kg	5.806	6.427	6.936	7.446	7.956	8.277
	Operating weight	kg	6.834	7.606	8.191	8.776	9.366	9.697
Water Connection Size		Ø mm	219,1					
Unit	Running Current (1)	A	700	717	748	816	895	991
	Max Running Current	A	751	817	884	930	948	1.120
	Current for Wiring Sizing	A	826	896	935	947	958	1.232

		EWFS-TZBSD	C15	H16	H17	H18	H19
Cooling Capacity (1)		kW	1.969,9	2.035,6	2.107,1	2.314,2	2.312,5
Power input (1)		kW	687,1	679,2	739,9	872,6	887,7
Cooling Efficiency – EER (1)			2,870	3,000	2,850	2,650	2,610
SEER (1)(2)			5,168	5,095	5,177	5,178	5,098
ηs,c (3)		%	204	201	204		201
SEPR (1)(2)			5,162	6,388	6,132	5,860	5,790
IPLV			5,411	5,860	5,754	5,648	5,583
Full Free Cooling Temperature		°C	1,31	2,87	2,25	1,33	2,12
Flow rate (1)		l/s	67,6	69,8	72,3	79,4	79,3
Evaporator Pressure Drop free cooling OFF (1)		kPa	48,0	50,0	52,8	60,6	61,5
Unit pressure drop free cooling ON		kPa	125	131	139	148	146
Sound Power (1)	Lw	dB(a)	106	104	105	106	107
	Lw with + OP76b	dB(a)	76				
Number of circuits / Compressors			2				
Water volume – open loop Free Cooling		Lt	1.011				
Minimum water flow rate		l/s	22,6				
Dimensions	Length	mm	12.280			13.360	
	Width	mm	2.238				
	Height	mm	2.553				
Weight	Shipping weight	kg	9.157	9.561		10.070	
	Operating weight	kg	11.117	11.535	11.550	12.140	12.150
Water Connection Size		Ø mm	273				
Unit	Running Current (1)	A	1.071	1.060	1.157	1.353	1.376
	Max Running Current	A	1.200	1.227	1.340	1.475	1.608
	Current for Wiring Sizing	A	1.275	1.280	1.474	1.621	

1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFS-TZSSD

- Refrigerant R-513A
- New generation of air to water inverter series with extension of capacity range: Nominal capacity up to 1.850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive
- software logic for stable operating conditions

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

EWFS-TZSSD

		EWFS-TZSSD	285	325	380	430	495	535	595
Cooling Capacity (1)		kW	379,6	427	497,7	565,5	644,9	699,1	768,1
Power input (1)		kW	104,5	114,9	142,1	166,4	190,8	200,7	235,1
Cooling Efficiency – EER (1)			3,63	3,72	3,5	3,4	3,38	3,48	3,270
SEER (1)(2)			5,07	5,307	5,507	5,46	5,167	5,335	5,220
ηs,c (3)		%	200	209	217	215	204	210	206
SEPR (1)(2)			6,086	6,183	6,056	5,903	5,851	5,936	5,611
IPLV			6,487	6,589	6,445	7,06	7,327	6,935	6,450
Full Free Cooling Temperature		°C	8,62	10,46	8,81	7,22	5,45	7,38	6,13
Flow rate (1)		l/s	13	14,6	17,1	19,4	22,1	24	26,3
Evaporator Pressure Drop free cooling OFF (1)		kPa	16,2	16,4	35,8	45,3	32,7	37,8	44,8
Unit pressure drop free cooling ON		kPa	60,8	50,5	103	98,6	97,7	90,2	105
Sound Power (1)	Lw	dB(a)	98		100	98	97	98	
	Lw with + OP76b	dB(a)	73	74	75	73		74	
Number of circuits / Compressors			1						
Water volume – open loop Free Cooling		Lt	40	48		42,7	58,1		
Minimum water flow rate		l/s	7,6	8,5	5,94		10,2		
Dimensions	Length	mm	3.640	4.720			5.800		
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Shipping weight	kg	3.136	3.675		4.090	4.154	4.664	
	Operating weight	kg	3.427	4.045	4.050	4.487	4.576	5.161	5.166
Water Connection Size		Ø mm	88,9			139,7	140		139,7
Unit	Running Current (1)	A	170	185	226	268	305	319	370
	Max Running Current	A	231	272	294	357	372	411	467
	Current for Wiring Sizing	A	254	298		392	410	452	480

		EWFS-TZSSD	650	520	555	585	645	705	760
Cooling Capacity (1)		kW	849,0	672,4	718,1	763,4	839,2	927,7	984,9
Power input (1)		kW	281,5	190,5	206,7	233,6	237,7	286,3	271,9
Cooling Efficiency – EER (1)			3,020	3,530	3,470	3,270	3,530	3,240	3,620
SEER (1)(2)			5,093	4,767	4,838	4,774	4,926	4,820	5,427
ηs,c (3)		%	201	188	191	188	194	190	214
SEPR (1)(2)			5,363	5,892	5,738	5,662	5,818	5,647	6,127
IPLV			6,337	6,306	6,178	6,272	6,550	6,785	6,548
Full Free Cooling Temperature		°C	4,66	7,82	7,04	6,2	7,38	6,04	7,29
Flow rate (1)		l/s	29,1	23,1	24,6	26,2	28,8	31,8	33,8
Evaporator Pressure Drop free cooling OFF (1)		kPa	54,1	29,0	32,6	36,0	31,9	37,6	46,8
Unit pressure drop free cooling ON		kPa	124	79,6	88,2	96,4	84,6	98,9	101
Sound Power (1)	Lw	dB(a)	101	99		101		103	99
	Lw with + OP76b	dB(a)	74	75			76		74
Number of circuits / Compressors			1	2					
Water volume – open loop Free Cooling		Lt	58,1	270			255		280
Minimum water flow rate		l/s	10,2	8,6			10,7		12,9
Dimensions	Length	mm	5.800				6.880		7.960
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Shipping weight	kg	4.664	4.555			5.083		6.059
	Operating weight	kg	5.176	5.237	5.242	5.247	5.835	5.840	6.916
Water Connection Size		Ø mm	139,7	168,3					
Unit	Running Current (1)	A	439	312	336	377	383	455	446
	Max Running Current	A	474	421	450	481	523	566	610
	Current for Wiring Sizing	A	480	463	495	528	572		671

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
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EWFS-TZSSD

MicroTech 4

		EWFS-TZSSD	835	960	C10	H10	H11	H12	H13
Cooling Capacity (1)		kW	1.076,3	1.237,0	1.300,8	1.315,3	1.474,3	1.645,1	1.766,4
Power input (1)		kW	318,4	377,4	417,1	420,5	475,6	515,1	562,9
Cooling Efficiency – EER (1)			3,380	3,280	3,120	3,130	3,100	3,190	3,140
SEER (1)(2)			5,30	5,171	5,102	5,043	5,122	5,274	4,372
ηs,c (3)		%	209	204	201	199	202	208	172
SEPR (1)(2)			5,851	5,818	5,332	5,586	5,545	5,592	5,503
IPLV			6,624	6,415	6,507	6,418	6,452	6,402	6,469
Full Free Cooling Temperature		°C	6,1	4	3,11	2,94	3,22	5,16	5,49
Flow rate (1)		l/s	36,9	42,4	44,6	45,1	50,6	56,4	60,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	54,1	42,5	46,2	43,0	51,0	60,6	67,6
Unit pressure drop free cooling ON		kPa	115	120	127	125	133	126	132
Sound Power (1)	Lw	dB(a)		100		101		102	104
	Lw with + OP76b	dB(a)		74		75			76
Number of circuits / Compressors					2				
Water volume – open loop Free Cooling		Lt	280	481		557			
Minimum water flow rate		l/s	12,9	15,3		18,2			
Dimensions	Length	mm		7.960			9.040	11.200	12.280
	Width	mm			2.238				
	Height	mm			2.553				
Weight	Shipping weight	kg	6.059	6.316		6.427	6.936	7.956	8.465
	Operating weight	kg	6.926	7.404	7.409	7.601	8.191	9.356	9.945
Water Connection Size		Ø mm	168,3		219,1				
Unit	Running Current (1)	A	515	603	662	667	749	807	878
	Max Running Current	A	679	706	761	789	884	948	1.187
	Current for Wiring Sizing	A	747	776	837	868	935	958	1.248

		EWFS-TZSSD	H14	H15	H16	H17	H18	H19
Cooling Capacity (1)		kW	1.894,7	1.965,4	2.043,3	2.235,0	2.280,9	2.357,6
Power input (1)		kW	618,6	608,3	641,8	745,8	800,9	882,7
Cooling Efficiency – EER (1)			3,060	3,230	3,180	3,000	2,850	2,670
SEER (1)(2)			4,156	5,294	5,056	5,217	4,602	5,064
ηs,c (3)		%	163	209	199	206	181	200
SEPR (1)(2)			5,144	6,630	6,388	5,894	5,994	5,790
IPLV			6,286	5,536	5,698	5,723	5,836	5,606
Full Free Cooling Temperature		°C	4,41	3,8	3,13	3,02	2,67	2,12
Flow rate (1)		l/s	65,0	67,4	70,1	76,6	78,2	80,9
Evaporator Pressure Drop free cooling OFF (1)		kPa	45,1	47,5	50,5	57,4	59,4	63,6
Unit pressure drop free cooling ON		kPa	118	125	134	142	147	155
Sound Power (1)	Lw	dB(a)	105	103	104	105	106	107
	Lw with + OP76b	dB(a)	76	75		76		
Number of circuits / Compressors					2			
Water volume – open loop Free Cooling		Lt			1.011			
Minimum water flow rate		l/s			22,6			
Dimensions	Length	mm		12.280		13.360		
	Width	mm			2.238			
	Height	mm			2.553			
Weight	Shipping weight	kg	9.157	9.561		10.070		
	Operating weight	kg	11.107	11.520	11.535	12.130	12.140	12.150
Water Connection Size		Ø mm			273			
Unit	Running Current (1)	A	970	954	1.004	1.166	1.247	1.368
	Max Running Current	A	1.156	1.124	1.227	1.351	1.475	1.608
	Current for Wiring Sizing	A	1.271	1.237	1.280	1.486	1.621	

1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFS-TZXSD

- Refrigerant R-513A
- New generation of air to water inverter series with extension of capacity range: Nominal capacity up to 1.850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive
- software logic for stable operating conditions

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

EWFS-TZXSD

		EWFS-TZXSD	295	345	380	440	515	565	635
Cooling Capacity (1)		kW	393,3	464,2	504,5	576,4	684,7	755	832,8
Power input (1)		kW	111,7	127,2	147,6	146,3	193,5	206,8	245
Cooling Efficiency – EER (1)			3,52	3,65	3,42	3,94	3,54	3,65	3,4
SEER (1)(2)			5,287	5,458	5,423	5,849	5,656	5,799	5,696
ηs,c (3)		%	208	215	214	231	223	229	225
SEPR (1)(2)			6,635	6,766	6,62	7,475	6,991	6,998	6,597
IPLV			5,759	5,595	5,394	5,248	5,188	5,131	5,296
Full Free Cooling Temperature		°C	7,14	8,71	7,68	8,8	6,63	7,75	6,43
Flow rate (1)		l/s	13,5	15,9	17,3	19,8	23,5	25,9	28,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	17,5	19,4	22,6	26,5	36,4	26,6	31,4
Unit pressure drop free cooling ON		kPa	64,2	58,1	67	65	86,8	70,5	83
Sound Power (1)	Lw	dB(a)	97	98	103	96	97	100	105
	Lw with + OP76b	dB(a)	72	73			71		72
Number of circuits / Compressors			1						
Water volume – open loop Free Cooling		Lt	40	48		58,1		76,3	
Minimum water flow rate		l/s	7,6	8,5		10,2		13,4	
Dimensions	Length	mm	3.640	4.720		5.800		6.880	
	Width	mm	2.238						
	Height	mm	2.553						
Weight	Shipping weight	kg	3.307	3.846		4.720		5.315	
	Operating weight	kg	3.598	4.216	4.221	5.202	5.212	5.897	5.907
Water Connection Size		Ø mm	88,9			139,7			
Unit	Running Current (1)	A	181	204	234	238	309	328	385
	Max Running Current	A	224	261	289	314	342	404	452
	Current for Wiring Sizing	A	246	288	298	345	376	444	491

		EWFS-TZXSD	705	760	525	565	610	670
Cooling Capacity (1)		kW	912,5	967,7	701,3	756,2	806,7	870,6
Power input (1)		kW	262	298,7	176,7	203	210,7	242,2
Cooling Efficiency – EER (1)			3,48	3,24	3,97	3,73	3,83	3,6
SEER (1)(2)			5,285	5,158	5,598	5,491	5,57	5,47
ηs,c (3)		%	208	203	221	217	220	216
SEPR (1)(2)			7,257	6,805	6,937	6,75	6,9	6,625
IPLV			5,22	5,811	5,66	5,565	5,488	5,498
Full Free Cooling Temperature		°C	5,1	4,18	8,64	7,72	8,79	7,87
Flow rate (1)		l/s	31,3	33,2	24,1	25,9	27,7	29,9
Evaporator Pressure Drop free cooling OFF (1)		kPa	37,2	41,4	38,5	43,7	29,8	33,8
Unit pressure drop free cooling ON		kPa	96,5	107	78,3	88,3	69	77,9
Sound Power (1)	Lw	dB(a)	99	100			101	
	Lw with + OP76b	dB(a)	72			73		74
Number of circuits / Compressors			1		2			
Water volume – open loop Free Cooling		Lt	76,3		255			
Minimum water flow rate		l/s	13,4		8,6		10,7	
Dimensions	Length	mm	6.880				7.960	
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Shipping weight	kg	5.984		5.254		5.763	
	Operating weight	kg	6.586	6.596	5.986	5.996	6.576	6.581
Water Connection Size		Ø mm	139,7		168,3			
Unit	Running Current (1)	A	415	469	292	331	342	389
	Max Running Current	A	520	568	389	429	457	498
	Current for Wiring Sizing	A	572	625	428	472	503	548

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFS-TZXSD

MicroTech 4

		EWFS-TZXSD	725	805	880	950	C10	H10	H11
Cooling Capacity (1)		kW	937,3	1.038,1	1.125,0	1.220,6	1.274,1	1.370,2	1.436,4
Power input (1)		kW	266,3	280,00	301,90	354,20	356,3	407,6	405,9
Cooling Efficiency – EER (1)			3,52	3,71	3,73	3,45	3,580	3,360	3,540
SEER (1)(2)			5,52	5,693	5,53	5,674	5,183	4,899	5,793
ηs,c (3)		%	218	225	218	224	204	193	229
SEPR (1)(2)			6,573	6,684	7,241	6,895	7,003	6,714	6,818
IPLV			5,5	5,594	5,57	5,485	5,977	5,840	5,764
Full Free Cooling Temperature		°C	6,93	5,54	6,26	5,07	6,16	5,12	5,94
Flow rate (1)		l/s	32,1	35,6	38,6	41,9	43,7	47,0	49,3
Evaporator Pressure Drop free cooling OFF (1)		kPa	35,1	32,5	36,9	42,3	44,8	50,1	49,1
Unit pressure drop free cooling ON		kPa	84,5	78,8	89,2	102	98,2	111	103
Sound Power (1)	Lw	dB(a)	102	105	98	100	101	102	103
	Lw with + OP76b	dB(a)	74	75			72		
Number of circuits / Compressors						2			
Water volume – open loop Free Cooling		Lt	298			481			557
Minimum water flow rate		l/s	14,3			15,3			18,2
Dimensions	Length	mm	7.960		9.040		10.120		11.200
	Width	mm				2.238			
	Height	mm				2.553			
Weight	Shipping weight	kg	5.834	6.624	6.881		7.390		8.011
	Operating weight	kg	6.704	7.753	8.019	8.029	8.609	8.619	9.391
Water Connection Size		Ø mm	168,3			219,1			
Unit	Running Current (1)	A	425	446	491	569	572	648	645
	Max Running Current	A	535	573	626	683	720	782	744
	Current for Wiring Sizing	A	585	607	689	751	792	860	819

		EWFS-TZXSD	C12	H12	H13	H14	H15	H16	H17
Cooling Capacity (1)		kW	1.536,8	1.603,6	1.720,1	1.866,7	1.957,9	2.092,9	2.138,8
Power input (1)		kW	463,6	489,2	532,4	523,3	577,6	655,3	711,3
Cooling Efficiency – EER (1)			3,320	3,280	3,230	3,570	3,390	3,190	3,010
SEER (1)(2)			5,680	5,627	5,687	5,603	5,478	5,355	5,225
ηs,c (3)		%	224	222	224	221	216	211	206
SEPR (1)(2)			6,565	6,273	6,423	7,323	6,816	6,147	6,234
IPLV			5,622	5,541	5,840	6,097	5,958	6,475	6,196
Full Free Cooling Temperature		°C	4,96	4,27	4,67	4,8	3,99	2,82	2,4
Flow rate (1)		l/s	52,7	55,0	59,0	64,0	67,1	71,8	73,3
Evaporator Pressure Drop free cooling OFF (1)		kPa	54,4	35,3	39,1	43,4	46,7	51,9	53,9
Unit pressure drop free cooling ON		kPa	115	100	102	106	114	128	133
Sound Power (1)	Lw	dB(a)	105	108	106	102	103	104	105
	Lw with + OP76b	dB(a)	72			73			74
Number of circuits / Compressors						2			
Water volume – open loop Free Cooling		Lt	557			1.011			
Minimum water flow rate		l/s	18,2			22,6			
Dimensions	Length	mm	11.200		12.280		13.360		
	Width	mm				2.238			
	Height	mm				2.553			
Weight	Shipping weight	kg	8.011		8.892		10.070		
	Operating weight	kg	9.401	9.416	10.826	12.080	12.095	12.110	12.125
Water Connection Size		Ø mm	219,1				273		
Unit	Running Current (1)	A	731	769	833	828	909	1.024	1.115
	Max Running Current	A	803	851	899	997	1.103	1.217	1.330
	Current for Wiring Sizing	A	883	924		1.097	1.214	1.268	1.463

1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFS-TZPSD

- Refrigerant R-513A
- New generation of air to water inverter series with extension of capacity range: Nominal capacity up to 1850 kW
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
- Best capacity with smallest footprint
- Microchannel coils
- Unique fully integrated active harmonic filtration solution
- Glycol free application
- MicroTech 4 controller: sophisticated adaptive
- software logic for stable operating conditions

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

EWFS-TZPSD

		EWFS-TZPSD	285	330	370	405	450	490
Cooling Capacity (1)		kW	379,8	447,7	484,8	550,1	613,9	660,6
Power input (1)		kW	90,6	109,7	125,7	126,1	145,1	161,2
Cooling Efficiency – EER (1)			4,19	4,08	3,86	4,36	4,23	4,1
SEER (1)(2)			5,743	5,964	5,882	6,268	6,216	6,048
ηs,c (3)		%	227	236	232	248	246	239
SEPR (1)(2)			7,375	7,291	6,819	4,687	7,969	7,675
IPLV			6,447	6,205	5,786	5,655	6,054	5,949
Full Free Cooling Temperature		°C	10,82	11,41	10,65	11,18	10,07	9,32
Flow rate (1)		l/s	13	15,4	16,6	18,9	21,1	22,7
Evaporator Pressure Drop free cooling OFF (1)		kPa	13,1	18,1	20,9	24,5	18,3	20,8
Unit pressure drop free cooling ON		kPa	41,1	43,6	50,1	51,2	49,7	56,3
Sound Power (1)	Lw	dB(a)	97	98	100	95	96	98
	Lw with + OP76b	dB(a)	71	73			71	
Number of circuits / Compressors			1					
Water volume – open loop Free Cooling		Lt	48			58,1	76,3	
Minimum water flow rate		l/s	8,5			10,2	13,4	
Dimensions	Length	mm	4.720	5.800		6.880		
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Shipping weight	kg	3.846	4.356		5.229	5.315	
	Operating weight	kg	4.211	4.791	4.796	5.771	5.882	5.887
Water Connection Size		Ø mm	88,9			139,7		
Unit	Running Current (1)	A	149	178	202	208	237	261
	Max Running Current	A	220	258	285	293	352	404
	Current for Wiring Sizing	A	242	284	310	322	388	444

		EWFS-TZPSD	530	575	615	675	735
Cooling Capacity (1)		kW	709,1	778,7	838,4	887,5	962,2
Power input (1)		kW	170,7	194,8	212,7	231,2	257,6
Cooling Efficiency – EER (1)			4,16	4	3,94	3,84	3,73
SEER (1)(2)			5,945	5,862	5,852	5,73	5,785
ηs,c (3)		%	235	231		226	228
SEPR (1)(2)			7,358	7,217	5,744	6,974	6,89
IPLV			6,001	5,87	5,962	6,219	6,346
Full Free Cooling Temperature		°C	10,21	9,21	9,86	9,23	8,3
Flow rate (1)		l/s	24,3	26,7	28,8	30,4	33
Evaporator Pressure Drop free cooling OFF (1)		kPa	39,4	46,2	32,1	35	36,8
Unit pressure drop free cooling ON		kPa	71,8	83,5	65,4	71,8	78,2
Sound Power (1)	Lw	dB(a)	100		101		102
	Lw with + OP76b	dB(a)	72	73		74	
Number of circuits / Compressors			2				
Water volume – open loop Free Cooling		Lt	255				298
Minimum water flow rate		l/s	8,6		10,7		14,3
Dimensions	Length	mm	7.960		9.040		
	Width	mm	2.238				
	Height	mm	2.553				
Weight	Shipping weight	kg	5.763		6.273		6.344
	Operating weight	kg	6.566	6.571	7.151	7.161	7.279
Water Connection Size		Ø mm	168,3				
Unit	Running Current (1)	A	283	319	345	373	412
	Max Running Current	A	399	429	468	508	535
	Current for Wiring Sizing	A	439	472	514	559	585

(1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

EWFS-TZPSD

MicroTech 4

		EWFS-TZPSD	810	890	960	C10	H10	H11
Cooling Capacity (1)		kW	1.069	1.159,8	1.236,5	1.302,5	1.381,4	1.446,9
Power input (1)		kW	273,2	296,4	332,7	343,6	382,2	398,4
Cooling Efficiency – EER (1)			3,91	3,91	3,72	3,790	3,610	3,630
SEER (1)(2)			6,009	6,196	5,371	6,078	5,687	6,041
ηs,c (3)		%	237	245	212	240	224	239
SEPR (1)(2)			7,074	7,66	7,292	7,237	7,025	6,994
IPLV			6,142	6,314	6,136	6,287	6,156	6,119
Full Free Cooling Temperature		°C	8,44	7,42	6,58	7,29	6,51	7,13
Flow rate (1)		l/s	36,7	39,8	42,4	44,7	47,4	49,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	34,2	38,7	42,6	46,3	50,7	54,2
Unit pressure drop free cooling ON		kPa	74,8	84,8	93,7	93	102	96,6
Sound Power (1)	Lw	dB(a)	105	99	100	101	102	103
	Lw with + OP76b	dB(a)	74	72				
Number of circuits / Compressors			2					
Water volume – open loop Free Cooling		Lt	481					557
Minimum water flow rate		l/s	15,3					18,2
Dimensions	Length	mm	10.120			11.200		12.280
	Width	mm	2.238					
	Height	mm	2.553					
Weight	Shipping weight	kg	7.134	7.390		7.900		8.521
	Operating weight	kg	8.327	8.594	8.604	9.189	9.199	9.971
Water Connection Size		Ø mm	219,1					
Unit	Running Current (1)	A	435	483	537	553	610	634
	Max Running Current	A	573	616	672	709	761	796
	Current for Wiring Sizing	A	607	677	740	780	837	876

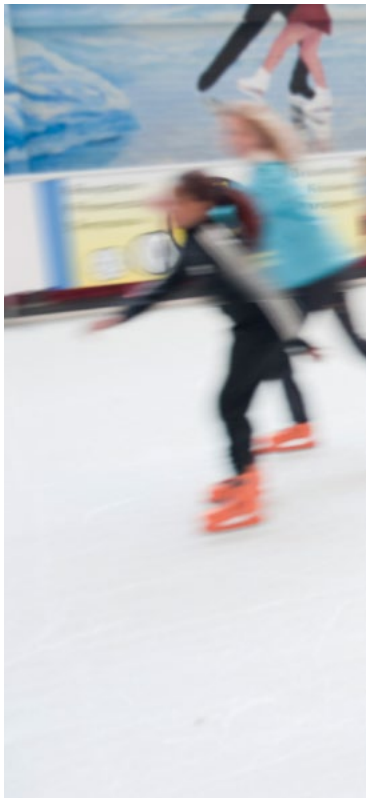
		EWFS-TZPSD	C12	H12	H13	H14	H15
Cooling Capacity (1)		kW	1.537,4	1.651,8	1.785,6	1.875,0	1.970,5
Power input (1)		kW	435,5	480,7	519,7	514,8	571,8
Cooling Efficiency – EER (1)			3,530	3,440	3,440	3,640	3,450
SEER (1)(2)			6,011	5,921	5,886	5,120	5,622
ηs,c (3)		%	237	234	232	202	222
SEPR (1)(2)			6,884	6,737	6,633	7,524	7,000
IPLV			6,152	6,299	6,124	5,955	5,832
Full Free Cooling Temperature		°C	6,35	5,31	5,45	4,7	3,88
Flow rate (1)		l/s	52,7	56,6	61,2	64,3	67,6
Evaporator Pressure Drop free cooling OFF (1)		kPa	54,1	36,6	40,6	43,5	47,3
Unit pressure drop free cooling ON		kPa	106	95,3	98,3	106	116
Sound Power (1)	Lw	dB(a)	105	108	106	102	103
	Lw with + OP76b	dB(a)	73				
Number of circuits / Compressors			2				
Water volume – open loop Free Cooling		Lt	557	1.011			
Minimum water flow rate		l/s	18,2	22,6			
Dimensions	Length	mm	12.280		13.360		
	Width	mm	2.238				
	Height	mm	2.553				
Weight	Shipping weight	kg	8.521	8.892	9.402	10.070	
	Operating weight	kg	9.976	10.816	11.401	12.085	12.100
Water Connection Size		Ø mm	219,1	273			
Unit	Running Current (1)	A	689	757	814	816	900
	Max Running Current	A	845	893	951	1.039	1.135
	Current for Wiring Sizing	A	929	982	1.021	1.143	1.248

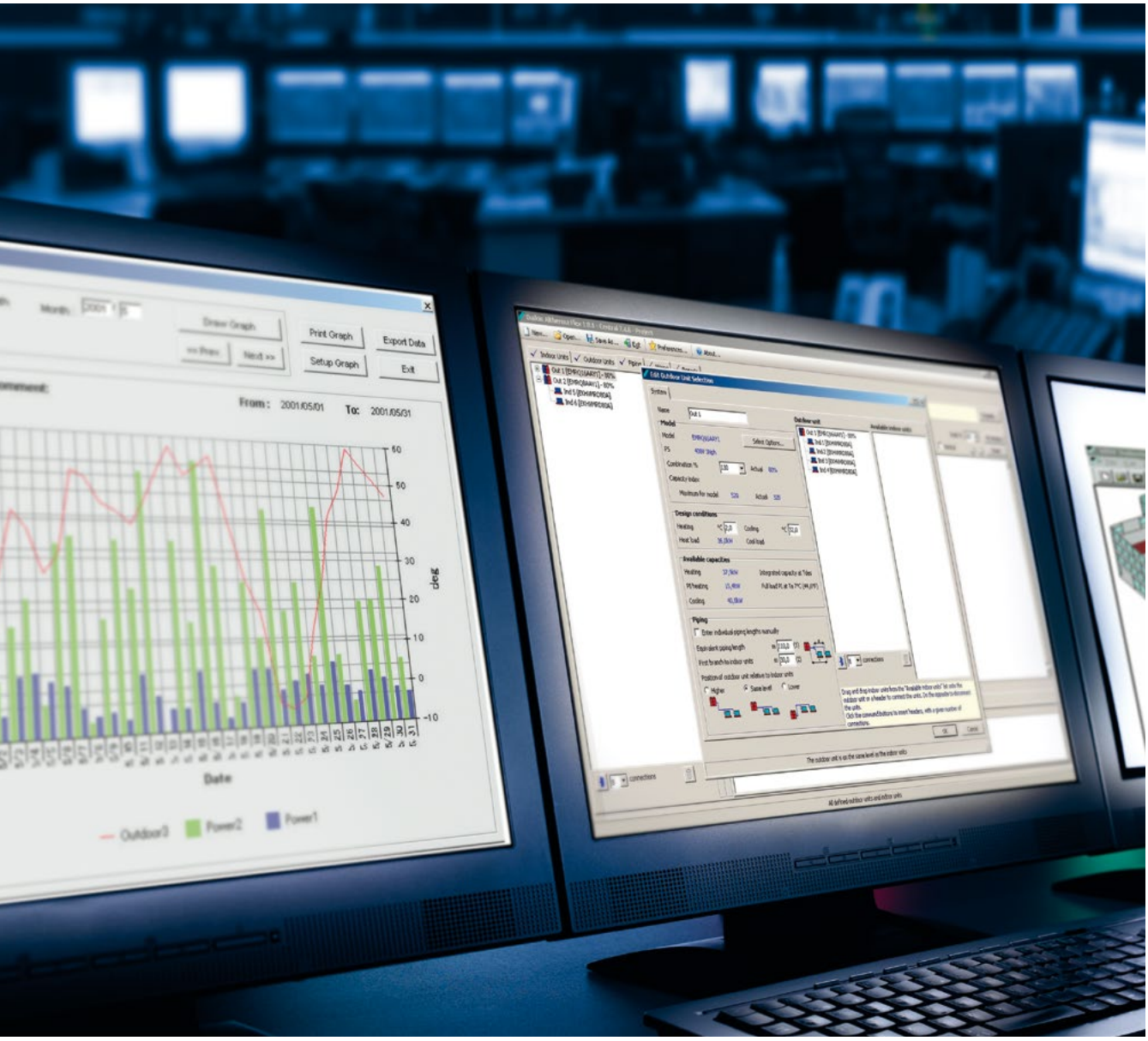
1) Standard Rating at Ambient 35°C Inlet temperature 26°C, leaving temperature 18°C: Fluid Ethylene glycol 25%, Fouling factor = 0;
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow;
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,03).

Air to water chiller installation

Printing company application

Air to water chiller installation





Data center application

Ice rink application

Process cooling application

BLUEVOLUTION

EWYA-DV3P

- Inverter controlled swing compressor with refrigerant R-32
- R-32 refrigerant: reduces the environmental impact by 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- Renewed fan shape with improved air circulation
- New casing for the outdoor units
- Improved serviceability with rotatable switchbox
- Separate MMI-2 controller for indoor installation

EW(A-Y)A004-008DV3P_R

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

EWYA-DV3P

Heating & Cooling				EWYA-DV3P	004	006	008
Space cooling	A Condition 35°C	Pdc		kW	4,52	5,09	5,44
	ηs,c			%	213	215	
Space heating	Average climate water outlet 35°C	General	SCOP		4,54	4,52	4,61
			Seasonal space heating eff. class		A+++		
Cooling capacity	Nom.			kW	4,86(1)/4,52(2)	5,83(1)/5,09(2)	6,18(1)/5,44(2)
Heating capacity	Nom.			kW	4,30(1)/4,60(2)	6,00(1)/5,90(2)	7,50(1)/7,80(2)
Power input	Cooling	Nom.		kW	0,820(1)/1,36(2)	1,08(1)/1,55(2)	1,19(1)/1,73(2)
	Heating	Nom.		kW	0,840(1)/1,26(2)	1,24(1)/1,69(2)	1,63(1)/2,23(2)
Capacity control	Method				Variable (inverter)		
EER					5,91(1)/3,32(2)	5,40(1)/3,28(2)	5,19(1)/3,14(2)
COP					5,10(1)/3,65(2)	4,85(1)/3,50(2)	4,60(1)/3,50(2)
Dimensions	Unit	Height		mm	770		
		Width		mm	1.250		
		Depth		mm	362		
Weight	Unit			kg	88,0		
Water heat exchanger	Type				Plate heat exchanger		
	Water volume			l	1		
Air heat exchanger	Type				-		
Compressor	Type				Hermetically sealed swing compressor		
	Quantity				1		
Fan	Type				Propeller fan		
	Quantity				1		
	Air flow rate	Cooling	Nom.	m^3/min	-		
		Heating	Nom.	m^3/min	-		
Sound power level	Cooling	Nom.		dBA	61,0(1)	62,0(1)	
	Heating	Nom.		dBA	58,0(1)	60,0(1)	62,0(1)
Sound pressure level	Cooling	Nom.		dBA	48,0(1)	49,0(1)	50,0(1)
	Heating	Nom.		dBA	44,0(1)	47,0(1)	49,0(1)
Operation range	Air side	Cooling	Min.~Max.	°CDB	10(3)~43		
		Heating	Min.~Max.	°CDB	-25~25		
Refrigerant	Type/GWP				R-32/675,0		
	Charge			kg	1,35		
	Control				-		
	Circuits	Quantity			-		
Refrigerant charge	Per circuit			kg	-		
Unit	Running current	Max		A	-		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /230 +/-10%		

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

EWYA-DV3P

- Inverter controlled swing compressor with refrigerant R-32
- R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- Easy installation and maintenance
- Separate MMI-2 controller for indoor installation

EWYA

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

EWYA-DV3P

Heating & Cooling				EWYA-DV3P	009	011	014	016
Space cooling	A Condition 35°C	Pdc		kW	9,35	11,6	12,8	14,0
		ηs,c		%	222	229	226	221
SEER					5,62 (5)	5,79 (5)	5,71 (5)	5,59 (5)
Space heating	Average climate water outlet 35°C	General	SCOP		4,82	4,73	4,70	4,69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9,35 (1) / 9,10 (2)	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)
Heating capacity	Nom.			kW	9,37 (3) / 9,00 (4)	10,6 (3) / 9,82 (4)	12,0 (3) / 12,5 (4)	16,0 (3) / 16,0 (4)
Power input	Cooling	Nom.		kW	2,79 (1) / 1,71 (2)	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)
	Heating	Nom.		kW	1,91 (3) / 2,43 (4)	2,18 (3) / 2,68 (4)	2,46 (3) / 3,42 (4)	3,53 (3) / 4,56 (4)
Capacity control	Method				Variable (inverter)			
EER					3,35 (1) / 5,34 (2)	3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)
COP					4,91 (3) / 3,71 (4)	4,83 (3) / 3,66 (4)	4,87 (3) / 3,64 (4)	4,53 (3) / 3,51 (4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1.380			
		Depth		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48,0	55,8	70,4	85,0
Sound power level	Cooling	Nom.		dBA	65,5	67,0	69,0	
Sound pressure level	Cooling	Nom.		dBA	44,0	47,7	50,8	51,0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			
		Heating	Min.~Max.	°CDB	9 ~60			
Refrigerant	Type/GWP				R-32/675,0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3,80			
	Per circuit			TCO_2Eq	2,6			
Unit	Running current	Max		A	30,8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			

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

EWYA-DW1P

- Inverter controlled swing compressor with refrigerant R-32
- R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- Easy installation and maintenance
- Separate MMI-2 controller for indoor installation

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

EWYA-DW1P

Heating & Cooling				**EWYA-DW1P**	**009**	**011**	**014**	**016**
Space cooling	A Condition 35°C	Pdc		kW	9,35	11,6	12,8	14,0
		ηs,c		%	222	229	226	221
SEER					5,62 (5)	5,79 (5)	5,71 (5)	5,59 (5)
Space heating	Average climate water outlet 35°C	General	SCOP		4,82	4,73	4,70	4,69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9,35 (1) / 9,10 (2)	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)
Heating capacity	Nom.			kW	9,37 (3) / 9,00 (4)	10,6 (3) / 9,82 (4)	12,0 (3) / 12,5 (4)	16,0 (3) / 16,0 (4)
Power input	Cooling	Nom.		kW	2,79 (1) / 1,71 (2)	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)
	Heating	Nom.		kW	1,91 (3) / 2,43 (4)	2,18 (3) / 2,68 (4)	2,46 (3) / 3,42 (4)	3,53 (3) / 4,56 (4)
Capacity control	Method				Variable (inverter)			
EER					3,35 (1) / 5,34 (2)	3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)
COP					4,91 (3) / 3,71 (4)	4,83 (3) / 3,66 (4)	4,87 (3) / 3,64 (4)	4,53 (3) / 3,51 (4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1.380			
		Depth		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48,0	55,8	70,4	85,0
Sound power level	Cooling	Nom.		dBA	65,5	67,0	69,0	
Sound pressure level	Cooling	Nom.		dBA	44,0	47,7	50,8	51,0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			
		Heating	Min.~Max.	°CDB	9 (6)~60 (6)			
Refrigerant	Type/GWP				R-32/675,0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3,80			
	Per circuit			TCO_2Eq	2,6			
Unit	Running current	Max		A	14,0			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

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

EWYA-DV3P-H-

- Inverter controlled swing compressor with refrigerant R-32
- R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- Easy installation and maintenance
- Separate MMI-2 controller for indoor installation
- Water piping heater tape (OP10) as standard for a better insulation of the hydraulic(5)

EWYA

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

EWYA-DV3P-H-

Heating & Cooling				EWYA-DV3P-H	004	006	008	009	011	014	016
Space cooling	A Condition 35°C	Pdc		kW	4,52	5,09	5,44	9,35	11,6	12,8	14,0
	ηs,c			%	213	215		222	229	226	221
SEER					-			5,62 (6)	5,79 (6)	5,71 (6)	5,59 (6)
Space heating	Average climate water outlet 35°C	General	SCOP		4,54	4,52	4,61	4,82	4,73	4,70	4,69
			Seasonal space heating eff. class		A+++			A+++			
Cooling capacity	Nom.			kW	4,86(1)/4,52(2)	5,83(1)/5,09(2)	6,18(1)/5,44(2)	9,35 (1) / 9,10 (2)	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)
Heating capacity	Nom.			kW	4,30(1)/4,60(2)	6,00(1)/5,90(2)	7,50(1)/7,80(2)	9,37 (3) / 9,00 (4)	10,6 (3) / 9,82 (4)	12,0 (3) / 12,5 (4)	16,0 (3) / 16,0 (4)
Power input	Cooling	Nom.		kW	0,820(1)/1,36(2)	1,08(1)/1,55(2)	1,19(1)/1,73(2)	2,79 (1) / 1,71 (2)	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)
	Heating	Nom.		kW	0,840(1)/1,26(2)	1,24(1)/1,69(2)	1,63(1)/2,23(2)	1,91 (3) / 2,43 (4)	2,18 (3) / 2,68 (4)	2,46 (3) / 3,42 (4)	3,53 (3) / 4,56 (4)
Capacity control	Method				Variable (inverter)			Variable (inverter)			
EER					5,91(1)/3,32(2)	5,40(1)/3,28(2)	5,19(1)/3,14(2)	3,35 (1) / 5,34 (2)	3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)
COP					5,10(1)/3,65(2)	4,85(1)/3,50(2)	4,60(1)/3,50(2)	4,91 (3) / 3,71 (4)	4,83 (3) / 3,66 (4)	4,87 (3) / 3,64 (4)	4,53 (3) / 3,51 (4)
Dimensions	Unit	Height		mm	770			870			
		Width		mm	1.250			1.380			
		Depth		mm	362			460			
Weight	Unit			kg	88,0			147			
Water heat exchanger	Type				Plate heat exchanger			Plate heat exchanger			
	Water volume			l	1			2			
Air heat exchanger	Type				-			High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing compressor			Hermetically sealed swing inverter compressor			
	Quantity				1			1			
Fan	Type				Propeller fan			Propeller fan			
	Quantity				1			1			
	Air flow rate	Cooling	Nom.	m³/min	-			63	70	85	
		Heating	Nom.	m³/min	-			48,0	55,8	70,4	85,0
Sound power level	Cooling	Nom.		dBA	61,0(1)	62,0(1)		65,5	67,0	69,0	
Sound pressure level	Cooling	Nom.		dBA	48,0(1)	49,0(1)	50,0(1)	44,0	47,7	50,8	51,0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10(3)~43			10~43			
		Heating	Min.~Max.	°CDB	-25~25			-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			5~22			
		Heating	Min.~Max.	°CDB	9 ~65			9 ~60			
Refrigerant	Type/GWP				R-32/675,0			R-32/675,0			
	Control				-			Electronic expansion valve			
	Circuits	Quantity			-			1			
Refrigerant charge	Per circuit			kg	-			3,80			
	Per circuit			TCO_2Eq	-			2,6			
Unit	Running current	Max		A	-			30,8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50 /230 +/-10%			1~/50/230			

(1) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3) Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4) Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (5) EWYA-DV3P-H- has water piping heater tape (OP10) as standard | (6) According to EN14825 | For more details, see operation range drawing | Depends on operation mode, refer to installation manual.

EWYA-DW1P-H-

- Inverter controlled swing compressor with refrigerant R-32
- R-32 refrigerant: reduced environmental impact and 30% less refrigerant charge needed
- Compact design with built-in hydraulic kit: no buffer tank required, standard inverter driven pump, expansion vessel, main flow sensor included
- Easy installation and maintenance
- Separate MMI-2 controller for indoor installation
- Water piping heater tape (OP10) as standard for a better insulation of the hydraulic(5)

EWYA

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

EWYA-DW1P-H-

Heating & Cooling				EWYA-DW1P-H	009	011	014	016
Space cooling	A Condition 35°C	Pdc		kW	9,35	11,6	12,8	14,0
		ηs,c		%	222	229	226	221
SEER					5,62 (6)	5,79 (6)	5,71 (6)	5,59 (6)
Space heating	Average climate water outlet 35°C	General	SCOP		4,82	4,73	4,70	4,69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9,35 (1) / 9,10 (2)	11,6 (1) / 11,5 (2)	12,8 (1) / 12,7 (2)	14,0 (1) / 15,3 (2)
Heating capacity	Nom.			kW	9,37 (3) / 9,00 (4)	10,6 (3) / 9,82 (4)	12,0 (3) / 12,5 (4)	16,0 (3) / 16,0 (4)
Power input	Cooling	Nom.		kW	2,79 (1) / 1,71 (2)	3,56 (1) / 2,17 (2)	4,06 (1) / 2,51 (2)	4,58 (1) / 3,24 (2)
	Heating	Nom.		kW	1,91 (3) / 2,43 (4)	2,18 (3) / 2,68 (4)	2,46 (3) / 3,42 (4)	3,53 (3) / 4,56 (4)
Capacity control	Method				Variable (inverter)			
EER					3,35 (1) / 5,34 (2)	3,26 (1) / 5,31 (2)	3,16 (1) / 5,04 (2)	3,06 (1) / 4,74 (2)
COP					4,91 (3) / 3,71 (4)	4,83 (3) / 3,66 (4)	4,87 (3) / 3,64 (4)	4,53 (3) / 3,51 (4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1.380			
		Depth		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48,0	55,8	70,4	85,0
Sound power level	Cooling	Nom.		dBA	65,5	67,0	69,0	
Sound pressure level	Cooling	Nom.		dBA	44,0	47,7	50,8	51,0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			
		Heating	Min.~Max.	°CDB	9 ~60			
Refrigerant	Type/GWP				R-32/675,0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3,80			
	Per circuit			TCO_2Eq	2,6			
Unit	Running current	Max		A	14,0			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

(1) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (2) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (3) Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (4) Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) | (5) EWYA-DW1P-H- has water piping heater tape (OP10) as standard | (6) According to EN14825 | For more details, see operation range drawing | Depends on operation mode, refer to installation manual.

Daikin technology at its best

Full Inverter Technology

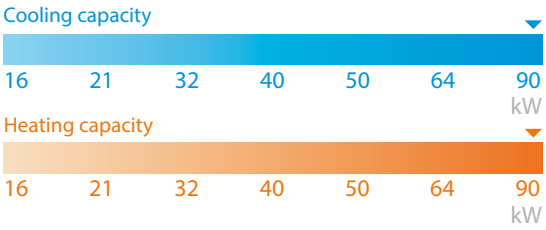
- Daikin design DC-Inverter scroll compressors
- Daikin design DC-Inverter fans
- Inverter pump kit both Low and High Lift

Low environmental impact

R-32 refrigerant

68% Lower GWP compared to R-410A

Extended range



Boost mode
around 100 kW!

Wide operating envelope

Hot water production
up to 60°C
for space heating or domestic hot water

Chilled water production
down to -15°C
for brine application

down to -20°C
ambient temperature both in cooling and heating mode for the most critical applications

up to 45°C
ambient temperature operation

Achieving best performances

Top Full Load and Part Load efficiencies for Comfort and Process applications both in Cooling and Heating modes

- EER up to 3,22
- SEER up to 5,76
- SEPR up to 8,48
- COP up to 3,46
- SCOP AW35 up to 4,19
- SCOP AW55 up to 3,02

Multiple versions for different applications

- Cooling Only or Heat pump versions
- Naked, with low lift or high lift inverter pump kit as an option

Quiet operation

Down to
76 dB(A)
sound power, with the possibility of further reduction with quiet mode operation enabled

Enhanced Connectivity

- User friendly control interface
- Control by App (Next Step)
- Daikin On Site
- Modbus and Bacnet Communication*
- Applications: radiators, fan coils, radiant floor, domestic hot water*

*with an additional accessory

Fast delivery to site

Large stock availability allowing immediate satisfaction of customer's needs

EWYT-CZN

- 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

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

EWYT-CZN

Heating & Cooling				EWYT-CZN	016	021	025	032	040	040	050	064	090
Space cooling	A Condition 35°C	Pdc		kW	15,9	20,9	25,6	32,4	39,6	41,4	50,8	64,0	88,3
	ηs,c			%	197		200	205	201	213	210	205	198
SEER					5,00		5,06	5,21	5,09	5,41	5,33	5,21	5,03
Space heating	Average climate water outlet 35°C	General	SCOP		3,89	4,00	4,07	4,06	4,07	4,02	4,00	3,98	4,00
			Seasonal space heating eff. class		A++								
Cooling capacity	Nom.			kW	15,9	20,9	25,6	32,4	39,6	41,4	50,8	64,0	88,3
Heating capacity	Nom.			kW	15,9	20,2	24,8	32,4	39,4	40,3	49,8	61,9	85,8
Power input	Cooling	Nom.		kW	5,50	6,60	8,50	10,3	13,4	13,2	17,0	21,8	31,0
	Heating	Nom.		kW	4,70	5,80	7,50	9,40	11,8	11,9	15,4	19,1	27,2
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2,90	3,16	3,00	3,13	2,95	3,12	2,98	2,93	2,84
COP					3,41	3,46	3,33	3,45	3,33	3,38	3,24	3,23	3,16
IPLV					5,83	6,29	6,05	6,25	5,87	6,37	5,92	5,88	5,61
Dimensions	Unit	Height		mm	1.878								
		Width		mm	1.152			1.752		2.306		2.906	3.506
		Depth		mm	802					814			
Weight	Unit			kg	227	252		350	349	494		588	693
	Operation weight			kg	228	254		353	352	500		594	701
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0,8	1,0	1,2	1,6	1,9	2,0	2,4	3,1	4,2
		Heating	Nom.	l/s	0,8	1,0	1,2	1,5	1,9		2,4	3,0	4,1
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa	19,6	10,6	15,4	19,1	27,1	9,4	13,8	20,4	19,1
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76,0		78,0	79,0	80,0		81,0	83,0	85,0
Sound pressure level	Cooling	Nom.		dBA	59,7		61,7	62,2	63,2	62,8	63,8	65,4	67,0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3,00	5,50		7,00	8,00	12,0		13,0	16,0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

EWYT-CZP

- 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
- Low lift inverter pump kit option

EWYT-CZ_R

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

EWYT-CZP

Heating & Cooling				EWYT-CZP	016	021	025	032	040	040	050	064	090
Space cooling	A Condition 35°C	Pdc		kW	16,0	21,0	25,7	32,6	39,8	41,6	51,0	64,3	88,6
		ηs,c		%	209	213		225	211	228	216	211	204
SEER					5,30	5,41		5,70	5,36	5,76	5,48	5,34	5,18
Space heating	Average climate water outlet 35°C	General	SCOP		4,03	4,19		4,18		4,19	4,12	4,01	4,04
			Seasonal space heating eff. class		A++								
Cooling capacity	Nom.			kW	16,1	21,1	25,9	32,7	39,9	41,7	51,1	64,4	88,8
Heating capacity	Nom.			kW	15,6	19,9	24,6	32,1	39,0	40,0	49,5	61,4	85,3
Power input	Cooling	Nom.		kW	5,45	6,56	8,48	10,3	13,3	13,2	16,9	21,9	31,1
	Heating	Nom.		kW	4,63	5,81	7,42	9,32	11,7	11,8	15,3	19,2	27,3
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2,96	3,22	3,05	3,18	3,00	3,17	3,03	2,95	2,85
COP					3,37	3,43	3,31	3,44	3,33	3,38	3,23	3,20	3,13
IPLV					5,83	6,29	6,05	6,25	5,87	6,37	5,92	5,88	5,61
Dimensions	Unit	Height		mm	1.878								
		Width		mm	1.152			1.752		2.306		2.906	3.506
		Depth		mm	802					814			
Weight	Unit			kg	261	286		393	392	546		644	749
	Operation weight			kg	262	288		396	395	551		650	757
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0,8	1,0	1,2	1,6	1,9	2,0	2,4	3,1	4,2
		Heating	Nom.	l/s	0,8	1,0	1,2	1,5	1,9		2,4	3,0	4,1
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa	19,6	10,6	15,4	19,1	27,1	9,4	13,8	20,4	19,1
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800	900		700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76,0	78,0		79,0	80,0		81,0	83,0	85,0
Sound pressure level	Cooling	Nom.		dBA	59,7	61,7		62,2	63,2	62,8	63,8	65,4	67,0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3,00	5,50		7,00	8,00	12,0		13,0	16,0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

EWYT-CZH

- 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
- High lift inverter pump kit option

EWYT-CZ_R

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

EWYT-CZH

Heating & Cooling				EWYT-CZH	016	021	025	032	040	040	050	064	090
Space cooling	A Condition 35°C Pdc			kW	16,1	21,1	25,8	32,7	39,9	41,7	51,1	64,3	88,7
	ηs,c			%	205	210	211	224	210	227	213	208	202
SEER					5,20	5,32	5,34	5,67	5,34	5,76	5,40	5,27	5,12
Space heating	Average climate water outlet 35°C	General	SCOP		3,88	4,06	4,08	4,11	4,13	4,14	4,09	3,94	4,00
			Seasonal space heating eff. class		A++								
Cooling capacity	Nom.			kW	16,2	21,2	25,9	32,8	40,1	41,8	51,3	64,5	88,9
Heating capacity	Nom.			kW	15,5	19,8	24,5	32,0	38,9	39,9	49,4	61,3	85,2
Power input	Cooling	Nom.		kW	5,60	6,70	8,70	10,4	13,5	13,3	17,0	22,0	31,2
	Heating	Nom.		kW	4,80	6,00	7,60	9,50	11,9	12,0	15,4	19,3	27,4
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2,89	3,15	2,98	3,14	2,97	3,15	3,02	2,93	2,85
COP					3,24	3,31	3,22	3,37	3,28	3,33	3,20	3,17	3,12
IPLV					5,83	6,29	6,05	6,25	5,87	6,37	5,92	5,88	5,61
Dimensions	Unit	Height		mm	1.878								
		Width		mm	1.152			1.752		2.306		2.906	3.506
		Depth		mm	802					814			
Weight	Unit			kg	261	286		393	392	546		644	749
	Operation weight			kg	262	288		396	395	551		650	757
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0,8	1,0	1,2	1,6	1,9	2,0	2,4	3,1	4,2
		Heating	Nom.	l/s	0,8	1,0	1,2	1,5	1,9		2,4	3,0	4,1
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa	19,6	10,6	15,4	19,1	27,1	9,4	13,8	20,4	19,1
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800	900	700	900	700	900		800	900
Sound power level	Cooling	Nom.		dBA	76,0	78,0	79,0	80,0		81,0		83,0	85,0
Sound pressure level	Cooling	Nom.		dBA	59,7	61,7	62,2	63,2		62,8	63,8	65,4	67,0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3,00	5,50		7,00	8,00	12,0		13,0	16,0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

EWYT-CZI

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

EWYT-CZI

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

EWYT-CZI

Indoor Unit			EWYT-CZI	021	032	040	064
Casing	Colour			Ivory white			
	Material			Galvanized and painted steel sheet			
Dimensions	Unit	HeightxWidthxDepth	mm	700x1.120x830			
Weight	Unit		kg	133	144		172
Operation range	Heating	Ambient Min.~Max.	°C	-20 ~35			
		Water side Min.~Max.	°C	20 ~60			
	Cooling	Ambient Min.~Max.	°CDB	-20 ~45			
		Water side Min.~Max.	°C	4 ~20			
Sound power level	Nom.		dBA	63,0	64,5		66,0

EWYT-CZO

EWYT-CZO

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

EWYT-CZO

Outdoor Unit			EWYT-CZO	021	032	040	064
Dimensions	Unit	HeightxWidthxDepth	mm	1.878x1.152x802	1.878x1.752x802		1.878x2.906x814
Weight	Unit		kg	265	357		620
Compressor	Quantity			1			2
	Type			Scroll compressor			
Refrigerant	Type			R-32			
	GWP			675,0			
	Charge		kg	7,3	9,5	9,8	16,6
	Charge		TCO_2Eq	4.928,0	6.422,0	6.635,0	11.255,0
Sound power level	Cooling	Nom.	dBA	76,0	79,0	80,0	83,0
Sound pressure level	Cooling	Nom.	dBA	59,6	62,2	63,2	65,4
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/400			

R-454C

Low carbon heating & cooling solution with air to water inverter heat pump

Ideal for high temperature application from 15 to 73 kW

Scan the QR-Code to learn more:

Daikin technology at its best

Daikin Core Technology

- Daikin Inverter Scroll compressors with Vapor Injection
- Daikin Inverter Driven Fans
- Daikin Tube & Fins (Cu/Al) Heat Exchanger

Low Environmental Impact and Easy to Use

R-454C

refrigerant

GWP = 145,5 compliant with upcoming F-GAS regulation.
A2L Low Flammability refrigerant:
NO installation restriction.

Extended range

Cooling capacity

15 21 32 40 50 64 60 kW

Heating capacity

18 21 32 40 50 64 74 kW

Boost function!
To reach up to 83 kW.

Widest Heating Operating Range

	Min	Max
Heating water	20°C	70°C
Ambient Temperature (OAT)	-25°C	40°C

Achieving best performances

Top Full Load and Part Load efficiencies for Comfort applications both in Cooling and Heating modes

Multiple Applications for Decarbonization

Comfort Heating
Residential, Light Commercial
Replacement and New Building

Possible terminals:
- Existing radiators (High temperature)
- Floor heating
- Fan coils

Domestic Hot Water
Residential (Small Villas and Multi Family House), Light Commercial (Gym and Hotel)
Replacement and new Building

Comfort Cooling
Residential, Light Commercial
Replacement and New Building

Possible terminals:
- Fan coils
- Floor Cooling

Optimized DeFrost Management

Integrated Defrost logic optimized for multiple units. Plant up to 4 units are optimized in terms of overall defrost impact:

- Less plant water content
- Higher customer comfort due to minimized temperature drop
- Heating load stability over time

Enhanced Connectivity

- User friendly control interface
- Control by App
- Daikin On Site
- Modbus and Bacnet Communication*

*with an additional accessory

Fast delivery to site

Large stock availability allowing immediate satisfaction of customer's needs

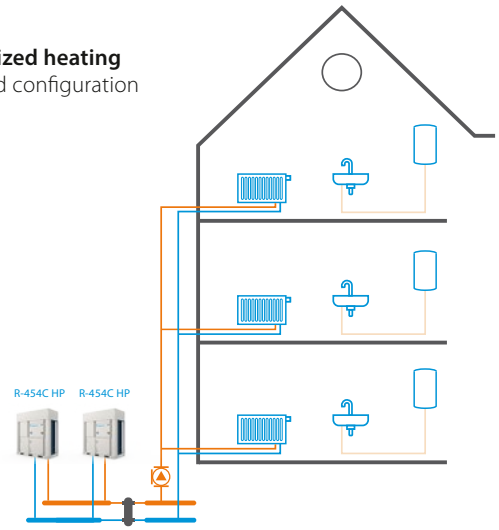
Product applications

High Temperature Heating for boiler replacement and Domestic Hot Water (DHW)

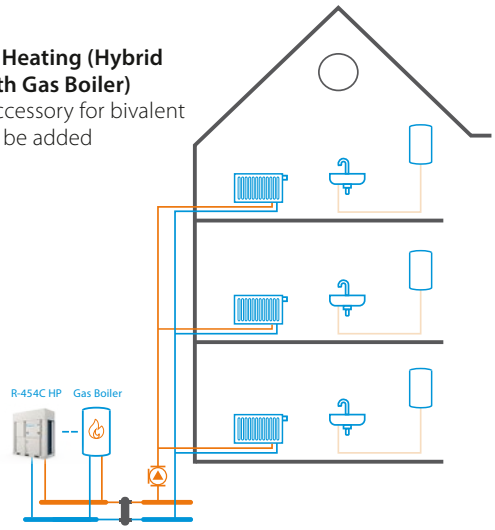
Space Heating + DHW configurations

- Centralized heating, eventually in combination with gas boilers. DHW supply managed via integration with centralized heating, or independent DHW supply. Groups of units can be managed in master / slave up to 4 per single master
- Applications: residential, light commercial, hotels, gym
- Installation: replacement and new building
- Possible terminals are:
  - Existing radiators (70 °C)
  - Heating floor (30-35 °C)
  - Fan coils (40-45 °C)

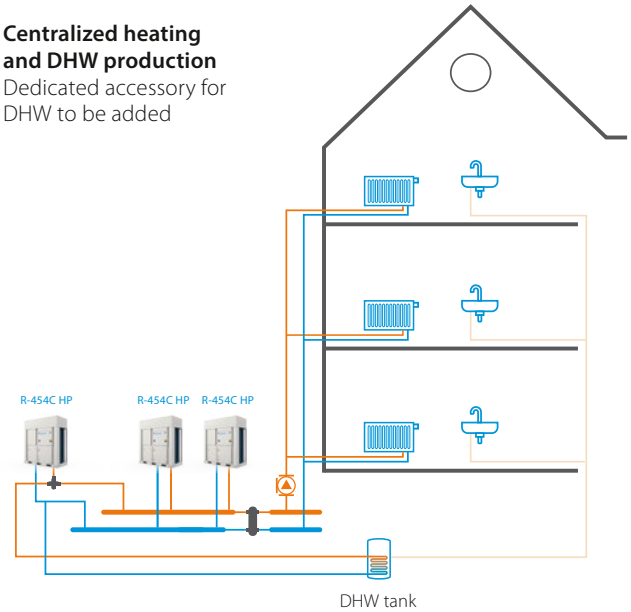
Centralized heating
Standard configuration



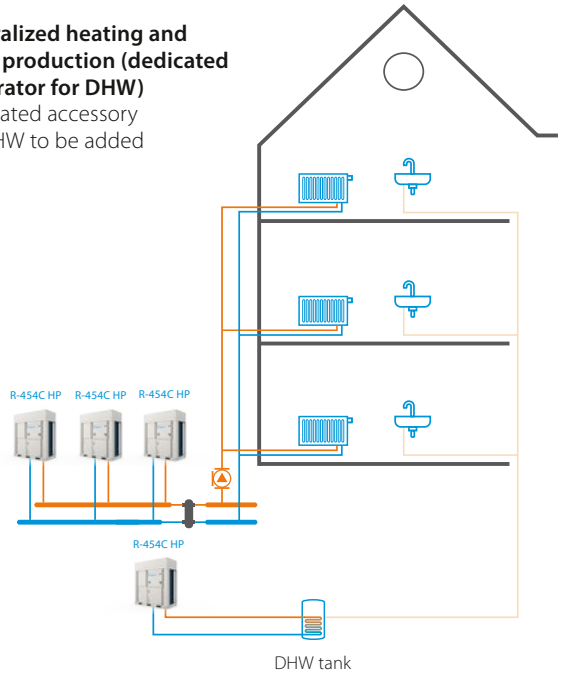
Centralized Heating (Hybrid Solution with Gas Boiler)
Dedicated accessory for bivalent operation to be added



Centralized heating and DHW production
Dedicated accessory for DHW to be added



Centralized heating and DHW production (dedicated generator for DHW)
Dedicated accessory for DHW to be added



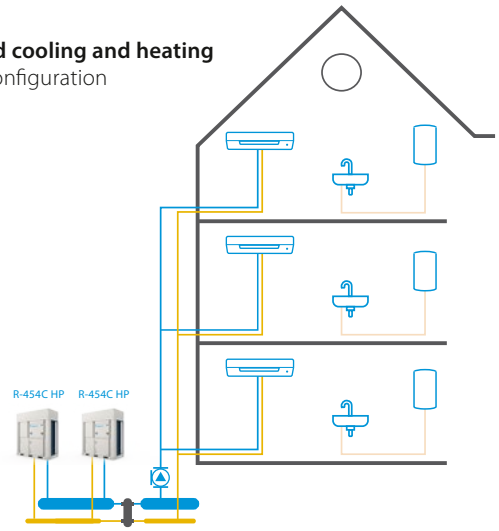
Product applications

Seasonal Comfort Heating and Cooling + Domestic Hot Water (DHW)

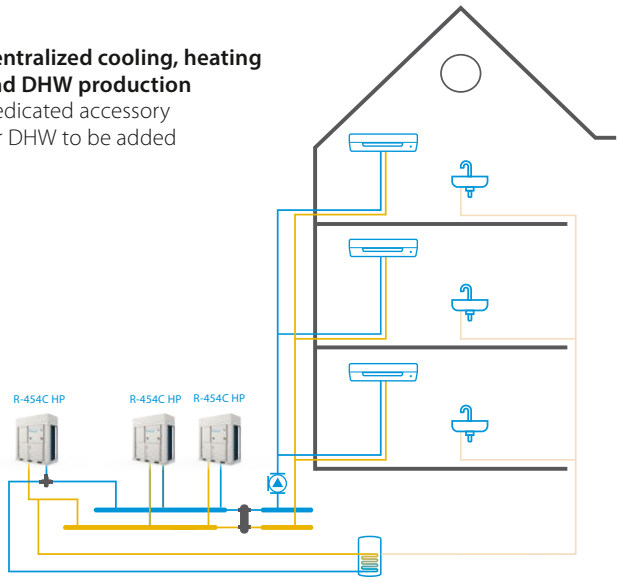
Comfort cooling & heating

- Centralized comfort heating and cooling. DHW managed via three way valves (priority on DHW demand) or independent DHW supply. Groups of units can be managed in master / slave up to 4 per single master
- Applications: residential, light commercial, hotels, gym
- Installation: replacement and new building
- Possible terminals are:
  - Cooling (23-18°C) and Heating floor (30-35°C)
  - Heating and Cooling Fan Coils

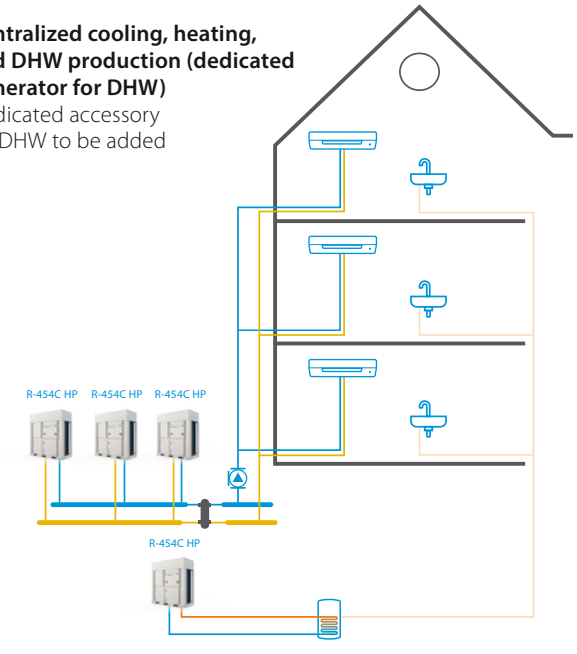
Centralized cooling and heating
Standard configuration



Centralized cooling, heating and DHW production
Dedicated accessory
for DHW to be added



Centralized cooling, heating, and DHW production (dedicated generator for DHW)
Dedicated accessory
for DHW to be added



EWYE-CZN

- Daikin DC-Inverter Scroll Compressors with Vapor Injection
- High temperature application for new and replacement projects
- Application range cooling air side -20°C to +45°C
- Application range cooling water side -15°C to +20°C
- Application range heating air side -25°C to +40°C
- Application range heating water side +20°C to +70°C
- One and two independent refrigerant circuits
- Modular control up to 4 units
- Bivalent system control & DHW
- Quiet operation

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

EWYE-CZN

Inverter pump on board				**EWYE-CZN**	**019**	**022**	**025**	**030**	**035**	**050**	**060**	**070**
Cooling performance 12/7 35°C		Cooling capacity		kW	14,66	16,18	18,29	22,19	25,39	41,78	46,98	59,21
		Capacity control	Type		Inverter Controlled							
		Unit power input			5,43	6,07	6,69	7,43	8,96	15,81	17,76	22,30
		EER			2,70	2,67	2,73	2,99	2,83	2,64	2,65	2,66
		SEER			3,74	3,80	3,99	4,43	4,54	4,10	4,34	4,56
Heating performance 40/45 7°C		Heating capacity			18,47	20,51	24,21	30,02	34,68	50,24	60,47	73,73
		Unit power input	Heating	kW	5,90	6,57	7,72	9,00	10,65	16,48	20,54	24,39
		COP			3,13	3,12	3,14	3,34	3,26	3,05	2,94	3,02
Space heating	Average climate, water outlet 35°C	SCOP	Low Temperature		3,89	3,89	3,89	4,31	4,31	3,72	3,72	4,00
	Average climate, water outlet 55°C	SCOP	Medium Temperature		2,83	2,83	2,83	3,20	3,20	2,83	2,83	3,01
Water heat exchanger cooling		Water flow rate		l/s	0,7	0,77	0,84	1,06	1,21	1,99	2,16	2,77
		Water pressure drop		kPa	6,05	7,19	8,41	9,82	12,41	10,01	11,62	9,51
Water heat exchanger heating		Water flow rate		l/s	0,87	0,97	1,11	1,42	1,61	2,35	2,80	3,45
		Water pressure drop		kPa	9,03	10,89	13,77	16,40	20,53	13,57	18,76	14,38
Air heat exchanger		Type			Al Fins & Cu Tubes							
Water heat exchanger					Brazed Plate							
Refrigerant		Type			R-454C							
		GWP			145,5							
Compressor		Type			Scroll - Vapor Injection							
		Quantity		N°	1					2		
		Economizer		N°	1					2		
Fan		Type			Axial							
		Drive			VFD							
		Quantity		N°	1			2		3		4
Dimensions		Height		mm	1.878							
		Width		mm	1.152			1.752		2.906		3.506
		Length		mm	802					814		
Sound power		Lw		[dB(A)] **	77					78		
		Cooling & Heating Lw		[dB(A)]	82	83				86		
Power supply		Phase/Frequency/Voltage			3N~/50&60/400							

EWYE-CZP

- Daikin DC-Inverter Scroll Compressors with Vapor Injection
- High temperature application for new and replacement projects
- Application range cooling air side -20°C to +45°C
- Application range cooling water side -15°C to +20°C
- Application range heating air side -25°C to +40°C
- Application range heating water side +20°C to +70°C
- One and two independent refrigerant circuits
- Inverter Pump availability
- Modular control up to 4 units
- Bivalent system control & DHW
- Quiet operation

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

EWYE-CZP

Inverter pump on board				EWYE-CZP	019	022	025	030	035	050	060	070
Cooling performance 12/7 35°C		Cooling capacity		kW	14,88	16,42	18,24	22,45	25,66	42,11	46,90	59,62
		Capacity control	Type		Inverter Controlled							
		Unit power input			5,39	6,03	6,64	7,39	8,90	15,69	17,86	22,35
		EER			2,76	2,73	2,75	3,04	2,88	2,68	2,63	2,67
		SEER			3,88	3,94	4,07	4,60	4,66	4,22	4,42	4,66
Heating performance 40/45 7°C		Heating capacity			18,21	20,25	23,93	29,72	34,35	49,89	59,58	73,27
		Unit power input	Heating	kW	5,86	6,51	7,66	8,92	10,56	16,35	20,34	24,42
		COP			3,11	3,11	3,13	3,33	3,25	3,05	2,93	3,00
Space heating	Average climate, water outlet 35°C	SCOP	Low Temperature		4,00	4,00	4,00	4,38	4,38	3,87	3,87	4,06
	Average climate, water outlet 55°C	SCOP	Medium Temperature		2,83	2,83	2,83	3,20	3,20	2,83	2,83	3,02
Water heat exchanger cooling		Water flow rate		l/s	0,70	0,77	0,84	1,06	1,21	1,99	2,16	2,77
		Water pressure drop		kPa	6,05	7,19	8,41	9,82	12,41	10,01	11,62	9,51
Water heat exchanger heating		Water flow rate		l/s	0,87	0,97	1,11	1,42	1,61	2,35	2,77	3,45
		Water pressure drop		kPa	9,03	10,89	13,77	16,40	20,53	13,57	18,38	14,38
Air heat exchanger		Type			Al Fins & Cu Tubes							
Water heat exchanger					Brazed Plate							
Refrigerant		Type			R-454C							
		GWP			145,5							
Compressor		Type			Scroll - Vapor Injection							
		Quantity		N°	1					2		
		Economizer		N°	1					2		
Fan		Type			Axial							
		Drive			VFD							
		Quantity		N°	1			2		3		4
Dimensions		Height		mm	1.878							
		Width		mm	1.152			1.752		2.906		3.506
		Length		mm	802					814		
Sound power		Lw		[dB(A)] **	77					78		
		Cooling & Heating Lw			82	83				86		
Power supply		Phase/Frequency/Voltage			3N~/50&60/400							

EWYT-B Multi scroll air heat pump with R-32 refrigerant

Leading the way in reducing environmental impact

Features:

- Environmentally friendly R-32 refrigerant with a low Global Warming Potential (GWP) and low flammability classification can be safely used in many applications
- Comfort cooling and heating applications
- Capacity range from 80kW to 670 kW
- Two efficiency version with COP up to 3,5 (at nominal conditions): gold (high efficiency) and silver (standard efficiency)
- Three sound configurations: standard, low and reduced - each one designed to meet stringent acoustic requirements
- Two different layouts: parallel coil (standardly equipped with continuous fan speed modulation) and double V coil
- Outstanding reliability: one or two independent refrigerant circuits with two or three compressors
- Extended operating range, hot water up to 60°C
- Fully compatible with the Daikin on Site cloud-based platform including remote monitoring, system optimization and preventive maintenance
- Master/Slave control as standard allowing the management of up to 4 units without any external control devices
- Extensive option list (more than 70) in order to provide full customisation on project-specific requirements

Connectivity

Daikin on Site
Fully compatible with Daikin on Site cloud based platform that allows a number of advanced functionalities including:
- Remote monitoring
- System optimization
- Preventive maintenance
- Remote access with one click via LAN or 4G LTE router

Connection to Intelligent Chiller Manager
Daikin can offer the Intelligent Chiller Manager option, allowing energy optimisation of the system and, when necessary, full customization of the control solutions to the specific installation's needs even in case of more complex installation.
- High number of units
- Cooling and Heating mode
- Peripheral controls

Intelligent Chiller Manager

Layouts & Range overview

Parallel coils

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

Double-V coils

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

Extensive option lists Including new options:

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

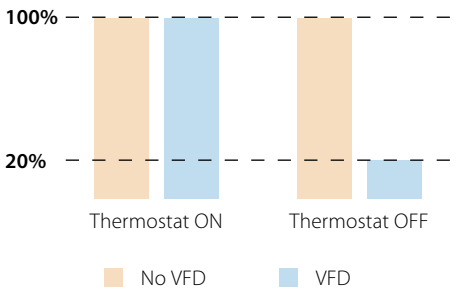
Buffer tank
Unit mounted buffer tank available all across the range for plug and play solution.

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

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

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

Pumping energy



EWYT-B-SS/SL

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

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

EWYT-B-SS

EWYT-B-SL

Heating & Cooling				EWYT-B-SS/SL	085	105	135	175	205	215	235	255	300	340	390	430	490	540	590	630	300-VFDFAN	340-VFDFAN	390-VFDFAN	430-VFDFAN	490-VFDFAN	540-VFDFAN	590-VFDFAN	630-VFDFAN
SEER					3,9	3,98	3,9	4,01	3,96	3,9	3,96	3,9	3,99	4,1	3,99	4	4,23		4,17	4,25	4,16	4,28	4,16	4,12	4,37	4,35	4,29	4,38
Space heating	Average climate water outlet 35°C	General	SCOP		3,34	3,41	3,36	3,40	3,37	3,40	3,34	3,29	3,27	3,28	3,35	3,33	3,37	3,35	3,38	3,37	3,38	3,39	3,46	3,44	3,47	3,46	3,50	3,47
			Seasonal space heating eff. class		A+														-									
Cooling capacity	Nom.			kW	75	98	120	153	189	193	212	230	270	317	350	375	434	482	531	570	270	317	350	375	434	482	531	570
Heating capacity	Nom.			kW	82,24	106,24	132,23	169,8	209,28	213,33	236,16	256,09	300,01	342,79	389,93	432,79	486,98	541,54	591,29	627,45	300,01	342,79	389,93	432,79	486,98	541,54	591,29	627,45
Power input	Cooling	Nom.		kW	28	36,6	44,6	57,8	71,3	72,3	78,9	86,5	102	117	132	147	171	192	206	219	102	117	133	147	171	192	207	219
	Heating	Nom.		kW	28,16	36,5	45,26	58,94	72,36	73,82	82,07	86,96	104,12	116,23	135,61	150,48	166,78	185,15	201,91	214,4	104,41	116,59	136,09	150,96	167,26	185,62	202,51	215
Capacity control	Method				Step																							
	Minimum capacity			%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17	22	19	17	25	22	19	18	17
EER					2,69	2,68	2,7	2,65	2,66	2,67	2,69	2,66	2,65	2,69	2,63	2,55	2,54	2,51	2,57	2,6	2,64	2,69	2,62	2,54	2,53	2,5	2,56	2,59
COP					2,914	2,903	2,914	2,875	2,886	2,884	2,871	2,938	2,882	2,949	2,875	2,876	2,92	2,925	2,928	2,927	2,873	2,94	2,865	2,867	2,911	2,917	2,92	2,918
IPLV					4,43	4,4	4,32	4,28	4,33	4,36	4,31	4,35	4,2	4,31	4,2	4,31	4,46	4,52	4,44	4,53	4,35	4,67	4,45	4,54	4,68	4,71	4,73	4,8
Dimensions	Unit	Height		mm	1.800								2.516															
		Width		mm	1.211								2.224															
		Length		mm	2.227	2.776	3.426		4.424	4.028	5.025		3.418		4.316				5.211		3.225		4.125				5.025	
Weight (SS)	Unit			kg	764	945	947	1.206	1.572	1.478	1.533	1.569	2.516	2.864	3.278	3.324	3.483	3.685	4.089	4.264	2.100	2.250	3.180	3.190	3.180	3.370	4.267	
	Operation weight			kg	772	953	954	1.214	1.583	1.495	1.544	1.583	2.527	2.883	3.297	3.343	3.510	3.712	4.124	4.305	2.114	2.270	3.200	3.209,71	3.207,27	3.397,27	4.302,37	4.308,08
Weight (SL)	Unit			kg	764	945	947	1.206	1.572	1.478	1.533	1.569	2.627	2.978	3.390	3.427	3.614	3.815	4.218	4.395	2.260	2.410	3.340	3.190	3.180	3.370	4.267	
	Operation weight			kg	772	953	954	1.214	1.583	1.495	1.544	1.583	2.640	2.997	3.409	3.446	3.641	3.842	4.253	4.436	2.274	2.430	3.360	3.209,71	3.207,27	3.397,27	4.302,37	4.308,08
Water heat exchanger	Type				Plate heat exchanger																							
	Water volume			l	7				11			14	20			27		35	41	14	20			27			35	41	
	Water flow rate	Cooling	Nom.	l/s	3,6	4,7	5,8	7,3	9	9,2	10,1	11	12,9	15,1	16,7	17,9	20,7	23	25,3	27,2	12,9	15,1	16,7	17,9	20,7	23	25,3	27,2
	Water pressure drop	Cooling	Nom.	kPa	14,9	24,1	35,1	54	45	46,4	55,1	45,1	60,2	49,2	58,8	66,7	58,7	71,2	58,3	66,1	60,2	49,2	58,8	66,7	58,7	71,2	58,3	66,1
Air heat exchanger	Type				High efficiency fin and tube type																							
Compressor	Type				Scroll compressor																							
	Quantity				2				4	2	4						5	6	4						5	6		
Fan	Type				Direct propeller																							
	Quantity				4	6	8		10		12		5	6	8				10		5	6	8				10	
	Air flow rate	Nom.		l/s	6.888	10.809	14.412	13.777	17.220	17.221	20.664		28.003	33.604	46.854		45.830	44.806	57.288	56.008	28.003	33.604	46.854		45.830	44.806	57.288	56.008
	Speed			rpm	1.360								900															
Sound power level (SS)	Cooling	Nom.		dBA	84	87	89	91	90	92	91	92	94	95	96	96,3	96,6	96,8	97,5	97,8	94	94,9	95,9	96,3	96,6	96,8	97,5	97,8
Sound power level (SL)	Cooling	Nom.		dBA	83	85	87	88		89			91	92	93	92,9		93	93,9		90,8	91,6	92,8	92,9		93	93,9	
Sound pressure level (SS)	Cooling	Nom.		dBA	66	69	71	73	71	74	72	73	74	75	76	76,3	76,6	76,8	77,1	77,4	74,5	75,4	75,9	76,3	76,6	76,8	77,1	77,4
Sound pressure level (SL)	Cooling	Nom.		dBA	65	67	69	70	69		70		71	72	73	72,9		73	73,5		71,3	72,1	72,8	72,9		73	73,5	
Refrigerant	Type				R-32																							
	Charge			kg	12.7	15,8	18,5	26	34	34,8	37,2	43	41,7	48	47,1	48,6	60,3	70	78,5	87	41,7	48	47,1	48,6	60,3	70	78,5	87
	Circuits	Quantity			1			2	1				2															
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9														114,3		88,9						114,3	
Unit	Starting current	Max		A	211,0	327,0	343,0	464,0	408,0	495,0	425,0	439,0	564,0	598,0	636,0	666,0	712,0	757,0	795,0	825,0	564	598	636	666	712	757	795	825
	Running current	Cooling	Nom.	A	54,0	66,0	76,0	99,0	125,0	123,0	133,0	146,0	174,0	198,0	227,0	253,0	291,0	328,0	353,0	372,0	175	198	228	253	292	329	354	373
Unit	Running current	Max		A	68,0	85,0	101,0	131,0	166,0	163,0	183,0	197,0	232,0	266,0	304,0	334,0	379,0	425,0	463,0	493,0	232	266	304	334	379	425	463	493
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																							

EWYT-B-SR

EWYT-B-SS/SL/SR MicroTech 4

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

EWYT-B-SR

Heating & Cooling				EWYT-B-SR	085	105	135	175	205	215	235	255	300	340	390	430	490	540	590	630
SEER					3,82	3,93	3,87	3,96	3,92	3,82	3,83	3,84	4,18	4,37	4,21	4,19	4,49		4,46	4,52
Space heating	Average climate water outlet 35°C	General	SCOP		3,35	3,40	3,37	3,42	3,44	3,43	3,32	3,33	3,42	3,49		3,57	3,65	3,60	3,67	3,66
			Seasonal space heating eff. class		A+		-													
Cooling capacity	Nom.			kW	74	96	119	150	186	189	209	226	265	311	344	368	424	470	519	557
Heating capacity	Nom.			kW	81,00	105,24	131,02	167,00	207,00	210,00	233,00	251,00	295,81	335,24	384,62	426,79	477,49	528,73	581,03	615,34
Power input	Cooling	Nom.		kW	28,7	37,4	45,5	59,5	73,2	74,3	80,7	88,8	102	117	131	147	172	195	207	221
	Heating	Nom.		kW	26,4	36,24	44,84	54,67	67,74	68,31	77,26	80,08	101,89	113,31	131,71	144,34	160,28	178,33	194,13	206,57
Capacity control	Method				Step															
	Minimum capacity			%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17
EER					2,56	2,58	2,61	2,53	2,54	2,55	2,59	2,55	2,59	2,64	2,61	2,5	2,46	2,41	2,5	2,51
COP					2,891	2,904	2,922	2,859	2,883	2,866	2,863	2,912	2,903	2,959	2,92	2,957	2,979	2,965	2,993	2,979
IPLV					4,36	4,24	4,3	4,38	4,29		4,28	4,26	4,29	4,69	4,58	4,61	4,78	4,89	4,82	4,91
Dimensions	Unit	Height		mm	1.801								2.516							
		Width		mm	1.211								2.224							
		Length		mm	2.227	2.776	3.426		4.424	4.028	5.025		3.418		4.316				5.211	
Weight	Unit			kg	764	945	947	1.206	1.572	1.478	1.533	1.569	2.627	2.978	3.390	3.427	3.614	3.815	4.218	4.395
	Operation weight			kg	772	953	954	1.214	1.583	1.495	1.544	1.583	2.640	2.997	3.409	3.446	3.641	3.542	4.253	4.436
Water heat exchanger	Type				Plate heat exchanger															
	Water volume			l	7				11			14			20		27		35	41
	Water flow rate	Cooling	Nom.	l/s	3,5	4,6	5,7	7,2	8,9	9	10	10,8	12,7	14,8	16,4	17,5	20,2	22,4	24,8	26,6
	Water pressure drop	Cooling	Nom.	kPa	14,4	23,4	34,2	52,2	43,5	44,8	53,5	43,6	58,1	47,6	57	64,4	56,3	67,8	56	63,4
Air heat exchanger	Type				High efficiency fin and tube type															
Compressor	Type				Scroll compressor															
	Quantity				2				4	2	4						5	6		
Fan	Type				Direct propeller															
	Quantity				4	6	8		10		12		5	6	8				10	
	Air flow rate	Nom.		l/s	6.026	9.483	12.644	12.052	15.064	15.065	18.078		23.608	28.330	39.446		38.610	37.774	48.262	47.216
	Speed			rpm	1.200								780							
Sound power level	Cooling	Nom.		dBA	78	82	84	85	84	87	86		87	88	89	89,3	89,4	89,5	90,4	90,5
Sound pressure level	Cooling	Nom.		dBA	60	64	65	67	66	68	67		68		69	69,3	69,4	69,5	70	70,1
Refrigerant	Type				R-32															
	Charge			kg	13,3	14,7	19,3	24,5	29	34	36,2	43	40,3	47,2	50,4	79	89	68,8	77,6	82
	Circuits	Quantity			1				2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9														114,3	
Unit	Starting current	Max		A	211,0	327,0	343,0	464,0	408,0	495,0	425,0	439,0	564,0	598,0	636,0	666,0	712,0	757,0	795,0	825,0
	Running current	Cooling	Nom.	A	55,0	67,0	77,0	101,0	128,0	126,0	136,0	149,0	173,0	196,0	224,0	251,0	292,0	330,0	353,0	373,0
Unit	Running current	Max		A	68,0	85,0	101,0	131,0	166,0	163,0	183,0	197,0	232,0	266,0	304,0	334,0	379,0	425,0	463,0	493,0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400															

EWYT-B-XS/ XL

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- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
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More details and final information can be found by scanning or clicking the QR codes.

EWYT-B-XS

EWYT-B-XL

Heating & Cooling				**EWYT-B-XS/XL**	085	115	135	175	215	215	235	265	310	350	400	440	500	560	600	630	650	VFDFAN 310	VFDFAN 350	VFDFAN 400	VFDFAN 440	VFDFAN 500	VFDFAN 560	VFDFAN 600	VFDFAN 630	VFDFAN 650
SEER					4,24	4,38	4,24	4,45	4,41	4,21	4,4	4,13	4,57	4,67	4,54	4,57	4,72	4,71	4,7	4,69	4,4	4,66	4,81	4,68	4,63	4,86	4,83	4,83	4,82	4,58
Space heating	Average climate water outlet 35°C	General	SCOP		3,70	3,72	3,70	3,67	3,70	3,66	3,86	3,77	3,90		3,82	3,85	3,83	3,81	3,79	3,76	3,53	3,96	3,97	3,93	3,91	3,96	3,93	3,87		3,68
			Seasonal space heating eff. class		A+															-											
Cooling capacity	Nom.			kW	80	104	126	166	206		229	250	288	328	370	406	467	519	560	597	610	288	328	370	406	467	519	560	597	610
Heating capacity	Nom.			kW	85,86	111,02	133,18	176,29	214,81	218,29	239,37	260,83	305,53	349,96	400,64	443,87	500,13	555,95	598,67	633,91	649,7	305,53	349,96	400,64	443,87	500,13	555,95	598,67	633,91	649,7
Power input	Cooling	Nom.		kW	26,3	35,1	42,1	56,6	68	71,8	74,9	83,4	93,9	107	122	134	158	177	193	204	207	94,1	107	123	135	158	177	193	205	207
	Heating	Nom.		kW	26,06	33,19	39,11	51,68	62,55	64,91	69,49	76,15	88,61	101,7	117,65	127,8	147,3	165,04	179,94	191,66	203,16	88,81	101,93	117,94	128,08	147,63	165,38	180,33	192,05	203,95
Capacity control	Method				Step																									
	Minimum capacity			%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17		22	19	17	25	22	19	18	17		
EER					3,03	2,95	2,99	2,93	3,03	2,86	3,06	3	3,06	3,05	3,02	3,01	2,95	2,93	2,9	2,92	2,95	3,06	3,05	3,01		2,95	2,92	2,9	2,91	2,94
COP					3,295	3,345	3,405	3,411	3,434	3,363	3,444	3,425	3,448	3,441	3,405	3,473	3,395	3,369	3,327	3,308	3,198	3,44	3,433	3,397	3,466	3,388	3,362	3,32	3,301	3,186
IPLV					4,75		4,69		4,87	4,72	4,87	4,64	4,94		4,96	5	5,1	5,08	5,05		4,66	4,97	5,16	5,13	5,16	5,3	5,29	5,22	5,16	4,99
Dimensions	Unit	Height		mm	1.801								2.516																	
		Width		mm	1.211								2.224																	
		Length		mm	2.776		3.426		4.024	5.625	4.628	6.223		4.316		5.211		6.112		7.010		4.125		5.025		5.925		6.825		
Weight (XS)	Unit			kg	927	930	996	1.367	2.099	1.522	1.766	1.797	3.073	3.254	3.613	3.933	4.208	4.457	4.791	4.957		2.830	3.080	3.650	3.750	4.206	4.296	4.760	4.860	
	Operation weight			kg	938	941	1.007	1.393	2.135	1.564	1.796	1.827	3.103	3.289	3.648	3.945	4.270	4.527	4.861	5.087		2.865	3.115	3.685,37	3.811,88	4.267,88	4.366,2	4.830,2	4.930,2	
Weight (XL)	Unit			kg	927	930	996	1.367	2.099	1.522	1.766	1.797	3.181	3.367	3.716	4.035	4.337	4.586	4.922	5.089		3.140	3.240	3.650	3.750	4.206	4.296	4.760	4.860	
	Operation weight			kg	938	941	1.007	1.393	2.135	1.564	1.796	1.827	3.216	3.402	3.751	4.097	4.399	4.656	4.992	5.159		3.175	3.275	3.685,37	3.811,88	4.267,88	4.366,2	4.830,2	4.930,2	
Water heat exchanger	Type				Plate heat exchanger																									
	Water volume			l	11			16	35	16	35					62		70				35			62		70			
	Water flow rate	Cooling	Nom.	l/s	3,8	5	6	7,9	9,8		10,9	11,9	13,7	15,7	17,7	19,4	22,3	24,7	26,7	28,5	29,1	13,7	15,7	17,7	19,4	22,3	24,7	26,7	28,5	29,1
	Water pressure drop	Cooling	Nom.	kPa	9,49	15,2	21,5	20,1	12	29,6	14,6	17,1	22	27,9	34,7	23,6	30,4	33,6	38,6	43,2	45	22	27,9	34,7	23,6	30,4	33,6	38,6	43,2	45
Air heat exchanger	Type				High efficiency fin and tube type																									
Compressor	Type				Scroll compressor																									
	Quantity				2			4	2	4						5	6					4			5	6				
Fan	Type				Direct propeller																									
	Quantity				6	8	10	14	12	16		7	8	10		12		14				7	8	10		12		14		
	Air flow rate	Nom.		l/s	9.039	12.644	12.052	15.065	21.090	18.078	24.104		29.593	33.820	43.351	42.276	52.021	50.730	60.692	59.186	78.410	29.593	33.820	43.351	42.276	52.021	50.730	60.692	59.186	78.410
	Speed			rpm	1.200								700							900		700								900
Sound power level (XS)	Cooling	Nom.		dBA	81	86	88	90	89	91	90	91	92	93	94,2	94,8	95,3	95,6	96,1	96,5	98,4	92,4	93,4	94,2	94,8	95,3	95,6	96,1	96,5	98,4
Sound power level (XL)	Cooling	Nom.		dBA	79,5	82,6	84,1	86,2	85,4	87,5	86,4	87,1	86	87	88	88,2	88,9	89	89,6	89,7	95,3	86,4	87,1	88	88,2	88,9	89	89,6	89,7	95,3
Sound pressure level (XS)	Cooling	Nom.		dBA	63	67	69	71	69	73	70	71	72	73	73,8	74,4	74,5	74,8	75	75,4	77,3	72,4	73,4	73,8	74,4	74,5	74,8	75	75,4	77,3
Sound pressure level (XL)	Cooling	Nom.		dBA	61	64	65	67	66	68	66	67	66	67	67,6	67,8	68,1	68,2	68,5	68,6	74,2	66,4	67,1	67,6	67,8	68,1	68,2	68,5	68,6	74,2
Refrigerant	Type				R-32																									
	Charge			kg	17,7	18,3	22	33,7	42,4	51,6	48,6	46	52,4	60,4	70,5	84	87,5	92	114	100	113	52,4	60,4	70,5	84	87,5	92	114	100	113
	Circuits	Quantity			1			2	1	2																				
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9											114,3						88,9				114,3				
Unit	Starting current	Max		A	213,0	329,0	343,0	465,0	412,0	497,0	429,0	443,0	562,0	594,0	629,0	659,0	710,0	755,0	790,0	820,0	841,0	572	606	644	674	728	773	811	841	
	Running current	Cooling	Nom.	A	53,0	65,0	75,0	99,0	122,0	123,0	132,0	143,0	170,0	192,0	215,0	236,0	276,0	313,0	338,0	358,0	361,0	170	193	216	237	277	313	339	359	362
Unit	Running current	Max		A	70,0	87,0	101,0	133,0	170,0	165,0	186,0	201,0	229,0	262,0	297,0	327,0	377,0	423,0	458,0	488,0	509,0	240	274	312	342	395	441	479	509	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																									

EWYT-B-XR

EWYT-B-XS/XL/XR MicroTech 4

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

EWYT-B-XR

Heating & Cooling				EWYT-B-XR	085	115	135	175	215	215	235	265	310	350	400	440	500	560	600	630	650
SEER					4,21	4,37	4,21	4,41	4,16	4,42	4,43	4,13	4,74	4,8	4,82	4,63	4,92	4,89	4,83	4,79	4,72
Space heating	Average climate water outlet 35°C	General	SCOP		3,66	3,71	3,65	3,83	3,74	3,70	3,82	3,81	4,06	4,01	3,95	4,03	3,99	4,04	4,00	3,98	3,88
			Seasonal space heating eff. class		A+									-							
Cooling capacity	Nom.			kW	79	103	124	164	203	204	227	247	282	321	364	398	458	507	548	583	600
Heating capacity	Nom.			kW	84,9	110,32	132,02	174,14	216,57	213,48	237,57	256,58	301,04	344,8	395,81	438,23	494,13	549,6	588,57	620,71	637,4
Power input	Cooling	Nom.		kW	26,6	35,4	42,6	57,4	72,9	68,8	75,7	84,4	95,2	111	124	136	160	180	196	208	203
	Heating	Nom.		kW	25,87	32,94	38,82	51,3	64,51	62,13	68,99	75,49	86,19	98,95	114,46	124,61	143,5	161,2	175,33	186,93	193,22
Capacity control	Method				Step																
	Minimum capacity			%	50	38	50	38	50	19	17	25	22	19	17	25	22	19	18	17	
EER					2,98	2,9	2,92	2,86	2,79	2,97	3	2,93	2,96	2,95	2,93	2,91	2,85	2,81	2,8		2,94
COP					3,282	3,349	3,401	3,394	3,357	3,436	3,443	3,399	3,493	3,485	3,458	3,517	3,443	3,409	3,357	3,321	3,299
IPLV					4,73		4,67	4,65	4,67	4,86	4,82	4,62	4,92	5,12	5,26	5,12	5,34	5,32	5,22	5,23	5,19
Dimensions	Unit	Height		mm	1.801								2.514			2.527					
		Width		mm	1.211								2.224								
		Length		mm	2.776	3.426		4.024	4.628	5.625	6.223		4.316		5.211		6.112		7.010		
Weight	Unit			kg	927	930	996	1.367	1.522	2.099	1.766	1.797	3.181	3.367	3.716	4.035	4.337	4.586	4.922	5.089	
	Operation weight			kg	938	941	1.007	1.393	1.564	2.135	1.796	1.827	3.216	3.402	3.751	4.097	4.399	4.656	4.992	5.159	
Water heat exchanger	Type				Plate heat exchanger																
	Water volume			l	11			16		35						62		70			
	Water flow rate	Cooling	Nom.	l/s	3,8	4,9	5,9	7,8	9,7		10,8	11,8	13,4	15,3	17,3	19	21,8	24,2	26,2	27,8	28,6
	Water pressure drop	Cooling	Nom.	kPa	9,33	14,9	21,1	19,6	28,9	11,8	14,3	16,8	21,2	26,8	33,5	22,7	29,2	32,2	37,1	41,4	43,7
Air heat exchanger	Type				High efficiency fin and tube type																
Compressor	Type				Scroll compressor																
	Quantity				2					4							5	6			
Fan	Type				Direct propeller																
	Quantity				6	8		10	12	14	16		7	8	10		12		14		
	Air flow rate	Nom.		l/s	8.298	11.630	11.064	13.830	16.596	19.362	22.128		25.074	28.656	36.808	35.820	44.169	42.984	51.531	50.148	66.104
	Speed			rpm	1.108								600								780
Sound power level	Cooling	Nom.		dBA	77	81	83	85	87	84	85	86	84		85,2	85,5	86,2	86,3	86,9	87,1	91,6
Sound pressure level	Cooling	Nom.		dBA	59	63	65	67	68	65		66	64		64,8	65,1	65,4	65,5	65,8	66	70,5
Refrigerant	Type				R-32																
	Charge			kg	17,4	18,4	21,5	30	40	44,6	50	53,4	54,4	62	71,5	78	114,5	93	103,4	106	109
	Circuits	Quantity			1					2											
Piping connections	Evaporator water inlet/outlet (OD)			mm	88,9											114,3					
Unit	Starting current	Max		A	213,0	329,0	343,0	465,0	497,0	412,0	429,0	443,0	572,0	606,0	644,0	674,0	728,0	773,0	811,0	841,0	
	Running current	Cooling	Nom.	A	53,0	65,0	75,0	100,0	124,0	123,0	133,0	145,0	169,0	192,0	214,0	237,0	276,0	315,0	339,0	360,0	353,0
Unit	Running current	Max		A	70,0	87,0	101,0	133,0	165,0	170,0	186,0	201,0	240,0	274,0	312,0	342,0	395,0	441,0	479,0	509,0	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																

Water loop solution
Daikin Altherma 3 WS

Daikin Altherma 3 WS for Collective Housing provides an innovative approach to reducing the carbon footprint of apartment buildings. Individual heat pumps deliver economical heating, hot water and optional cooling for each apartment connected via a central water loop. So use of renewable energy is optimised and heat losses in distribution are minimised, improving the environmental performance of the apartment building.

The number of people living in urban areas is continuously increasing in the recent years. Multi-family dwellings in Europe are a good portion of the European building stock. Especially if we consider that, in 2018, 46,0 % of the EU-27 population lived in flats. (*) Therefore, apartment buildings are among the most relevant contributors to the energy consumption and CO_2 emissions of the EU building sector.

As a consequence, the higher demand for living space makes the collective building sector grow in the future cities. Building sector plays a significant role for the energy consumption as it represents 40% of energy used in the EU.
New European Directives are driving the efficiency of modern buildings in order to reach future goals. In this perspective, heat pumps play a key role to achieve these goals not only in single dwellings but also in multi-family apartment buildings.

Daikin, the innovation leader for more than 90 years, takes the challenge in multi-family apartment building to apply full renewable solutions based on in-house heat pump technology. From low to high-rise apartment buildings, from individual to centralised heating systems, from retrofit to new built Daikin has the units, the experience and the solution for you.

(*) https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Living_conditions_in_Europe_-_housing_quality

Efficiency and environmental performance all in one

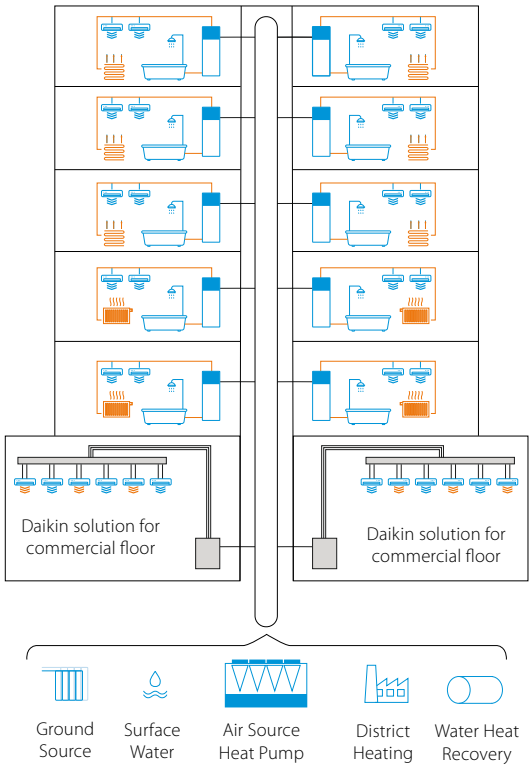
Individual heat pumps connected to a central loop

This innovative system consists of a network of heat pumps connected to a common central water loop. In each apartment is a Daikin Altherma 3 WS unit - a high-efficiency water-to-water heat pump with integrated domestic hot water (DHW) tank.

The heat pump in each apartment works independently, but is connected to a common central water loop to form a communal system. The central water loop must be maintained between +10°C and below +30°C. Thanks to this wide temperature range, the central water loop can be warmed/or cooled via several different means:

- Ground or air source heat pump
- Shared ground array, borehole or thermal piles
- Surface water source such as a river, canal or seawater
- District heat network
- Waste heat recovery

This offers the designer full flexibility to select the most appropriate form of renewable energy available to the site: ground, water or air.



Low ambient temperatures for minimal heat loss

This highly efficient heat pump network can provide economical heating, hot water and optional cooling for an entire apartment building at relatively low ambient water temperatures.

Compared with the high distribution losses that occur in typical communal heating systems - which lead to overheated buildings and wasted energy - the low ambient loop means that heat losses are reduced by more than 90%. Hence it is a much more economical solution, that reduces the carbon footprint of the entire building.

Key system advantages:

- Utilises renewable (or recovered) energy
- Low carbon heat pump solution delivers significant CO_2 reductions over traditional systems
- Low carbon solution helps reduce carbon offset payments
- Energy centre not required, saving valuable space
- Heating, hot water & cooling via a 2 pipe network offers capital savings over a traditional 4 pipe solution
- Intuitive user controls and internet connectivity as standard
- In-apartment heat pump has integrated back up heater, so heating & hot water is maintained in any eventuality.
- Simplified connection with water loop thanks to the embedded pressure independent control, for automatic flow from the heat pump
- Pressure rating of 16 bar (water loop side) to simplify installation in high-rise buildings: no need of pressure brakers up to 20 floors

Designed to suit modern living

Optimised for comfort

With a leaving water temperature up to 65°C and high efficiencies, the Daikin Altherma 3 WS is designed to ensure the lowest running costs and highest comfort levels for each apartment.

Versatility by design

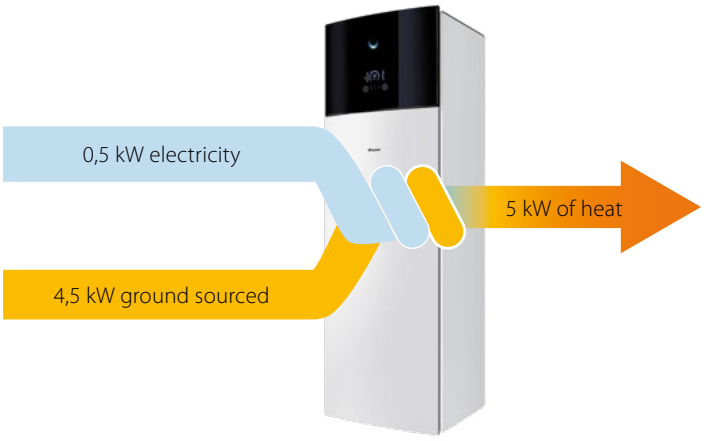
Daikin Altherma 3 WS is highly versatile and works with various heat emitters, such as radiators, underfloor heating, heat pump convectors or fan coil units for maximum design flexibility.

All in one integrated model

The floor standing indoor unit with integrated DHW tank has a minimal footprint, utilising as little floorspace as possible.

Delivering decarbonisation

Compared with a typical Combined Heat & Power (CHP) and boiler system often used in apartments, the Daikin Altherma 3 WS system delivers a reduction in carbon emissions of 143 tonnes.

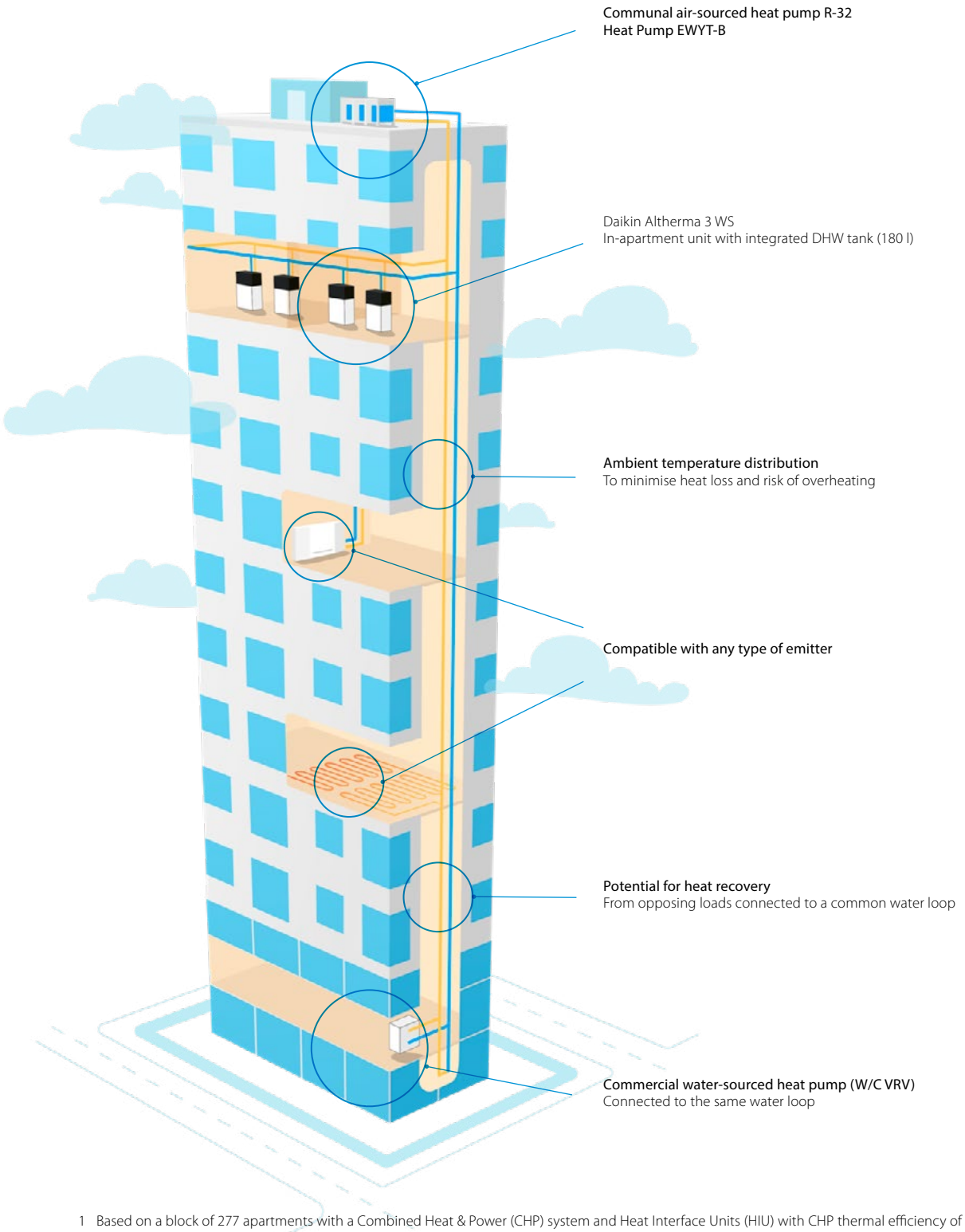


Reduction in capital costs

With a low temperature water loop connected to a heat pump chiller on the roof or in the plant rooms, plus a Daikin Altherma 3 WS unit in each apartment linked to Daikin heat pump convectors or fan coil units, the total system will deliver lower carbon emissions compared with a typical heating system. This could reduce a developer's carbon offset payments, so delivering a low carbon heating and cooling system makes both excellent environmental and economic sense.

BLUEVOLUTION

Heat pump technology reduces carbon emissions compared with any traditional fossil fuel heating system. But the Daikin Altherma 3 WS goes further to reduce the Global Warming Potential (GWP) of system, as it features Daikin's Bluevolution technology which uses R-32 refrigerant. R-32 has a lower GWP than other refrigerants typically used in heat pump systems - and less refrigerant is required too - so it's more environmentally friendly overall.



1 Based on a block of 277 apartments with a Combined Heat & Power (CHP) system and Heat Interface Units (HIU) with CHP thermal efficiency of 48% and electrical efficiency of 32%, 60% CHP / 40% boiler, compared with a Heat Pump with a SCOP of 3,7 based on SAP2012

EWYD-BZSS

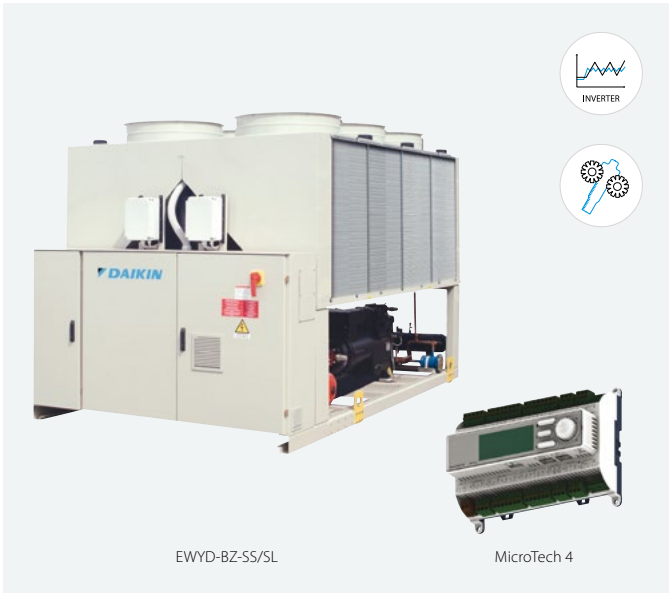
- Ideal solution for commercial comfort cooling and/or heating applications
- 2-3 truly independent refrigerant circuits
- Low starting current
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Standard electronic expansion valve
- Optimised defrost cycles
- Partial and total heat recovery option available
- Power factor up to 0,95
- PID microprocessor control

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

EWYD-BZSS

Heating & Cooling				EWYD-BZSS	250	270	290	320	340	370	380	410	440	460	510	530	570
SEER					-										4,57		4,55
Space heating	Average climate water outlet 35°C	General	SCOP		3,21		3,20		3,21				3,20		-		
Cooling capacity	Nom.			kW	253	272	291	323	337	363	380	411	433	455	515	533	569
Heating capacity	Nom.			kW	271	298	325	334	350	380	412	445	465	477	532,86	560,55	618,33
Power input	Cooling	Nom.		kW	91,3	101	110	117	125	135	144	154	165	163	183	189	217
	Heating	Nom.		kW	91,4	100	108	118	126	133	143	157	167	165	177,37	184,84	208,14
Capacity control	Method				Stepless												
	Minimum capacity			%	13,0									9,0	9		
EER					2,77	2,70	2,65	2,75	2,69	2,68	2,63	2,66	2,62	2,79	2,81		2,62
COP					2,96	2,97	3,00	2,82	2,78	2,85	2,88	2,83	2,79	2,88	3,004	3,033	2,971
IPLV					4,58	4,62		4,75	4,64	4,71	4,67	4,73	4,69	4,85	4,89	4,85	4,77
Dimensions	Unit	Height		mm	2.335									2.280	2.280		
		Width		mm	2.254										2.254		
		Length		mm	3.547			4.428				5.329		6.659	6.659		
Weight	Unit			kg	3.410	3.455	3.500	3.870		3.940	4.010	4.390		5.015	5.495	5.735	
	Operation weight			kg	3.550	3.595	3.640	4.010		4.068	4.138	4.518		5.255	5.724	5.964	5.953
Water heat exchanger	Type				Single pass shell & tube										Shell and tube		
	Water volume			l	138			133		128				240	229		218
	Water flow rate	Cooling	Nom.	l/s	12,1	13,0	13,9	15,5	16,2	17,4	18,2	19,7	20,8	21,8	24,7	25,5	27,3
		Heating	Nom.	l/s	13,1	14,4	15,7	16,1	16,9	18,3	19,8	21,4	22,4	23,0	-		
	Water pressure drop	Cooling	Nom.	kPa	40	46	44	50	55	60	65	74	80	47	68,4	46,5	52,4
		Heating	Nom.	kPa	30	35	52	37	40	45	51	59	64	42	-		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										High efficiency fin and tube type		
Compressor	Type				Single screw compressor												
	Quantity				2									3	3		
Fan	Type				Direct propeller												
	Quantity				6			8				10		12	12		
	Air flow rate	Nom.		l/s	31.729	31.422	31.115	42.306		42.337	41.487	52.882		63.458	62.640	61.652	48.191
	Speed			rpm	900										900		
Sound power level	Cooling	Nom.		dBA	101							102		104	103,6		
Sound pressure level	Cooling	Nom.		dBA	82							83		84	83,7		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45										-~-		
		Heating	Min.~Max.	°CDB	-10~20										-~-		
	Water side	Cooling	Min.~Max.	°CDB	-8~15										-~-		
		Heating	Min.~Max.	°CDB	35~55										-~-		
Refrigerant	Type/GWP				R-134a/1.430										R-134a/-		
	Charge			kg	-										141		147
	Circuits	Quantity			2									3	3		
Refrigerant charge	Per circuit			kg	43,0	44,0	43,0	46,0	46,5		47,0	50,0		47,0	-		
	Per circuit			TCO_2Eq	61,5	62,9	61,5	65,8	66,5		67,2	71,5		67,2	-		
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7									219,1			
Unit	Starting current	Max		A	150			181	204			224	238	245	327	355	344
	Running current	Cooling	Nom.	A	137	150	164	176	188	202	214	229	244	246	298	310	349
		Max		A	211		212	254	288			316	336	329	433	474	458
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										3~/50 /400		

EWYD-BZSL



EWYD-BZ-SS/SL MicroTech 4

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

EWYD-BZSL

Heating & Cooling				EWYD-BZSL	250	270	290	320	330	360	370	400	430	450	510	530	570
SEER					-										4,56	4,6	4,55
Space heating	Average climate water outlet 35°C	General	SCOP		3,21		3,20		3,21				3,20		-		
Cooling capacity	Nom.			kW	247	265	290	315	330	353	370	401	423	446	503	519	569
Heating capacity	Nom.			kW	271	298	325	334	350	380	412	445	465	477	532,86	560,55	618,33
Power input	Cooling	Nom.		kW	89,5	99,5	110	115	123	134	144	151	163	158	178	185	217
	Heating	Nom.		kW	91,4	100	108	118	126	133	143	157	167	165	177,37	184,84	208,14
Capacity control	Method				Stepless												
	Minimum capacity			%	13,0									9,0	9		
EER					2,76	2,66	2,62	2,75	2,68	2,64	2,57	2,66	2,59	2,83	2,82	2,8	2,62
COP					2,96	2,97	3,00	2,82	2,78	2,85	2,88	2,83	2,79	2,88	3,004	3,033	2,971
IPLV					4,90	4,96	4,91	5,17	5,08	5,12	5,06	5,22	5,13	5,07	5,03	4,99	4,89
Dimensions	Unit	Height		mm	2.335									2.280	2.280		
		Width		mm	2.254										2.254		
		Length		mm		3.547		4.428				5.329		6.659	6.659		
Weight	Unit			kg	3.750	3.795	3.840	4.210		4.280	4.350	4.730		5.525	6.005	6.245	
	Operation weight			kg	3.888	3.933	3.978	4.343		4.408	4.478	4.858		5.765	6.234	6.474	6.463
Water heat exchanger	Type				Single pass shell & tube										Shell and tube		
	Water volume			l		138		133		128				240	229		218
	Water flow rate	Cooling	Nom.	l/s	11,8	12,7	13,9	15,1	15,8	16,9	17,7	19,2	20,3	21,4	24,1	24,9	27,3
		Heating	Nom.	l/s	13,1	14,4	15,7	16,1	16,9	18,3	19,8	21,4	22,4	23,0	-		
	Water pressure drop	Cooling	Nom.	kPa	38	44	42	48	53	57	62	71	77	45	65,5	44,4	52,4
		Heating	Nom.	kPa	30	35	52	37	40	45	51	59	64	42	-		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										High efficiency fin and tube type		
Compressor	Type				Single screw compressor												
	Quantity				2									3	3		
Fan	Type				Direct propeller												
	Quantity					6		8				10		12	12		
	Air flow rate	Nom.		l/s	-										48.415	47.732	48.191
		Cooling	Nom.	l/s	24.432	24.264	24.095	32.576		32.628	32.127	40.720		48.863	-		
	Speed			rpm	700										900		
Sound power level	Cooling	Nom.		dBA		94		95						97	97		
Sound pressure level	Cooling	Nom.		dBA	76									77	77,2		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45										-~-		
		Heating	Min.~Max.	°CDB	-10~20										-~-		
	Water side	Cooling	Min.~Max.	°CDB	-8~15										-~-		
Operation range	Water side	Heating	Min.~Max.	°CDB	35~55										-~-		
Refrigerant	Type/GWP				R-134a/1.430										R-134a/-		
	Charge			kg	-										141		147
	Circuits	Quantity			2									3	3		
Refrigerant charge	Per circuit			kg	43,0	44,0	43,0	46,0	46,5		47,0	50,0		47,0	-		
	Per circuit			TCO_2Eq	61,5	62,9	61,5	65,8	66,5		67,2	71,5		67,2	-		
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7									219,1			
Unit	Starting current	Max		A	145		146	176	199			217	231	234	316	344	
	Running current	Cooling	Nom.	A	134	148	163	171	184	199	212	224	240	238	291	305	349
		Max		A	202		203	243	277			302	322	313	416	458	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										3~/50 /400		

Simultaneous heating and cooling with R-513A refrigerant

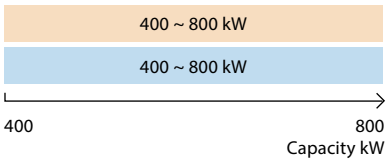
1 Single system providing heating & cooling

2 Sound configurations

- EWYS-4ZXS Standard Sound
- EWYS-4ZXR Reduced Sound

Capacity range

From 400 up to 800 kW in both heating and cooling



Operating range

	Min	Max
Heating water	30°C	60°C
Chilled water	-8°C	20°C
Outdoor ambient temperature	-18°C	50°C

Product overview

Outdoor installation | VFD Single Screw Compressor | Tubes and Fins Air Section | Brushless Fans | Direct Expansion Shell and Tube Evaporator | Direct Expansion Shell and Tube Condenser

The product is equipped with **Daikin Inverter-Driven Single-Screw Compressors** with Variable Frequency Drive (VFD) and Variable Volume Ratio (VVR), operating with **R-513A refrigerant**, which has a very low Global Warming Potential (GWP). Its capacity range is from 400 to 800 kW in both cooling and heating modes, with a Total Energy Efficiency Ratio (TER) of up to 7,89. It operates in ambient temperatures from -18°C to +50°C, with chilled water temperatures ranging from -8°C (with a water/glycol mixture) to +20°C, and heating water temperatures from +30°C to +60°C. As a result, the EWYS-4Z can be extensively used across various applications, from industrial to commercial buildings, hotels, and hospitals. It ensures reliable operation and optimal performance in a wide range of locations and weather conditions.

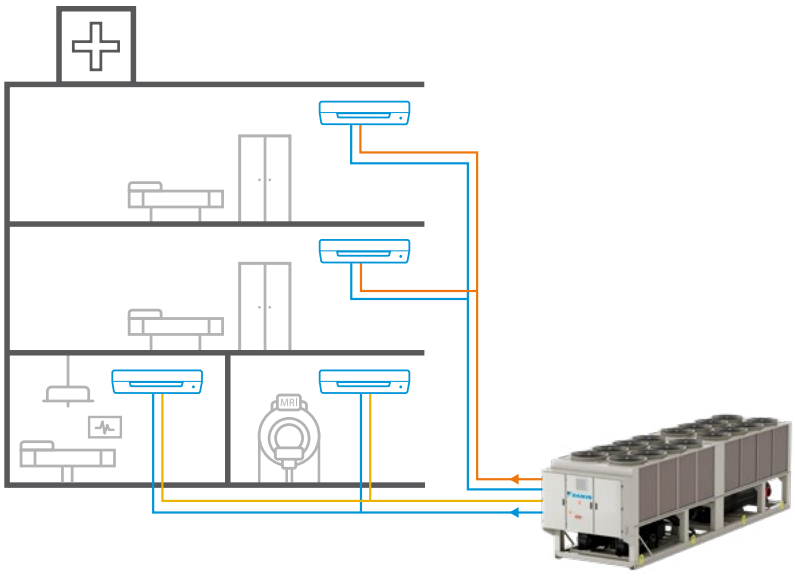
A reduced noise configuration is also available, featuring noise attenuation through lower fan speeds and a specially designed soundproof compressor cabinet. Enhanced insulation on refrigerant pipes and special connections at the compressor's suction significantly reduce vibration transmission. It is also equipped with two **Shell & Tube** heat exchangers on the waterside. Thanks to its design, the Daikin polyvalent unit can simultaneously meet cooling and heating needs year-round, adapting to varying climatic conditions without requiring seasonal changeover. It independently controls the two refrigerant circuits based on actual demand.

Product Applications

Cooling + Heating

Space Cooling & Heating

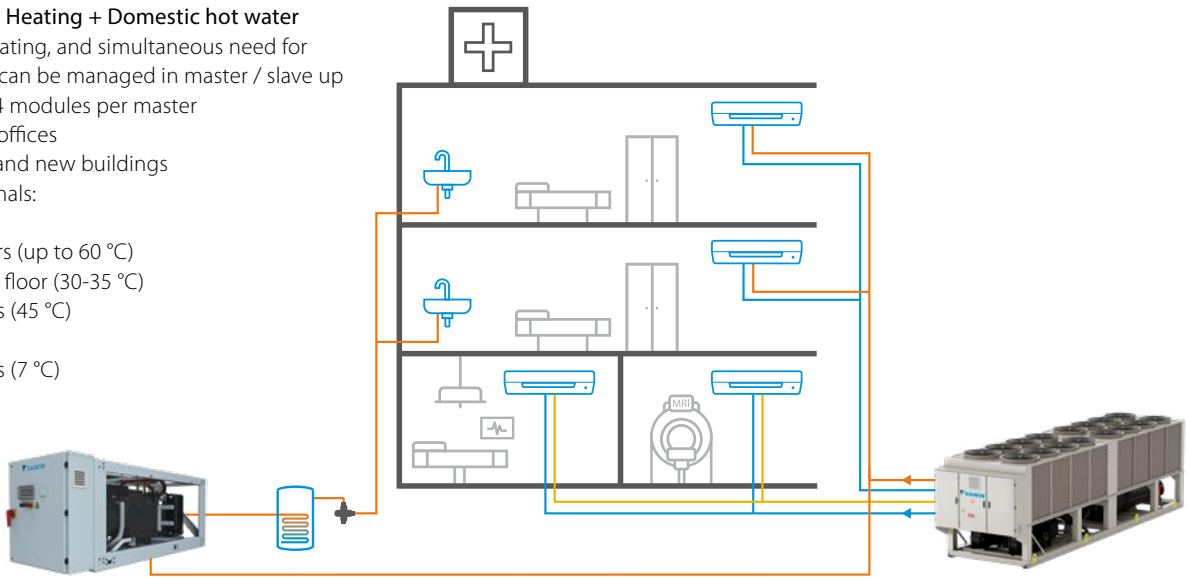
- Centralized heating, and simultaneous need for cooling. Units can be managed in master / slave up to an array of 4 modules per master
- Hospitals and offices
- Replacement and new buildings
- Possible terminals:
  - Heating
    - Radiators (up to 60 °C)
    - Heating floor (30-35 °C)
    - Fan coils (45 °C)
  - Cooling
    - Fan coils (7 °C)



Cooling + Heating + Domestic Hot Water

Space Cooling & Heating + Domestic hot water

- Centralized heating, and simultaneous need for cooling. Units can be managed in master / slave up to an array of 4 modules per master
- Hospitals and offices
- Replacement and new buildings
- Possible terminals:
  - Heating
    - Radiators (up to 60 °C)
    - Heating floor (30-35 °C)
    - Fan coils (45 °C)
  - Cooling
    - Fan coils (7 °C)



EWYS-4ZXS

- R-513A refrigerant
- Designed for commercial and industrial applications
- Dedicated option for low flow rate in heating mode
- Brushless fans as standard option
- Full Inverter Technology

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

EWYS-4ZXS

		EWYS-4ZXS	400	450	500	550	600	650	700	800
Cooling Operation (1)	Cooling Capacity	kW	393,1	440,8	495,2	532,1	584,5	644,4	682,5	765,7
	Power Input		135,6	151,5	166,7	189,4	196,8	221,4	221,6	256,1
	SEER	kW	4,55		4,85	4,71	4,91	5,01	5,14	5,11
	EER		2,9	2,91	2,97	2,81	2,97	2,91	3,08	2,99
	Minimum Capacity	%	17	15		13		12	11	10
Heating Operation (2)	Heating Capacity	kW	403,1	442,9	506,1	536,1	588	650,4	680,4	790,3
	Power Input	kW	126,8	136,3	153,8	163,9	178,7	201,4	201,9	235,9
	SCOP		3,21	3,24	3,4	3,31	3,46	3,3	3,36	3,49
	COP		3,18	3,25	3,29	3,27	3,29	3,23	3,37	3,35
Cooling + Heaing Operation (3)	Cooling Capacity	kW	306,9	344,6	386	421,8	469,8	505,7	542,2	621,7
	Heating Capacity	kW	403,1	442,9	506,1	536,1	588	650,4	680,4	790,3
	Power input	kW	98,34	110,9	120,1	131,9	139,4	152,7	160	179,2
	TER - C+H		7,22	7,1	7,43	7,26	7,59	7,57	7,64	7,88
Evaporator	Evaporator water flow rate (1)	l/s	18,8	21,1	23,7	25,5	28	30,8	32,7	36,6
	Evaporator pressure drop (1) (4)	kPa	37,6	46	38,6	43,8	43,9	31,5	39,1	33,9
	Evaporator water volume (8)	lt	126		214		369	361	468	
	Evaporator minimum water (9)	l/s	9,1		13,4		14,6	19,5	20,8	26,1
Condenser	Condenser water flow rate (2)	l/s	19,4	21,3	24,4	25,8	28,4	31,4	32,8	38,1
	Condenser pressure drop (2) (4)	kPa	38,2	45,2	34,4	38,2	36,1	26,5	31,1	29,9
	Condenser water volume (8)	lt	126		214		369	361	468	
	Condenser minimum water flow rate (9)	l/s	9,1		13,4		14,6	19,5	20,8	26,1
Sound (1)	Sound Power (5)	dB(A)	99	98	99		100	101	102	
	Sound Pressure (6)	dB(A)	78	77	77	78	78	79	80	80
Fans	Number of fans		10		12		14	16		
	Air flow (7)	l/s	56.550		67.860		79.170	90.480		
Oil charge		lt	28	28	28	28	28	28	38	38
Refrigerant	Type/GWP		R-513A/629,5							
Refrigerant Charge (8)	Charge (8)	kg	198	207	200	219	247	260	328	354
	Number of curicuts		2							
Dimensions (8)	Length	mm	5.825		6.725		7.625	8.525		
	Width	mm	2.285							
	Height	mm	2.465							
Weight (8)	Unit	kg	6.075	6.095	6.870		7.850	8.435	9.405	9.430
	Operation weight	kg	6.540	6.560	7.560		8.935	9.540	10.785	10.820
Water connection size		mm	219,1							
Water connection type			Victaulic							
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/400							

Notes:
(1) – (standard conditions Air to water - Cooling Only) evaporator water in/out = 12/7°C; ambient = 35.0°C, unit at full load operation in Cooling Only; operating fluid: Water; fouling factor = 0°C/W
(2) – (standard conditions Air to water - Heating Only) condenser water in/out = 40/45°C; ambient = 7.0°C, unit at full load operation in Heating Only; operating fluid: Water; fouling factor = 0°C/W
(3) – (standard conditions Water to water – Cooling + Heating) evaporator water out = 7°C; condenser water out = 45°C operating fluid: Water; fouling factor = 0°C/W
(4) – not including filter pressure drop. The installation of the filter is mandatory.
(5) – sound power level referred to standard conditions in Air to water - Cooling Only; full load operation is measured in accordance with ISO 9614
(6) – Sound pressure level referred to standard conditions in Air to water - Cooling Only; full load operation is measured in accordance with ISO 3744
(7) – referred to unit with free discharge on condenser fans.
(8) – data subject to change in case of options or unit with customizations. Refer to unit's name plate for actual value.
(9) – minimum flow rate applicable in variable flow application when the unit is running at minimum load.

EWYS-4ZXR

MicroTech 4

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

EWYS-4ZXR

		EWYS-4ZXR		400	450	500	550	600	650	700	800
Cooling Operation (1)	Cooling Capacity	kW		350,3	380,8	434,2	485	534,3	578,4	613,2	672,3
	Power Input			121,2	138	149,2	175,1	190,1	201,5	212,9	241
	SEER	kW		4,63	4,55	4,78	4,82	5,07	5,15	5,05	5,13
	EER			2,89	2,76	2,91	2,77	2,81	2,87	2,88	2,79
	Minimum Capacity	%		20	18	17	14	14	13	12	11
Heating Operation (2)	Heating Capacity	kW		363,6	404,4	447,6	499,1	549,8	612,6	650,7	708,4
	Power Input	kW		110,5	117,6	129,4	145,5	162,2	182,3	187,5	202,4
	SCOP			3,2	3,22	3,32	3,29	3,3	3,27	3,33	3,38
	COP			3,29	3,44	3,46	3,43	3,39	3,36	3,47	3,5
Cooling + Heaing Operation (3)	Cooling Capacity	kW		275,9	306,4	344,1	375,4	426,5	463,6	479,5	532,9
	Heating Capacity	kW		363,6	404,4	447,6	499,1	549,8	612,6	650,7	708,4
	Power input	kW		87,84	98,31	104,6	118,2	126	139,9	147,4	157,3
	TER - C+H			7,28	7,23	7,57	7,4	7,75	7,69	7,67	7,89
Evaporator	Evaporator water flow rate (1)	l/s		16,8	18,2	20,8	23,2	25,6	27,7	29,3	32,1
	Evaporator pressure drop (1) (4)	kPa		30,7	35,8	30,7	37,4	37,6	26,1	32,5	27
	Evaporator water volume (8)	lt		126		214		369	361	468	
	Evaporator minimum water (9)	l/s		9,1		13,4		14,6	19,5	20,8	26,1
Condenser	Condenser water flow rate (2)	l/s		17,5	19,5	21,6	24,1	26,5	29,6	31,4	34,2
	Condenser pressure drop (2) (4)	kPa		31,7	38,4	27,6	33,6	32	23,8	28,7	24,6
	Condenser water volume (8)	lt		126		214		369	361	468	
	Condenser minimum water flow rate (9)	l/s		9,1	9,1	13,4	13,4	14,6	19,5	20,8	26,1
Sound (1)	Sound Power (5)	dB(A)		88	87	88		89		91	
	Sound Pressure (6)	dB(A)		67	66	67		68	67	69	
Fans	Number of fans			10		12		14	16		
	Air flow (7)	l/s		36.110		43.332		50.554	57.776		
Compressor	Type			Single Screw							
	Oil charge	lt		28						38	
	Quantity			2							
Refrigerant	Type/GWP			R-513A/629,5							
	Charge (8)	kg		206	207	224	226	248	260	320	348
	Number of curicuts			2							
Dimensions (8)	Length	mm		5.825		6.725		7.625	8.525		
	Width	mm		2.285							
	Height	mm		2.465							
Weight (8)	Unit	kg		6.240	6.260	7.035		8.015	8.600	9.690	9.715
	Operation weight	kg		6.705	6.725	7.725		9.100	9.705	11.075	11.110
Water connection size		mm		219,1							
Water connection type				Victaulic							
Power supply	Phase/Frequency/Voltage	Hz/V		3N~/50/400							

Notes:
(1) – (standard conditions Air to water - Cooling Only) evaporator water in/out = 12/7°C; ambient = 35.0°C, unit at full load operation in Cooling Only; operating fluid: Water; fouling factor = 0°C/W
(2) – (standard conditions Air to water - Heating Only) condenser water in/out = 40/45°C; ambient = 7.0°C, unit at full load operation in Heating Only; operating fluid: Water; fouling factor = 0°C/W
(3) – (standard conditions Water to water – Cooling + Heating) evaporator water out = 7°C; condenser water out = 45°C operating fluid: Water; fouling factor = 0°C/W
(4) – not including filter pressure drop. The installation of the filter is mandatory.
(5) – sound power level referred to standard conditions in Air to water - Cooling Only; full load operation is measured in accordance with ISO 9614
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Condensing Unit

- ERAD-E-SS 154
- ERAD-E-SL 155

Accessories - chillers and heat pumps 206

Please consult the Webbased Selection Software Tool for detailed technical information.

ERAD-E-SS

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

ERAD-E-SS

Cooling only				**ERAD-E-SS**	**120**	**140**	**170**	**200**	**220**	**250**	**310**	**370**	**440**	**490**
Cooling capacity	Nom.			kW	121	144	165	196	219	251	309	370	435	488
Power input	Cooling	Nom.		kW	42,1	51,2	57,7	65,6	74,2	77,0	93,8	123	148	161
Capacity control	Method				Stepless									
	Minimum capacity			%	25,0									
EER					2,88	2,82	2,86	2,99	2,95	3,27	3,30	3,02	2,95	3,02
Dimensions	Unit	Height		mm	2.273						2.223			
		Width		mm	1.292						2.236			
		Depth		mm	2.165		3.065		3.965		3.070			
Weight	Unit			kg	1.584		1.741		1.936		2.679			
	Operation weight			kg	1.617		1.781		1.981		2.756			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Screw									
	Quantity				1									
Fan	Type				Direct propeller									
	Air flow rate	Nom.		l/s	10.924	10.576	16.386	15.865	21.848	21.153	32.772		31.729	
	Quantity				2		3		4		6			
	Speed	Cooling	Nom.	rpm	900									
Sound power level	Cooling	Nom.		dBA	92				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)			mm	76							139,7		
Unit	Maximum starting current			A	151		195		288		330	410		
	Nominal running current (RLA)		Cooling	A	72	88	98	110	125	129	158	204	244	266
	Maximum running current			A	86	103	119	132	157	164	198	242	284	298
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

ERAD-E-SL

ERAD-E-SS/SL

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

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	1.684		1.841		2.036		2.789			
	Operation weight			kg	1.717		1.881		2.081		2.886			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Screw									
	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						73			74
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)			mm	76							139,7		
Unit	Maximum starting current			A	151		195		288		330	410		
	Nominal running current (RLA)	Cooling		A	73	90	98	112	125	131	155	204	249	275
	Maximum running current			A	83	100	115	128	151	158	189	234	276	290
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

Why choose for a water to water chillers and heat pumps?

Daikin's efficient, profitable and maintenance-friendly water to water chillers are especially suitable for critical industrial applications where a temperature control accuracy of ±0,5°C is required.

Water to water chillers and heat pumps are typically intended for indoor installation and operation.

Water to water chillers and heat pumps are available with different compressor types:

Water to water scroll chillers and heat pumps

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

Water to water screw chillers and heat pumps

The Daikin water to water screw chillers and heat pumps provide the ideal solution for sound sensitive environments. Applications range from comfort heating, cooling to ice making.

Water to water centrifugal chillers and heat pumps

Small footprint, quiet compressor, easy integration with existing HVAC system. These chillers and heat pumps offer you a return on investment throughout its life cycle. Ideal solution for large heating and cooling requirements (e.g. district heating and 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. Daikin water to water units generate cold and hot water, which can be used for chilling, heating or even both at the same time.

Installation flexibility

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

Table of content

Water to water

Cooling only & Heat pump

R-410A

- EWWQ-KC 158

R-32

- EWWT-Q-XS 163
- EWWT-Q-XR 164
- EWHT-Q-XS 165
- EWHT-Q-XR 166

R-134a

- EWWD-J-SS 167
- EWWD-VZSS 175
- EWWD-VZXS 176
- EWWD-VZPS 177

R-1234ze(E)

- EWWH-J-SS 168
- EWWH-VZSS 178
- EWWH-VZXS 179
- EWWH-VZPS 180

R-513A

- EWWS-J-SS 169
- EWWS-VZSS 181
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- EWWS-VZPS 183

Centrifugal chillers

R-134a

- EWWD-DZXS 188
- EWWD-DZXE 189
- DWSC/DWDC-C 194

R-1234ze(E)

- EWWH-DZXS 190
- EWWH-DZXE 191
- DWSC/DWDC-C 194

R-513A

- EWWS-DZXS 192
- EWWS-DZXE 193
- DWSC/DWDC-C 194

Accessories - Chillers and heat pumps 206

Please consult the Webbased Selection Software Tool for detailed technical information.

EWWQ-KC

- One of the most compact units on the market
- Low energy consumption
- Low operating sound level
- Low refrigerant volume
- Stainless steel plate heat exchanger
- Extension possible to 192 kW: stackable installation up to 3 units
- Easy installation and maintenance
- Remote cooling or heating selection
- Water/water heat pump, with water reversibility
- Standard integrated: main switch, water filter, flow switch, air purge, and pressure ports
- Brine an low brine options as standard
- Compatibility with Daikin on Site
- Easy controller management via Master/Slave (up to 4 units) allowing capacity range up to 256 kW
- Modbus and BACnet compatibility

EWWQ-KC

µC²SE

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

EWWQ-KC

Cooling only/Heating only					EWWQ-KC	014	025	033	049	064
Space heating	Average climate water outlet 35°C	General	SCOP			4,76	4,73	4,52	4,87	4,91
			Seasonal space heating eff. class			A+++		A++	A+++	
Cooling capacity	Nom.				kW	13,25	23,89	30,47	47,15	60,98
Power input	Cooling	Nom.			kW	3,15	5,72	7,32	11,43	14,60
Capacity control	Method					Fixed				
	Minimum capacity				%	100			50	
EER						4,204	4,176	4,163	4,126	4,178
IPLV						4,68	4,85	4,28	4,97	4,44
Dimensions	Unit	Height			mm	600				
		Width			mm	600				
		Depth			mm	600			1.200	
Weight	Unit				kg	68	132	141	257	265
	Operation weight				kg	74	136	145	266	282
Water heat exchanger - evaporator	Type					Brazed plate				
	Water volume				l	1,47	1,96	2,74	4,47	5,88
	Water flow rate	Nom.			l/s	0,63	1,14	1,46	2,25	2,91
	Water pressure drop	Cooling	Nom.		kPa	12,0	24,7	24,6	30,1	38,4
Water heat exchanger - condenser	Type					Brazed plate				
	Water volume				l	1,38	2,21	3,04	6,35	8,70
	Water flow rate	Nom.			l/s	0,79	1,42	1,82	2,82	3,64
	Water pressure drop	Cooling	Nom.		kPa	12,6	20,1	23,3	29,3	26,8
Compressor	Type					Scroll compressor				
	Quantity					1			2	
Sound power level	Cooling	Nom.			dBA	69		76	72	79
Sound pressure level	Cooling	Nom.			dBA	55,2		62,1	57,6	64,6
Operation range	Evaporator	Cooling	Min.~Max.		°CDB	-10~20				
	Condenser	Cooling	Min.~Max.		°CDB	20~55				
Refrigerant	Type					R-410A				
	Charge				kg	1,3	1,9	2,7	4,6	6,8
	Circuits	Quantity				1			2	
Piping connections	Evaporator water inlet/outlet (OD)					G1"			G1" 1/2	
	Condenser water inlet/outlet (OD)					G1"			G1" 1/2	
Unit	Starting current	Max			A	57,4	109,3	124,3	124,8	143,6
	Running current	Cooling	Nom.		A	5,98	9,28	13,00	18,70	26,00
		Max			A	9,16	15,5	19,3	31,0	38,7
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50/400				

Plug & play solution for easier facility management

The range in numbers

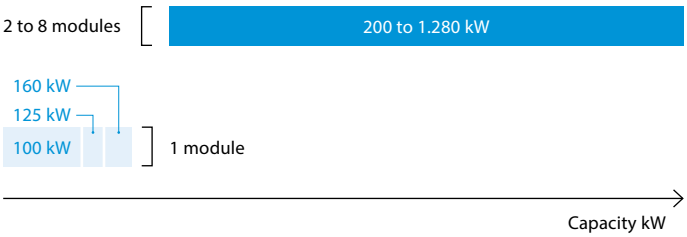
3 Product versions:
- Heat pump with inversion on water side
- Heat pump with inversion on refrigerant side (100 kW only)
- Condenser-less

3 Base modules:
100 – 125 – 160 kW

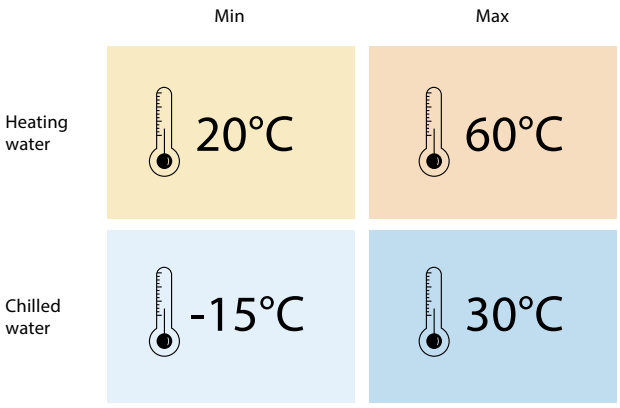
98 Possible combinations of modules with the different product versions

Capacity range

Three base modules of 100, 125 and 160 kW.
Modules can be combined up to 8 in two stacked arrays of 4, with resulting capacity range **from 200 to 1.280 kW**



Operating range



Product overview

Indoor installation (xs) | Outdoor installation (xr) | Modular design | Daikin ON/OFF Scroll Compressor | Braze plate heat exchangers

The product features a new **modular approach** to system design, which introduces additional flexibility in configuration, allowing the required capacity to be reached by combining smaller units piped together and controlled as one. Consisting of three base modules with capacities of 100, 125 and 160kW, the range features **Daikin ON/OFF Scroll Compressor** and R-32 refrigerant, whose GWP is 70% lower than that of R-410A. As well, R-32, being a pure and single component refrigerant, has all the characteristics needed to be easily recovered, recycled, or regenerated, so to enter the reclaimed refrigerant market and be reused. R-32 is also widely available on the market, as main refrigerant for air conditioning units with scroll compressors. That is, largely available for maintenance services.

The product is also available in two sound levels, including a reduced sound version suitable for outdoor installation and noise-sensitive applications such as residential buildings, hotels, and hospitals. Among the benefits, modular construction offers several advantages in siting and installation, making units easier to transport, handle, and install up to a fully plug-and-play solution by including the **Daikin Manifold Kit and Pump module**. Modules can be combined as a side-by-side array or stacked to minimise space requirements. Each of the different modules is very compact and can be easily transported and positioned in the installation space.

Product Benefits

Scalability & compactness

Due to its modularity, the new EW(W)(H)(L)T-Q A units offer high scalability potential. Modules can be added when needed, according to building's construction plan. As well, modules can be combined as a side-by-side array or stacked to minimise space requirements, particularly useful for retrofit applications. Modules can be combined up to 8 in two stacked arrays of 4, with resulting capacity range **from 100 to 1.280 kW**.

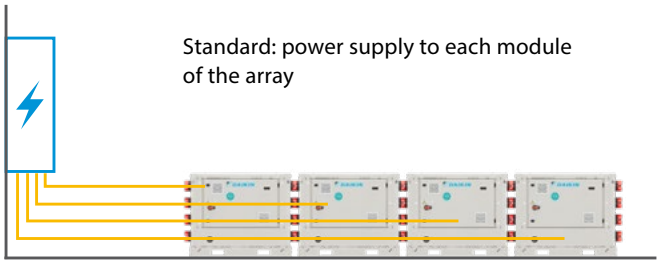
1

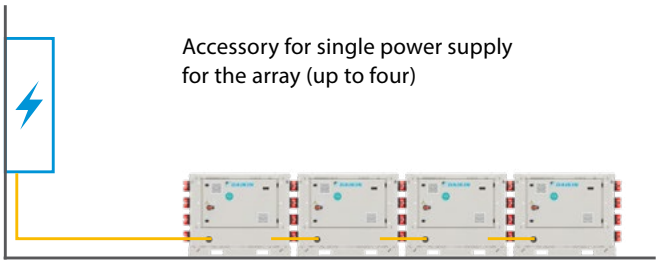
Max horizontal array: 4

Stackable up to 8 modules

Single Power Supply

As standard (no accessory) each module must be connected to a separate power supply. It is possible to have a single array (up to four modules) with a single power supply.

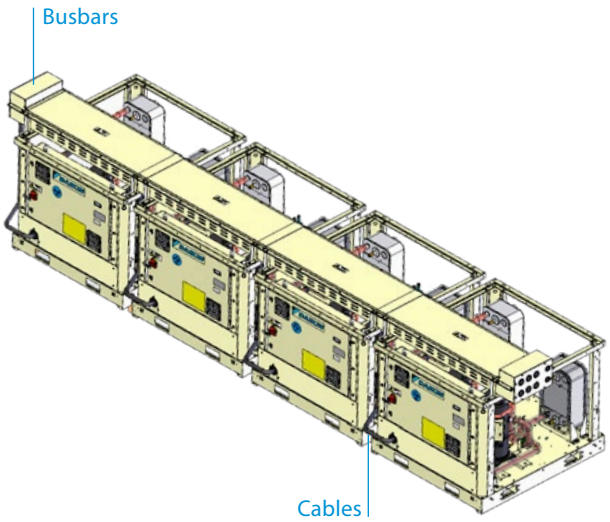




Busbars and cables are provided by factory with one of the below **accessories codes**. The electrical connection between modules must be done on site.

Accessory codes:
EKSPELT2 - Single Power Supply Kit for 2 modules
EKSPELT3 - Single Power Supply Kit for 3 modules
EKSPELT4 - Single Power Supply Kit for 4 modules

Attention:
- Single Power supply kit is shipped loose and to be mounted on site
- The stacked installation is not compatible with single power supply configuration
- Single power supply available only for indoor installation
- In case of 4 units on order, to be arranged in array, in case single power supply is required, EKSPELT4 can be selected just one time



Plug & play installation

Simplified installation with the Manifold Kit, which is designed to connect modules on the waterside, as it includes the pipework between the units. The Manifold Kit can also be factory-mounted to further reduce installation time on site. In addition, a dedicated Pump Module can be easily added to the array of modules. It is equipped with inverter pumps for full flexibility and includes an 18-litre expansion tank. For further easiness of installation, Single Power Supply can be integrated, having 1 single power cable connected to the array of up to 4 modules (cables connecting modules provided by factory).

Base module + Manifold kit = Modular unit

Modules array | Pump module ← Pumps must have a dedicated power supply

The modules can be installed indoor or even outdoor, if the reduced noise configuration would be selected. Indeed, the new EW(W)(H)(L)T-Q A offers two different noise configurations to comply with the requirements of noise sensitive applications as: residential, hotels and hospitals.

Indoor installation

Outdoor installation

Lower operating costs

Thanks to its modular design, this new unit can closely follow the cooling and heating load profile of the building, according to EN14825. This is particularly important as it ensures low operating costs for the HVAC system at part load conditions, which represent most of the operating time. This is not the case with traditional packaged chillers & heat pumps, that need to work on a series of on-off cycles, reducing system efficiency.

Limited environmental impact

The units use R-32 refrigerant, which has a Global Warming Potential (GWP) of 675, just one-third of R-410A. R-32 is a pure and single component refrigerant, so it can be reclaimed. A recent study from Tokyo City University* reports that reclaimed R-32 has an environmental impact 90% lower than virgin R-32, due to avoided need of destruction and lower energy required for reclamation with respect to new production. Daikin uses reclaimed R-32 on its chillers and heat pumps under its Loop by Daikin programme.

LOOP BY DAIKIN

Contribution to Green Building

The most popular green building protocols are BREEAM and LEED. EW(W)(H)(L)T-Q A can contribute to a project's credits when evaluating energy efficiency of the hydronic system, especially if Partial Heat Recovery option would be selected. The limited GWP of R-32 and the low refrigerant charge per circuit thanks to the modular design also result in a possible contribution when evaluating the impact of refrigerants.

BREEAM® LEED LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN

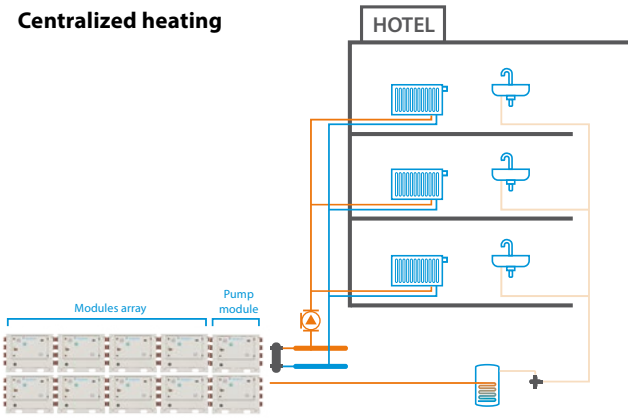
Product Applications

Heating

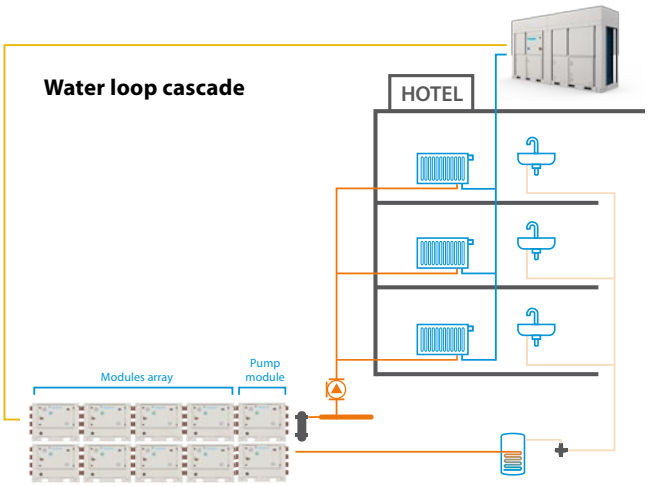
Space Heating + DHW configurations

- Centralized heating, eventually in water loop cascade with an air to water heat pump. DHW supply managed via independent DHW supply (single or array of modules dedicated to DHW, eventually stacked). Units can be managed in master / slave up to an array of 4 modules per master
- Residential, offices, Light commercial, gym, hotel
- Replacement and new building
- Possible terminals:
  - Radiators (up to 60 °C)
  - Heating floor (30-35 °C)
  - Fan coils (45 °C)

Centralized heating



Water loop cascade



Cooling

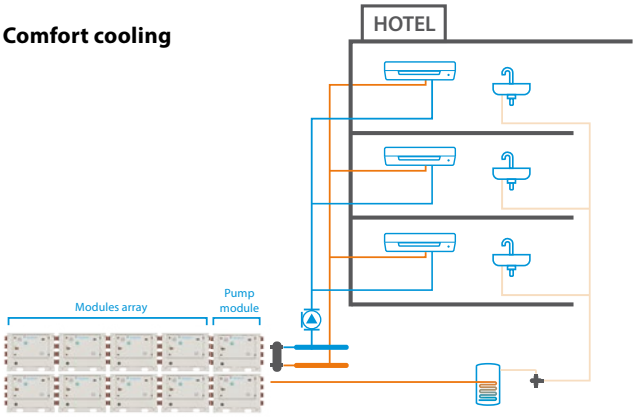
Comfort cooling

- Centralized cooling. DHW managed via independent DHW supply (single or array of modules dedicated to DHW, eventually stacked). Units can be managed in master / slave up to an array of 4 modules per master
- Residential, offices, Light commercial, gym, hotel
- Replacement and new building
- Possible terminals:
  - Cooling floor (23-18 °C)
  - Fan coils (12-7 °C)

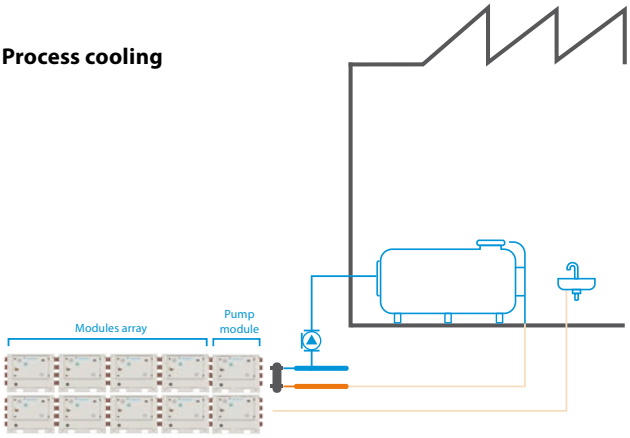
Process cooling

- Dedicated or centralized cooling according to project's needs. Units can be managed in master / slave up to an array of 4 modules per master
- Milk cooling (9-4 °C)
- Refrigerated warehouse (-8 to -12 °C, with glycol)
- MRI cooling, and many others

Comfort cooling



Process cooling



EWWT-Q-XS

- Daikin scroll compressors with R-32 refrigerant
- Modular design: 8 modules can be combined in two stacked arrays of 4 for a capacity range from 200 to 1.280 kW
- 2 sound configurations: Standard and Reduced noise version suitable for outdoor installation
- Single power supply for the array of modules available as option
- Manifold kit connects modules on the water side making it a plug & play solution

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

EWWR-Q-XS

Model				EWWT-Q-XS	100	125	160
Cooling performances	Cooling Capacity (1)			kW	96,36	124,4	166,0
	Power input - cooling (1)			kW	20,99	27,95	34,44
	EER				4,59	4,45	4,82
	SEER (1)(2)				6,40	6,54	6,49
	ηs,c (3)			%	253,0	258,6	256,6
	SEPR (1)(4)				7,99	8,36	8,72
	IPLV				7,15	7,12	7,41
	Evaporator	Flow rate (1)		l/s	4,60	5,93	7,92
		Pressure drop (1)		kPa	19,35	20,00	22,1
	Condenser	Flow rate (1)		l/s	5,60	7,26	9,55
		Pressure drop (1)		kPa	27,81	28,00	33,60
Heating performances	Heating Capacity (5)			kW	110,2	142,8	186,7
	Power input - Heating (5)			kW	26,11	34,49	42,53
	COP (5)				4,22	4,14	4,39
	SCOP	Low Temperature (6)			5,98	6,08	6,31
		High Temperature (7)			4,72	4,81	4,94
	ηs,c (7)(8)			%	180,8	184,4	189,6
	Evaporator	Flow rate (5)		l/s	6,73	8,67	11,5
		Pressure drop (5)		kPa	39,2	38,5	43,5
	Condenser	Flow rate (5)		l/s	5,27	6,82	8,92
		Pressure drop (5)		kPa	24,9	25,1	29,7
General	Sound Power (1) – Lw			dB(A)	81	84	86
	Number of circuits / Compressors					1 / 2	
	Weight	Unit		kg	419	469	531
		Operation weight		kg	439	491	561
	Unit	Running Current (1)		A	36,6	44,2	52,6
		Max Running Current		A	62	80	97
		Max Current Wires Sizing		A	68	88	107

(1) Standard Rating Conditions for Water-to-Water chillers according to EN14511:2 Outdoor Heat exchanger inlet temperature 30°C, outlet 35°C; Indoor heat exchanger inlet temperature 12°C, outlet temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Water-to-Water units, fan coil application, variable outlet, fixed flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,08).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Water-to-Water units, high temperature application.
(5) Standard Rating Conditions for Water-to-Water heat pumps intermediate applications according to EN14511:2 Outdoor Heat exchanger inlet temperature 10°C, outlet 7°C; Indoor heat exchanger inlet temperature 40°C, outlet water temperature 45°C. Fluid: water, Fouling factor = 0
(6) Seasonal Coefficient of performance as defined in EN14825, part load condition in heating for Water-to-Water units, Low temperature application, variable outlet, variable flow.
(7) Seasonal Coefficient of performance as defined in EN14825, part load condition in heating for Water-to-Water units, medium temperature application, variable outlet, variable flow.
(8) The seasonal space cooling energy efficiency ηs,h is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SCOP divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,08).

EWWT-Q-XR

- Daikin scroll compressors with R-32 refrigerant
- Modular design: 8 modules can be combined in two stacked arrays of 4 for a capacity range from 200 to 1.280 kW
- 2 sound configurations: Standard and Reduced noise version suitable for outdoor installation
- Single power supply for the array of modules available as option
- Manifold kit connects modules on the water side making it a plug & play solution

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

EWWT-Q-XR

Model				EWWT-Q-XR	100	125	160
Cooling performances	Cooling Capacity (1)			kW	96,36	124,4	166,0
	Power input - cooling (1)			kW	20,99	27,95	34,44
	EER				4,590	4,450	4,820
	SEER (1)(2)				6,400	6,540	6,490
	ηs,c (3)			%	253,0	258,6	256,6
	SEPR (1)(4)				7,990	8,360	8,720
	IPLV				7,150	7,120	7,410
	Evaporator	Flow rate (1)		l/s	4,60	5,930	7,920
		Pressure drop (1)		kPa	19,35	20,00	22,1
	Condenser	Flow rate (1)		l/s	5,60	7,26	9,55
		Pressure drop (1)		kPa	27,81	28,00	33,60
Heating performances	Heating Capacity (5)			kW	110,2	142,8	186,7
	Power input - Heating (5)			kW	26,11	34,49	42,53
	COP (5)				4,220	4,140	4,390
	SCOP	Low Temperature (6)			5,980	6,080	6,310
		High Temperature (7)			4,720	4,810	4,940
	ηs,c (7)(8)			%	180,8	184,4	189,6
	Evaporator	Flow rate (5)		l/s	6,73	8,67	11,5
		Pressure drop (5)		kPa	39,2	38,5	43,5
	Condenser	Flow rate (5)		l/s	5,27	6,82	8,92
		Pressure drop (5)		kPa	24,9	25,1	29,7
General	Sound Power (1) – Lw			dB(A)	75	78	80
	Number of circuits / Compressors				1 / 2		
	Weight	Unit		kg	470	520	582
		Operation weight		kg	490	542	612
	Unit	Running Current (1)		A	36,6	44,2	52,6
		Max Running Current		A	62,0	80,0	97,0
		Max Current Wires Sizing		A	68,0	88,0	107

(1) Standard Rating Conditions for Water-to-Water chillers according to EN14511:2 Outdoor Heat exchanger inlet temperature 30°C, outlet 35°C; Indoor heat exchanger inlet temperature 12°C, outlet temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Water-to-Water units, fan coil application, variable outlet, fixed flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,08).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Water-to-Water units, high temperature application.
(5) Standard Rating Conditions for Water-to-Water heat pumps intermediate applications according to EN14511:2 Outdoor Heat exchanger inlet temperature 10°C, outlet 7°C; Indoor heat exchanger inlet temperature 40°C, outlet water temperature 45°C. Fluid: water, Fouling factor = 0
(6) Seasonal Coefficient of performance as defined in EN14825, part load condition in heating for Water-to-Water units, Low temperature application, variable outlet, variable flow.
(7) Seasonal Coefficient of performance as defined in EN14825, part load condition in heating for Water-to-Water units, medium temperature application, variable outlet, variable flow.
(8) The seasonal space cooling energy efficiency ηs,h is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SCOP divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,08).

EWHT-Q-XS

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

EWHT-Q-XS

Model				EWHT-Q-XS	160
Cooling performances	Cooling Capacity (1)			kW	91,68
	Power input - cooling (1)			kW	21,22
	EER				4,320
	SEER (1)(2)				5,980
	ηs,c (3)			%	236,2
	SEPR (1)(4)				7,470
	IPLV				6,660
	Evaporator	Flow rate (1)		l/s	4,37
		Pressure drop (1)		kPa	17,70
	Condenser	Flow rate (1)		l/s	5,39
		Pressure drop (1)		kPa	25,90
Heating performances	Heating Capacity (5)			kW	106,0
	Power input - Heating (5)			kW	26,30
	COP (5)				4,030
	SCOP	Low Temperature (6)			5,780
		High Temperature (7)			4,550
	ηs,c (7)(8)			%	174,0
	Evaporator	Flow rate (5)		l/s	6,38
		Pressure drop (5)		kPa	35,40
	Condenser	Flow rate (5)		l/s	5,07
		Pressure drop (5)		kPa	23,20
General	Sound Power (1) – Lw			dB(A)	81
	Number of circuits / Compressors				1 / 2
	Weight	Unit		kg	431
		Operation weight		kg	451
	Unit	Running Current (1)		A	36,9
		Max Running Current		A	62,0
		Max Current Wires Sizing		A	68,0

(1) Standard Rating Conditions for Water-to-Water chillers according to EN14511:2 Outdoor Heat exchanger inlet temperature 30°C, outlet 35°C; Indoor heat exchanger inlet temperature 12°C, outlet temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Water-to-Water units, fan coil application, variable outlet, fixed flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,08).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Water-to-Water units, high temperature application.
(5) Standard Rating Conditions for Water-to-Water heat pumps intermediate applications according to EN14511:2 Outdoor Heat exchanger inlet temperature 10°C, outlet 7°C; Indoor heat exchanger inlet temperature 40°C, outlet water temperature 45°C. Fluid: water, Fouling factor = 0
(6) Seasonal Coefficient of performance as defined in EN14825, part load condition in heating for Water-to-Water units, Low temperature application, variable outlet, variable flow.
(7) Seasonal Coefficient of performance as defined in EN14825, part load condition in heating for Water-to-Water units, medium temperature application, variable outlet, variable flow.
(8) The seasonal space cooling energy efficiency ηs,h is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SCOP divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,08).

EWHT-Q-XR

- Daikin scroll compressors with R-32 refrigerant
- Modular design: 8 modules can be combined in two stacked arrays of 4 for a capacity range from 200 to 1.280 kW
- 2 sound configurations: Standard and Reduced noise version suitable for outdoor installation
- Single power supply for the array of modules available as option
- Manifold kit connects modules on the water side making it a plug & play solution

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

EWHT-Q-XR

Model				EWHT-Q-XR	100
Cooling performances	Cooling Capacity (1)			kW	91,68
	Power input - cooling (1)			kW	21,22
	EER				4,320
	SEER (1)(2)				5,980
	ηs,c (3)			%	236,2
	SEPR (1)(4)				7,470
	IPLV				6,660
	Evaporator	Flow rate (1)		l/s	4,37
		Pressure drop (1)		kPa	17,70
	Condenser	Flow rate (1)		l/s	5,39
		Pressure drop (1)		kPa	25,90
Heating performances	Heating Capacity (5)			kW	106,0
	Power input - Heating (5)			kW	26,30
	COP (5)				4,030
	SCOP	Low Temperature (6)			5,780
		High Temperature (7)			4,550
	ηs,c (7)(8)			%	174,0
	Evaporator	Flow rate (5)		l/s	6,38
		Pressure drop (5)		kPa	35,40
	Condenser	Flow rate (5)		l/s	5,07
		Pressure drop (5)		kPa	23,20
General	Sound Power (1) – Lw			dB(A)	75
	Number of circuits / Compressors				1 / 2
	Weight	Unit		kg	482
		Operation weight		kg	502
	Unit	Running Current (1)		A	36,9
		Max Running Current		A	62,0
		Max Current Wires Sizing		A	68,0

(1) Standard Rating Conditions for Water-to-Water chillers according to EN14511:2 Outdoor Heat exchanger inlet temperature 30°C, outlet 35°C; Indoor heat exchanger inlet temperature 12°C, outlet temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Water-to-Water units, fan coil application, variable outlet, fixed flow.
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(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Water-to-Water units, high temperature application.
(5) Standard Rating Conditions for Water-to-Water heat pumps intermediate applications according to EN14511:2 Outdoor Heat exchanger inlet temperature 10°C, outlet 7°C; Indoor heat exchanger inlet temperature 40°C, outlet water temperature 45°C. Fluid: water, Fouling factor = 0
(6) Seasonal Coefficient of performance as defined in EN14825, part load condition in heating for Water-to-Water units, Low temperature application, variable outlet, variable flow.
(7) Seasonal Coefficient of performance as defined in EN14825, part load condition in heating for Water-to-Water units, medium temperature application, variable outlet, variable flow.
(8) The seasonal space cooling energy efficiency ηs,h is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SCOP divided by the conversion coefficient CC (2,5), corrected by contributions accounting for temperature control (0,08).

EWWD-J-SS

- Compact design to allow easy indoor installation or retrofit operations
- Daikin semi-hermetic single screw stepless compressor
- High energy efficiency both at full and part load conditions
- Chilled water temperatures down to -10°C on standard unit
- Optimised for use with R-134a
- MicroTech 4 controller with superior control logic and easy interface
- Available with low GWP refrigerant (R-1234ze and R-513A)

EWWD-J-SS

Microtech 4

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

EWWD-J-SS

Cooling & Heating				EWWD-J-SS	120	140	150	180	210	250	280
Cooling capacity	Nom.			kW	120	146	154	177	207	255	284
Heating capacity	Nom.			kW	144	175	190	218	252	308	347
Capacity control	Method				Stepless						
	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	27,7	33,7	39,2	44,9	50,1	59,7	69,7
EER					4,28	4,28	3,91	3,92	4,11	4,26	4,06
SEER					3,89	4,74	4,58	4,59	4,81	5,09	4,42
COP					5,2	5,20	4,84	4,85	5,04	5,17	4,98
IPLV					5,18	5,06		5,05	5,16	5,70	4,88
Space heating	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	168	166	158		162	170	160
			SCOP		4,40	4,34	4,14	4,15	4,24	4,46	4,21
		A Condition (-7°CDB/-8°CWB)	Pdh	kW	144,7	176,0	190,2	218,3	252,8	309,1	347,8
			COPd		5,2		4,8		5,0	5,2	5,0
			Cdh (Degradation heating)		0,9						
Dimensions	Unit	HeightxWidthxDepth		mm	1.020x913x2.684						
Weight	Unit			kg	1.177	1.233	1.334	1.366	1.416	1.6	1.607
	Operation weight			kg	1.211	1.276	1.378	1.415	1.473	1.663	1.675
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	20	26	
Water 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	Cooling	Nom.	kPa	15	14	43	40	35	28	34
		Heating	Nom.	kPa	15	14	43	40	35	28	34
Water heat exchanger - condenser	Type				Single pass shell and tube						
	Water volume			l	20	20	23	25	29	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	Cooling	Nom.	kPa	20	13	11		15	17	27
		Heating	Nom.	kPa	20	13	11		15	17	27
Compressor	Type				Screw						
	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/TCO$_2$Eq	18,0/25,7	35,0/50,1	34,0/48,6	37,0/52,9		38,0/54,3	
Piping connections	Evaporator water inlet/outlet (OD)			mm	76,2						
	Condenser water inlet/outlet (OD)			inch	2" 1/2	4"					
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						
Unit	Starting current	Max		A	151		195			288	
	Running current	Cooling	Nom.	A	48	57	67	74	83	97	109
		Max		A	85	103	114	130	154	178	201

EWWH-J-SS

- 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 -5°C on standard unit
- MicroTech 4 controller with superior control logic and easy interface
- Optimised for use with R-1234ze(E)

HFO R-1234ze(E)

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

EWWH-J-SS

Cooling & Heating				EWWH-J-SS	90	110	120	130	150	180	200
Cooling capacity	Nom.			kW	89	107	115	133	150	181	201
Heating capacity	Nom.			kW	105	129	138	160	180	218	243
Capacity control	Method				Stepless						
	Minimum capacity			%	25,0						
Power input	Cooling	Nom.		kW	20,9	25,3	28,5	33,2	37,3	44,3	50,2
	Heating	Nom.		kW	21	25,5	28,8	33,5	37,6	44,8	50,7
EER					4,24	4,23	4,04	4,03	4,03	4,10	4,00
SEER					3,53	3,53	3,47	3,50	3,50	4,09	4,03
COP					5,03	5,07	4,81	4,78	4,81	4,88	4,80
IPLV					4,42	4,48	4,3	4,32	4,3	4,98	4,88
Space heating	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	149,6	148	142	142,4	143,2	147,6	144,4
			SCOP		3,94	3,89	3,75	3,75	3,77	3,89	3,8
		A Condition (-7°CDB/-8°CWB)	Pdh	kW	101,48	122,07	132,76	153,96	172,49	213,18	237,49
			COPd		3,56	3,54	3,39	3,38	3,35	3,31	3,26
			Cdh (Degradation heating)		0,9						
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 volume			l	14	18	14	17	20	26	
Water heat exchanger - evaporator	Water flow rate	Nom.		l/s	4,23	5,11	5,49	6,37	7,16	8,66	9,58
	Water pressure drop	Cooling	Nom.	kPa	9,1	9,8	8,7	9,1	8,9	12,3	12,1
		Heating	Nom.	kPa	9,1	9,8	8,7	9,1	8,9	12,3	12,1
Water heat exchanger - condenser	Type				Single pass shell and tube						
	Water volume			l	20	20	23	25	29	29	32
	Water flow rate	Nom.		l/s	5,17	6,32	6,79	7,84	8,86	10,7	11,9
	Water pressure drop	Cooling	Nom.	kPa	9,1	9,8	8,7	9,1	8,9	12,3	12,1
		Heating	Nom.	kPa	9,1	9,8	8,7	9,1	8,9	12,3	12,1
Compressor	Type				Screw						
	Quantity				1						
Sound power level	Cooling	Nom.		dBA	89						
Sound pressure level	Cooling	Nom.		dBA	79						
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-5~20						
	Condenser	Cooling	Min.~Max.	°CDB	23~75						
Refrigerant	Type/GWP				R-1234ze(E)/1,4						
	Circuits	Quantity			1						
Refrigerant charge				kg/TCO$_2$Eq	18,0/25,7	35,0/50,1	34,0/48,6	37,0/52,9		38,0/54,3	
Piping connections	Evaporator water inlet/outlet (OD)			mm	76,2						
	Condenser water inlet/outlet (OD)			inch	2" 1/2	4"					
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						
Unit	Starting current	Max		A	153		197			290	
	Running current	Cooling	Nom.	A	39	44	55	60	65	76	84
		Max		A	75	90	100	114	143	158	178

EWWS-J-SS

- 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
- MicroTech 4 controller with superior control logic and easy interface
- Optimised for use with R-513A

EWWS-J-SS

Microtech 4

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

EWWS-J-SS

Cooling & Heating				EWWS-J-SS	120	140	150	180	210	240	270
Cooling capacity	Nom.			kW	115	136	154	181	207	241	272
Heating capacity	Nom.			kW	140	171	192	221	248	303	338
Capacity control	Method				Stepless						
	Minimum capacity			%	25,0						
Power input	Cooling	Nom.		kW	30,0	36,3	41,6	47,8	54,2	65,7	74,4
	Heating	Nom.		kW	30,2	36,6	42,2	48,4	54,9	66,4	75,4
EER					3,84	3,75	3,71	3,78	3,82	3,67	3,66
SEER					3,41	3,42	3,37	3,46	3,47	3,91	3,88
COP					4,64	4,68	4,55	4,56	4,51	4,56	4,48
IPLV					4,14	4,2	4,1	4,14	4,16	4,66	4,61
Space heating	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	136,4	132,4	131,6	134,0	135,2	132,0	132,0
			SCOP		3,61	3,51	3,49	3,55	3,58	3,5	3,49
		A Condition (-7°CDB/-8°CWB)	Pdh	kW	133,02	156,8	180,19	209,8	239,62	283,66	323,66
			COPd		3,25	3,17	3,16	3,22	3,2	3,02	3,03
			Cdh (Degradation heating)		0,9						
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 volume			l	14	18	14	17	20	26	
Water heat exchanger - evaporator	Water flow rate	Nom.		l/s	5,49	6,51	7,37	8,62	9,89	11,50	13,00
	Water pressure drop	Cooling	Nom.	kPa	17,1	16,8	32,7	33,4	31,8	28,0	34,7
		Heating	Nom.	kPa	17,1	16,8	32,7	33,4	31,8	28,0	34,7
Water heat exchanger - condenser	Type				Single pass shell and tube						
	Water volume			l	20	20	23	25	29	29	32
	Water flow rate	Nom.		l/s	6,87	8,38	9,37	10,8	12,1	14,8	16,5
	Water pressure drop	Cooling	Nom.	kPa	15	16,1	15,3	15,9	15,4	22,0	21,6
		Heating	Nom.	kPa	15	16,1	15,3	15,9	15,4	22,0	21,6
Compressor	Type				Screw						
	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	23~55						
Refrigerant	Type/GWP				R-513A/629,5						
	Circuits	Quantity			1						
Refrigerant charge				kg/TCO$_2$Eq	18,0/25,7	35,0/50,1	34,0/48,6	37,0/52,9		38,0/54,3	
Piping connections	Evaporator water inlet/outlet (OD)			mm	76,2						
	Condenser water inlet/outlet (OD)			inch	2" 1/2	4"					
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						
Unit	Starting current	Max		A	154		198			291	
	Running current	Cooling	Nom.	A	50	60	70	78	87	105	117
		Max		A	81	96	108	122	141	164	185

The highest peak in chiller and heat pump technology

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

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

Single compressor

440 kW - 1.050 kW with R-134a or R-513A
330 kW – 790 kW with R-1234ze

Dual compressor & dual circuit unit

1.170 kW - 2.070 kW with R-134a or R-513A
865 kW - 1.540 kW with R-1234ze

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

VZ CHILLER SERIES

Full inverter water to water chiller and heat pump

INVERTER

Highest efficiency in the market in its category

TOP CLASS EFFICIENCY

New condenser design with integral oil separator

High efficient flooded heat exchangers

Unique Daikin single screw compressor technology

Performance monitoring

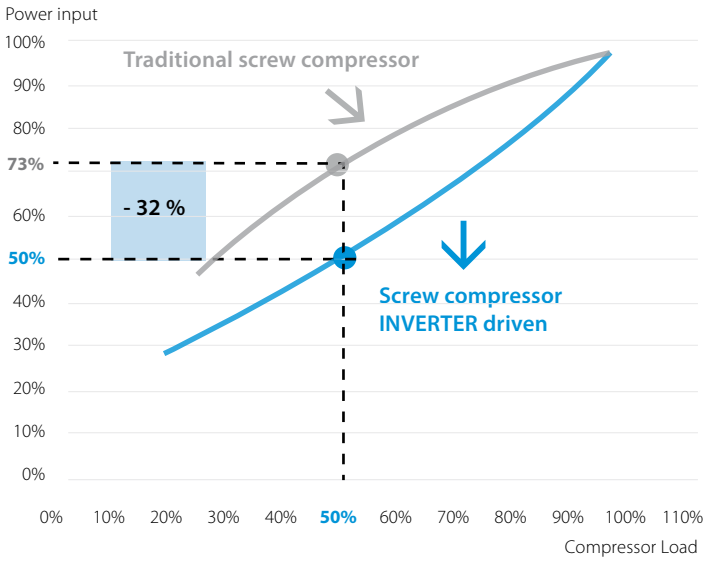
With MT4, advanced algorithm implementation in the unit controller are possible, such as the **Performance Monitoring** (Option 186). This sensor-less algorithm calculates the unit cooling capacity by using refrigerant pressure and temperature readings. Electrical power is calculated either from compressor VFD power and fan, or directly measured through optional energy meter. As a standard(*), **no extra-hardware is required.**

Why choose VZ chiller and heat pump series?

1 Top class efficiency

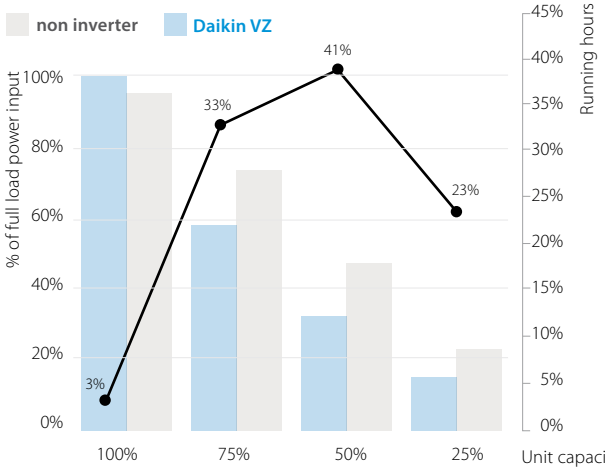
New generation Daikin inverter single screw compressors

Importance of SEER and SCOP:
Power consumption significantly reduced at part loads where the machine will run for 97% of the operation hours (Eurovent load profile)



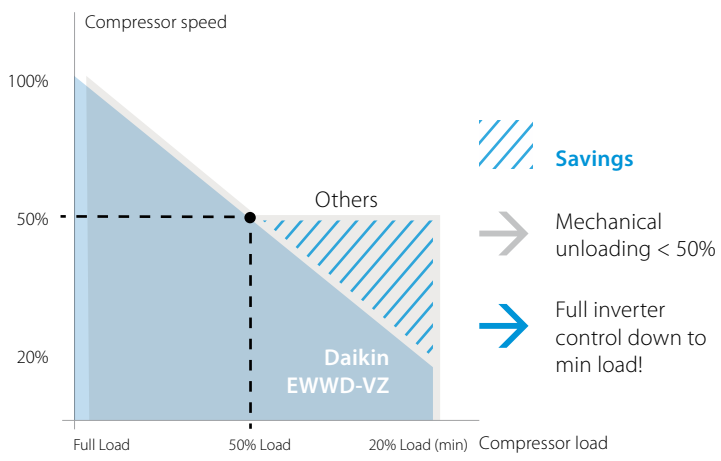
Why choose an inverter chiller and heat pump?

- -25% energy consumption
- -25% CO_2 emissions
- -25% running costs
- Return on investment < 2 years vs non-inverter unit



Why are we better than others?

- Full inverter capacity control down to 20%
- No inefficient mechanical unloading slides



New generation high efficiency heat exchangers

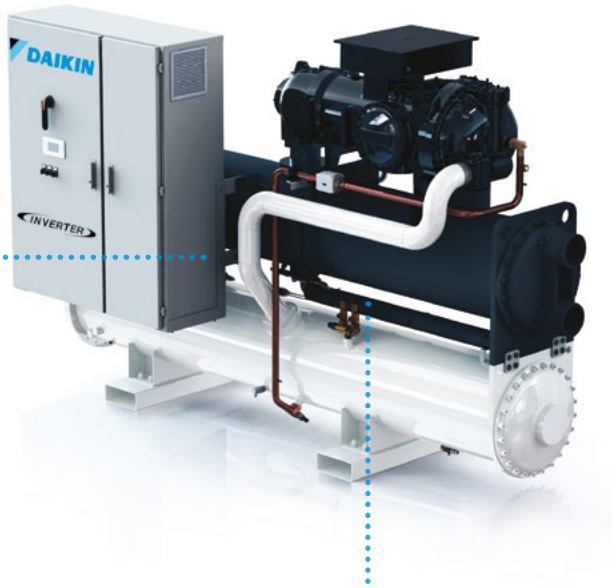
- Flooded type technology allowing maximizing unit performances
- Latest technology enhanced surface tubes

Evaporator tubes:

- Outside: Cavities for optimized nucleate boiling
- Inside: Helical structure

Condenser tubes:

- Outside: Optimized for condensation
- Inside: Helical structure



Optimized design

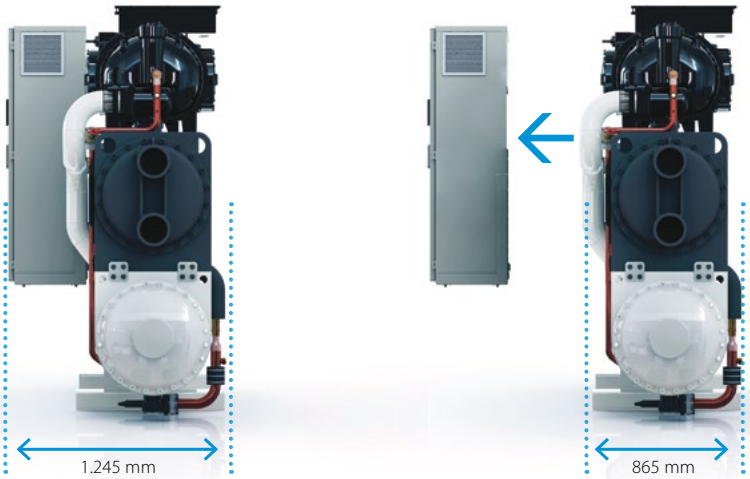
Pressure drops reduced by half

- meaning 1°C lower condensing temperature
- + 3,5 % efficiency

Did you know that you can maximize your BREEAM and programme score and LEED green building programme score with the Daikin HVAC solutions?

2 Compact unit

- Small footprint, ideal for installation through existing doorways

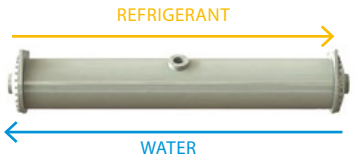


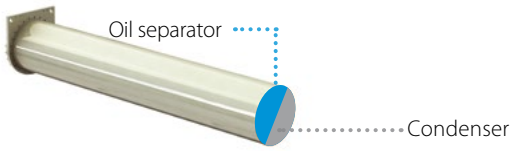
Width reduced below 900mm
with knock down panel options*
* 900 kW unit size

40 % footprint reduction in comparison to traditional water to water series thanks to:

1. New single pass condenser technology
- High heat exchange performances thanks to couterflow design
- Low water pressure drops < 30 kPa

2. New integrated oil separator technology
- Low oil carry over
- Low refrigerant pressure drops

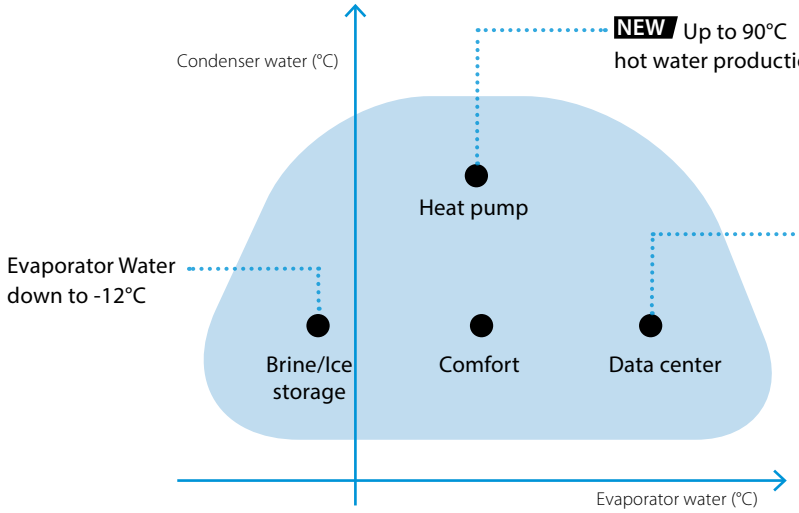




3 Application flexibility

Widest operating envelope in its range:
The large operation range makes this unit ideal for a variety of applications:

UNIQUE SOLUTION

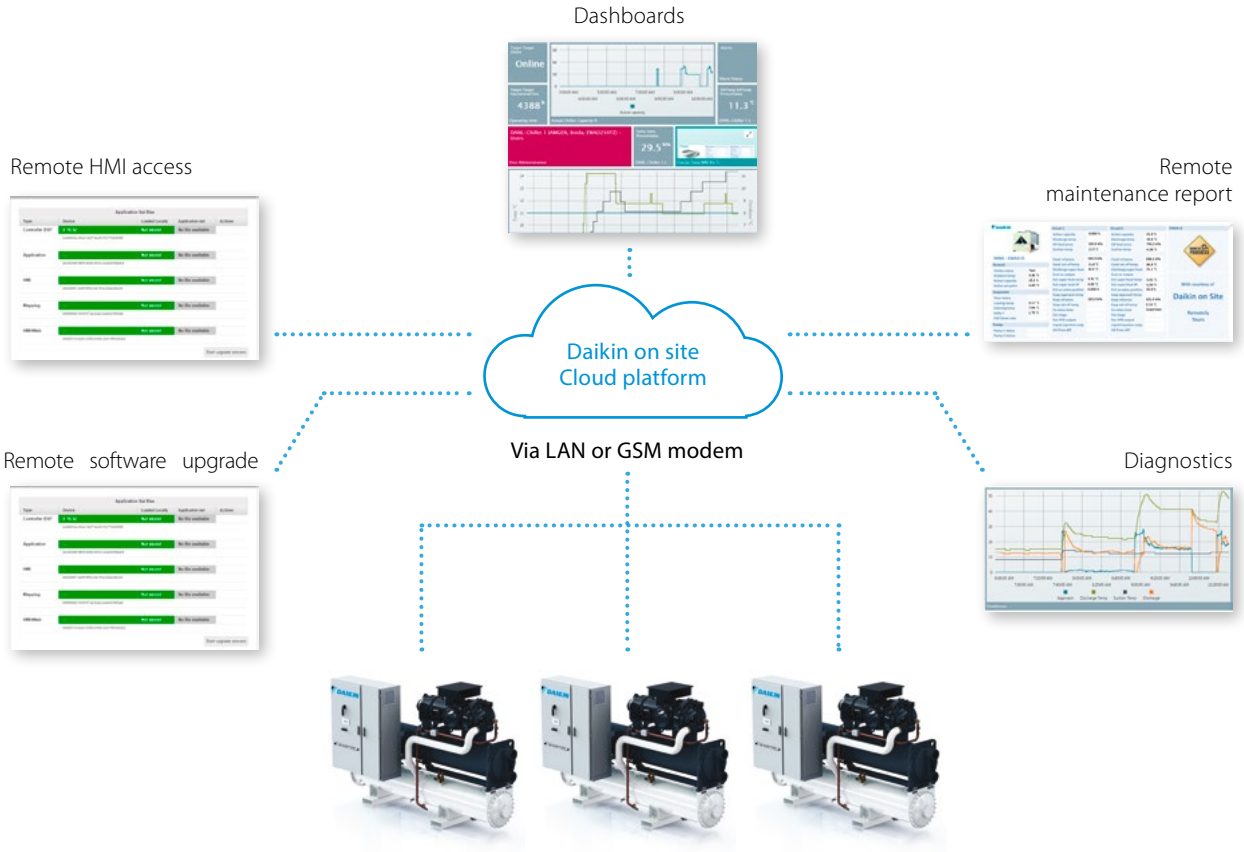


**Widest operating envelope in its category…
not only for comfort cooling**

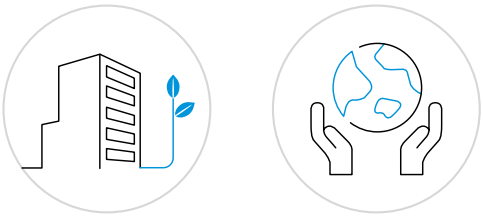
4 Connectivity

Remote access with one click

- Remote monitoring
- System optimization
- Preventive maintenance



5 Future readiness: Choose for today's best solution and be ready for the future!



Flexible refrigerant selection to suit specific operational needs

R-134a R-513A R-1234ze

EWWD-VZSS

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

EWWD-VZ-SS/XS/PS

Microtech 4

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

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			%	20					10						
EER					5,5	5,31	5,3	5,52	5,29	5,07	5,11	5	4,93	5,08	4,93	5,08
IPLV					9,43	9,36	9,4	9,37	9,4	9,52	9,56	9,57	9,36	9,7	9,38	9,65
Dimensions	Unit	Height		mm	2.123			2.292	2.487	2.296				2.350	2.338	2.498
		Width		mm	1.178	1.179		1.233	1.303	1.484	1.487		1.484	1.580	1.627	1.753
		Depth		mm	3.722	3.750		3.690	3.822	4.792				4.508		4.750
Weight	Unit			kg	2.892	2.928	2.941	3.451	4.237	5.570	5.790	5.820	6.220	6.890	7.260	8.260
	Operation weight			kg	2.977	3.033	3.053	3.611	4.488	5.980	6.220	6.290	6.690	7.480	7.830	9.070
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	88		96	134	156	230		270		320		380
	Water flow rate	Cooling	Nom.	l/s	29,2	33,8	36,3	42,9	49,9	56,2	61,7	66,1	74,4	82,5	89,9	98,2
	Water pressure drop	Cooling	Nom.	kPa	79	106	88	98	102	69	84	70	89	78	92	80
Water heat exchanger - condenser	Type				Shell and tube											
	Water volume			l	81	102		126	217	180	200			270	250	430
	Water flow rate	Cooling	Nom.	l/s	35,3	41	44,1	51,9	60,6	69,1	75,8	81,5	91,9	101	111	120
	Water pressure drop	Cooling	Nom.	kPa	31	29	33	29	33	44	39	45	66	42	55	37
Compressor	Type				Screw inverter											
	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	Evaporator water inlet/outlet (OD)			mm	139,7			168,3	219,1							
	Condenser water inlet/outlet (OD)			mm	168,3			219,1		168,3 / 168,3				219,1 / 219,1		
Unit	Starting current	Max		A	179	214	245	295	344	-						
	Running current	Cooling	Nom.	A	171	202	220	249	300	349	379	414	470	508	566	604
		Max		A	256	306	350	421	491	553	555	612	727	810	926	1.009
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

EWWD-VZXS

- 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

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

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													
	Minimum capacity			%	20							10						
EER					5,53	5,58	5,64	5,54	5,43	5,67	5,46	5,38	5,34	5,36	5,38	5,31	5,23	5,25
IPLV					9,42	9,59	9,52	9,66	9,64	9,48	9,58	9,66	9,67	9,76	9,74	9,82	9,68	9,7
Dimensions	Unit	Height		mm	2.135		2.123	2.235		2.487		2.296		2.301	2.350	2.500	2.469	2.493
		Width		mm	1.178		1.179	1.189		1.303		1.484	1.639	1.579	1.580	1.610	1.704	1.769
		Depth		mm	3.722		3.750	3.690		3.822		4.792		4.508		4.750	4.874	
Weight	Unit			kg	2.968	2.911	3.102	3.470	3.451	4.257	4.552	5.860	6.240	6.520	6.920	7.530	7.790	8.670
	Operation weight			kg	3.098	3.006	3.274	3.648	3.611	4.518	4.860	6.370	6.760	7.130	7.530	8.300	8.560	9.630
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume			l	70	88	136	134		168	199	270		320		380	480	
	Water flow rate	Cooling	Nom.	l/s	21,5	24	29,3	34,1	38	43,2	50,4	57,1	62,5	67,3	76,3	83,6	91,4	99,2
	Water pressure drop	Cooling	Nom.	kPa	89	63	59	63	55	67	59	52	62	52	67	58	49	58
Water heat exchanger - condenser	Type				Shell and tube													
	Water volume			l	81	92	126	145	126	217	241	240	250	290		390	290	480
	Water flow rate	Cooling	Nom.	l/s	26,4	29,4	35,3	41,2	46,1	52	61	69,8	76,3	82,2	93,2	102	112	121
	Water pressure drop	Cooling	Nom.	kPa	31	28	22	20	24	25		28		21	32	27	37	28
Compressor	Type				Screw inverter													
	Quantity				1							2						
Sound power level	Cooling	Nom.		dBA	97	99	101	105			107	106		107		108	109	110
Sound pressure level	Cooling	Nom.		dBA	78	80	82	86			88	87		88		89		90
Operation range	Evaporator	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							2						
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7			168,3		219,1							273	
	Condenser water inlet/outlet (OD)			mm	168,3		219,1					168,3 / 219,1		219,1 / 219,1				
Unit	Starting current	Max		A	155	173	179	214	256	295	344	-						
	Running current	Cooling	Nom.	A	126	140	171	201	229	249	299	340	372	400	450	498	554	596
		Max		A	222	247	256	306	366	421	491	553	555	612	727	810	926	1.009
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

EWWD-VZPS

EWWD-VZ-SS/XS/PS

Microtech 4

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

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
	ηs,c			%	339,6	355,2	344,4	353,6	354	350
SEER					8,69	9,08	8,81	9,04	9,05	8,95
Cooling capacity	Nom.			kW	505	718	908	1.201	1.604	1.757
Power input	Cooling	Nom.		kW	85,1	124	153	218	291	326
Capacity control	Method				Variable					
	Minimum capacity			%	20			10		
EER					5,93	5,77	5,91	5,49	5,5	5,39
IPLV					9,61	9,68	9,57	9,79	9,82	9,92
Dimensions	Unit	Height		mm	2.108	2.430	2.487	2.302	2.500	2.493
		Width		mm	1.179	1.287	1.303	1.579	1.610	1.769
		Depth		mm	3.750	3.822		4.508	4.750	4.874
Weight	Unit			kg	3.247	4.082	4.346	6.310	7.530	8.250
	Operation weight			kg	3.375	4.349	4.660	6.900	8.300	9.200
Water heat exchanger - evaporator	Type				Flooded shell and tube					
	Water volume			l	96	168	199	320	380	480
	Water flow rate	Cooling	Nom.	l/s	24,2	34,3	43,4	57,4	76,7	84
	Water pressure drop	Cooling	Nom.	kPa	55	42	44	38	49	41
Water heat exchanger - condenser	Type				Shell and tube					
	Water volume			l	126	217	241	270	390	470
	Water flow rate	Cooling	Nom.	l/s	29,4	41,3	52,1	69,9	93,4	102
	Water pressure drop	Cooling	Nom.	kPa	16	17	19	21		28
Compressor	Type				Screw inverter					
	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	Evaporator water inlet/outlet (OD)			mm	139,7	219,1				273
	Condenser water inlet/outlet (OD)			mm	219,1			219,1 / 219,1		
Unit	Starting current	Max		A	173	214	295	-		
	Running current	Cooling	Nom.	A	138	200	247	338	447	497
		Max		A	247	306	421	553	727	810
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWWH-VZSS

- Optimized energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 75°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability
- HFO R-1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential

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

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											
	Minimum capacity			%	20					10						
EER					5,35	5,22	5,15	5,34	5,14	5,02	5	4,93	4,87	5,01	4,95	5,04
IPLV					9,25		9,24	9,48	9,32	8,94	9,08	9,13	9,14	9,3	9,13	9,34
Dimensions	Unit	Height		mm	2.123			2.292	2.487	2.296				2.350	2.338	2.498
		Width		mm	1.178	1.179		1.233	1.303	1.484	1.487		1.484	1.580	1.627	1.753
		Depth		mm	3.722	3.750		3.690	3.822	4.792				4.508		4.750
Weight	Unit			kg	2.892	2.928	2.941	3.451	4.237	5.570	5.790	5.820	6.220	6.890	7.260	8.260
	Operation weight			kg	2.977	3.033	3.053	3.611	4.488	5.980	6.220	6.290	6.690	7.480	7.830	9.070
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	88		96	134	156	230		270		320		380
	Water flow rate	Cooling	Nom.	l/s	21,2	24,5	26,2	31,5	36,8	41,4	45	48,4	54,6	60,8	66,8	72,9
	Water pressure drop	Cooling	Nom.	kPa	46	61	52	59	64	39	46	39	50	44	53	45
Water heat exchanger - condenser	Type				Shell and tube											
	Water volume			l	81	102		126	217	180	200			270	250	430
	Water flow rate	Cooling	Nom.	l/s	25,5	29,6	31,8	38,1	44,8	50,3	54,8	59	66,8	74	81,4	88,7
	Water pressure drop	Cooling	Nom.	kPa	19	17	20	19	17	25	22	25	38	25	32	18
Compressor	Type				Screw inverter											
	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-1234ze(E)/1,4											
	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	Evaporator water inlet/outlet (OD)			mm	139,7			168,3	219,1							
	Condenser water inlet/outlet (OD)			mm	168,3			219,1		168,3 / 168,3				219,1 / 219,1		
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											

EWWH-VZXS

- Optimized energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 90°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 R-1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential

EWWH-VZ-SS/XS/PS

Microtech 4

HFO R-1234ze(E)

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

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				Variable													
	Minimum capacity		%		20							10						
EER					5,44	5,48	5,53	5,42	5,29	5,49	5,37	5,23	5,16	5,19	5,22	5,19	5,16	
IPLV					8,51	8,79	9,46	9,51	9,47	9,63	9,65	9,19	9,27	9,46	9,37	9,52	9,23	9,5
Dimensions	Unit	Height	mm		2.135		2.123	2.235		2.487		2.296		2.301	2.350	2.500	2.469	2.493
		Width	mm		1.178		1.179	1.189		1.303		1.484	1.639	1.579	1.580	1.610	1.704	1.769
		Depth	mm		3.722		3.750	3.690		3.822		4.792		4.508		4.750	4.874	
Weight	Unit		kg		2.968	2.911	3.102	3.470	3.451	4.257	4.552	5.860	6.240	6.520	6.920	7.530	7.790	8.670
	Operation weight		kg		3.098	3.006	3.274	3.648	3.611	4.518	4.860	6.370	6.760	7.130	7.530	8.300	8.560	9.630
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume		l		70	88	136	134		168	199	270		320		380	480	
	Water flow rate	Cooling Nom.	l/s		15,8	17,5	21,4	24,9	27,7	31,8	37,7	41,9	45,5	49,1	55,9	61,6	67,9	73,6
	Water pressure drop	Cooling Nom.	kPa		54	38	35	37	31	39	36	29	34	28	37	32	28	33
Water heat exchanger - condenser	Water volume		l		81	92	126	145	126	217	241	240	250	290		390	290	480
	Water flow rate	Cooling Nom.	l/s		18,9	20,9	25,7	30	33,5	38,4	45,7	50,7	55,1	59,6	67,6	74,6	82,3	89,3
	Water pressure drop	Cooling Nom.	kPa		19	16	13	12	15	13	16			13	19	16	23	16
Compressor	Type				Screw inverter													
	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-1234ze(E)/1,4													
	Charge		kg		95		100	110	170		180	250	260	290		320		350
	Circuits	Quantity			1							2						
Piping connections	Evaporator water inlet/outlet (OD)		mm		139,7			168,3				219,1					273	
	Condenser water inlet/outlet (OD)		mm		168,3			219,1				168,3 / 219,1		219,1 / 219,1				
Unit	Running current	Cooling Nom.	A		96,0	106,0	129,0	151,0	173,0	187,0	226,0	259,0	284,0	304,0	341,0	379,0	421,0	454,0
		Max	A		178,0	199,0	213,0	246,0	275,0	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													

EWWH-VZPS

- 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 90°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 R-1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential

HFO R-1234ze(E)

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

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
		ηs,c		%	316,8	352,8	363,6	334,4	352,4	348,8
SEER					8,12	9,02	9,29	8,56	9,01	8,92
Cooling capacity	Nom.			kW	369	525	677	884	1.180	1.295
Power input	Cooling	Nom.		kW	64,7	94,9	119	166	221	247
Capacity control	Method				Variable					
	Minimum capacity			%	20			10		
EER					5,71	5,53	5,67	5,34	5,35	5,25
IPLV					9,13	9,68	9,96	9,37	9,56	9,61
Dimensions	Unit	Height		mm	2.108	2.430	2.487	2.302	2.500	2.493
		Width		mm	1.179	1.287	1.303	1.579	1.610	1.769
		Depth		mm	3.750	3.822		4.508	4.750	4.874
Weight	Unit			kg	3.247	4.082	4.346	6.310	7.530	8.250
	Operation weight			kg	3.375	4.349	4.660	6.900	8.300	9.200
Water heat exchanger - evaporator	Type				Flooded shell and tube					
	Water volume			l	96	168	199	320	380	480
	Water flow rate	Cooling	Nom.	l/s	17,7	25,1	32,3	42,2	56,4	61,9
	Water pressure drop	Cooling	Nom.	kPa	32	25	27	20	26	23
Water heat exchanger - condenser	Type				Shell and tube					
	Water volume			l	126	217	241	270	390	470
	Water flow rate	Cooling	Nom.	l/s	21,1	30,1	38,9	50,9	68	74,9
	Water pressure drop	Cooling	Nom.	kPa	9		12	13	12	16
Compressor	Type				Screw inverter					
	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-1234ze(E)/1,4					
	Charge			kg	100	150	180	290	320	350
	Circuits	Quantity			1				2	
Refrigerant circuit	Charge			kg	100	150	180	290	320	350
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7	219,1				273
	Condenser water inlet/outlet (OD)			mm	219,1				219,1 / 219,1	
Unit	Running current	Cooling	Nom.	A	104,0	150,0	185,0	257,0	338,0	378,0
		Max		A	199,0	246,0	277,0	445,0	523,0	649,0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

EWWS-VZSS

- 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
- 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
- R-513A Refrigerant with low Global Warming Potential

EWWS-VZ-SS/XS/PS

Microtech 4

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

EWWS-VZSS

Cooling only/Heating only				EWWS~VZSS	600	700	740	880	C10	C12	C13	C14	C15	C17	C18	C20
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	599,51	693,53	743,53	879,64	1.020,09	1.148,77	1.263,41	1.351,55	1.514,87	1.689,61	1.832,00	2.013,41
	ηs,c				316	314,4	313,2	320	313,2	321,2	314,8	312	297,6	313,6	304	318,4
SEER					8,1	8,06	8,03	8,2	8,03	8,23	8,07	8	7,64	8,04	7,8	8,16
Cooling capacity	Nom.			kW	600	694	744	880	1.020	1.149	1.263	1.352	1.515	1.690	1.832	2.013
Power input	Cooling	Nom.		kW	120	143	154	175	212	251	273	301	343	367	413	437
Capacity control	Method				Variable											
	Minimum capacity			%	20	20	20	20	20	10	10	10	10	10	10	10
EER					4,99	4,84	4,81	5,02	4,8	4,56	4,61	4,49	4,42	4,6	4,43	4,61
IPLV					9,02	9,15	9,15	8,84	8,88	9,03	9,31	9,2	8,9	9,15	8,87	9,05
Dimensions	Unit	Height		mm	2.123	2.123	2.123	2.292	2.487	2.296	2.296	2.296	2.296	2.350	2.338	2.498
		Width		mm	1.178	1.179	1.179	1.233	1.303	1.484	1.487	1.487	1.484	1.580	1.627	1.753
		Depth		mm	3.722	3.750	3.750	3.690	3.822	4.792	4.792	4.792	4.792	4.508	4.508	4.750
Weight	Unit			kg	2.892	2.928	2.941	3.451	4.237	5.570	5.790	5.820	6.220	6.890	7.260	8.260
	Operation weight			kg	2.977	3.033	3.053	3.611	4.488	5.980	6.220	6.290	6.690	7.480	7.830	9.070
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	88	88	96	134	156	230	230	270	270	320	320	380
	Water flow rate	Cooling	Nom.	l/s	28,7	33,3	35,7	42,2	48,9	55	60,6	64,7	72,6	80,9	87,8	96,4
	Water pressure drop	Cooling	Nom.	kPa	80	108	89	100	103	69	85	70	89	79	92	81
Water heat exchanger - condenser	Type				Shell and tube											
	Water volume			l	81	102	102	126	217	180	200	200	200	270	250	430
	Water flow rate	Cooling	Nom.	l/s	34,5	40,1	43,2	50,6	59,3	67,1	73,7	79,2	89	98,7	107	117
	Water pressure drop	Cooling	Nom.	kPa	31	29	32	29	33	43	38	44	64	41	53	36
Compressor	Type				Screw inverter											
	Quantity				1	1	1	1	1	2	2	2	2	2	2	2
Sound power level	Cooling	Nom.		dBA	101	105	105	105	107	106	106	107	107	108	108	110
Sound pressure level	Cooling	Nom.		dBA	82	86	86	86	88	87	87	88	88	89	89	90
Refrigerant	Type/GWP				R-513A/629,5											
	Charge			kg	100	110	110	170	180	250	260	270	290	295	320	350
	Circuits	Quantity			1	1	1	1	1	2	2	2	2	2	2	2
Piping connections	Evaporator water inlet/outlet			mm	139,7	139,7	139,7	168,3	219,1	219,1	219,1	219,1	219,1	219,1	219,1	219,1
	Condenser water inlet/outlet (OD)			mm	168,3	168,3	168,3	219,1	219,1	168,3/ 168,3	168,3/ 168,3	168,3/ 168,3	168,3/ 168,3	219,1/ 219,1	219,1/ 219,1	219,1/ 219,1
Unit	Starting current	Max			-	-	-	-	-	-	-	-	-	-	-	-
	Running current	Cooling	Nom.	A	182	212	233	261	319	370	401	439	496	536	600	637
Unit	Running current	Max			246	293	315	358	437	492	537	585	651	730	795	875
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

Performance according to CSS software 10.28

Cooling is referred to the following conditions: evaporator 12/7°C; condenser 30/35°C

EWWS-VZXS

- 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
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- 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
- R-513A Refrigerant with low Global Warming Potential

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

EWWS-VZXS

Cooling only/Heating only				EWWS~VZXS	450	490	600	700	780	890	C10	C12	C13	C14	C16	C17	C19	C20
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	441,23	493,3	605,33	704,66	783,15	888,49	1.038,69	1.178,53	1.287,26	1.390,42	1.570,18	1.725,3	1.876,19	2.045,68
	ηs,c			%	306,4	313,6	328,4	329,2	328	328,4	328,8	331,2	326,4	329,2	331,2	326,4	323,2	326,8
SEER					7,86	8,04	8,41	8,43	8,4	8,41	8,42	8,48	8,36	8,43	8,48	8,36	8,28	8,37
Cooling capacity	Nom.			kW	441	493	605	705	783	889	1039	1179	1287	1390	1570	1725	1876	2046
Power input	Cooling	Nom.		kW	87,8	96,8	116	138	157	171	207	239	263	282	319	354	396	425
Capacity control	Method				Variable													
	Minimum capacity			%	20	20	20	20	20	20	20	10	10	10	10	10	10	10
EER					5,02	5,1	5,18	5,09	4,97	5,19	5	4,93	4,88	4,92	4,91	4,87	4,73	4,81
IPLV					8,87	9,01	9,29	9,43	9,39	8,96	9,27	9,23	9,48	9,42	9,39	9,3	9,15	9,17
Dimensions	Unit	Height		mm	2.135	2.135	2.123	2.235	2.235	2.487	2.487	2.296	2.296	2.301	2.350	2.500	2.469	2.493
		Width		mm	1.178	1.178	1.179	1.189	1.189	1.303	1.303	1.484	1.639	1.579	1.580	1.610	1.704	1.769
		Depth		mm	3.722	3.722	3.750	3.690	3.690	3.822	3.822	4.792	4.792	4.508	4.508	4.750	4.874	4.874
Weight	Unit			kg	2.968	2.911	3.102	3.470	3.451	4.257	4.552	5.860	6.240	6.520	6.920	7.530	7.790	8.670
	Operation weight			kg	3.098	3.006	3.274	3.648	3.611	4.518	4.860	6.370	6.760	7.130	7.530	8.300	8.560	9.630
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume			l	70	88	136	134	134	168	199	270	270	320	320	380	480	480
	Water flow rate	Cooling	Nom.	l/s	21,2	23,6	29	33,7	37,5	42,6	49,7	56,4	61,6	66,5	75,2	82,6	89,7	97,9
	Water pressure drop	Cooling	Nom.	kPa	91	64	61	65	57	69	60	53	64	53	68	59	50	60
Water heat exchanger - condenser	Type				Shell and tube													
	Water volume			l	81	92	126	145	126	217	241	240	250	290	290	390	290	480
	Water flow rate	Cooling	Nom.	l/s	25,8	28,7	34,5	40,4	45,1	50,8	59,8	68	74,4	80,2	90,7	99,8	108	118
	Water pressure drop	Cooling	Nom.	kPa	31	27	22	20	24	25	25	28	28	21	32	27	36	27
Compressor	Type				Screw inverter													
	Quantity				1	1	1	1	1	1	1	2	2	2	2	2	2	2
Sound power level	Cooling	Nom.		dBA	97	99	101	105	105	105	107	106	106	107	107	108	109	110
Sound pressure level	Cooling	Nom.		dBA	78	80	82	86	86	86	88	87	87	88	88	89	89	90
Refrigerant	Type/GWP				R-513A/629,5													
	Charge			kg	95	95	130	110	170	210	185	250	260	290	290	320	320	350
	Circuits	Quantity		No.	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Piping connections	Evaporator water inlet/outlet			mm	139,7	139,7	139,7	168,3	168,3	219,1	219,1	219,1	219,1	219,1	219,1	219,1	273	273
	Condenser water inlet/outlet (OD)			mm	168,3	168,3	219,1	219,1	219,1	219,1	219,1	168,3/ 219,1	219,1/ 219,1	219,1/ 219,1	219,1/ 219,1	219,1/ 219,1	219,1/ 219,1	219,1/ 219,1
Unit	Starting current	Max			-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Running current	Cooling	Nom.	A	131	146	179	209	239	258	313	355	389	418	469	521	584	624
Unit	Running current	Max		A	179	200	246	293	331	358	437	492	537	585	651	730	795	875
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

Performance according to CSS software 10.28

Cooling is referred to the following conditions: evaporator 12/7°C; condenser 30/35°C

EWWS-VZPS

EWWS-VZ-SS/XS/PS

Microtech 4

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

EWWS-VZPS

Cooling only/Heating only				EWWS~VZPS	500	710	900	C12	C16	C17
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	500,08	710,8	898,24	1.187,65	1.585,78	1.735,47
	ηs,c			%	321,6	334	335,2	336,4	336,4	330
SEER					8,24	8,55	8,58	8,61	8,61	8,45
Cooling capacity	Nom.			kW	500	710	898	1188	1586	1735
Power input	Cooling	Nom.		kW	91,3	133	165	235	313	350
Capacity control	Method				Variable					
	Minimum capacity			%	20	20	20	10	10	10
EER					5,48	5,31	5,44	5,05	5,06	4,95
IPLV					9,13	9,48	9,17	9,36	9,48	9,39
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	3.822	4.508	4.750	4.874
Weight	Unit			kg	3.247	4.082	4.346	6.310	7.530	8.250
	Operation weight			kg	3.375	4.349	4.660	6.900	8.300	9.200
Water heat exchanger - evaporator	Type				Flooded shell and tube					
	Water volume			l	96	168	199	320	380	480
	Water flow rate	Cooling	Nom.	l/s	23,9	34	43	56,8	75,8	83
	Water pressure drop	Cooling	Nom.	kPa	57	44	46	39	50	42
Water heat exchanger - condenser	Type				Shell and tube					
	Water volume			l	126	217	241	270	390	470
	Water flow rate	Cooling	Nom.	l/s	28,9	40,6	51,1	68,3	91,1	100
	Water pressure drop	Cooling	Nom.	kPa	16	17	19	21	21	27
Compressor	Type				Screw inverter					
	Quantity				1	1	1	2	2	2
Sound power level	Cooling	Nom.		dBA	99	105	105	106	107	109
Sound pressure level	Cooling	Nom.		dBA	80	86	86	87	88	89
Refrigerant	Type/GWP				R-513A/629,5					
	Charge			kg	130	180	180	190	320	350
	Circuits	Quantity		No.	1	1	1	2	2	2
Piping connections	Evaporator water inlet/outlet			mm	139,7	219,1	219,1	219,1	219,1	273
	Condenser water inlet/outlet (OD)			mm	219,1	219,1	219,1	219,1/219,1	219,1/219,1	219,1/219,1
Unit	Starting current	Max			-	-	-	-	-	-
	Running current	Cooling	Nom.	A	143	208	255	352	464	519
Unit	Running current	Max		A	200	293	358	492	651	730
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

Performance according to CSS software 10.28

Cooling is referred to the following conditions: evaporator 12/7°C; condenser 30/35°C

DZ CHILLER SERIES

AVAILABLE ON

R-1234ze(E) platform

Single compressor

- From 320 kW up to 742 kW on R-134a platform
- From 227 kW up to 478 kW on R-1234ze(E) platform
- From 316 kW up to 729 kW on R-513A platform

R-134a platform

Dual compressor

- From 610 kW up to 1.478 kW on R-134a platform
- From 426 kW up to 942 on R-1234ze(E) platform
- From 609 kW up to 1.451 kW on R-513A platform

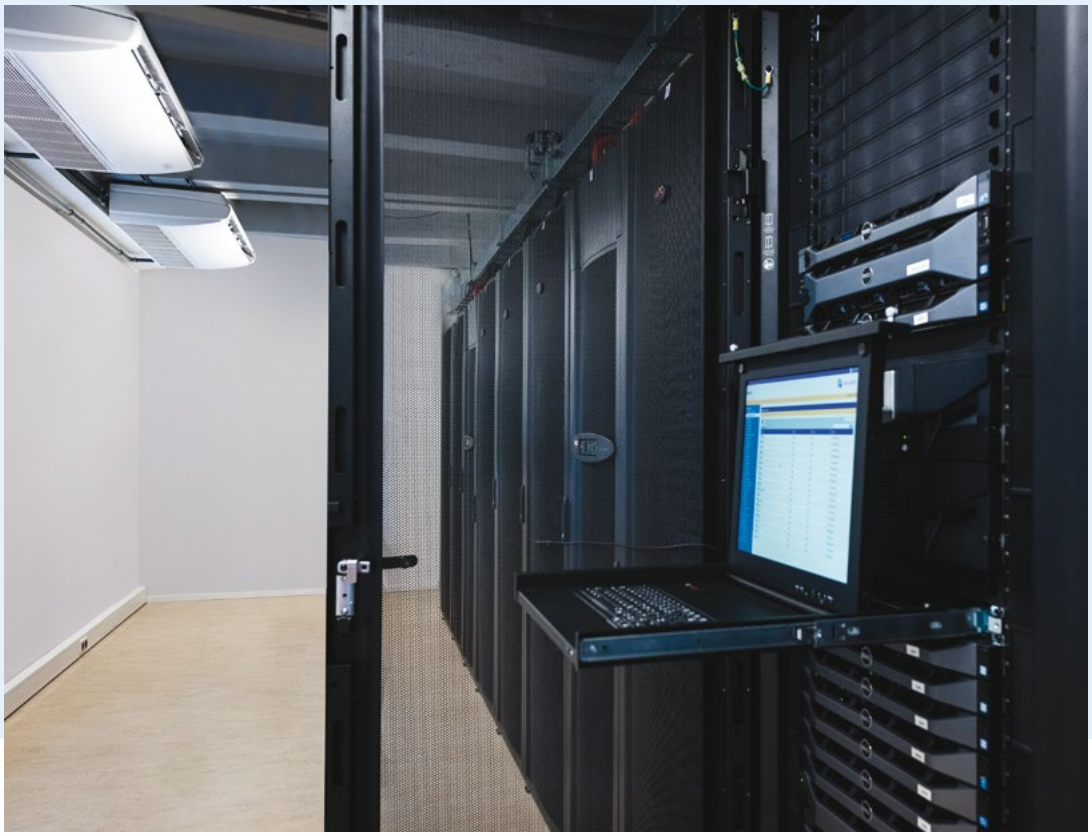
R-513A platform

Triple compressor

- From 1.038 kW up to 2.173 kW on R-134a platform
- From 741 kW up to 1.415 kW on R-1234ze(E) platform
- From 1.025 kW up to 2.129 kW on R-513A platform

Features

- Magnetic Bearing Oil Free Centrifugal compressors
- High efficiency flooded Heat Exchangers
- Application flexibility, suitable for both Dry Cooler and Cooling Tower applications
- App Ready for easy interface with remote smart device
- Compact design through stacked heat exchangers
- Heat pump version includes hot gas bypass
- Sound Proof Cabinet option
- Economizer availability on specific sizes
- Rapid Restart option
- Up to 3 compressors always in single circuit

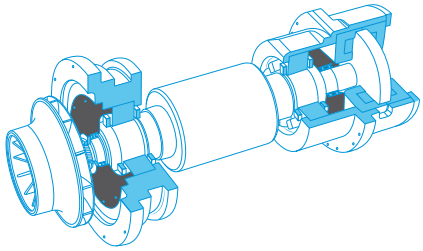


Why choose DZ chiller and heat pump series?

The DZ chiller and heat pump series incorporates a number of advanced technology features that are unique in the market.

Magnetic Bearing Technology

Fitted with centrifugal compressors utilizing frictionless magnetic bearings for oil-free operation, integrated variable-frequency drives, and high-speed direct drive technology.



Industry leading part load efficiency

The high efficiency compressor is matched with highly efficient heat exchangers to make an impressive chiller.

Increased reliability

The frictionless magnetic bearing design needs no oil management system, resulting in increased reliability and reduced maintenance.

Green building design

Developed to achieve maximum efficiency and is future-proofed to comply with existing design and regulatory standards as well as longer-term EU energy goals.

Application flexibility

The DZ Series includes models suitable for both high condensing operation (Dry Cooler application) and low condensing operation (Cooling Tower applications).

Designed for compactness

Footprint reduced to the minimum levels thanks to a unique design with stacked heat exchangers.

Option flexibility

Wide range of options, such as the **Rapid Re-Start**, allowing the unit to restart after a power failure within 26 seconds following power restoration, an automatic transfer switch to backup generator.
Comprehensive solution for data centers applications.

Low noise solution with dedicated Compressor sound proof cabinet to ensure outstanding flexibility to match any specific application.

Hot Gas Bypass (HGBP).
The hot gas bypass (HGBP) reduces compressor cycling in order to stabilize the chilled water temperature at very low loads. The HGBP is a control capacity device that feeds the discharge gas directly into the evaporator in order to extend the minimum power range limit. This hot gas provides a stable refrigerant flow and keeps the chiller from short cycling under reduced load conditions combined with high lift.
It also reduces surge potential on heat pump mode units.

Heat Pump Version.
The Heat Pump Version including Pursuit Mode and allow reversibility on the water side. Cooling or heating mode operation can be selected by means of a dedicated switch installed on the unit electrical panel. If communication card is selected, cooling or heating mode operation can be managed by BMS. It includes HGBP always and additional 20 mm insulation.

Connectivity

Enabled for operation via the Daikin on Site platform The DZ can be monitored remotely, allowing the system to be accessed with one click, for system optimization and preventative maintenance.

Enabled for operation with an App specifically designed to operate on the unit by remote smart device (tablet, smartphone, PC). App is characterized by and easy-to-access data, and it allows an effective graphical representation of the main data and displaying the unit operating parameters.

EWWD-DZXS

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design
- Optimized for highly efficient R-134a refrigerant and compatible with next generation refrigerants

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

EWWD-DZXS

Cooling Only				**EWWD-DZXS**	**320**	**440**	**530**	**610**	**640**	**700**	**880**	**C10**	**C13**	**C14**	**C15**	**C21**
Space cooling	A Condition Pdc			kW	320,01	443,01	528	610,02	638,01	699,97	883,01	1.056	1.325,26	1.402	1.564,57	2.070,42
	ηs,c			%	334	314	324	344	349	342	350	363	349,8	362	360,6	365,4
SEER					8,56	8,05	8,29	8,81	8,92	8,75	8,95	9,27	8,82	9,26	9,09	9,21
Cooling capacity	Nom.			kW	320	443	528	610	638	700	883	1.056	1.325	1.402	1.565	2.070
Power input	Cooling	Nom.		kW	66,5	88,5	102	124,7	131	126	176	205	272	256	310	391
Capacity control	Method				Variable											
	Minimum capacity			%	30	21		16	15	18	11		7	9	8	6
EER					4,81	5	5,14	4,89	4,85	5,53	5,01	5,15	4,88	5,46	5,04	5,3
IPLV					9,68	9,67	10	9,66	9,78	10,1	9,86	10,2	9,56	10,5	9,91	9,93
Dimensions	Unit	Height		mm	1.865			1.985				2.200	2.083	2.200	2.225	2.290
		Width		mm	1.055			1.160				1.270	1.510	1.270	1.510	
		Depth		mm	3.625				3.585			3.580	4.793	3.580	4.768	4.812
Weight	Unit			kg	1.700	1.900	2.000	2.850		2.600	2.900	3.600	4.350	3.800	4.750	5.500
	Operation weight			kg	1.973	2.216	2.347	3.197	3.344	3.102	3.458	4.292	5.020	4.579	5.540	6.570
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	70	96	107		134		156	199	271,8	229	317,4	444,3
	Water flow rate	Nom.		l/s	15,3	21,2	25,3	29,1	30,5	33,5	42,3	50,6	63,4	67,2	74,9	99,1
	Water pressure drop	Cooling	Nom.	kPa	47,4	40,6	45	59,1	51	61,3	64	60,4	60,1	74	61,1	71,9
Water heat exchanger - condenser	Type				Shell and tube								Flooded Shell & Tube			
	Water volume			l	83	100	120		170	188	211	263	359,9	320	442,6	603,6
	Water flow rate	Nom.		l/s	18,3	25,3	30,1	35,1	36,7	39,4	50,5	60,1	76,1	79,1	89,5	117
	Water pressure drop	Cooling	Nom.	kPa	49,2	59,5	54,5	74	46,2	41,6	50,9	50,3	56	52,9	43	57
Compressor	Type				Centrifugal											
	Quantity				1			2		1	2		3	2	3	
Sound power level	Cooling	Nom.		dBA	87,9	88,9	89,9	91,1	91	91,1	92	93,3	99	94,3	100	101
Sound pressure level	Cooling	Nom.		dBA	69,6	70,6	71,6	72,6			73,6	74,6	80	75,6	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20											
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55		20~42	20~55	20~42	20~55	20~42		
Refrigerant	Type/GWP				R-134a/1.430											
	Charge			kg	120				180			230	320	230	340	390
	Circuits	Quantity			1											
Refrigerant charge				TCO_2Eq	172				257			329	458	329	486	558
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7				168,3				219,1			
	Condenser water inlet/outlet (OD)			mm	139,7				168,3				219,1			
Unit	Running current	Cooling	Nom.	A	100,55	138,22	155,23	203,41	200,56	190,23	274,86	309,17	445	383,87	471,7	588
		Max		A	134	208	166	267		196	417	331	631	392	511	589
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

EWWD-DZXE

EWWD-DZ-XE/XS dual

EWWD-DZ-XE/XS triple

EWWD-DZ-XE/XS mono

Microtech 4

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

EWWD-DZXE

Cooling Only				EWWD-DZXE	340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition	Pdc		kW	341,01	474,02	566	670	682	741,96	946	1.038,18	1.130	1.436,52	1.477,93	1.684,76	2.172,91
	ηs,c			%	335	316	326	345	349	346	352	339,8	365	350,6	366	359	370,2
SEER					8,57	8,09	8,34	8,82	8,93	8,86	9	8,57	9,32	8,84	9,35	9,05	9,33
Cooling capacity	Nom.			kW	341	474	566	670	682	742	946	1.038	1.130	1.437	1.478	1.685	2.173
Power input	Cooling	Nom.		kW	69,9	93,5	108	138,4	138	131	186	210	216	288	263	329	393
Capacity control	Method				Variable												
	Minimum capacity			%	29	20		15		17	10			7	9	7	6
EER					4,88	5,07	5,22	4,84	4,91	5,65	5,08	4,94	5,23	4,98	5,6	5,12	5,53
IPLV					9,57	9,62	10	9,61	9,63	10,2	9,79	9,58	10,1	9,55	10,4	9,86	10,00
Dimensions	Unit	Height		mm	1.865			1.985				2.082	2.200	2.083	2.200	2.225	2.290
		Width		mm	1.055			1.160				1.510	1.270	1.510	1.270	1.510	
		Depth		mm	3.625				3.585			4.688	3.580	4.793	3.580	4.768	4.812
Weight	Unit			kg	1.750	1.950	2.050	2.850		2.650	3.000	4.400	3.700	4.700	3.900	5.100	5.900
	Operation weight			kg	2.033	2.276	2.407	3.197	3.354	3.162	3.568	4.970	4.412	5.370	4.699	5.890	6.920
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume			l	70	96	107		134		156	207,3	199	317,4	229	317,4	444,3
	Water flow rate	Nom.		l/s	16,4	22,7	27,1	32	32,7	35,6	45,3	49,1	54,1	68	70,9	80,4	103
	Water pressure drop	Cooling	Nom.	kPa	54,2	46,5	51,5	71,4	58,3	68,7	73,2	61,4	68,9	70,7	82	70,7	78,9
Water heat exchanger - condenser	Type				Shell and tube							Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	
	Water volume			l	83	100	120		170	188	211	326,4	263	359,9	320	442,6	603,6
	Water flow rate	Nom.		l/s	19,6	27	32,1	38,6	39,1	41,6	53,9	58,9	64,1	81,4	83	95,8	121
	Water pressure drop	Cooling	Nom.	kPa	56,4	68,4	62,4	90	52,9	46,7	58,3	44	57,6	66	58,5	50	62
Compressor	Type				Centrifugal												
	Quantity				1			2		1	2	3	2	3	2	3	
Sound power level	Cooling	Nom.		dBA	87,9	88,9	89,9	91,1	91	91,1	92	98	93,3	99	94,3	100	101
Sound pressure level	Cooling	Nom.		dBA	69,6	70,6	71,6	72,6			73,6	79	74,6	80	75,6	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20												
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55		20~42	20~55		20~42	20~55	20~42		
Refrigerant	Type/GWP				R-134a/1.430												
	Charge			kg	130			120	200	190	200	350	250	400	250	420	470
	Circuits	Quantity			1												
Refrigerant charge				TCO_2Eq	186			172	286	272	286	501	358	572	358	672	
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7				168,3					219,1			
	Condenser water inlet/outlet (OD)			mm	139,7				168,3						219,1		
Unit	Running current	Cooling	Nom.	A	105,42	144,7	162,48	212,9	210,15	196	287,44	318,3	323,53	425,9	392	496	588
		Max		A	134	208	166	267		196	417	406	331	631	392	511	589
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

EWWH-DZXS

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- HFO R-1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design

HFO
R-1234ze(E)

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

EWWH-DZXS

Cooling Only				EWWH-DZXS	230	320	380	430	455	460	640	755	920	950	C11	C13
Space cooling	A Condition			kW	227,08	318,33	376,33	455,13	454,66	474,48	637,15	752,27	917,79	945,8	1.126	1.352
	ηs,c			%	330	346		342		339	352	354	353	360,2	359,4	364,2
SEER					8,46	8,84		8,74		8,58	8,99	9,04	9,03	9,08	9,06	9,18
Cooling capacity	Nom.			kW	227	318	376	455		461	637	752	918	945,8	1.126	1.352
Power input	Cooling	Nom.		kW	45,6	60,5	71,4	93,3	90,6	79,3	120,5	142,1	158,8	181	216,5	237,7
Capacity control	Method				Variable									Stepless		
	Minimum capacity			%	24	21	20	13	12	20	11	10		11		16
EER					4,98	5,27		4,88	5,02	5,81	5,29		5,78	5,22	5,2	5,69
IPLV					9,61	9,79	9,83	9,71	9,68	9,73	9,99	10,05	9,99	9,83	9,91	9,98
Dimensions	Unit	Height		mm	1.865			1.985				2.200		2.083	2.225	2.290
		Width		mm	1.055			1.160				1.270		1.510		
		Depth		mm	3.625			3.585				3.580		4.793	4.768	4.812
Weight	Unit			kg	1.700	1.900	2.000	2.850		2.600	2.900	3.600	3.800	4.350	4.750	5.500
	Operation weight			kg	1.973	2.216	2.347	3.197	3.344	3.102	3.458	4.292	4.579	5.020	5.540	6.570
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	70	96	107		134		156	199	229	271,8	317,4	444,3
	Water flow rate	Cooling	Nom.	l/s	10,8	15,2	18	20,5	21,7	22	30,4	35,9	43,9	45,2	53,8	64,6
	Water pressure drop	Cooling	Nom.	kPa	28,2	24,6	26,8	31,7	27,8	28,6	35,9	33	34,3	30	31	
Water heat exchanger - condenser	Type				Shell and tube									Flooded Shell & Tube		
	Water volume			l	83	100	120		170	188	211	263	320	359,9	442,6	603,6
	Water flow rate	Cooling	Nom.	l/s	13	18,1	21,4	24,5	26,1	25,8	36,2	42,7	51,4	53,8	64,2	76
	Water pressure drop	Cooling	Nom.	kPa	24	30	27	35	23	17	25		22	27	26	24
Compressor	Type				Centrifugal											
	Quantity				1			2		1	2			3		
Sound power level	Cooling	Nom.		dBA	87,9	88,9	89,9	91,1	91	91,1	92	93,3	94,3	99	100	101
Sound pressure level	Cooling	Nom.		dBA	69,6	70,6	71,6	72,6			73,6	74,6	75,6	80	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20											
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55		20~42	20~55	20~42		20~55	20~42	
Refrigerant	Type/GWP				R-1234ze(E)/1,4											
	Charge			kg	120			180				230		320	340	390
	Circuits	Quantity			1											
Refrigerant charge				TCO_2Eq	1							2		458	486	558
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7				168,3					219,1		
	Condenser water inlet/outlet (OD)			mm	139,7				168,3				219,1	168,3	219,1	
Unit	Running current	Cooling	Nom.	A	72	99	112	133	144	125	198	222	249	297,8	339,2	374,1
		Max		A	95	150	123	190		142	300	246	284	451	370	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

EWWH-DZXE

EWWH-DZ-XE/XS dual

EWWH-DZ-XE/XS triple

EWWH-DZ-XS/XE mono

Microtech 4

HFO R-1234ze(E)

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

EWWH-DZXE

Cooling Only				EWWH-DZXE	245	345	405	470	480	490	685	740	810	955	C10	C12	C14
Space cooling	A Condition			kW	241,98	339,33	401,93	460,88	483,83	486,57	678,69	741	802,77	944,73	1.033	1.226	2.172,91
	ηs,c			%	331	350		335	345	344	356	344,6	358	356	364,2		371,8
SEER					8,48	8,95	8,94	8,81	8,67	8,83	9,11	8,69	9,16	9,1	9,18		9,37
Cooling capacity	Nom.			kW	242	339	402	487	474	484	679	741	803	945	1.033	1.226	1.417
Power input	Cooling	Nom.		kW	47,9	63,4	75,1	98,7	79,5	95,1	126,3	144,6	149,4	159,2	192,9	229,5	238,3
Capacity control	Method				Variable							Stepless	Variable		Stepless		
	Minimum capacity			%	24	20	19	12	20	12	10	12	9	10	11		17
EER					5,05	5,35		4,93	5,97	5,09	5,37	5,13	5,37	5,93	5,35	5,34	5,94
IPLV					9,64	9,88	9,94	9,62	9,87	9,74	10,07	9,66	10,14	10,13	9,92	9,98	9,94
Dimensions	Unit	Height		mm	1.865			1.985				2.082	2.200		2.083	2.225	2.290
		Width		mm	1.055			1.160				1.510	1.270		1.510		
		Depth		mm	3.625				3.585			4.688	3.580		4.793	4.768	4.812
Weight	Unit			kg	1.750	1.950	2.050	2.850	2.650	2.850	3.000	4.400	3.700	3.900	4.700	5.100	5.900
	Operation weight			kg	2.033	2.276	2.407	3.197	3.162	3.354	3.568	4.970	4.412	4.699	5.370	5.890	6.920
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume			l	70	96	107		134		156	207,3	199	229	317,4		444,3
	Water flow rate	Cooling	Nom.	l/s	11,6	16,2	19,2	22,4	22,6	23,1	32,4	34,9	38,4	45,2	48,7	57,9	67
	Water pressure drop	Cooling	Nom.	kPa	29,7	28,4		37,8	30,8	32	41,3	31	38,1	36,9	37	38	33
Water heat exchanger - condenser	Type				Shell and tube							Flooded Shell & Tube	Shell and tube		Flooded Shell & Tube		
	Water volume			l	83	100	120		188	170	211	326,4	263	320	359,9	442,6	603,6
	Water flow rate	Cooling	Nom.	l/s	13,9	19,2	22,8	26,7	26,4	27,7	38,5	41,8	45,5	52,8	57,8	68,8	78,4
	Water pressure drop	Cooling	Nom.	kPa	28	34	31	42	18	26	29	21	28	23	33	30	26
Compressor	Type				Centrifugal												
	Quantity				1			2	1	2		3	2		3		
Sound power level	Cooling	Nom.		dBA	87,9	88,9	89,9	91,1		91	92	98	93,3	94,3	99	100	101
Sound pressure level	Cooling	Nom.		dBA	69,6	70,6	71,6	72,6			73,6	79	74,6	75,6	80	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20												
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55	20~42	20~55			20~42		20~55	20~42	
Refrigerant	Type/GWP				R-1234ze(E)/1,4												
	Charge			kg	130			120	190	200		350	250		400	420	470
	Circuits	Quantity			1												
Refrigerant charge				TCO_2Eq	1							501	2		572	601	672
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7				168,3				219,1				
	Condenser water inlet/outlet (OD)			mm	139,7				168,3			219,1	168,3		219,1		
Unit	Running current	Cooling	Nom.	A	75	103	117	142	125	150	205	277	232	249	311	249	
		Max		A	95	150	123	190	142	190	300	286	246	284	451	370	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

EWWS-DZXS

- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- R-513A Refrigerant with low Global Warming Potential
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design

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

EWWS-DZXS

Cooling Only				**EWWS-DZXS**	**320**	**440**	**530**	**610**	**640**	**700**	**880**	**C10**	**C13**	**C14**	**C15**	**C21**
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		315,85	438,98	520,21	629,71	630,64	694,46	875,77	1.043,15	1.304,67	1.390,46	1.549,85	2.027,16
		ηs,c	%		3,416	3,376	3,54	3,448	3,508	3,428	3,508	3,636	3,448	3,624	3,552	3,608
SEER					8,74	8,64	9,05	8,82	8,97	8,77	8,97	9,29	8,82	9,26	9,08	9,22
Cooling capacity	Nom.			kW	316	439	520	609	631	694	876	1.043	1.305	1.390	1.550	2.027
Power input	Cooling	Nom.		kW	67,1	90	103	126	132	127	177	205	270	257	312	384
Capacity control	Method				Variable											
	Minimum capacity			%	30	21		16	15	18	11		7	9	8	6
EER					4,71	4,88	5,05	4,82	4,77	5,44	4,92	5,08	4,82	5,4	4,96	5,27
IPLV					9,31	9,25	9,61	9,29	9,44	9,77	9,45	9,83	9,1	9,96	9,38	9,34
Dimensions	Unit	Height		mm	1.865			1.985				2.200	2.083	2.200	2.225	2.290
		Width		mm	1.055			1.160				1.270	1.510	1.270	1.510	
		Depth		mm	3.625				3.585			3.580	4.793	3.580	4.768	4.812
Weight	Unit			kg	1.700	1.900	2.000	2.850		2.600	2.900	3.600	4.350	3.800	4.750	5.500
	Operation weight			kg	1.973	2.216	2.347	3.197	3.344	3.102	3.458	4.292	5.020	4.579	5.540	6.570
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume			l	70	96	107		134		156	199	272	229	317	444
	Water flow rate	Cooling	Nom.	l/s	15,3	21,3	25,2	29,1	30,6	33,7	42,5	50,5	63,1	67,4	75	98,1
	Water pressure drop	Cooling	Nom.	kPa	47,3	40,9	44,8	59,1	51,1	61,7	64,5	59,3	59,5	74,4	61,3	70,4
Water heat exchanger - condenser	Type				Flooded Shell & Tube											
	Water volume			l	83	100	120		170	188	211	263	360	320	443	604
	Water flow rate	Cooling	Nom.	l/s	18,4	25,4	30,1	34,9	36,8	39,6	50,8	60,2	75,9	79,5	89,9	116
	Water pressure drop	Cooling	Nom.	kPa	49,4	60,4	54,5	74,2	46,5	42,1	51,5	50,4	56,1	53,4	43,7	55,7
Compressor	Type				Driven vapour compressor											
	Quantity				1			2		1	2		3	2	3	
Sound power level	Cooling	Nom.		dBA	87,9	88,9	89,9	91,1	91,0	91,1	92,0	93,3	93,5	94,3	94,8	95,8
Sound pressure level	Cooling	Nom.		dBA	69,6	70,6	71,6		72,6		73,6	74,6	73,9	75,6	75,2	76,2
Refrigerant	Type/GWP				R-513A/629,5											
	Charge			kg	120	150	120	140	190	180	200	230	240	230	270	
	Circuits	Quantity			1											
Piping connections	Evaporator water inlet/outlet (OD)			mm	139,7				168,3			219,1				
	Condenser water inlet/outlet (OD)			mm	139,7				168,3					219,1		

EWWS-DZXE

EWWS-DZ-XE/XS dual

EWWS-DZ-XE/XS triple

EWWH-DZ-XS/XE mono

Microtech 4

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

EWWS-DZXE

Cooling Only				EWWS-DZXE	340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		336,72	471,24	558,03	676,76	674,49	728,69	941,72	1.024,55	1.117,07	1.419,67	1.450,66	1.652,82	2.128,56
		ηs,c	%		3,428	3,396	3,568	3,452	3,52	3,464	3,532	3,444	3,664	3,464	3,668	3,556	3,656
SEER					8,77	8,69	9,12	8,83	9	8,86	9,03	8,81	9,36	8,86	9,37	9,09	9,34
Cooling capacity	Nom.		kW		337	471	558	671	674	729	942	1.025	1.117	1.420	1.451	1.653	2.129
Power input	Cooling	Nom.	kW		70,2	95,1	108	139		129	188	209	215	287	259	324	385
Capacity control	Method				Variable												
	Minimum capacity		%		29	20		15		17	10			7	9	7	6
EER					4,8	4,96	5,15	4,8	4,85	5,61	5,01	4,89	5,18	4,94	5,6	5,1	5,52
IPLV					9,22	9,2	9,59	9,11	9,31	9,78	9,38	9,25	9,81	9,12	9,98	9,4	9,41
Dimensions	Unit	Height	mm		1.865			1.985				2.082	2.200	2.083	2.200	2.225	2.290
		Width	mm		1.055			1.160				1.510	1.270	1.510	1.270	1.510	
		Depth	mm		3.625				3.585			4.688	3.580	4.793	3.580	4.768	4.812
Weight	Unit		kg		1.750	1.950	2.050	2.850		2.650	3.000	4.400	3.700	4.700	3.900	5.100	5.900
	Operation weight		kg		2.033	2.276	2.407	3.197	3.354	3.162	3.568	4.970	4.412	5.370	4.699	5.890	6.920
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume		l		70	96	107		134		156	207	199	272	229	317	444
	Water flow rate	Cooling	Nom.	l/s	16,3	22,9	27	32	32,7	35,3	45,6	49,6	54,1	68,8	70,3	80,1	102
	Water pressure drop	Cooling	Nom.	kPa	54,1	47,2	51,3	71,4	58,3	67,8	74,1	61,2	67,7	70,6	80,8	69,7	77,4
Water heat exchanger - condenser	Type				Flooded Shell & Tube												
	Water volume		l		83	100	120		170	188	211	326	263	360	320	443	604
	Water flow rate	Cooling	Nom.	l/s	19,6	27,3	32,1	38,4	39,2	41,4	54,4	59,5	64,2	82,3	82,5	95,5	121
	Water pressure drop	Cooling	Nom.	kPa	56,5	69,8	62,4	90,8	53,2	46,1	59,4	43,6	57,7	66,4	57,7	49,5	60,7
Compressor	Type				Driven vapour compressor												
	Quantity				1			2		1	2	3	2	3	2	3	
Sound power level	Cooling	Nom.	dBA		87,9	88,9	89,9	91,1	91,0	91,1	92,0	92,6	93,3	93,5	94,3	94,8	95,8
Sound pressure level	Cooling	Nom.	dBA		69,6	70,6	71,6	72,6			73,6	73	74,6	73,9	75,6	75,2	76,2
Refrigerant	Type/GWP				R-513A/629,5												
	Charge		kg		160	130		200		190	200	270	250	270	250	300	355
	Circuits	Quantity			1												
Piping connections	Evaporator water inlet/outlet (OD)		mm		139,7				168,3					219,1			
	Condenser water inlet/outlet (OD)		mm		139,7				168,3						219,1		

DWSC-C

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

Microtech 4

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

Rapid restart for fast start-up after power loss
The UPS keeps the controller switched on enabling the unit to quickly reach the full load. Focused on data centre and all applications where the cooling capacity supply is crucial.

Reduced refrigerant quantity
Thanks to the new high efficiency tubes and more compact heat exchanger design.

Heat pump mode
With reversibility on water side whenever a heating load is demanded thus improving suitability for applications with changing load during the year.

DWSC-C

Cooling Only			DWSC-C	DWSC-C	DWSC-C
Cooling capacity	Min./Max.	kW	1.050 (1)/4.500 (1)	700 (1)/3.300 (1)
Compressor	Type		Single stage centrifugal compressor	Single stage centrifugal compressor
Refrigerant	Type		R-134a / R-513A	R-1234(ze)
Power supply	Frequency	Hz	50/60	50/60

(1) AHRI conditions

DWDC-C

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

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

Touch screen operator panel

The touch screen operator panel is visually intuitive and easy to use, improving operator productivity. Key status updates and control information are accessible instantly at a glance.

Unit mounted control panel

DWDC-C

Cooling Only		DWDC-C	DWDC-C	DWDC-C
Cooling capacity	Min./Max.	kW	2.100 (1)/9.000 (1)	1.400 (1)/6.700 (1)
Compressor	Type		Single stage centrifugal compressor	Single stage centrifugal compressor
Refrigerant	Type		R-134a / R-513A	R-1234(ze)
Power supply	Frequency	Hz	50/60	50/60

(1)AHRI conditions

Table of content

Condenserless chiller

R-410A

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R-32

- EWLT-Q-XS 199
- EWLT-Q-XR 200

R-134a

- EWLD-J-SS 201
- EWLD-I-SS 204

R-1234ze(E)

- EWLH-J-SS 202

R-513A

- EWLS-J-SS 203

Accessories - Chillers and heat pumps 206

Please consult the Webbased Selection Software Tool for detailed technical information.

EWLQ-KC

- 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

EWLQ-KC

µC²SE

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

EWLQ-KC

Cooling Only				EWLQ-KC	014	025	033	049	064
Cooling capacity	Nom.			kW	12,09	19,87	28,9	39,35	57,84
Power input	Cooling	Nom.		kW	3,74	6,11	8,43	12,03	16,41
EER					3,237	3,254	3,429	3,270	3,524
Dimensions	Unit	Height		mm	600				
		Width		mm	600				
		Depth		mm	600			1.200	
Weight	Unit			kg	62	124	130	238	249
Water heat exchanger - evaporator	Type				Brazed plate				
	Water pressure drop	Cooling	Nom.	kPa	9,71	16,4	21,6	20,5	34,8
Compressor	Type				Scroll				
	Quantity				1			2	
Sound power level	Cooling	Nom.		dBA	69		76	72	79
		Nom.		dBA	55,2		62,1	57,6	64,6
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				

EWLT-Q-XS

- Daikin scroll compressors with R-32 refrigerant
- Modular design: 8 modules can be combined in two stacked arrays of 4 for a capacity range from 200 to 1.280 kW
- 2 sound configurations: Standard and Reduced noise version suitable for outdoor installation
- Single power supply for the array of modules available as option
- Manifold kit connects modules on the water side making it a plug & play solution

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

EWLT-Q-XS

Model				EWLT-Q-XS	100	125	160
Cooling performances	Cooling Capacity (1)			kW	90,2	116,9	155,0
	Power input - cooling (1)			kW	23,67	31,10	38,55
	EER (1)				3,81	3,76	4,02
	Evaporator	Flow rate (1)		l/s	4,30	5,58	7,39
		Pressure drop (1)(2)		kPa	17,16	17,93	19,55
General	Sound Power (1)(3) – Lw			dB(A)	81	84	86
	Number of circuits / Compressors				1/2	1/2	1/2
	Weight	Unit (4)		kg	372	417	467
		Operating weight (4)		kg	382	428	482
	Unit	Running Current (1)(4)(5)		A	42,1	50,0	60,7
		Max Running Current (4)(5)		A	62,0	80,0	97,0
		Max Current Wires Sizing (4)(5)		A	68,0	88,0	107

(1) Standard Rating Conditions for DX to Water chillers: Condensing temperature = 45°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(3) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(4) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram, unit nameplate and dedicated drawing for specific values. Value intended as guideline. Refer to unit nameplate for specific value.
(5) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

EWLT-Q-XR

- Daikin scroll compressors with R-32 refrigerant
- Modular design: 8 modules can be combined in two stacked arrays of 4 for a capacity range from 200 to 1.280 kW
- 2 sound configurations: Standard and Reduced noise version suitable for outdoor installation
- Single power supply for the array of modules available as option
- Manifold kit connects modules on the water side making it a plug & play solution

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

EWLT-Q-XR

Model				EWLT-Q-XR	100	125	160
Cooling performances	Cooling Capacity (1)			kW	90,20	116,9	155,0
	Power input - cooling (1)			kW	23,67	31,10	38,55
	EER (1)				3,81	3,76	4,02
	Evaporator	Flow rate (1)		l/s	4,30	5,58	7,39
		Pressure drop (1)(2)		kPa	17,16	17,93	19,55
General	Sound Power (1)(3) – Lw			dB(A)	75	78	80
	Number of circuits / Compressors				1/2	1/2	1/2
	Weight	Unit (4)		kg	423	468	518
		Operating weight (4)		kg	433	479	533
	Unit	Running Current (1)(4)(5)		A	42,1	50,0	60,7
		Max Running Current (4)(5)		A	62,0	80,0	97,0
		Max Current Wires Sizing (4)(5)		A	68,0	88,0	107

(1) Standard Rating Conditions for DX to Water chillers: Condensing temperature = 45°C; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(3) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(4) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram, unit nameplate and dedicated drawing for specific values. Value intended as guideline. Refer to unit nameplate for specific value.
(5) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

EWLD-J-SS

- 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
- Available with low GWP refrigerant (R-1234ze and R-513A)
- MicroTech 4 controller with superior control logic and easy interface

EWLD-J-SS

Microtech 4

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

EWLD-J-SS

Cooling only				EWLD-J-SS	110	130	145	165	235	195	265
Cooling capacity	Nom.			kW	110	128	142	163	236	191	264
Power input	Cooling	Nom.		kW	31,2	38,4	43,8	50,4	66,0	56,0	75,3
Capacity control	Method				Stepless						
	Minimum capacity			%	25,0						
EER					3,51	3,33	3,25	3,24	3,58	3,42	3,51
Dimensions	Unit	Height		mm	1.020						
		Width		mm	913						
		Depth		mm	2.684						
Weight	Unit			kg	1.124	1.141	1.237	1.263	1.489	1.305	1.489
	Operation weight			kg	1.138	1.159	1.253	1.281	1.518	1.327	1.518
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	26	20	26
	Water flow rate	Nom.		l/s	5,2	6,1	6,8	7,8	11,3	9,2	12,6
	Water pressure drop	Cooling	Nom.	kPa	14	13	39	37	26	33	32
Compressor	Type				Screw						
	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	27~65						
Refrigerant	Type / GWP				R-134a / 1.430						
	Circuits	Quantity			1						
Piping connections	Evaporator water inlet/outlet (OD)			mm	76,2						
Unit	Maximum starting current			A	151		195		288	195	288
	Nominal running current (RLA)		Cooling	A	52	62	72	81	107	91	120
	Maximum running current			A	76	97	107	122	167	143	189
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWLH-J-SS

- 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 -5°C on standard unit
- Optimized for R-1234ze(E)
- MicroTech 4 controller with superior control logic and easy interface

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

EWLH-J-SS

Cooling only				**EWLH-J-SS**	**80**	**100**	**110**	**130**	**140**	**170**	**190**
Cooling capacity	Nom.			kW	84	102	109	126	142	174	193
Power input	Cooling	Nom.		kW	23,3	28,1	31,8	37,0	41,5	49,6	56,3
Capacity control	Method				Stepless						
	Minimum capacity			%	25,0						
EER					3,60	3,62	3,43	3,42	3,43	3,51	3,43
Dimensions	Unit	Height		mm	1.020						
		Width		mm	913						
		Depth		mm	2.684						
Weight	Unit			kg	1.124	1.141	1.237	1.263	1.305	1.489	
	Operation weight			kg	1.138	1.159	1.253	1.281	1.327	1.518	
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	20	26	
	Water flow rate	Nom.		l/s	4,0	4,9	5,2	6	6,8	8,3	9,2
	Water pressure drop	Cooling	Total	kPa	9,7	9,9	17,5	17,6	16,2	15,5	18,7
Compressor	Type				Screw						
	Quantity				1						
Sound power level	Cooling	Nom.		dBA	89						
Sound pressure level	Cooling	Nom.		dBA	79						
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-5~20						
	Condenser	Cooling	Min.~Max.	°CDB	27~80						
Refrigerant	Type / GWP				R-1234ze(E)/1,4						
	Circuits	Quantity			1						
Piping connections	Evaporator water inlet/outlet (OD)			mm	76,2						
Unit	Maximum starting current			A	153			197		290	
	Nominal running current (RLA)		Cooling	A	42	48	59	65	71	84	92
	Maximum running current			A	75	90	100	114	143	158	178
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWLS-J-SS

- 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
- Optimized for R-513A
- MicroTech 4 controller with superior control logic and easy interface

EWLS-J-SS

Microtech 4

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

EWLS-J-SS

Cooling only				EWLS-J-SS	110	130	150	170	200	240	270
Cooling capacity	Nom.			kW	111	132	150	175	200	236	268
Power input	Cooling	Nom.		kW	32,2	38,7	44,7	51,2	58,2	64,4	78,8
Capacity control	Method				Stepless						
	Minimum capacity			%	25,0						
EER					3,44	3,44	3,35	3,41	3,44	3,4	3,4
Dimensions	Unit	Height		mm	1.020						
		Width		mm	913						
		Depth		mm	2.684						
Weight	Unit			kg	1.124	1.141	1.237	1.263	1.305	1.489	
	Operation weight			kg	1.138	1.159	1.253	1.281	1.327	1.518	
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	20	26	
	Water flow rate	Nom.		l/s	5,3	6,3	7,2	8,3	9,6	11,3	12,8
	Water pressure drop	Cooling	Nom.	kPa	15,9	15,8	31,0	31,4	29,8	26,9	33,7
Compressor	Type				Screw						
	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	27~60						
Refrigerant	Type / GWP				R-513A/629,5						
	Circuits	Quantity			1						
Piping connections	Evaporator water inlet/outlet (OD)			mm	76,2						
Unit	Maximum starting current			A	154		198			291	
	Nominal running current (RLA)		Cooling	A	54	64	75	84	94	11	125
	Maximum running current			A	81	96	108	122	141	164	185
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

EWLD-I-SS

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

EWLD-I-SS

Microtech 4

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

EWLD-I-SS

Cooling only				EWLD-I-SS	320	400	420	500	600	650	750	800	850	900	950	C10	C11	C12	C13	C14	C15	C16	C17
Cooling capacity	Nom.			kW	315	374	437	509	607	670	740	802	865	935	975	1.029	1.097	1.144	1.210	1.278	1.330	1.381	1.433
Power input	Cooling	Nom.		kW	80,3	96,0	113	134	160	175	192	208	224	246	264	283	286	302	318	336	356	375	395
Capacity control	Method				Stepless																		
	Minimum capacity			%	25,0				12,5							8,3							
EER					3,93	3,89	3,88	3,79	3,80	3,82	3,86			3,81	3,69	3,64	3,83	3,79	3,80		3,74	3,68	3,63
Dimensions	Unit	Height		mm	1.899				2.325							2.415							
		Width		mm	1.464											2.135							
		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 - evaporator	Type				Single pass shell and tube																		
	Water volume			l	193		183	172	271	263	256	248	241	233		504		489	472	504		489	472
	Water flow rate	Nom.		l/s	15,1	17,9	20,9	24,4	29,1	32,1	35,4	38,4	41,4	44,8	46,7	49,3	52,5	54,8	57,9	61,2	63,7	66,1	68,6
	Water pressure drop	Cooling	Total	kPa	34	46	49	56	50	40	52	49	40	49	36	54	47	51	43	53	57	61	65
Compressor	Type				Screw																		
	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		81		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)			mm	42																		
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																		

			Air to water chillers									
Panels			**EWAA-DA/ EWYA-DA**	**EWAT-CZ**	**EWYT-CZ**	**EWYT-CZ 0/I**	**EWYE-CZ**	**EWYS-BZ**	**EWYS-4Z**	**EWYT-B**	**EWA(D)(H) (S)-TZ D**	**ERAD-E**
EKRSCWI		Temperature sensor water in										
EKRSCTMS		Temperature sensor for master/slave configuration		●	●	●	●					
EKTSMS		Temperature sensor for master/slave configuration							●(x2)	●	●	●
EKDAGBL		Restricted application definer			●							
EKRUMCL1		User Interface										
EKDIPM05	(a)	INTELLIGENT PUMP MANAGER FOR ICM 5 PUMPS							●	●	●	●
EKDIPM10	(b)	INTELLIGENT PUMP MANAGER FOR ICM 10 PUMPS							●	●	●	●
EKDICT	**	INTELLIGENT COOLING TOWER MANAGER FOR ICM										
EKDISM	(a)	INTELLIGENT SECONDARY MANAGER FOR ICM							●	●	●	●
EKSCSGW		Smart Grid Ready box			●	●	●					
EKCMSGW		Smart Grid Ready box								●		
EKDICMADV		iCM ADVANCED Panel							●	●	●	

		Air to water chillers									
Serial Cards & Communication Modules		**EWAA-DA/ EWYA-DA**	**EWAT-CZ**	**EWYT-CZ**	**EWYT-CZ 0/I**	**EWYE-CZ**	**EWYD-BZ**	**EWYS-4Z**	**EWYT-B**	**EWA(D)(H) (S)-TZ D**	**ERAD-E**
EKRSCIO	IO extension for VPF, domestic hot water, demand limit, setpoint reset, low noise		●	●							
EKCBMS	Connectivity for external BMS communication (Modbus TCP, Bacnet MSTP/IP) (MTO)										
EKRSCIOH	IO EXTENSION FOR HEATING APPLICATION			●							
EKRSCIOC	IO EXTENSION FOR R454C UNIT					●					
EKRSCTDH	TEMPERATURE SENSOR FOR DHW APPLICATION			●		●					
EKRSCBMS	Connectivity for external BMS communication (Modbus RTU/TCP, Bacnet MSTP/IP)		●	●	●	●					
EKRSCSM	Kit DoS router with antenna and M2M sim card		●	●	●	●					
EKRSCDP	Differential pressure trasduced for VPF		●	●	●	●					
EKSCDP	Differential pressure trasduced for VPF (MTO)										
EKAC200J	Serial Card RS485/Modbus						●				
EKACBAC	Ethernet Card BACnet						●				
EKCSWITCH	Ethernet Switch								●		
EKACLONP	Serial Card LON FTT 10						●				
EKACRS232	Serial Card RS232 Modem Interface (single unit only)						●				
EKACWEB	Web Server Card						●				
EKACBACMSTP	Serial Card BACnet MSTP						●				
EKCM200J	ModBus RTU communication module							●	●	●	●
EKCMBACMSTP	BACnet/MSTP communication module							●	●	●	●
EKCMBACIP	BACnet/IP communication module							●	●	●	●
EKDOSMWO	Daikin on Site Modem without M2M card							●	●	●	●

Notes: (a) Price does not include commissioning of panel; if commissioning is required please refer to RN17-041;(d) For 45/55/65 Hp-units 2 pieces are needed;;(e) Only available for modular units (EWWP~KAW1M); (g) Differential pressure sensor are specific for iCM panels in variable primary flow management;**=n cooling towers + 1 for iPM connection

	Air to water chillers			Water to water chillers									Centrifugals		
	EWAT-B-B	EWAT-B-C	EWFT-B-C	EWWQ-KC	EWLQ-KC	EWWT-Q	EWHT-Q	EWLT-Q	EWLD-I	EWW(L) S_H_D-J-	EWWS-VZ-A	EWWH-VZ-A	EWWD-VZ-A	EWWH-DZ	EWWH-DZ	EWWS-DZ
				●	●											
				●	●											
	●	●	●			●(x2)	●(x2)	●(x2)	●(x2)	●(x2)	●(x2)	●(x2)	●(x2)	●(x2)	●(x2)	●(x2)
	●	●	●						●	●	●	●	●	●	●	●
	●	●	●						●	●	●	●	●	●	●	●
										●	●	●	●	●	●	●
	●	●	●						●	●	●	●	●	●	●	●
				●												
						●	●	●								
	●	●	●						●	●	●	●	●	●	●	●

	Air to water chillers			Water to water chillers									Centrifugals		
	EWAT-B-B	EWAT-B-C	EWFT-B-C	EWWQ-KC	EWLQ-KC	EWWT-Q	EWHT-Q	EWLT-Q	EWLD-I	EWW(L) S_H_D-J-	EWWS-VZ-A	EWWH-VZ-A	EWWD-VZ-A	EWWH-DZ	EWWH-DZ	EWWS-DZ
						●	●	●								
				●	●											
						●	●	●								
										●	●	●	●			
	●	●	●						●	●	●	●	●	●	●	●
	●	●	●						●	●	●	●	●	●	●	●
	●	●	●						●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

			Air to water chillers									
Other Systems & Accessories			**EWAA-DA/ EWYA-DA**	**EWAT-CZ**	**EWYT-CZ**	**EWYT-CZ O/I**	**EWYE-CZ**	**EWYD-BZ**	**EWYS-4Z**	**EWYT-B**	**EWA(D)(H)(S)-TZ D**	**ERAD-E**
EKDMAP		Access Point for mobile App HMI										
EKMDMAP		Access Point for mobile App HMI (MTO)										
EKCON		Converter RS485 to RS232						•				
EKCONUSB		Converter RS485 to USB						•				
EKMODEM		Fixed modem						•				
EKGSMOD		GSM modem						•				
EKRUPCJ		Remote display kit						•				
EKRSCPCS		Local/remote display external HMI										
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						•				
EKLS2	(d)	Low noise kit 22/28/35/45/55/65 Hp-units										
EKRP1HBA		PCB board	•									
RTD-W		Modbus Interface										
EKDAPCONT		Containerization of one unit						•	•	•	•	•
EKDAPSTF		Containerization of additional units in the same container						•	•	•	•	•
EKRSCLK		Lifting kit for stacked installation										
EKMFKIT3		Manifod module 3"										
EKMFKIT5		Manifod module 5"										
EKWCONNKIT3		EWWT Connection kit 3"										
EKHCONNKIT3		EWHT Connection kit 3"										
EKWCONNKIT5		EWWT Connection kit 5"										
EKHCONNKIT5		EWHT Connection kit 5"										
EKPUMPLL1		PUMP MODULE VFD LOW LIFT COOL 3.3 -9.4 HEAT 5.3-11.1										
EKPUMPLL2		PUMP MODULE VFD LOW LIFT COOL 9.5 -15.5 HEAT 11.2-19										
EKPUMPLL3		PUMP MODULE VFD LOW LIFT COOL 15.6-19.5 HEAT 19.1-23										
EKPUMPLL4		PUMP MODULE VFD LOW LIFT COOL 19.6 -23.1 HEAT 23.1-27.7										
EKPUMPLL5		PUMP MODULE VFD LOW LIFT COOL 23.2 -28.6 HEAT 27.8-34.7										
EKPUMPHL1		PUMP MODULE WITH VFD HIGH LIFT COOL 3.3 -11.6 HEAT 5.3-13.9										
EKPUMPHL2		PUMP MODULE WITH VFD HIGH LIFT COOL 11.7-15.5 HEAT 14-19										
EKPUMPHL3		PUMP MODULE WITH VFD HIGH LIFT COOL 15.6-20.8 HEAT 19.1-24.2										
EKPUMPHL4		PUMP MODULE WITH VFD HIGH LIFT COOL 20.9-29.6 HEAT 24.3-34.7										
EKRUBAVMC		RUBBER ANTI VIBRATION MOUNTS PER MANIFOLD										
EKRUBAVMP		RUBBER ANTI VIBRATION MOUNTS PER PUMP KIT										
EKWTRFLTR3		Water filter 3"										
EKWTRFLTR5		Water filter 5"										
EKVPFKIT		Kit for Variable Primary Flow systems on one loop only (for multiple units)										
EKSPELT2		Single Power Supply Kit for 2 modules										
EKSPELT3		Single Power Supply Kit for 3 modules										
EKSPELT4		Single Power Supply Kit for 4 modules										
EKCTRLPACK		Control Extension Pack: Alarm from external device; Double set-point										
EKICMGTW		iCM gateway (Multi Master Controller)										
EKSTCK		Stacked installation kit										
EKSBSM		Monifold module kit										
EKACTV		MOTORIZED VALVE										
EKRUBPAD		4x Rubber Pad 150x240										
EKWIO		Kit Water In/Out										
EKCAPS3		VICTAULIC CAPS FOR MANIFOLD MODULE 3"										
EKCAPS5		VICTAULIC CAPS FOR MANIFOLD MODULE 5"										

Notes: (a) Price does not include commissioning of panel; if commissioning is required please refer to RN17-041;(d) For 45/55/65 Hp-units 2 pieces are needed;,(e) Only available for modular units (EWWP~KAW1M); (g) Differential pressure sensor are specific for iCM panels in variable primary flow management;**=n cooling towers + 1 for iPM connection

	Air to water chillers			Water to water chillers									Centrifugals		
	EWAT-B-B	EWAT-B-C	EWFT-B-C	EWWQ-KC	EWLQ-KC	EWWT-Q	EWHT-Q	EWLT-Q	EWLD-I	EWW(L) S_H_D-J-	EWWS-VZ-A	EWWH-VZ-A	EWWD-VZ-A	EWWH-DZ	EWWH-DZ	EWWS-DZ
				•	•											
	•	•	•			•	•	•	•	•	•	•	•	•	•	•
				•	•											
	•	•	•						•	•	•	•	•	•	•	•
	•	•	•						•	•	•	•	•	•	•	•
				•	•											
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DAIKIN

Witness testing

Peace of mind system integration

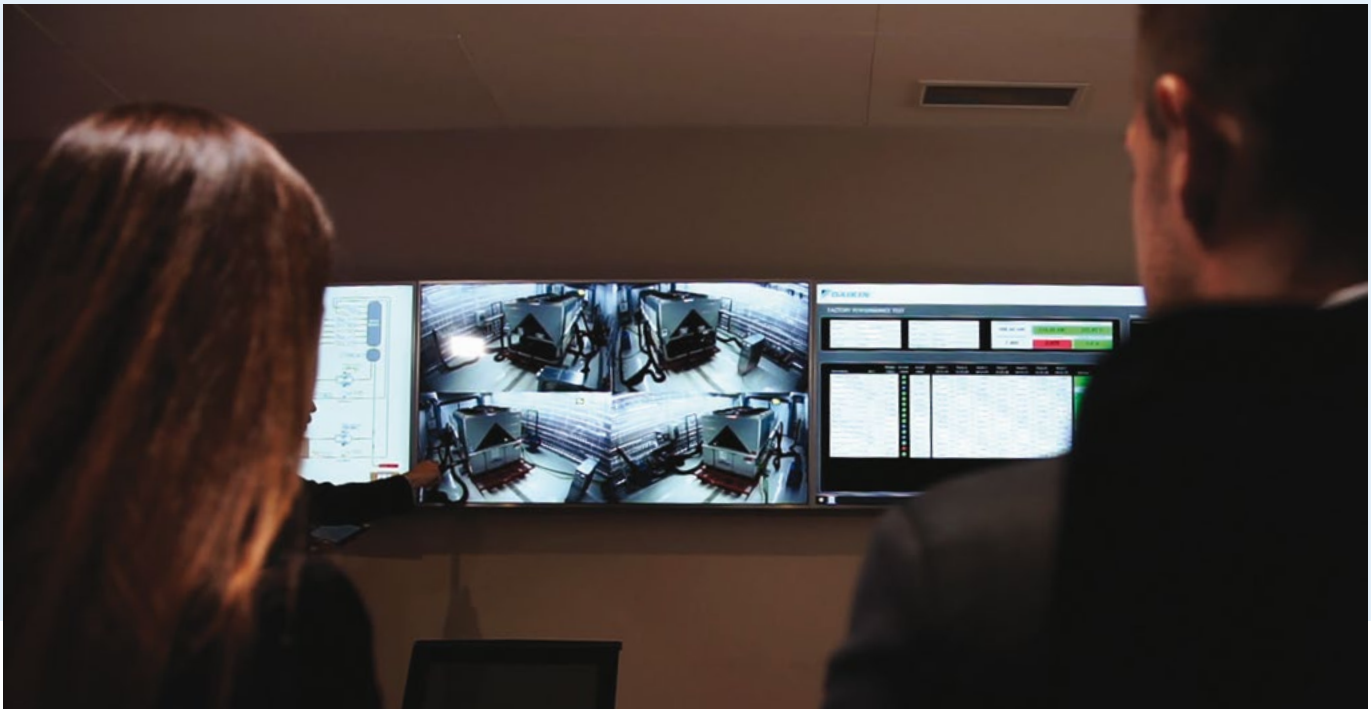
Each day, the solutions offered by Daikin Applied Europe ensure people the best configuration for their thermic comfort. Our solutions for process cooling and heating are worldwide requested. Any application can be served, resulting in a wide range of products available for our customers. We are industry leaders in air to water and water to water chiller technologies. All our efforts result in dedicated solutions tailored to application peculiarities. Our performance in each condition can be shared with customers during witness tests.

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

We have specific competencies and state of the art testing facilities to pursue these goals.

The new Daikin Applied Europe testing facilities in Cecchina factory (Rome, Italy) include:

- A newly built climatic test chamber
- 3 test stands dedicated to water to water chillers
- Customer Lounge, from where testing can be viewed in all comfort



New Climatic Chamber

☑ Testing facilities in Daikin Applied Europe

The state-of the-art testing centre follows a rigorous set of procedures to ensure proper operation of Daikin products in any environment. The new testing regime has been independently verified and accredited to EN 14511:2013, ISO 9614:2009 and other major recognised European and American HVACR industry standards. In addition, the climatic chamber has been approved by the Air Conditioning, Heating and Refrigeration Institute (AHRI), with tests on air to water units for the Eurovent testing campaign being conducted in this new Daikin facility.

Up to
2.000 kW
in cooling
at the forefront of testing

The range of tests that could be performed in the new chamber is very wide. It can be summarized in:

Eurovent and AHRI conditions at full load and part load

Customized full load and part load points, including:

- High ambient temperature installations: up to +52 °C
- Extremely low ambient temperature: down to -15 °C
- Negative evaporator leaving water temperature conditions: down to -8 °C with glycol solutions
- Heat recovery and heat pump tests
- 4-6 pipes units
- Free cooling
- Acoustic tests

- Voltage range: 380 – 400 – 440 – 690 V
- Frequency range: 50 – 60 Hz

The new climatic chamber enables testing of the entire air to water chiller range, in any design condition.

EWYD-4Z Multipurpose units
4 and 6 pipes layouts can be tested

NEW R-1234ze chiller EWAH-TZ B
Up to 1.060 kW – 20 FANS

Up to 30 FANS chiller EWAD-T B
Cooling capacity up to 2.000 kW

Each application can be simulated. From comfort cooling conditions (residential / office / commercial buildings / hospitals) to highly customized chillers for industrial process cooling applications (food / pharma / refrigerated warehouses / data centers, etc.). Chillers for rental cooling purposes can be tested in our facility, in different expected operating conditions.

Here are only a few examples of successful witness tests:

Application: Pharma

Unit: EWADC11TZ-XS B2

Cooling load: 695 kW

Conditions:
Chilled water in/out: 0/-5 °C
Ambient temperature: 42°C

Tests performed:
Full load + 3 part loads
Testing time: 1 day

Application: Bank headquarters

Unit: EWYD580BZ-SS

Cooling load: 580 kW
Heating load: 618 kW

Conditions:
Chilled water in/out:
- 12 / 7 °C at
- 35 °C ambient

Heated water in/out:
- 40 / 45 °C at
  7 °C ambient

Tests performed:
Full load in cooling & heating
50% part load in cooling
Acoustic test in cooling – full load
Testing time: 1 day

Application: Hospital

Unit: EWYD6504Z-XR A2

Cooling load: 756 kW
Heating load: 751 kW

Conditions:
Chilled water in/out:
- 12 / 6 °C at
- 38°C ambient

Heated water in/out:
- 40 / 45 °C at
  5 °C ambient

Tests performed:
Full load in cooling & heating
Acoustic test in cooling – full load
Testing time: 1 day

Water to water test stands

☑ Testing facilities in Daikin Applied Europe

Our chiller testing facility offers the most advanced testing technology for water to water units. 3 test stands are available for witness testing purposes, up to 2 – 4 – 11 MW cooling capacity. The largest capacity test stand is also AHRI approved.

Cooling applications can be simulated in many conditions. From small-medium sized comfort cooling conditions (residential / office / commercial buildings) to highly customized chillers for industrial process cooling applications (food / pharma, etc.) and up to large public buildings and district cooling applications. Chillers for marine applications can be tested in our facility, ensuring complete integration of the chiller in the ship's HVAC system.

Here are only a few examples of successful witness tests:

Application: Courthouse

Unit: EWWDC21VZ-XS A2

Cooling load: 1.736 kW

Conditions:
Chilled water in/out: 10 / 5 °C
Condenser water in/out: 40 / 45 °C
Power supply: 400 V / 50 Hz

Tests performed:
Full load + 3 part loads
Testing time: 1 day

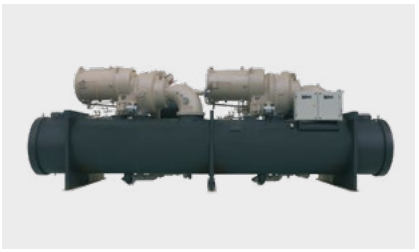
Application: Marine – cruise vessel

Unit: DWDC

Cooling load: 6.000 kW

Conditions:
Chilled water in/out: 12 / 6 °C
Condenser water in/out: 32 / 38 °C
Power supply: 11.000 V/ 60 Hz

Tests performed:
Full load + 3 part loads
Testing time: 1 day



Application: District cooling

Unit: WCT

Cooling load: 11 MW

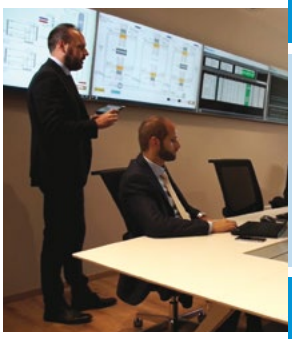
Conditions:
Chilled water in/out: 10 / 5 °C
Condenser water in/out: 35 / 39 °C
Power supply: 11.000 V/50 Hz

Tests performed:
Full load + 3 part loads
Testing time: 1 day

Power supply conditions can be set according to an extensive range:
Voltage: 380 – 400 – 460 – 690 – 3.000 – 3.300 – 4.160 – 6.000 – 6.600 – 10.000 – 11.000 – 13.200 – 13.800 V
Frequency– 60 Hz

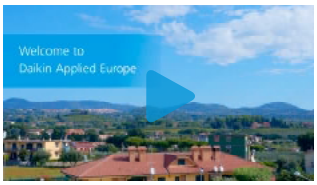
Customer Lounge

We elevate witness testing experience to a higher level. The dedicated lounge rooms ensure remote data log and monitoring from test stands. Product control and open discussion on product and design characteristics can then be fulfilled comfortably.

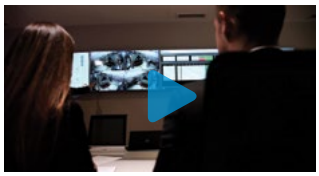


Product performance can be confirmed from the comfort of your chair. Details can be observed from the webcams all around the unit, ensuring customer expectations and safety. As well, the unit under testing can be directly checked through the glass.

Our customers are free to select what should be displayed on our monitors just by clicking on our tablet



YouTube
www.youtube.com/DaikinEurope



YouTube
www.youtube.com/DaikinEurope

Fan coil units

- Fan coil units efficiently convert water chillers, heat pumps, or hot water boilers into air conditioning systems.
- Suitable for both commercial and residential environments.
- Daikin offers various models for concealed and exposed applications.
- Only moving part is the fan, making them ideal for offices, hotels, and homes.
- Aims to provide both technical and aesthetic solutions.

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Why choose Daikin fan coil units?

As more buildings undergo renovation, the need to be able to deliver high indoor air quality in a specific space in an **efficient and cost-effective way** without having to do a radical re-fit of the entire HVAC system has made fan coil technology an obvious solution. Daikin has a full capacity range of **aesthetically pleasing** fan coil units with advanced controls that reliably deliver **excellent comfort levels.** And by using a refined range of advanced DC fan motors, we are able to offer flexibility while maintaining very low noise levels.

Why choose Daikin fan coil units?

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

Benefits for the installer

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

Benefits for the consultant

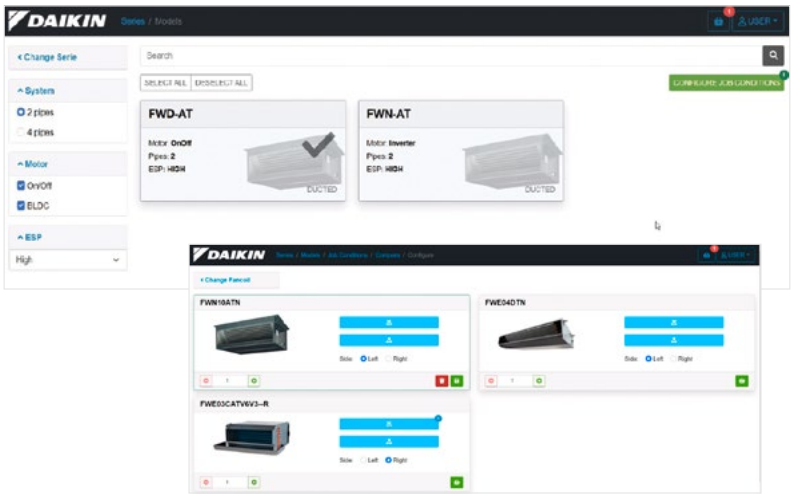
- Best solution in the market in order to have top efficiency, best comfort and lowest sound levels
- Product flexibility: wide range of options, accessories and controls

Benefits for the end user

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

New generation web-based fan coil selection software

Scan the QR code
and try it now



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

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

BIM objects

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

Visit our BIM Application Suite

BLDC fan motors Video

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

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

YouTube

Expanded FCU Controller Lineup

FWEC2T/4T/10
Simplified electronic controller

Wired on-wall controller available in 3 models:

- 2 pipe
- 4 pipe
- BLDC (with automatic speed function)
- 230 V ON-OFF valve control (cooling/heating)
- Dedicated temperature probe and on-board mounting kit

New BLDC Open Protocol Cassette

FWF-D & FWC-D

Structure & Performance

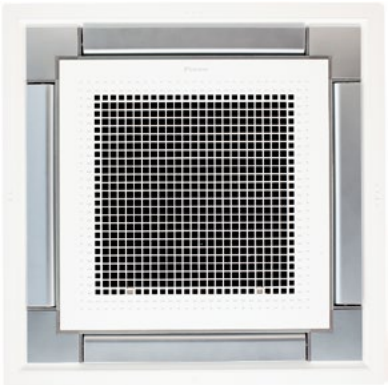
- 600x600 module
- BLDC fan-motor
- Cooling capacity up to 5 kW

Structure & Performance

- 900x900 module
- BLDC fan-motor
- Cooling capacity up to 9,8 kW

Options & Controls

- 230V ON-OFF valve available also as factory mounted
- Compatible with Daikin FCU wired controllers
- The "open protocol" feature allows 3rd party controller and BMS integration through the Modbus protocol
- Different design diffusion panels available



2x2 fully flat design panel

3x3 round flow design panel

STREAMER

New BLDC Hi-Wall Unit

FWT-HT(V)

Performance & Features

- Modern white panel design
- DC fan-motor
- 5 different sizes from 2,4 kW to 5,3 kW
- 230V ON-OFF internal 3-way valve available as factory mounted
- 2-way valve available as supplied loose accessory
- Double filtration stage (Gin-Ion filter + PM2,5 filter)
- Daikin Flash Streamer technology integrated
- Modbus gateway available as accessory for BMS integration
- New wireless and wired controller

Wireless remote controller ARC485B2

Wired remote controller BRC51D67

Shinka

FCU wired remote controller

The perfect balance of comfort, control and efficiency

Whether you're looking to maintain perfect comfort in your home, office, or commercial building, Shinka controller ensures optimal performance for every fan coil units system.

Shinka Touch
(SHINKATOUCHWA/BA)

Shinka Zone
(SHINKAZONEWA/BA)

FCU Control PCB
(FWEDA)

Shinka Sense
(SHINKASENSEWA)

Proximity sensor

Light sensor

- **Shinka Touch:** single-zone control
- **Shinka Zone:** multi-zone control
- **Shinka Sense:** single-zone control with integrated advanced sensors

Benefits

Single-zone controller

This model represents an advanced, efficient, and complete single-zone control system, perfect for maintaining optimal comfort in individual spaces.

- Color Full-Touch display 4,3”
- Embedded Bluetooth connectivity
- FCU complete control with programmable settings (economy/ antifreeze functions, weekly custom schedules, notifications for anomalies or maintenance)
- Multi-sensor integration (light, proximity) available with Shinka Sense model
- Can be integrated within a multi-zone or BMS system through Modbus protocol

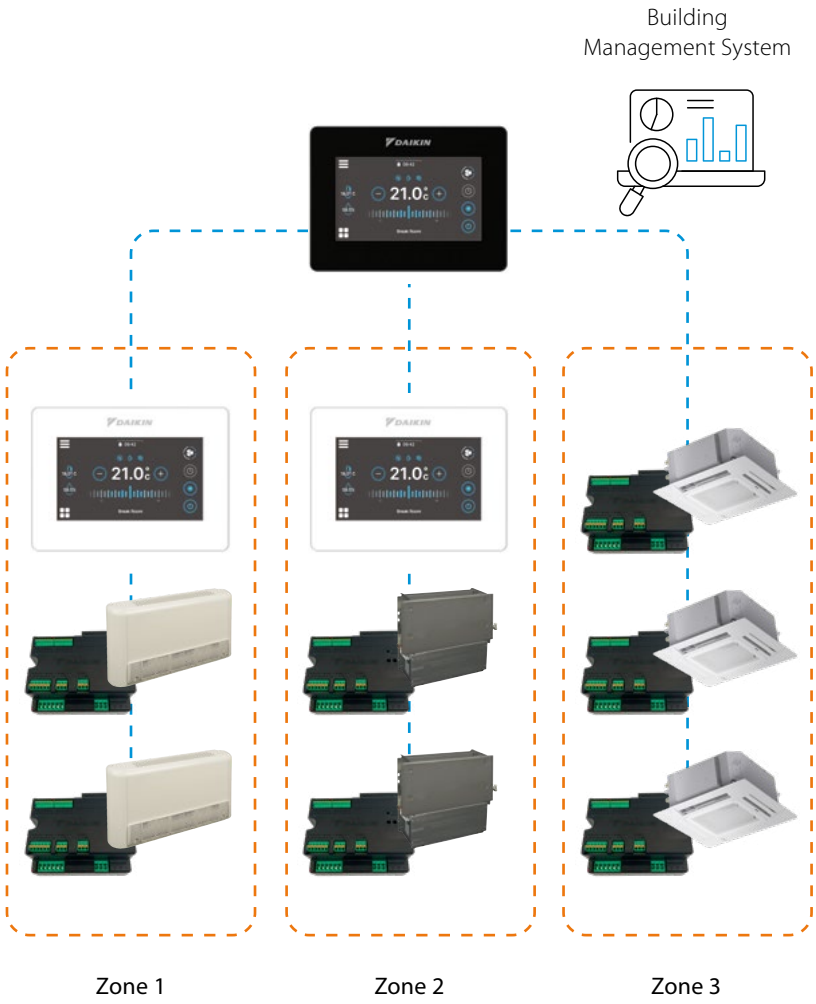
Multi-zone controller

This model represents a versatile, scalable, and highly customizable system, ideal for optimizing comfort and energy efficiency in complex spaces or large buildings.

- Independent temperature control in different areas (zones) of a building
- Ability to set customized temperatures and schedules for each zone
- Access to real-time data for each zone

Commissioning Mobile App

Available for iOS and Android



Products overview

Type	Model	Product name		Fan motor type	Capacity
Cassette	**Round flow cassette** • 900 x 900 cassette • 360° air discharge ensures uniform air flow • Integrated fresh air intake • Easy installation in corners • Standard drain pump with 850 mm lift	**FWC-BT/BF**		BLDC	Cooling: 4,0 - 8,7 kW Heating: 4,8 - 10,6 kW
	4-way blow ceiling mounted cassette • 600 x 600 cassette • Integrated fresh air intake • Horizontal auto swing • Easy installation in corners • Standard drain pump with 750 mm lift	**FWF-BT/BF**		AC	Cooling: 1,4 - 4,9 kW Heating: 2,3 - 5,6 kW
	Open Protocol Cassette • 600 x 600 and 900 x 900 cassette • BLDC motor with low energy consumption up to 75% • 4-way air discharge • Open protocol for control • Condensate drainage pump up to 900 mm lift	**FWI-AT/AF**		BLDC	Cooling: 1,33 - 10,5 kW Heating: 1,49 - 12,2 kW
	Open Protocol Cassette • 600 x 600 and 900 x 900 cassette • ON/OFF 3-speed motor • 4-way air discharge • Open protocol for control • Condensate drainage pump up to 900 mm lift	**FWH-AT/AF**		AC	Cooling: 1,70 - 9,73 kW Heating: 1,97 - 11,1 kW
	Open protocol cassette • 600 x 600 cassette • BLDC fan-motor with improved energy efficiency • Possibility to choose the fully-flat design panel • Standard DC drain pump with 835 mm lift • Open protocol for control	**FWF-DT/DF**		BLDC	Cooling: 1,3 - 5,1 kW Heating: 1,56 - 5,74 kW
	Open protocol cassette • 900 x 900 cassette • BLDC fan-motor with improved energy efficiency • Possibility to choose the round flow black design panel • Standard DC drain pump with 835 mm lift • Open protocol for control	**FWC-DT/DF**		BLDC	Cooling: 6,3 - 9,6 kW Heating: 6,8 - 10,7 kW
Floor standing units	**Floor standing unit** • For vertical mounting • Continuous air flow regulation and fan speed modulation • Up to 70% energy savings • Low sound levels	**FWZ-AT/AF**		BLDC	Cooling: 2,64 - 10,08 kW Heating: 2,46 - 11,18 kW
	Floor standing unit • For horizontal or vertical concealed mounting • Insulated valve packages, no extra drain pan required • Fast-on connections for electrical options: no tools needed • Easy maintenance	**FWV-DAT/ DAF**		AC	Cooling: 1,46 - 8,02 kW Heating: 1,90 - 10,03 kW
Flexi type units	**Flexi type unit** • For horizontal or vertical mouting • Continuous air flow regulation and fan speed modulation • Up to 70% energy savings • Low sound levels	**FWR-AT/AF**		BLDC	Cooling: 2,64 - 10,08 kW Heating: 2,46- 11,18 kW
	Flexi type unit • For horizontal or vertical concealed mounting • Insulated valve packages, no extra drain pan required • Fast-on connections for electrical options: no tools needed • Easy maintenance	**FWL-DAT/ DAF**		AC	Cooling: 1,46 - 8,02 kW Heating: 1,90 - 10,03 kW
	Concealed flexi type unit • For horizontal or vertical concealed mounting • Continuous air flow regulation and fan speed modulation • Up to 70% energy savings • Low sound levels	**FWS-AT/AF**		BLDC	Cooling: 2,64 - 10,08 kW Heating: 2,46 - 11,18 kW
	Concealed flexi type unit • For horizontal or vertical concealed mounting • Insulated valve packages, no extra drain pan required • Fast-on connections for electrical options: no tools needed • Easy maintenance	**FWM-DAT/ DAF**		AC	Cooling: 1,46 -8,02 kW Heating: 1,90 - 10,03 kW
	Concealed flexi type • For horizontal or vertical concealed mounting • Available static pressure up to 30 Pa • Easy installation and maintenance • 5/6 speed fan motor • High power air flow	**FWE-DT/DF**		AC	Cooling: 1,2 - 5,6 kW Heating: 1,3 - 6,3 kW

Capacity class

	1	15	2	25	3	35	4	5	6	7	8	9	10	11	12	14	15	16	17	18	20	24
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Products overview

Type	Model	Product name		Fan motor type	Capacity
Ducted units	**Ducted unit with low ESP** - For horizontal or vertical concealed mounting - Available static pressure up to 50 Pa - Easy installation and maintenance - 4 speed fan motor - High power air flow	FWE-DT/DF		AC	Cooling: 2,10 - 9,96 kW Heating: 2,3 - 13,00 kW
	Concealed ceiling unit with low ESP - Available static pressure up to 80Pa - Standard left and right side water connection - Additional drain pan as standard G2 plastic frame filter - Open protocol control - Factory mounted valve available as option - Reduced sound noise thanks to the thinner heat exchanger	FWE-FT/FF		AC	Cooling: 1,6 - 12 kW Heating: 1,9-12,1 kW
	Ducted unit with medium ESP - For horizontal concealed mounting - Instant adjustment to temperature and relative humidity changes - Available static pressure up to 80 Pa at max speed - Heat exchanger up to 4 rows	FWP- CT/ CF		BLDC	Cooling: 1,97 - 8,28 kW Heating: 1,99 -8,46 kW
	Ducted unit with medium ESP - For horizontal concealed mounting - Available static pressure up to 80 Pa at max speed - Heat exchanger up to 4 rows - Easy maintenance	FWB-CT/CF		AC	Cooling: 1,90 - 8,12 kW Heating: 1,99 -8,46 kW
	Ducted unit with medium ESP - For horizontal or vertical concealed mounting - Avaiable static pressure up to 70 Pa - Easy maintenance	FWN-AT/AF		BLDC	Cooling: 2,83 - 8,75 kW Heating: 3,63 - 18,10 kW
	Ducted unit with high ESP - For horizontal or vertical concealed mounting - Available static pressure from 60 up to 145 Pa - Easy maintenance	FWD-AT/AF		AC	Cooling: 3,90 - 18,30 kW Heating: 4,05 - 21,92 kW
Wall mounted unit	**Wall mounted unit** - High aesthetic cabinet design - Optimum air distribution - Easy installation - 3-speed fan motor	FWT-GT		AC	Cooling: 2,43 - 5,28 kW Heating: 3,22 - 7,33 kW

Capacity class

	1	15	2	25	3	35	4	5	6	7	8	9	10	11	12	15	16	17	18
			•		•		•	•	•	•	•		•	•					
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Why choose a fan coil Round flow cassette?

Fan coil 4-way blow ceiling mounted units deliver exceptional air distribution through four directional outlets, ensuring even cooling or heating across large spaces.

These units are perfect for open-plan offices, retail spaces, or any area requiring consistent climate control. Their compact design allows for easy installation in suspended ceilings without compromising aesthetics.

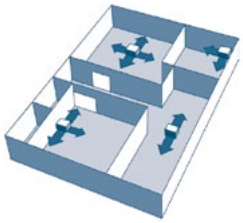
ROUND FLOW

FWC-BT/BF

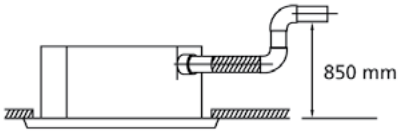
Fan coil

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



FWC-BT/BF

BRC7F532F

BRC1HF

FWC-BT

FWC-BF

Indoor unit			FWC-BT/BF	06	07	08	09	06	07	08	09
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	5,5	6,1	7,2	8,1	5,9	6,3	7,2	8,3
		Medium	kW	4,7	5,3	5,9	6,8	5,1	5,6	6,2	6,9
		Low	kW	3,9	4,5	4,8	5,4	4,3	4,6	4,8	5,7
	Sensible capacity	High	kW	4,2	4,7	5,7	6,5	4,2	4,6	5,4	6,4
		Medium	kW	3,5	4,0	4,5	5,3	3,6	4,0	4,5	5,2
		Low	kW	2,8	3,3	3,5	4,1	3,1	3,3	3,5	4,0
	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
	Low		kW	4,8	5,5	5,8	7,0	5,2	5,5	5,8	6,8
Power input	High		kW	0,045	0,054	0,077	0,107	0,046	0,055	0,077	0,107
	Medium		kW	0,040	0,046	0,058	0,076	0,041	0,047	0,059	0,077
	Low		kW	0,034	0,037	0,039	0,045	0,035	0,038	0,040	0,046
FCEER				116	119	113	104	124	120	112	106
FCCOP				143	147	141	137	149	144	138	131
Dimensions	Unit	HeightxWidthxDepth	mm	288x840x840							
Weight	Unit		kg	26				29			
Decoration panel	Dimensions	HeightxWidthxDepth	mm	95x999x1.008							
		Weight	kg	7							
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	1.068	1.236	1.518	1.776	1.032	1.200	1.476	1.746
		Medium	m^3/h	894	1.038	1.200	1.410	864	1.002	1.164	1.374
		Low	m^3/h	720	834	888	1.044	708	804	852	1.014
Total sound power level	High		dBA	43,0	47,0	53,0	57,0	43,0	47,0	53,0	57,0
	Medium		dBA	36,0	39,0	44,0	49,0	36,0	39,0	44,0	49,0
	Low		dBA	31,0	33,0	36,0	40,0	33,0	36,0		40,0
Sound pressure level	High		dBA	29,0	33,0	39,0	43,0	29,0	33,0	39,0	43,0
	Medium		dBA	24,0	28,0	32,0	37,0	24,0	28,0	32,0	37,0
	Low		dBA	21,0	22,0	24,0	28,0	21,0	22,0	24,0	28,0
Piping connections	Drain	OD	mm	VP25 (External dia. 32 / internal dia. 25)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240							

Options		FWC-BT/BF
	Decoration Panel Round Flow Standard	**BYCQ140C**
	Sealing member of air discharge outlet	**KDBHQ55C140**
	Long-life filter	**KAFP551K160**
	Panel spacer	**KDBQ44B60**
	Fresh air intake kit	**KDDP55C160-1 + KDDP55D160-2**
	Madoka Remote Control Wired	**BRC1HF** [1]
	Central remote control Up to 64 groups can be controlled with a maximum of 128 devices per group	**DCS302C51** [2]
	Electrical box with earth terminal (3 blocks)	**KJB311A**
	Unified on/off control Up to 16 device groups can be controlled; operating indication given by LED	**DCS301B51** [5]
	Electrical box with earth terminal (2 blocks)	**KJB212A**
	Schedule timer 2 programmable on/off times per day; power reserve 48 hours	**DST301B51** [5][8]
	Wiring adapter for electrical appendices 1 Additional board for external control and monitoring; on/off; operating and fault message; setpoint specification via 0 ... 140 Ohm signal for entire F1 / F2 line.	**KRP2A52** [4][8]
	Wiring adapter for electrical appendices 2 Additional board for external control and monitoring; on/off; operating and fault message; setpoint specification via 0 ... 140 ohm Signal for a P1 / P2 line.	**KRP4A53** [4][8]
	Remote control Infrared H/P	**BRC7F532F** [11]
	Remote control Infrared C/O	**BRC7F533F** [11]
	Installation box for adapter PCB	**KRP1H98A** [9]
	Remote Sensor with 12 meters of cable	**KRCS01-4**
	Intelligent touch controller Up to 2 device groups can be controlled with a maximum of 64 devices per group	**DCS601C51** [3][7]
	Electrical installation box	**KJB411A**
	Optional PCB for MOD-bus connection	**EKFCMBCB** [4][8]
	2-way valve - On/Off Actuator 230V and piping unit included	**EKMV2C09B** [4][6][10]
	3-way valve - On/Off Actuator 230V and piping unit included	**EKMV3C09B** [4][6][10]
	Valve control PCB	**EKRP1C11**
	Modbus Interface for monitoring and control Universal control adapter provides external control/monitoring via 0-10 kΩ resistor or 0-10VDC input signals or floating contacts; operating or defrost signal, fault message as well as an interface to the Modbus protocol is possible; connection to P1 / P2 terminals (max 16 indoor units); a BRC remote control can be additionally connected	**RTD-10**

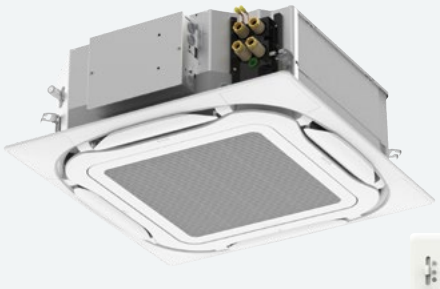
1. Optional, electrical installation box with earth terminal KJB212A is required, if controller wires need to be installed in the wall.
2. Requires electrical installation box with earth terminal KJB311A.
3. Requires electrical installation box KJB411A.
4. Requires installation box KRP1H98A for FWC-B and KRP1BB101 for FWF-B.
5. Requires electrical installation box with earth terminal KJB212A, if built in the wall.
6. Requires valve control PCB EKRP1C11.
7. I-touch:
   - Not allowed to use the i-touch for an installation with both fan coils and VRV units.
   - Can not be used in combination with fan coil units, that use MOD bus communication.
   - No Airnet or telephone connection possible.
8. Only 1 of these 2 options can be installed on 1 indoor unit.
9. Max. 1 KRP1H98A box can be mounted on the unit.
   Max. 2 PCB's can be mounted in 1 KRP1H98A box.
10. 2-pipe unit: 1 x valve kit + 1 x installation box for PCB KRP1H98A + 1 x valve control PCB EKRP1C11.
    4-pipe unit: 2 x valve kit + 1 x installation box for PCB KRP1H98A + 1 x valve control PCB EKRP1C11.
11. It is possible to change the operation mode, but this will not have an impact on the water temperature.
    (No feed back to water source)
    It is not possible to select the "auto air flow" setting.
    Dry operation can be selected with this remote control, but this function is not available on the FWC-B model.

All options are supplied as kit.

FWC-DT/DF

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

- Reduced energy consumption thanks to specially developed heat exchanger, DC fan motor and drain pump
- Optional fresh air intake
- Open protocol unit allows controller integration
- Standard drain pump with 835mm lift increases flexibility and installation speed
- Unit fits into standard 900x900 architectural modules
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010)



FWC-D

FWEC10

FWEC3A

FWEDA

SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWC-DT FWC-DF

Indoor unit			FWC-DT/DF	06	07	08	09	06	07	08	09
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	6,34	7,53	8,7	4,88	6,01	7,15	8,41	9,58
		Medium	kW	4,98	5,74	6,44	6,89	4,76	5,45	6,16	6,69
		Low	kW	4,06	4,51	4,81	9,66	3,96	4,35	4,68	4,85
	Sensible capacity	High	kW	4,9	5,87	6,87	7,84	4,58	5,58	6,66	7,79
		Medium	kW	3,8	4,42	5,02	5,41	3,59	4,17	4,75	5,28
		Low	kW	3,04	3,38	3,63	3,69	2,93	3,26	3,52	3,64
	Latent capacity	High	kW	1,44	1,66	1,83	1,82	1,43	1,57	1,75	1,79
Heating capacity (standard conditions)	High		kW	6,79	8,14	9,51	10,7	7,47	8,82	10,21	11,47
	Medium		kW	5,2	6,05	6,83	7,36	5,9	6,74	7,52	8,08
	Low		kW	4,15	4,62	4,94	5,02	4,87	5,34	5,65	5,77
Power input	High		kW	0,045	0,071	0,104	0,167	0,043	0,069	0,102	0,165
	Medium		kW	0,03	0,04		0,06	0,03		0,04	0,06
	Low		kW	0,02		0,03		0,02			0,03
FCEER				174	170	156	133	182	174	160	137
FCCOP				179	177	164	141	225	216	196	167
Dimensions	Unit	HeightxWidthxDepth	mm	287/837/921							
Weight	Unit		kg	25				27			
Decoration panel	Dimensions	HeightxWidthxDepth	mm	95x999x1.008							
		Weight	kg	7							
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	1.080	1.336	1.615	1.881	1.051	1.296	1.563	1.816
		Medium	m^3/h	798	943	1.081	1.176	782	920	1.053	1.143
		Low	m^3/h	621	697	747	757	614	686	734	743
Total sound power level	High		dBA	46	52	56	61	46	52	57	62
	Medium		dBA	38	42	46	49	39	43	46	50
	Low		dBA	35		36	39	35	36	37	40
Sound pressure level	High		dBA	33	39	43	48	33	39	44	49
	Medium		dBA	25	29	33	36	26	30	33	37
	Low		dBA	22		23	26	22	23	24	27
Piping connections	Drain	OD	mm	VP25 (External dia.32/ internal dia. 25)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							

Options	FWC-DT/DF	02	03	04	05	02	03	04	05
		2 Pipe				4 Pipe			
	Design decoration panel 900 x 900 (white)*	**BYCQ140EW**							
	Design decoration panel 900 x 900 (Black)*	**BYCQ140EB**							
	Design decoration panel 900 x 900 (standard)*	**BYCQ140E**							
	Decoration panel 900 x 900	**BYCQ140C**							
	Adaptor for design panel * - for BYCQ140EW, BYCQ140EB & BYCQ140E	**EKRP1CAS5A**							
	3-ways ON/OFF 230V valve kit	**EK10WV3V3C5A**				**EK10WV3V3C5A + EK08WV3V3W5A**			
	2-ways ON/OFF 230V valve kit	**EK10WV2V3C5A**				**EK10WV2V3C5A + EK08WV2V3W5A**			
	Additional drain pan	**EDT03D5A**							
	Additional cable for 3rd party valve kit integration [1]	**EKER030A**							
	Wired Controller FWEC10: Electronic controller suitable for models with doubly HX (2/4-pipes), it can control 3 or 4 speeds fan(stepless for EC motor), ON/OFF type valve control, SUMMER/WINTER manual switch or automatic (on the basis of the air temperature) , ventilation consent on the basis of the water temperature	**FWEC10**							
	Wired remote controller (Advanced Plus)	**FWEC3A**							
	Split controller - power control board	**FWEDA**							
	Split controller - touch screen control panel	**SHINKATOUCHWA (white)/SHINKATOUCHBA (black)**							
		SHINKAZONEWA (white)/SHINKAZONEBA (black)							
		SHINKASENSEWA (white)							
	Temperature sensor kit	**FWTSKA**							
	Relative humidity sensor kit	**FWHSKA**							
	Water temperature sensor for simplified controller	**FWCSWA**							
	Sealing member of air discharge outlet	**KDBHQ55C140**							
	Panel Spacer	**KDBQ44B60**							
	Long-life filter	**KAF5511D160**							
	High efficiency filter	**BAF552AA160**							
	Fresh air intake kit	**KDDP55C160-1 + KDDP55D160-2**							

Notes

(1) Additional cable for 3rd party valve kit integrating is a must needed for the communication between the unit and valves, For 2 pipe unit - 1 Pc is needed and for 4 pipe unit 2 Pcs are needed

FWH-AT/AF

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

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

FWH-AT/AF

FWEC2T/4T

FWEC1,2,3A

FWEDA

SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWH-AT

FWH-AF

Indoor unit			FWH-AT/AF	2	3	4	6	7	8	2	3	4	6	8
				2-pipe						4-pipe				
Cooling capacity (standard conditions)	Total capacity	High	kW	2,53	4,31	5	7,01	8,24	9,73	2,35	3,38	3,62	7,45	9
		Medium	kW	1,97	3,55	4,61	5,36	6,11	8,61	1,85	0,83	3,38	6,6	8,48
		Low	kW	1,7	2,39	3,4	4,64	5,16	6,34	1,56	2,01	2,58	4,73	5,83
	Sensible capacity	High	kW	2,14	3,18	3,79	5,29	6,1	7,35	1,94	3,38	3,02	5,81	6,98
		Medium	kW	1,6	2,53	3,44	3,99	4,37	6,4	1,49	2,22	2,77	5,04	6,56
		Low	kW	1,33	1,66	2,43	3,42	3,68	4,59	1,24	1,49	2	3,47	4,29
Heating capacity (standard conditions)	High		kW	3,1	4,3	5,35	8,17	9,18	11,1	3,55	4,22	4,81	10,6	12,4
	Medium		kW	2,33	3,44	4,92	6,06	6,53	9,53	2,88	3,62	4,54	9,6	11,7
	Low		kW	1,97	2,29	3,49	5,16	5,22	6,71	2,53	2,75	3,67	7,2	8,64
Power input	High		kW	0,042	0,05	0,089	0,108		0,147	0,042	0,05	0,089	0,108	0,147
	Medium		kW	0,023	0,04	0,074	0,064		0,108	0,023	0,04	0,074	0,064	0,108
	Low		kW	0,018	0,032	0,057	0,047		0,064	0,018	0,032	0,057	0,047	0,064
FCEER				C		D	C			E			C	D
FCCOP				C	D	E	D	C	D	C	D	E	C	
Dimensions	Unit	HeightxWidthxDepth	mm	298X577x577			350x793x793			298x577x577			350x793x793	
Weight	Unit		kg	23			43			23			43	
Decoration panel	Dimensions		mm	41x730x730			75x860x860			41x730x730			75x860x860	
	Weight		kg	2,5			5			2,5			5	
Fan	Type			Backward Centrifugal										
	Quantity			1										
	Air flow rate	High	m^3/h	557	640	805	1.494	1.380	1.651	533	640	805	1.380	1.651
		Medium	m^3/h	379	487	717	997	902	1.380	366	487	717	1.147	1.544
		Low	m^3/h	297	306	479	801	718	902	289	306	479	718	902
Total sound power level	High		dBA	45	50	58	51		56	45	50	58	51	56
	Medium		dBA	37	44	55	40		51	37	44	55	40	51
	Low		dBA	33	40	47	35		40	33	40	47	35	40
Sound pressure level	High		dBA	37	42	50	43		32	37	42	50	43	48
	Medium		dBA	29	36	47	32		43	29	36	47	32	43
	Low		dBA	25	32	39	27		48	25	32	39	27	32
Piping connections	Drain	OD	mm	10										
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230										

FWI-AT/AF

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

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

FWI-AT FWI-AF

Indoor unit			FWI-AT/AF	2	3	4	6	7	8	2	3	4	8
				2-pipe						4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	2,63	4,39	5,23	6,39	9,04	10,5	2,6	4,41	6,61	9,5
		Medium	kW	2,24	3,4	3,95	5,36	7,26	8,37	2,18	3,53	5,34	7,62
		Low	kW	1,93	2,68	2,76	4,8	5,92	6,7	1,85	2,62	4,61	6,09
	Sensible capacity	High	kW	2,2	3,41	4,11	4,75	6,78	7,97	2,23	3,58	5,03	7,56
		Medium	kW	1,81	2,54	2,96	3,92	5,31	5,15	1,79	2,74	3,94	5,82
		Low	kW	1,51	1,94	1,98	3,8	4,24	4,8	1,46	2,1	3,34	4,5
Heating capacity (standard conditions)	High		kW	3,25	4,58	5,55	7,3	10,2	12,2	3,86	5,51	9,53	12,9
	Medium		kW	2,7	3,48	4,09	6	7,99	9,35	3,34	4,38	7,96	10,8
	Low		kW	2,27	2,69	2,77	5,5	6,33	7,23	2,9	3,73	7,01	8,96
Power input	High		kW	0,018	0,037	0,067	0,036	0,067	0,15	0,018	0,067	0,036	0,15
	Medium		kW	0,01	0,015	0,022	0,018	0,036	0,06	0,01	0,022	0,018	0,06
	Low		kW	0,007	0,009		0,013	0,018	0,025	0,007	0,009	0,014	0,025
FCEER CLASS				A					B		A		B
FCCOP CLASS				A	B					A	B	A	B
Dimensions	Unit	HeightxWidthxDepth	mm	298x577x577			350x793x793			298x577x577		350x793x793	
Weight	Unit		kg	23			43			23		43	
Decoration panel	Dimensions		mm	41x730x730			75x860x860			41x730x730		75x860x860	
	Weight		kg	2,5			5			2,5		5	
Fan	Type			Backward Centrifugal									
	Quantity			1									
	Air flow rate	High	m^3/h	583	796	980	1.276	1.554	1.831	610	982	1.137	1.823
		Medium	m^3/h	454	551	650	978	1.143	1.321	460	643	841	1.314
		Low	m^3/h	397			843	864	976	356	395	687	956
Total sound power level	High		dBA	46	54	61	45	53	58	46	61	45	58
	Medium		dBA	40	44	49	39	45	50	40	49	39	50
	Low		dBA	35	37	38	35	39	43	35	38	35	43
Sound pressure level	High		dBA	38	46	61	37	45	50	46	61	45	58
	Medium		dBA	33	36	49	31	37	42	40	49	39	50
	Low		dBA	27	29	38	27	31	35	35	38	35	43
Piping connections	Drain	OD	mm	10									
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230									

Options		FWH-AT/AF	02	03	04	06	07	08	02	03	04	06	08
		FWI-AT/AF	02	03	04	06	07	08	02	03	--	06	08
			2 Pipe						4 Pipe				
	PANEL RAL 9003		**FPAN02B**			**FPAN06A**			**FPAN02B**			**FPAN06A**	
	SPIGOT FOR FRESH AIR		**SPFAI1A**			**SPFAI2A**			**SPFAI1A**			**SPFAI2A**	
	Coanda effect decoration panel 600 x 600		**FCND02A**										
	AIR DISTRIBUTION PLENUM		**PPAI02A**			**PPAI06A**			**PPAI02A**			**PPAI06A**	
	3-way on-off 230V		**E2C3V02A**			**E2C3V06A**			**E4C3V02A**			**E4C3V06A**	
	3-way on-off 24V		**E2C324V02A**			**E2C324V06A**			**E4C324V02A**			**E4C324V06A**	
	3-way modulating 24V		**E2C3PV02A**			**E2C3PV06A**			**E4C3PV02A**			**E4C3PV06A**	
	2-way on-off 230V		**E2C2V02A**			**E2C2V06A**			**E4C2V02A**			**E4C2V06A**	
	2-way on-off 24V		**E2C224V02A**			**E2C224V06A**			**E4C224V02A**			**E4C224V06A**	
	2-way modulating 24V		**E2C2PV02A**			**E2C2PV06A**			**E4C2PV02A**			**E4C2PV06A**	
	PICV on-off 230V		**E2C2PICV02A**			**E2C2PICV06A**			**E4C2PICV02A**			**E4C2PICV06A**	
	PICV modulating 24V		**E2C2PRPICV02A**			**E2C2PRPICV06A**			**E4C2PRPICV02A**			**E4C2PRPICV06A**	
	Electronic Controller - standard version It can operate with 3 speeds of fan only, if it also manages 2 valves on 4-pipes unit; on/off control valve; heating/cooling function; digital input for external release or window contact		**FWEC1A**										
	Electronic Controller - advanced version 3 or 4 stages speed controller; on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol)		**FWEC2A**										
	Electronic Controller - advanced plus version 3 or 4 stages speed controller (or stepless for EC motor); on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol); timer with weekly program and illuminated LCD		**FWEC3A**										
	Wired Controller FWEC2T: Electronic controller suitable for models with single HX (2-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.		**FWEC2T** (1)										
	Wired Controller FWEC4T: Electronic controller suitable for models with doubly HX (4-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.		**FWEC4T** (1)										
	Wired Controller FWEC10: Electronic controller suitable for models with doubly HX (2/4-pipes), it can control 3 or 4 speeds fan(stepless for EC motor), ON/OFF type valve control, SUMMER/WINTER manual switch or automatic (on the basis of the air temperature) , ventilation consent on the basis of the water temperature.		**FWEC10** (2)										
	Split controller - power control board		**FWEDA**										
	Split controller - touch screen control panel		**SHINKATOUCHWA (white)/SHINKATOUCHBA (black)**										
			SHINKAZONEWA (white)/SHINKAZONEBA (black)										
			SHINKASENSEWA (white)										
	Wall mounting kit (spacing collar) for FWEC1A /2A and 3A		**FWFCKA**										
	Temperature sensor kit for FWEC1A /2A and 3A; with 1,5 meters of cable		**FWTSKA**										
	Relative humidity sensor kit for FWEC2A and FWEC3A; with 1,5 meters of cable		**FWHSKA**										
	Water temperature sensor for simplified controller		**FWCSWA**										
	Master/Slave interface for connection of max. 4 devices to a remote control; max. 3,2 Amp. operating current per device connection		**EPIMSA6** (1)										

Notes: (1) Only for the FWH-A units, (2) Only for FWI-A units

Why choose a fan coil cassette?

Fan coil cassettes offer a sleek and unobtrusive design that seamlessly integrates into any ceiling space, making them ideal for commercial and residential environments. These units provide efficient cooling and heating performance while maintaining quiet operation. The air distribution ensures uniform temperature control throughout the room, enhancing comfort levels significantly.

FWF-BT/BF

Fan coil

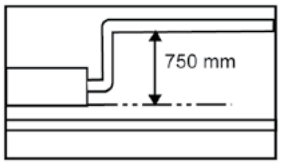
AC fan motor unit for ceiling mounting,
Possibility to shut 1 or 2 flaps

- 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

FWF-BT/BF

BRC7E530

BRC1HF



FWF-BT FWF-BF

Indoor unit			FWF-BT/BF	02	03	04	05	02	03	04	05
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1,7	3,0	4,0	4,9	1,8	2,9	3,8	4,6
		Medium	kW	1,5	2,7	3,1	4,0	1,5	2,4	3,1	3,8
		Low	kW	1,3	2,4		2,8	1,3	1,6		2,6
	Sensible capacity	High	kW	1,4	2,0	2,7	3,5	1,5	1,8	2,5	3,2
		Medium	kW	1,2	1,7	2,0	2,7	1,2	1,5	1,9	2,5
		Low	kW	1,0	1,4		1,8		1,0		1,6
	Latent capacity	High	kW	0,3	1,0	1,3	1,4	0,3	1,1	1,3	1,4
Heating capacity (standard conditions)		High	kW	2,4	3,3	4,5	5,6	3,3	3,6	4,7	5,7
		Medium	kW	2,1	2,9	3,5	4,4	2,9	3,1	3,7	4,7
		Low	kW	1,9	2,7		3,0	2,4	2,6		3,2
Power input		High	kW	0,074		0,090	0,118	0,074		0,094	0,121
		Medium	kW	0,067		0,070	0,089	0,067	0,062	0,074	0,093
		Low	kW	0,060		0,055	0,062	0,060	0,055		0,066
FCEER				22	40	44	45	22	33	34	40
FCCOP				32	45	49		41	48		49
Dimensions	Unit	HeightxWidthxDepth	mm	285 x575x575							
Weight	Unit		kg	19				20			
Decoration panel	Dimensions	HeightxWidthxDepth	mm	95x999x1.008							
		Weight	kg	7							
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	456	468	660	876	468	438	618	822
		Medium	m^3/h	384	390	486	648	390	366	456	612
		Low	m^3/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							

Accessories for FWF-BT/BF

Options		FWF-BT/BF
	Decoration Panel 4-way blow	**BYFQ60B3**
	Sealing member of air discharge outlet	**KDBH44BA60**
	Long-life filter	**KAFQ441BA60**
	Panel spacer	**KDBQ44B60**
	Fresh air intake kit	**KDDQ44XA60**
	Madoka Remote Control Wired	**BRC1HF** [1]
	Central remote control Up to 64 groups can be controlled with a maximum of 128 devices per group	**DCS302C51** [2]
	Electrical box with earth terminal (3 blocks)	**KJB311A**
	Unified on/off control Up to 16 device groups can be controlled; operating indication given by LED	**DCS301B51** [5]
	Electrical box with earth terminal (2 blocks)	**KJB212A**
	Schedule timer 2 programmable on/off times per day; power reserve 48 hours	**DST301B51** [5][8]
	Wiring adapter for electrical appendices 1 Additional board for external control and monitoring; on/off; operating and fault message; setpoint specification via 0 ... 140 Ohm signal for entire F1 / F2 line.	**KRP2A52** [4][8]
	Wiring adapter for electrical appendices 2 Additional board for external control and monitoring; on/off; operating and fault message; setpoint specification via 0 ... 140 ohm Signal for a P1 / P2 line.	**KRP4A53** [4][8]
	Remote control Infrared H/P	**BRC7E530** [11]
	Remote control Infrared C/O	**BRC7E531** [11]
	Installation box for adapter PCB	**KRP1BB101** [9]
	Remote Sensor with 12 meters of cable	**KRCS01-1**
	Intelligent touch controller Up to 2 device groups can be controlled with a maximum of 64 devices per group	**DCS601C51** [3][7]
	Electrical installation box	**KJB411A**
	Optional PCB for MOD-bus connection	**EKFCMBCB** [4][8]
	2-way valve - On/Off Actuator 230V and piping unit included	**EKMV2C09B** [4][6][10]
	3-way valve - On/Off Actuator 230V and piping unit included	**EKMV3C09B** [4][6][10]
	Valve control PCB	**EKRP1C11**
	Remote "On/Off" and "forced off" kit	**EKRORO** [12]
	Modbus Interface for monitoring and control Universal control adapter provides external control/monitoring via 0-10 kΩ resistor or 0-10VDC input signals or floating contacts; operating or defrost signal, fault message as well as an interface to the Modbus protocol is possible; connection to P1 / P2 terminals (max 16 indoor units); a BRC remote control can be additionally connected	**RTD-10**

1. Optional, electrical installation box with earth terminal KJB212A is required, if controller wires need to be installed in the wall.
2. Requires electrical installation box with earth terminal KJB311A.
3. Requires electrical installation box KJB411A.
4. Requires installation box KRP1H98A for FWC-B and KRP1BB101 for FWF-B.
5. Requires electrical installation box with earth terminal KJB212A, if built in the wall.
6. Requires valve control PCB EKRP1C11.
7. I-touch:
   - Not allowed to use the i-touch for an installation with both fan coils and VRV units.
   - Can not be used in combination with fan coil units, that use MOD bus communication.
   - No Airnet or telephone connection possible.
8. Only 1 of these 2 options can be installed on 1 indoor unit.
9. Max. 2 KRP1BB101 boxes can be mounted on the unit.
   Max. 1 PCB can be mounted in 1 KRP1BB101 box.
10. 2-pipe unit: 1 x valve kit + 1 x installation box for PCB KRP1BB101 + 1 x valve control PCB EKRP1C11.
    4-pipe unit: 2 x valve kit + 1 x installation box for PCB KRP1BB101 + 1 x valve control PCB EKRP1C11.
11. It is possible to change the operation mode, but this will not have an impact on the water temperature.
    (No feed back to water source)
    It is not possible to select the "auto air flow" setting.
    Dry operation can be selected with this remote control, but this function is not available on the FWF-B model.
12. This option is needed to create T1 T2 wire.

All options are supplied as kit.

FWF-DT/DF

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

- Compact casing (570mm in width and Length) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- Modern ABS or fully-flat design air intake grille
- Reliability and sturdiness in a compact design
- Condensate drainage pump up to 835mm lift
- Wide range of controllers with the open protocol
- Availability of 2-way or 3-way valves with ON-OFF actuator factory mounted

FWF-DT/DF

FWEC10

FWEC3A

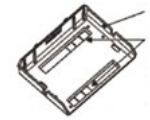
FWEDA

SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWF-DT

FWF-DF

Indoor unit			FWF-DT/DF	2	3	4	5	2	3	4	5
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	2	3	4,07	5,1	2	3	4	5,02
		Medium	kW	1,67	2,78	3,41	4,16	1,71	2,77	3,33	4
		Low	kW	1,3	2,37	2,65	2,93	1,44	2,3	2,58	2,64
	Sensible capacity	High	kW	1,76	2,31	3,01	3,88	1,76	2,19	2,88	3,67
		Medium	kW	1,43	2,08	2,49	3,08	1,46	1,99	2,33	2,88
		Low	kW	1,09	1,75	1,91	2,11	1,2	1,61	1,78	1,85
	Latent capacity	High	kW	0,24	0,69	1,06	1,22	0,24	0,81	1,12	1,35
Heating capacity (standard conditions)	High		kW	2,54	3,3	4,26	5,74	3,31	4,15	4,59	5,64
	Medium		kW	2,05	2,96	3,48	4,34	2,77	3,61	3,75	4,32
	Low		kW	1,56	2,44	2,69	2,95	2,23	2,78	2,9	2,99
Power input	High		kW	0,018	0,019	0,024	0,045	0,017	0,019	0,024	0,047
	Medium		kW	0,01	0,02		0,03	0,01	0,02		0,03
	Low		kW		0,01		0,02	0,01		0,02	
FCEER CLASS				B	A	B					
FCEER				121	188	180	120	129	156	174	130
FCCOP CLASS				C	B		C	B			
FCCOP				156	197	194	128	220	193	198	174
Dimensions	Unit	HeightxWidthxDepth	mm	260x642x575							
Weight	Unit		kg	14,5	15,5			16	17		
Decoration panel	Dimensions		mm	694x694x80							
	Weight		kg	18	19				21		
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	498	516	623	860	477	534	612	847
		Medium	m^3/h	388	455	496	634	389	463	487	607
		Low	m^3/h	278	363	369	408	301	356	361	367
Total sound power level	High		dBA	41	42	47	54	41	44	48	56
	Medium		dBA	37	39	41	46	37	40	43	48
	Low		dBA	33	36		39	34	36	38	40
Sound pressure level	High		dBA	27	28	33	40	27	30	34	42
	Medium		dBA	23	25	27	32	23	26	29	34
	Low		dBA	19	22		25	20	22	24	26
Piping connections	Drain	OD	mm	VP20 (External dia.26 / Internal dia. 20)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							

Options	FWF-DT/DF	02	03	04	05	02	03	04	05
		2 Pipe				4 Pipe			
	Design decoration panel 600x600 (white)*	BYFQ60CW							
	Design decoration panel 600x600 (silver&white)*	BYFQ60CS							
	Decoration panel 600x600	BYFQ60B3							
	Adaptor for design panel * - for BYFQ60CW & BYFQ60CS	EKRP1CAS5A							
	3-ways ON/OFF 230V valve kit		EKWV3V3W5A				2 x EKWV3V3W5A		
	2-ways ON/OFF 230V valve kit		EKWV2V3W5A				2 x EKWV2V3W5A		
	Additional drain pan	EDT02D5A							
	Additional cable for 3rd party valve kit integration (1)	EKER030A							
	Wired remote controller (Advanced Plus)		FWEC3A				FWEC3A		
	Split controller - power control board	FWEDA							
	Split controller - touch screen control panel	SHINKATOUCHWA (white)/SHINKATOUCHBA (black)							
		SHINKAZONEWA (white)/SHINKAZONEBA (black)							
		SHINKASENSEWA (white)							
	Electronic controller		FWEC10				FWEC10		
	Wall mounting kit	FWFCKA							
	Temperature sensor kit	FWTSKA							
	Relative humidity sensor kit	FWHSKA							
	Water temperature sensor for simplified controller	FWCSWA							
	Sealing member of air discharge outlet	KDBH44BA60							
	Panel Spacer	KDBQ44B60							
	Long-life filter	KAFQ441BA60							
	Fresh air intake kit	KDDQ44XA60							

Notes

(1) Additional cable for 3rd party valve kit integrating is a must needed for the communication between the unit and valves, For 2 pipe unit - 1 Pc is needed and for 4 pipe unit 2 Pcs are needed

Why choose a fan coil floor standing?

Fan coil floor standing units provide powerful cooling and heating capabilities with flexible placement options. Ideal for areas where wall or ceiling installations are not feasible, these units can be positioned against walls or as standalone fixtures. They offer robust performance while being easy to maintain and service.

FWZ-AT/AF

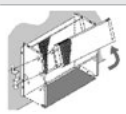
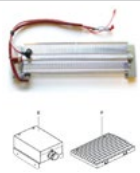
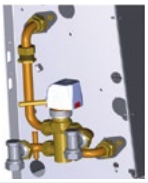
Fan coil with DC fan motor

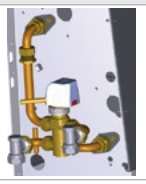
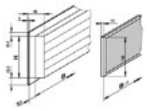
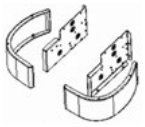
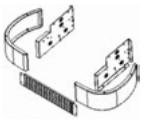
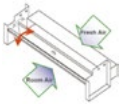
BLDC fan motor unit for vertical mounting, Continuous air flow regulation and fan speed modulation

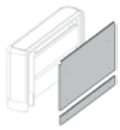
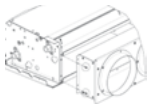
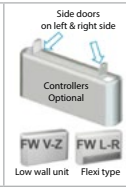
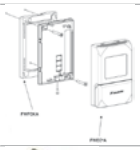
- Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves
- Requires very little installation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

FWZ-AT FWZ-AF

Indoor unit			FWZ-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1,94	2,91	4,48	7,93	1,77	2,86	4,64	7,79
		Medium	kW	1,69	2,37	3,64	6,2	1,55	2,32	3,79	6,12
		Low	kW	1,35	1,75	2,99	4,1	1,25	1,72	3,10	4,06
	Sensible capacity	High	kW	1,49	2,09	3,62	5,87	1,44	2,06	3,54	5,76
		Medium	kW	1,30	1,69	2,90	4,59	1,21	1,65	2,85	4,54
		Low	kW	1,04	1,25	2,31	3,04	0,97	1,23	2,27	3,01
	Latent capacity	High	kW	0,54	0,82	0,98	2,06	0,33	0,80	1,19	2,03
Heating capacity (standard conditions)	High		kW	2,15	2,94	4,88	8,37	1,76	2,68	4,64	7,35
	Medium		kW	1,81	2,37	4,11	6,53	1,56	2,31	4,07	6,29
	Low		kW	1,50	1,76	3,36	4,39	1,36	1,88	3,55	4,85
Power input	High		kW	0,019	0,016	0,033	0,087	0,019	0,016	0,033	0,087
	Medium		kW	0,01		0,02	0,038	0,01		0,02	0,038
	Low		kW	0,01			0,013	0,01			0,013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxDepth	mm	564x774x226	564x984x226	564x1.190x226	564x1.404x251	564x774x226	564x984x226	564x1.190x226	564x1.404x251
Weight	Unit		kg	20,6	26,7	32,3	41,6	20,6	26,7	32,3	41,6
Casing	Colour			White - RAL9010							
Heat exchanger	Water volume		l	1			1,43	1			1,43
Air filter	Type			Polypropylene net							
Fan	Type			Centrifugal							
	Quantity			1	2			1	2		
	Air flow rate	High	m^3/h	344	442	785	1.393	327	431	763	1.362
		Medium	m^3/h	271	341	605	1.022	261	332	593	1.007
		Low	m^3/h	211	241	470	642	205	237	460	636
Total sound power level	High		dBA	50	48	56	67	50	47	58	66
	Medium		dBA	44	42	49	60	44	41	53	58
	Low		dBA	40	36	43	49	38	33	48	48
Sound pressure level	High		dBA	45	43	51	62	45	42	54	61
	Medium		dBA	39	37	44	55	39	36	48	53
	Low		dBA	35	31	38	44	33	28	43	43
Water flow	Cooling	High	l/h	337	503	774	1.376	307	493	802	1.352
		Medium	l/h	292	408	628	1.071	267	400	654	1.058
		Low	l/h	234	302	515	706	216	297	535	699
	Heating	High	l/h	373	506	866	1.455	154	234	406	643
		Medium	l/h	315	408	709	1.135	136	202	357	551
		Low	l/h	260	301	575	764	119	165	311	425
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							

Options		FWZ-AT/AF	02	03	06	08
Additional heat exchanger		The one-row heat exchanger is made of copper pipes and aluminum fins, Supplied as kit: 1) heat exchanger 2) fixing plate 3) self-tapping screws	**ESRH02A6**	**ESRH03A6**	**ESRH06A6**	**ESRH10A6**
Electric heater		Kit contains: 1/ EEH Electric heater tape 2/ E box = elec, wiring and operating relays 3/ Set of heat-resistant plastic grilles (std grills need to be replaced) Unit / Heater / Power consumption kw / Operting current A FW02 / EEH02 / 1,5 / 6,8 FW03 / EEH03 / 1,6 / 7,3 FW06 / EEH06 / 2,0 / 9,1 FW08 / EEH10 / 3,0 / 13,6	**EEH02A6**	**EEH03A6**	**EEH06A6**	**EEH10A6**
2-pipe 3-ways 230V on/off valve kit		Kit contains: 1/ 3way Valve Body SIZE 2÷6 valve = 1/2" (kvs=1,7) SIZE 8 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 2pcs of lockshield valve	**E2MV03A6**			**E2MV10A6**
4-pipe 3-ways 230V on/off valve kit		Kit contains: 1/ 2 pcs of 3way Valve Body SIZE 2÷6 valve = 1/2" (kvs=1,7) SIZE 8 valve = 3/4" (kvs=2,8) 2/ 2 pcs of Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 4pcs of lockshield valve	**E4MV03A6**			**E4MV10A6**
2 pipe 2-ways 230V on/off valve kit cooling h/e		Kit contains: 1/ 2way Valve Body SIZE 2÷6 valve = 1/2" (kvs=1,7) SIZE 8 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MV2B07A6**			**E2MV2B10A6**
2 pipe 2-ways 230V on/off valve kit additional h/e		Kit contains: 1/ 2way Valve Body SIZE 2÷8 valve = 1/2" (kvs=1,7) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MV2B07A6**			
2-pipe simplified 3-ways 230V on/off valve kit		Kit contains: 1/ 3way Valve Body SIZE 2÷3 valve = 1/2" (kvs=1,7) SIZE 6÷8 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MVD03A6**		**E2MVD06A6**	**E2MVD10A6**
4-pipe simplified 3-ways 230V on/off valve kit		Kit contains: 1/ 2 pcs of 3way Valve Body SIZE 2÷3 valve = 1/2" (kvs=1,7) SIZE 6÷8 valve = 3/4" (kvs=2,8) 2/ 2 pcs of Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E4MVD03A6**		**E4MVD06A6**	**E4MVD10A6**
2-pipe 3-ways 24V on/off valve kit		Kit contains: 1/ 3way Valve Body SIZE 2÷3 valve = 1/2" (kvs=1,7) SIZE 6÷8 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 2pcs of lockshield valve	**E2M2V03A6**		**E2M2V06A6**	**E2M2V10A6**

Options		FWZ-AT/AF	02	03	06	08
4-pipe 3-ways 24V on/off valve kit		Kit contains: 1/ 2 pcs of 3way Valve Body SIZE 2÷3 valve = 1/2" (kvs=1,7) SIZE 6÷8 valve = 3/4" (kvs=2,8) 2/ 2 pcs of Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 4pcs of lockshield valve	**E4M2V03A6**		**E4M2V06A6**	**E4M2V10A6**
2 pipe 2-ways 24V on/ off valve kit cooling h/e		Kit contains: 1/ 2way Valve Body SIZE 2÷6 valve = 1/2" (kvs=1,7) SIZE 8 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2M2V207A6**			**E2M2V210A6**
2 pipe 2-ways 24V on/ off valve kit additional h/e		Kit contains: 1/ 2way Valve Body SIZE 2÷8 valve = 1/2" (kvs=1,7) 2/ Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2M2V207A6**			
2 pipe 2-ways proportional valve kit on cooling heat exchanger		Kit contains: 1/ 2way Valve Body SIZE 1÷6 valve = 1/2" (kvs=1,7) SIZE 8÷10 valve = 3/4" (kvs=2,8) 2/ Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MPV207A6**			**E2MPV210A6**
2 pipe 2-ways proportional valve kit on additional heat exchanger		Kit contains: 1/2way Valve Body SIZE 1,10 valve = 1/2" (kvs=1,7) 2/ Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MPV207A6**			
2-pipe 3-ways proportional valve kit		Kit contains: 1/ 3way Valve Body SIZE 1,35 valve = 1/2" (kvs=1,7) SIZE 4,10 valve = 3/4" (kvs=2,8) 2/ Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ Thermal insulation on pipes and valve 4/ 2pcs of lockshield valve	**E2MPV03A6**		**E2MPV06A6**	**E2MPV10A6**
4-pipe 3-ways proportional valve kit		Kit contains: 1/ 2 pcs 3way Valve Body SIZE 1,35 valve = 1/2" (kvs=1,7) SIZE 4,10 valve = 3/4" (kvs=2,8) 2/ 2 pcs Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ Thermal insulation on pipes and valve 4/ 4pcs of lockshield valve	**E4MPV03A6**		**E4MPV06A6**	**E4MPV10A6**
Air intake & discharge grille		S: Back suction grille fixed fins, made of anodised aluminium complete with filter and galvanised steel plate subframe and recyclable acrylic fibre air filter. D: Discharge grille with double row of anodised aluminium swinging fins, complete with galvanised steel plate subframe.	**EAIDF02A6**	**EAIDF03A6**	**EAIDF06A6**	**EAIDF10A6**
Supporting feet		Kit contains: ESFV: 2 ✓ — ESFVG: 2 ✓ — FWZ: ✓ — FWS: ✓	**ESFV06A6**			**ESFV10A6**
Supporting feet & grille		ESFV: 2 — ESFVG: 2 ✓ — FWZ: ✓ — FWS: - ESFV: 0 — ESFVG: 1 ✓ — FWZ: ✓ — FWS: - 4,2 x 13 mm: ESFV: 4 — ESFVG: 8 ✓ — FWZ: ✓ — FWS: ✓ 2,9 x 9,5 mm: ESFV: 4 — ESFVG: 4 ✓ — FWZ: ✓ — FWS: ✓	**ESFVG02A6**	**ESFVG03A6**	**ESFVG06A6**	**ESFVG10A6**
Fresh air intake		To prevent the water from freezing inside the heat exchanger during winter. Close the outdoor air inlet louvre when the system is not operational or use an anti-freeze solution.	**EFA02A6**	**EFA03A6**	**EFA06A6**	**EFA10A6**

Options		FWZ-AT/AF	02	03	06	08
Rear panel		It is supplied for installation of units, in case rear side can be seen (example: installation at the back of glass windows). Unit, in case of rear panel installation, can not be fixed to wall. Kit consists of: 1. rear upper closing panel 2. rear lower closing panel 3. screws	**ERPV02A6**	**ERPV03A6**	**ERPV06A6**	**ERPV10A6**
Plenum box with circular connections (only for FWS-A)		Unit size / Plenum box / Ø [mm] x n Size 02 / EPCC02A6 / 180 x 2 Size 03 / EPCC03A6 / 180 x 2 Size 06 / EPCC06A6 / 180 x 3 Size 08 / EPCC10A6 / 180 x 4	**EPCC02A6**	**EPCC03A6**	**EPCC06A6**	**EPCC10A6**
Vertical auxiliary drainpan		Install it to collect condensationcondensation, Used for vertical FCUs	**EDPVB6**			
Horizontal auxiliary drainpan		Install it to collect condensation, Used for horizontal FCUs	**EDPHB6**			
Wired Controller		**FWEC10**: Electronic controller suitable for models with doubly HX (2/4-pipes), it can control 3 or 4 speeds fan(stepless for EC motor). ON/OFF type valve control. SUMMER/WINTER manual switch or automatic (on the basis of the air temperature) , ventilation consent on the basis of the water temperature.	**FWEC10**			
Wired remote controller, Advanced Plus version		All functionality of FWEC1A/2A additionally: - Management of BLDC fan motor - Management of proportional valve - Weekly timer programmed operating mode - Configurable digital outputs	**FWEC3A**			
Split controller - power control board			**FWEDA**			
Split controller - touch screen control panel			**SHINKATOUCHWA (white)/SHINKATOUCHBA (black)** **SHINKAZONEWA (white)/SHINKAZONEBA (black)** **SHINKASENSEWA (white)**			
On board mounting kit, for FWEC*A, remote airprobe incl.		To install FWEC1/2/3A thermostat on board, (left or right side) Use it only for FWV / FWZ or FWL / FWR 	**FWECKA**			
Wall mounting kit (spacing collar), for FWEC 1A /2A and 3A		Wall mounting kit (spacing collar), for FWEC 1A /2A and 3A	**FWFCKA**			
Temperature sensor kit, for FWEC*A		FWTSK sensor should be connected to the FWEC*A remote control using the supplied cable as accessory and, in case of prolongations, a shielded cable only, The sensor cable (1,5 m) can be cut to measure if necessary, Sensor must be positioned on the heat exchanger OR at the valve inlet (with or without vlave installation)	**FWTSKA**			
Relative humidity sensor kit , for FWEC2A and FWEC3A (tempereture sensor kit is required)		Bound together the air temperature remote probe, the installation of the humidity remote probe allows: - To display on the controller the environment humidity - To select the Dehumidification function The dehumidification function, available only in the cooling mode, uses the terminal to reduce the environmental humidity by approximately 10% compared to the humidity present at the moment of function selection	**FWHSKA**			
Water temperature sensor for simplified controller			**FWCSWA**			
Drain pump		For FWR only vertical installation	**CDRP1A**			

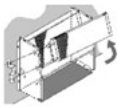
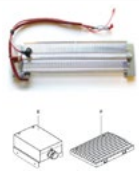
FWV-DT/DF

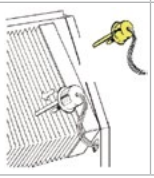
AC fan motor unit for vertical mounting

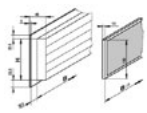
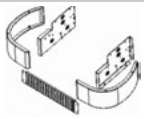
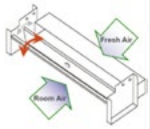
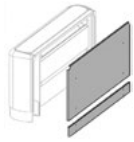
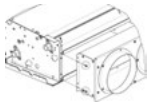
- Quick fixing system for wall mounted installation
- Pre-assembled 3-way/4-port on/off valves are available
- Valve packages are insulated, no extra drain pan required
- Valve packages contain balancing valves and sensor pocket
- Fast-on connections for electrical options: no tools needed
- The air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

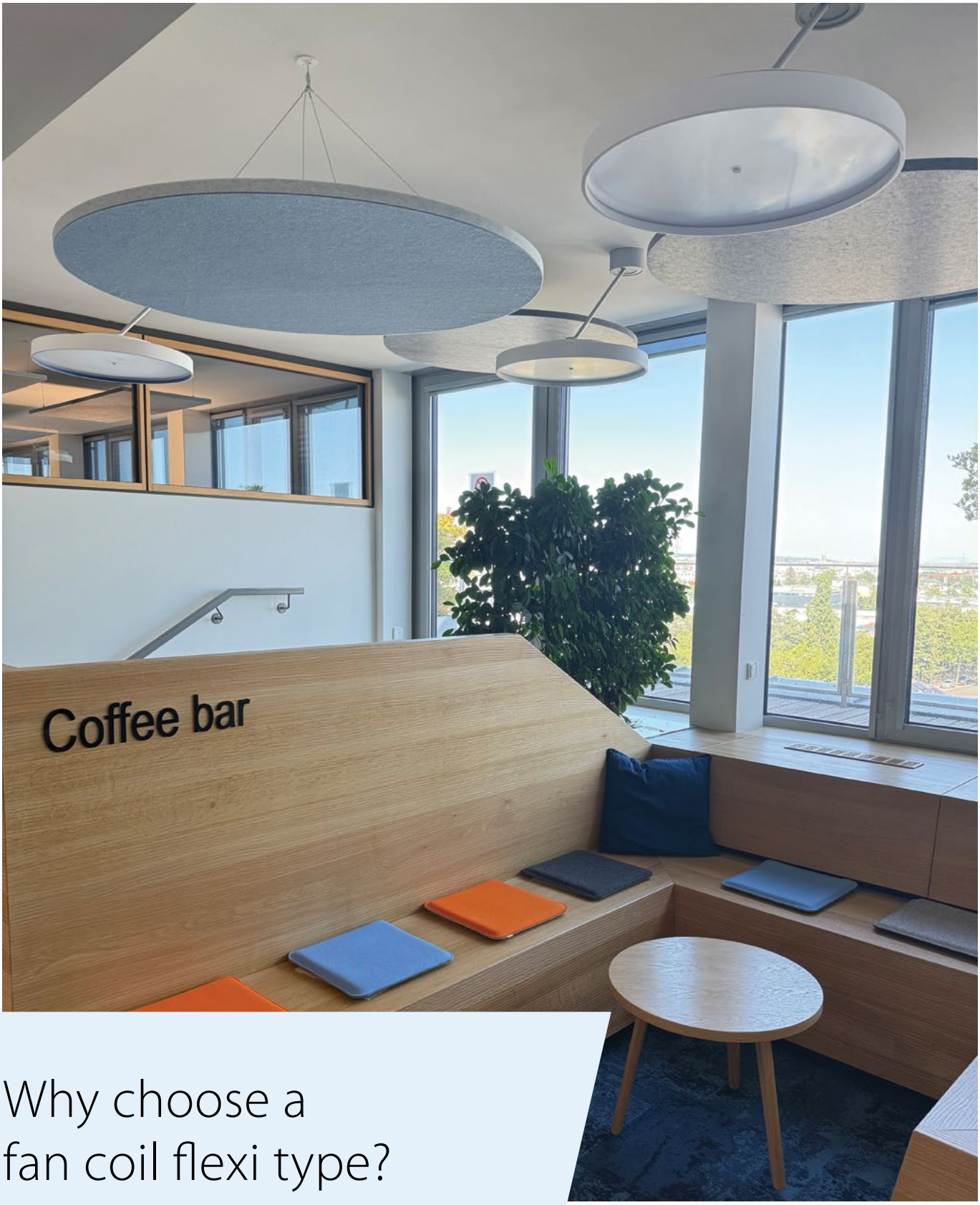
FWV-DAT FWV-DAF

Indoor unit			FWV-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
				2-pipe										4-pipe									
Cooling capacity (standard conditions)	Total capacity	High	kW	1,50	1,69	1,91	2,36	2,87	3,45	4,23	4,41	6,53	7,78	1,42	1,64	1,74	2,32	2,81	3,36	4,16	4,57	6,46	7,64
		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
	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	
FCCOP				E					D			E		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		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						
	Air flow rate	High	m^3/h	319	344		442		640	706	785	1.011	1.393	307	330	327	432	431	628	690	763	998	1.362
		Medium	m^3/h	233	271		341		450	497	605	771	1.022	225	261		334	332	444	490	593	765	1.007
		Low	m^3/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	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

Options		FWV-DT/DF	01	15	02	25	03	35	04	06	08	10
Additional heat exchanger		The one-row heat exchanger is made of copper pipes and aluminum fins. Supplied as kit: 1) heat exchanger 2) fixing plate 3) self-tapping screws	**ESRH02A6**			**ESRH03A6**		**ESRH06A6**			**ESRH10A6**	
Electric Heater		Kit contains: 1/ EEH Electric heater tape 2/ E box = elec, wiring and operating relays 3/ Set of heat-resistant plastic grilles (std grills need to be replaced) Unit / Heater / Power consumption (kw) / Operting current (A): FW01+15 / EEH01 / 1,0 / 4,5 FW02+25 / EEH02 / 1,5 / 6,8 FW03+35 / EEH03 / 1,6 / 7,3 FW04+06 / EEH06 / 2,0 / 9,1 FW08+10 / EEH10 / 3,0 / 13,6	**EEH01A6**		**EEH02A6**		**EEH03A6**		**EEH06A6**		**EEH10A6**	
2-pipe 3-ways 230V on/off valve kit		Kit contains: 1/ 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 2pcs of lockshield valve	**E2MV03A6**						**E2MV06A6**		**E2MV10A6**	
4-pipe 3-ways 230V on/off valve kit		Kit contains: 1/ 2 pcs of 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ 2 pcs of Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 4pcs of lockshield valve	**E4MV03A6**						**E4MV06A6**		**E4MV10A6**	
2 pipe 2-ways 230V on/off valve kit on cooling heat exchanger		Kit contains: 1/ 2way Valve Body SIZE 1÷6 valve = 1/2" (kvs=1,7) SIZE 8÷10 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MV2B07A6**								**E2MV2B10A6**	
2 pipe 2-ways 230V on/off valve kit on additional heat exchanger		Kit contains: 1/ 2way Valve Body SIZE 1÷10 valve = 1/2" (kvs=1,7) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MV2B07A6**									
2-pipe simplified 3-ways 230V on/off valve kit		Kit contains: 1/ 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MVD03A6**						**E2MVD06A6**		**E2MVD10A6**	
4-pipe simplified 3-ways 230V on/off valve kit		Kit contains: 1/ 2 pcs of 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ 2 pcs of Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E4MVD03A6**						**E4MVD06A6**		**E4MVD10A6**	
2-pipe 3-ways 24V on/ off valve kit		Kit contains: 1/ 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 2pcs of lockshield valve	**E2M2V03A6**						**E2M2V06A6**		**E2M2V10A6**	

Options		FWV-DT/DF	01	15	02	25	03	35	04	06	08	10
4-pipe 3-ways 24V on/ off valve kit		Kit contains: 1/ 2 pcs of 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ 2 pcs of Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 4pcs of lockshield valve			**E4M2V03A6**				**E4M2V06A6**		**E4M2V10A6**	
2-pipe 3-ways proportional valve kit		Kit contains: 1/ 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ Thermal insulation on pipes and valve 4/ 2pcs of lockshield valve			**E2MPV03A6**				**E2MPV06A6**		**E2MPV10A6**	
4-pipe 3-ways proportional valve kit		Kit contains: 1/ 2 pcs 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ 2 pcs Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ Thermal insulation on pipes and valve 4/ 4pcs of lockshield valve			**E4MPV03A6**				**E4MPV06A6**		**E4MPV10A6**	
2 pipe 2-ways 24V on/ off valve kit on cooling heat exchanger		Kit contains: 1/ 2way Valve Body SIZE 1÷6 valve = 1/2" (kvs=1,7) SIZE 8÷10 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit			**E2M2V207A6**						**E2M2V210A6**	
2 pipe 2-ways 24V on/ off valve kit on additional heat exchanger		Kit contains: 1/ 2way Valve Body SIZE 1÷10 valve = 1/2" (kvs=1,7) 2/ Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit			**E2M2V207A6**							
2 pipe 2-ways proportional valve kit on cooling heat exchanger		Kit contains: 1/ 2way Valve Body SIZE 1÷6 valve = 1/2" (kvs=1,7) SIZE 8÷10 valve = 3/4" (kvs=2,8) 2/ Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit			**E2MPV207A6**						**E2MPV210A6**	
2 pipe 2-ways proportional valve kit on additional heat exchanger		Kit contains: 1/2way Valve Body SIZE 1÷10 valve = 1/2" (kvs=1,7) 2/ Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit			**E2MPV207A6**							
Fan stop thermostat		To prevent ventilating cold air during the heating stage If the water temperature inside the heat exchanger is lower than 42°C, (The bracket to fix fan stop thermostat is included in the kit.) Only required in combination with electromechanical controller			**YFSTA6**							

Options		FWV-DT/DF	01	15	02	25	03	35	04	06	08	10
Air intake & discharge grille		S: Back suction grille fixed fins, made of anodised aluminium complete with filter and galvanised steel plate subframe and recyclable acrylic fibre air filter. D: Discharge grille with double row of anodised aluminium swinging fins, complete with galvanised steel plate subframe.	**EAIDF02A6**			**EAIDF03A6**		**EAIDF06A6**			**EAIDF10A6**	
Supporting feet		Kit contains: ESFV: 2 · ESFVG: 2 · FWV: ✓ · FWM: ✓ 2 · 2 · ✓ · - 0 · 1 · ✓ · - 4,2 x 13 mm: 4 · 8 · ✓ · ✓ 2,9 x 9,5 mm: 4 · 4 · ✓ · ✓	**ESFV06A6**								**ESFV10A6**	
Supporting feet & grille			**ESFVG02A6**			**ESFVG03A6**		**ESFVG06A6**			**ESFVG10A6**	
Fresh air intake		To prevent the water from freezing inside the heat exchanger during winter. Close the outdoor air inlet louvre when the system is not operational or use an anti-freeze solution.	**EFA02A6**			**EFA03A6**		**EFA06A6**			**EFA10A6**	
Rear panel		It is supplied for installation of units, in case rear side can be seen (example: installation at the back of glass windows). Unit, in case of rear panel installation, can not be fixed to wall. Kit consists of: 1. rear upper closing panel 2. rear lower closing panel 3. screws	**ERPV02A6**			**ERPV03A6**		**ERPV06A6**			**ERPV10A6**	
Plenum box with circular connections (only for FWM-D)		Unit size: Size 01-02 · Plenum box: EPCC02A6 · Ø [mm] x n: 180 x 2 Size 25-03 · EPCC03A6 · 180 x 2 Size 35-06 · EPCC06A6 · 180 x 3 Size 08-10 · EPCC10A6 · 180 x 4	**EPCC02A6**			**EPCC03A6**		**EPCC06A6**			**EPCC10A6**	
Vertical auxiliary drainpan		Install it to collect condensation, Used for vertical FCUs	**EDPVB6**									
Horizontal auxiliary drainpan		Install it to collect condensation, Used for horizontal FCUs	**EDPHB6**									
Controller electro-mechanical, Built in		For installation on board the unit is used for: Manually changing the operation fan speed of the unit; Automatically setting the room temperature by operating the motor-ventilator of the unit, both during cooling and heating, - 4 position rotary speed selector switch (three speeds + stop) - Cooling/Heating operation selector - Manual set thermostat	**ECFWMB6**									
Wired Controller		**FWEC2T**: Electronic controller suitable for models with single HX (2-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	**FWEC2T**									
		FWEC4T: Electronic controller suitable for models with doubly HX (4-pipes), it can control 3 speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	**FWEC4T**									
		FWEC10: Electronic controller suitable for models with doubly HX (2/4-pipes), it can control 3 or 4 speeds fan(stepless for EC motor), ON/OFF type valve control, SUMMER/WINTER manual switch or automatic (on the basis of the air temperature) , ventilation consent on the basis of the water temperature.	**FWEC10**									
Wired remote controller, Standard version		Onboard or wall mounted installation: - Management of AC 3-speeds fan motor (on/off and automatic speed change) - Management of on/off valve - Management of electric heater - Cooling / heating mode swithcing based on air / water temperature - Clean contact for remote activation (e,g, window contact, remote on/off)	**FWEC1A**									



Why choose a fan coil flexi type?

Fan coil flexi type units offer versatile installation options as they can be mounted on floors or ceilings depending on the specific requirements of the space. This flexibility makes them suitable for various applications including offices, hotels, and residential buildings. They deliver reliable climate control with adjustable airflow patterns to meet diverse needs.

FWR-AT/AF

Fan coil with DC fan motor

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

FWR-AT FWR-AF

Indoor unit			FWR-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1,94	2,91	4,48	7,93	1,77	2,86	4,64	7,79
		Medium	kW	1,69	2,37	3,64	6,2	1,55	2,32	3,79	6,12
		Low	kW	1,35	1,75	2,99	4,1	1,25	1,72	3,10	4,06
	Sensible capacity	High	kW	1,49	2,09	3,62	5,87	1,44	2,06	3,54	5,76
		Medium	kW	1,30	1,69	2,90	4,59	1,21	1,65	2,85	4,54
		Low	kW	1,04	1,25	2,31	3,04	0,97	1,23	2,27	3,01
	Latent capacity	High	kW	0,54	0,82	0,98	2,06	0,33	0,80	1,19	2,03
Heating capacity (standard conditions)	High		kW	2,15	2,94	4,88	8,37	1,76	2,68	4,64	7,35
	Medium		kW	1,81	2,37	4,11	6,53	1,56	2,31	4,07	6,29
	Low		kW	1,50	1,76	3,36	4,39	1,36	1,88	3,55	4,85
Power input	High		kW	0,019	0,016	0,033	0,087	0,019	0,016	0,033	0,087
	Medium		kW	0,01		0,02	0,038	0,01		0,02	0,038
	Low		kW	0,01			0,013	0,01			0,013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxDepth	mm	564x774x246	564x984x246	564x1.190x246	564x1.404x271	564x774x246	564x984x246	564x1.190x246	564x1.404x271
Weight	Unit		kg	21,2	27,5	33,6	43,1	21,2	27,5	33,6	43,1
Casing	Colour			White - RAL9010							
Heat exchanger	Water volume		l	1			1,43	1			1,43
Air filter	Type			Polypropylene net							
Fan	Type			Centrifugal							
	Quantity			1	2			1	2		
	Air flow rate	High	m^3/h	344	442	785	1.393	327	431	763	1.362
		Medium	m^3/h	271	341	605	1.022	261	332	593	1.007
		Low	m^3/h	211	241	470	642	205	237	460	636
Total sound power level	High		dBA	50	48	56	67	50	47	58	66
	Medium		dBA	44	42	49	60	44	41	53	58
	Low		dBA	40	36	43	49	38	33	48	
Sound pressure level	High		dBA	45	43	51	62	45	42	54	61
	Medium		dBA	39	37	44	55	39	36	48	53
	Low		dBA	35	31	38	44	33	28	43	
Water flow	Cooling	High	l/h	337	503	774	1.376	307	493	802	1.352
		Medium	l/h	292	408	628	1.071	267	400	654	1.058
		Low	l/h	234	302	515	706	216	297	535	699
	Heating	High	l/h	373	506	866	1.455	154	234	406	643
		Medium	l/h	315	408	709	1.135	136	202	357	551
		Low	l/h	260	301	575	764	119	165	311	425
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							

FWS-AT/AF

Fan coil with DC fan motor

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

FWS-AT/AF

FWEC10

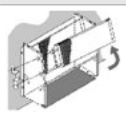
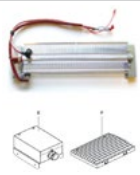
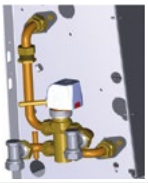
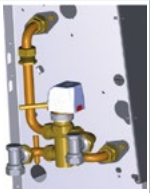
FWEC3A

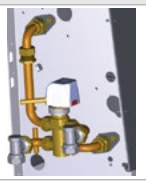
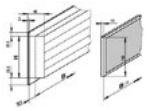
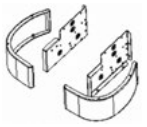
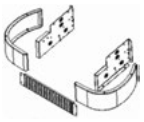
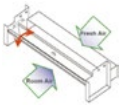
FWEDA

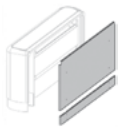
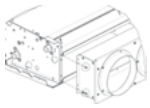
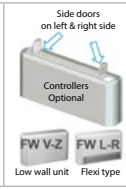
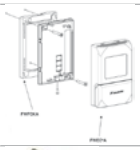
SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWS-AT FWS-AF

Indoor unit			FWS-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1,94	2,91	4,48	7,93	1,77	2,86	4,64	7,79
		Medium	kW	1,69	2,37	3,64	6,2	1,55	2,32	3,79	6,12
		Low	kW	1,35	1,75	2,99	4,1	1,25	1,72	3,10	4,06
	Sensible capacity	High	kW	1,49	2,09	3,62	5,87	1,44	2,06	3,54	5,76
		Medium	kW	1,30	1,69	2,90	4,59	1,21	1,65	2,85	4,54
		Low	kW	1,04	1,25	2,31	3,04	0,97	1,23	2,27	3,01
	Latent capacity	High	kW	0,54	0,82	0,98	2,06	0,33	0,80	1,19	2,03
Heating capacity (standard conditions)	High		kW	2,15	2,94	4,88	8,37	1,76	2,68	4,64	7,35
	Medium		kW	1,81	2,37	4,11	6,53	1,56	2,31	4,07	6,29
	Low		kW	1,50	1,76	3,36	4,39	1,36	1,88	3,55	4,85
Power input	High		kW	0,019	0,016	0,033	0,087	0,019	0,016	0,033	0,087
	Medium		kW	0,01		0,02	0,038	0,01		0,02	0,038
	Low		kW	0,01			0,013	0,01			0,013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxDepth	mm	535x584x224	535x794x224	535x1.000x224	535x1.214x249	535x584x224	535x794x224	535x1.000x224	535x1.214x249
Weight	Unit		kg	16,9	22,1	26,6	35,4	16,9	22,1	26,6	35,4
Heat exchanger	Water volume		l	1			1,43	1			1,43
Air filter	Type			Polypropylene net							
Fan	Type			Centrifugal							
	Quantity			1	2			1	2		
	Air flow rate	High	m^3/h	344	442	785	1.393	327	431	763	1.362
		Medium	m^3/h	271	341	605	1.022	261	332	593	1.007
		Low	m^3/h	211	241	470	642	205	237	460	636
Total sound power level	High		dBA	50	48	56	67	50	47	58	66
	Medium		dBA	44	42	49	60	44	41	53	58
	Low		dBA	40	36	43	49	38	33	48	
Sound pressure level	High		dBA	45	43	51	62	45	42	54	61
	Medium		dBA	39	37	44	55	39	36	48	53
	Low		dBA	35	31	38	44	33	28	43	
Water flow	Cooling	High	l/h	337	503	774	1.376	307	493	802	1.352
		Medium	l/h	292	408	628	1.071	267	400	654	1.058
		Low	l/h	234	302	515	706	216	297	535	699
	Heating	High	l/h	373	506	866	1.455	154	234	406	643
		Medium	l/h	315	408	709	1.135	136	202	357	551
		Low	l/h	260	301	575	764	119	165	311	425
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							

Options		FWR-AT/AF & FWS-AT/AF	02	03	06	08
Additional heat exchanger		The one-row heat exchanger is made of copper pipes and aluminum fins. Supplied as kit: 1) heat exchanger 2) fixing plate 3) self-tapping screws	**ESRH02A6**	**ESRH03A6**	**ESRH06A6**	**ESRH10A6**
Electric heater		Kit contains: 1/ EEH Electric heater tape 2/ E box = elec, wiring and operating relays 3/ Set of heat-resistant plastic grilles (std grills need to be replaced) Unit / Heater / Power consumption kw / Operting current A FW02 / EEH02 / 1,5 / 6,8 FW03 / EEH03 / 1,6 / 7,3 FW06 / EEH06 / 2,0 / 9,1 FW08 / EEH10 / 3,0 / 13,6	**EEH02A6**	**EEH03A6**	**EEH06A6**	**EEH10A6**
2-pipe 3-ways 230V on/off valve kit		Kit contains: 1/ 3way Valve Body SIZE 2÷6 valve = 1/2" (kvs=1,7) SIZE 8 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 2pcs of lockshield valve	**E2MV03A6**			**E2MV10A6**
4-pipe 3-ways 230V on/off valve kit		Kit contains: 1/ 2 pcs of 3way Valve Body SIZE 2÷6 valve = 1/2" (kvs=1,7) SIZE 8 valve = 3/4" (kvs=2,8) 2/ 2 pcs of Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 4pcs of lockshield valve	**E4MV03A6**			**E4MV10A6**
2 pipe 2-ways 230V on/off valve kit cooling h/e		Kit contains: 1/ 2way Valve Body SIZE 2÷6 valve = 1/2" (kvs=1,7) SIZE 8 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MV2B07A6**			**E2MV2B10A6**
2 pipe 2-ways 230V on/off valve kit additional h/e		Kit contains: 1/ 2way Valve Body SIZE 2÷8 valve = 1/2" (kvs=1,7) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MV2B07A6**			
2-pipe simplified 3-ways 230V on/off valve kit		Kit contains: 1/ 3way Valve Body SIZE 2÷3 valve = 1/2" (kvs=1,7) SIZE 6÷8 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E2MVD03A6**		**E2MVD06A6**	**E2MVD10A6**
4-pipe simplified 3-ways 230V on/off valve kit		Kit contains: 1/ 2 pcs of 3way Valve Body SIZE 2÷3 valve = 1/2" (kvs=1,7) SIZE 6÷8 valve = 3/4" (kvs=2,8) 2/ 2 pcs of Electrothermal actuator ON/OFF activation - power supply 230V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit	**E4MVD03A6**		**E4MVD06A6**	**E4MVD10A6**
2-pipe 3-ways 24V on/off valve kit		Kit contains: 1/ 3way Valve Body SIZE 2÷3 valve = 1/2" (kvs=1,7) SIZE 6÷8 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 2pcs of lockshield valve	**E2M2V03A6**		**E2M2V06A6**	**E2M2V10A6**

<table>
<tr><th>Options</th><th>FWR-AT/AF & FWS-AT/AF</th><th>02</th><th>03</th><th>06</th><th>08</th></tr>
<tr><td>4-pipe 3-ways 24V on/off valve kit</td><td>  </td><td>Kit contains: 1/ 2 pcs of 3way Valve Body
SIZE 2÷3 valve = 1/2" (kvs=1,7)
SIZE 6÷8 valve = 3/4" (kvs=2,8)
2/ 2 pcs of Electrothermal actuator
ON/OFF activation
- power supply 24V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ Thermal insulation on pipes and valve
4/ 4pcs of lockshield valve</td><td colspan="2">E4M2V03A6</td><td>E4M2V06A6</td><td>E4M2V10A6</td></tr>
<tr><td>2 pipe 2-ways 24V on/ off valve kit cooling h/e</td><td> </td><td>Kit contains: 1/ 2way Valve Body
SIZE 2÷6 valve = 1/2" (kvs=1,7)
SIZE 8 valve = 3/4" (kvs=2,8)
2/ Electrothermal actuator
ON/OFF activation
- power supply 24V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ without thermal insulation
4/ NO lockshield /shut of valve in the kit</td><td colspan="3">E2M2V207A6</td><td>E2M2V210A6</td></tr>
<tr><td>2 pipe 2-ways 24V on/ off valve kit additional h/e</td><td> </td><td>Kit contains: 1/ 2way Valve Body
SIZE 2÷8 valve = 1/2" (kvs=1,7)
2/ Electrothermal actuator
ON/OFF activation
- power supply 24V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ without thermal insulation
4/ NO lockshield /shut of valve in the kit</td><td colspan="4">E2M2V207A6</td></tr>
<tr><td>2 pipe 2-ways proportional valve kit on cooling heat exchanger</td><td> </td><td>Kit contains:
1/ 2way Valve Body
SIZE 1÷6 valve = 1/2" (kvs=1,7)
SIZE 8÷10 valve = 3/4" (kvs=2,8)
2/ Electronic valve actuator
Proportional activation
- power supply 24V
- total opening time cca 8 second
- 0-10V control signal
3/ without thermal insulation
4/ NO lockshield /shut of valve in the kit</td><td colspan="3">E2MPV207A6</td><td>E2MPV210A6</td></tr>
<tr><td>2 pipe 2-ways proportional valve kit on additional heat exchanger</td><td> </td><td>Kit contains:
1/2way Valve Body
SIZE 1,10 valve = 1/2" (kvs=1,7)
2/ Electronic valve actuator
Proportional activation
- power supply 24V
- total opening time cca 8 second
- 0-10V control signal
3/ without thermal insulation
4/ NO lockshield /shut of valve in the kit</td><td colspan="4">E2MPV207A6</td></tr>
<tr><td>2-pipe 3-ways proportional valve kit</td><td> </td><td>Kit contains:
1/ 3way Valve Body
SIZE 1,35 valve = 1/2" (kvs=1,7)
SIZE 4,10 valve = 3/4" (kvs=2,8)
2/ Electronic valve actuator
Proportional activation
- power supply 24V
- total opening time cca 8 second
- 0-10V control signal
3/ Thermal insulation on pipes and valve
4/ 2pcs of lockshield valve</td><td colspan="2">E2MPV03A6</td><td>E2MPV06A6</td><td>E2MPV10A6</td></tr>
<tr><td>4-pipe 3-ways proportional valve kit</td><td> </td><td>Kit contains:
1/ 2 pcs 3way Valve Body
SIZE 1,35 valve = 1/2" (kvs=1,7)
SIZE 4,10 valve = 3/4" (kvs=2,8)
2/ 2 pcs Electronic valve actuator
Proportional activation
- power supply 24V
- total opening time cca 8 second
- 0-10V control signal
3/ Thermal insulation on pipes and valve
4/ 4pcs of lockshield valve</td><td colspan="2">E4MPV03A6</td><td>E4MPV06A6</td><td>E4MPV10A6</td></tr>
<tr><td>Air intake & discharge grille</td><td>  </td><td>S: Back suction grille fixed fins, made of anodised aluminium complete with filter and galvanised steel plate subframe and recyclable acrylic fibre air filter,
D: Discharge grille with double row of anodised aluminium swinging fins, complete with galvanised steel plate subframe.</td><td>EAIDF02A6</td><td>EAIDF03A6</td><td>EAIDF06A6</td><td>EAIDF10A6</td></tr>
<tr><td>Supporting feet</td><td>  </td><td rowspan="2">Kit contains:
<table><tr><th></th><th>ESFV</th><th>ESFVG</th><th>FWZ</th><th>FWS</th></tr><tr><td></td><td>2</td><td>2</td><td>✓</td><td>✓</td></tr><tr><td> </td><td>2</td><td>2</td><td>✓</td><td>-</td></tr><tr><td></td><td>0</td><td>1</td><td>✓</td><td>-</td></tr><tr><td> 4,2 x 13 mm</td><td>4</td><td>8</td><td>✓</td><td>✓</td></tr><tr><td> 2,9 x 9,5 mm</td><td>4</td><td>4</td><td>✓</td><td>✓</td></tr></table></td><td colspan="2">ESFV06A6</td><td>ESFV10A6</td></tr>
<tr><td>Supporting feet & grille</td><td>  </td><td>ESFVG02A6</td><td>ESFVG03A6</td><td>ESFVG06A6</td><td>ESFVG10A6</td></tr>
<tr><td>Fresh air intake</td><td>  </td><td>To prevent the water from freezing inside the heat exchanger during winter.
Close the outdoor air inlet louvre when the system is not operational or use an anti-freeze solution.</td><td>EFA02A6</td><td>EFA03A6</td><td>EFA06A6</td><td>EFA10A6</td></tr>
</table>

Options		FWR-AT/AF & FWS-AT/AF	02	03	06	08
Rear panel		It is supplied for installation of units, in case rear side can be seen (example: installation at the back of glass windows), Unit, in case of rear panel installation, can not be fixed to wall. Kit consists of: 1. rear upper closing panel 2. rear lower closing panel 3. screws	**ERPV02A6**	**ERPV03A6**	**ERPV06A6**	**ERPV10A6**
Plenum box with circular connections (only for FWS-A)		Unit size / Plenum box / Ø [mm] x n Size 02 / EPCC02A6 / 180 x 2 Size 03 / EPCC03A6 / 180 x 2 Size 06 / EPCC06A6 / 180 x 3 Size 08 / EPCC10A6 / 180 x 4	**EPCC02A6**	**EPCC03A6**	**EPCC06A6**	**EPCC10A6**
Vertical auxiliary drainpan		Install it to collect condensationcondensation, Used for vertical FCUs	**EDPVB6**			
Horizontal auxiliary drainpan		Install it to collect condensation, Used for horizontal FCUs	**EDPHB6**			
Wired Controller		**FWEC10**: Electronic controller suitable for models with doubly HX (2/4-pipes), it can control 3 or 4 speeds fan(stepless for EC motor), ON/OFF type valve control, SUMMER/WINTER manual switch or automatic (on the basis of the air temperature) , ventilation consent on the basis of the water temperature.	**FWEC10**			
Wired remote controller, Advanced Plus version		All functionality of FWEC1A/2A additionally: - Management of BLDC fan motor - Management of proportional valve - Weekly timer programmed operating mode - Configurable digital outputs	**FWEC3A**			
Split controller - power control board			**FWEDA**			
Split controller - touch screen control panel			**SHINKATOUCHWA (white)/SHINKATOUCHBA (black)** **SHINKAZONEWA (white)/SHINKAZONEBA (black)** **SHINKASENSEWA (white)**			
On board mounting kit, for FWEC*A, remote airprobe incl.		To install FWEC1/2/3A thermostat on board, (left or right side) Use it only for FWV / FWZ or FWL / FWR 	**FWECKA**			
Wall mounting kit (spacing collar), for FWEC 1A /2A and 3A		Wall mounting kit (spacing collar), for FWEC 1A /2A and 3A	**FWFCKA**			
Temperature sensor kit, for FWEC*A		FWTSK sensor should be connected to the FWEC*A remote control using the supplied cable as accessory and, in case of prolongations, a shielded cable only. The sensor cable (1,5 m) can be cut to measure if necessary. Sensor must be positioned on the heat exchanger OR at the valve inlet (with or without vlave installation).	**FWTSKA**			
Relative humidity sensor kit , for FWEC2A and FWEC3A (tempereture sensor kit is required)		Bound together the air temperature remote probe, the installation of the humidity remote probe allows: - To display on the controller the environment humidity - To select the Dehumidification function The dehumidification function, available only in the cooling mode, uses the terminal to reduce the environmental humidity by approximately 10% compared to the humidity present at the moment of function selection	**FWHSKA**			
Water temperature sensor for simplified controller			**FWCSWA**			
Drain pump		For FWR only vertical installation	**CDRP1A**			

FWL-DAT/DAF

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 2 kW capacity
- Electric heater: equipped with two overheat cut-out thermostats

FWL-DAT FWL-DAF

Indoor unit			FWL-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
				2-pipe										4-pipe									
Cooling capacity (standard conditions)	Total capacity	High	kW	1,50	1,69	1,91	2,36	2,87	3,45	4,23	4,41	6,53	7,78	1,42	1,64	1,74	2,32	2,81	3,36	4,16	4,57	6,46	7,64
		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
	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	
FCCOP				E					D			E		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						
	Air flow rate	High	m^3/h	319	344		442		640	706	785	1.011	1.393	307	330	327	432	431	628	690	763	998	1.362
		Medium	m^3/h	233	271		341		450	497	605	771	1.022	225	261		334	332	444	490	593	765	1.007
		Low	m^3/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	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

FWM-DAT/DAF

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 2 kW capacity
- Electric heater: equipped with two overheat cut-out thermostats

FWM-DAT/DAF

FWEC2T/4T

FWEC1,2,3A

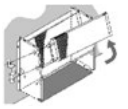
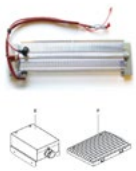
FWEDA

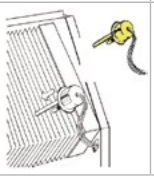
SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

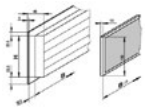
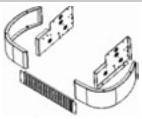
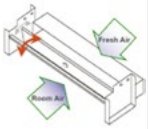
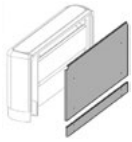
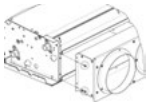
FWM-DAT

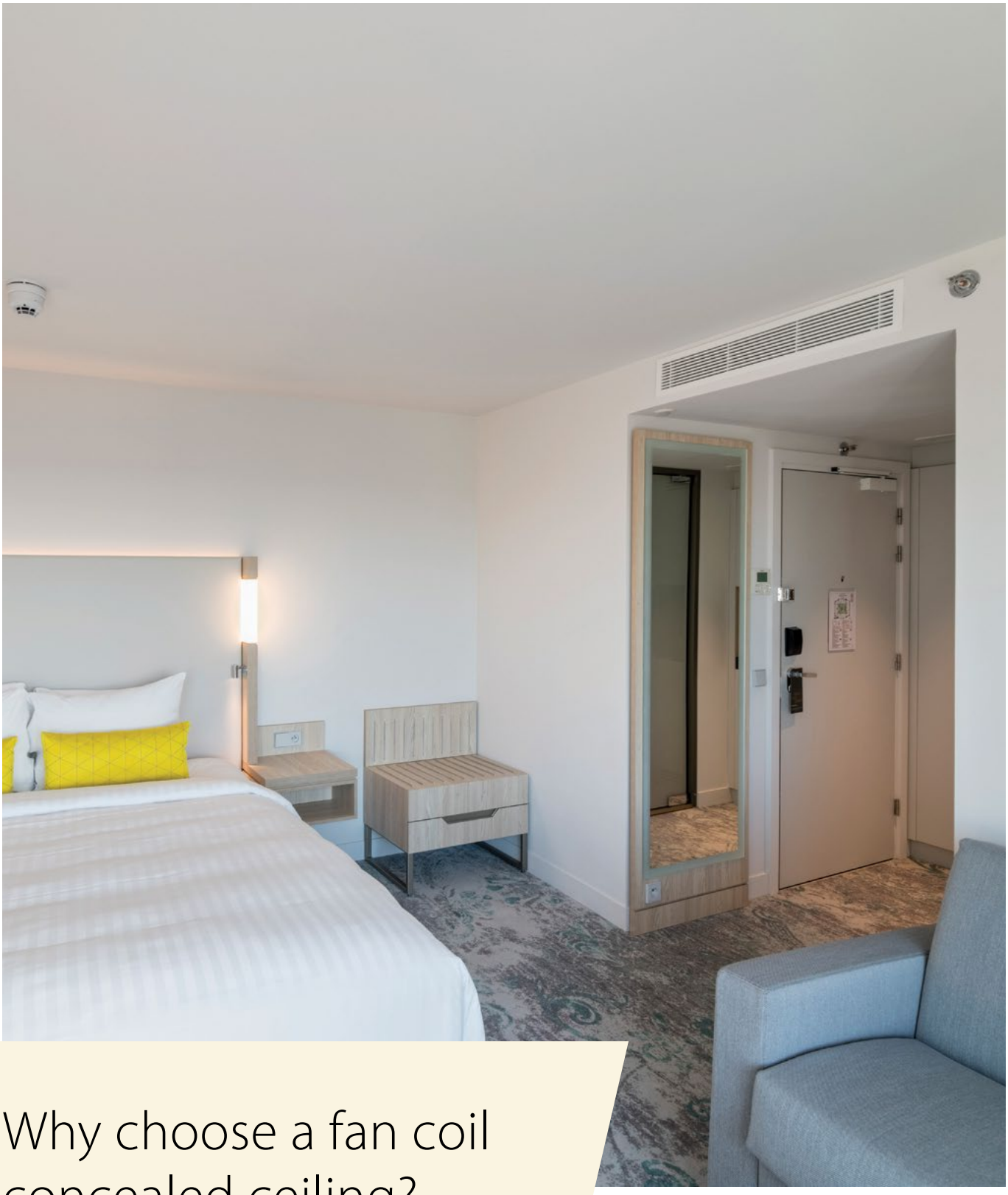
FWM-DAF

Indoor unit			FWM-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
				2-pipe										4-pipe									
Cooling capacity (standard conditions)	Total capacity	High	kW	1,50	1,69	1,91	2,36	2,87	3,45	4,23	4,41	6,53	7,78	1,42	1,64	1,74	2,32	2,81	3,36	4,16	4,57	6,46	7,64
		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
	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	
FCCOP				E					D			E		E					D			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																			
Fan	Type			Centrifugal																			
	Quantity			1			2							1			2						
	Air flow rate	High	m^3/h	319	344		442		640	706	785	1.011	1.393	307	330	327	432	431	628	690	763	998	1.362
		Medium	m^3/h	233	271		341		450	497	605	771	1.022	225	261		334	332	444	490	593	765	1.007
		Low	m^3/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	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

<table>
<tr><th>Options</th><th>FWL-DAT/DAF & FWM-DAT/DAF</th><th>01</th><th>15</th><th>02</th><th>25</th><th>03</th><th>35</th><th>04</th><th>06</th><th>08</th><th>10</th></tr>
<tr><td>Additional heat exchanger</td><td>  </td><td>The one-row heat exchanger is made of copper pipes and aluminum fins.
Supplied as kit:
1) heat exchanger
2) fixing plate
3) self-tapping screws</td><td colspan="3">ESRH02A6</td><td colspan="2">ESRH03A6</td><td colspan="3">ESRH06A6</td><td colspan="2">ESRH10A6</td></tr>
<tr><td>Electric Heater</td><td>  </td><td>Kit contains:
1/ EEH Electric heater tape
2/ E box = elec, wiring and operating relays
3/ Set of heat-resistant plastic grilles (std grills need to be replaced)<table><tr><th>Unit</th><th>Heater</th><th>Power consumption</th><th>Operting current</th></tr><tr><th></th><th></th><th>kw</th><th>A</th></tr><tr><td>FW01+15</td><td>EEH01</td><td>1,0</td><td>4,5</td></tr><tr><td>FW02+25</td><td>EEH02</td><td>1,5</td><td>6,8</td></tr><tr><td>FW03+35</td><td>EEH03</td><td>1,6</td><td>7,3</td></tr><tr><td>FW04+06</td><td>EEH06</td><td>2,0</td><td>9,1</td></tr><tr><td>FW08+10</td><td>EEH10</td><td>3,0</td><td>13,6</td></tr></table></td><td>EEH01A6</td><td colspan="2">EEH02A6</td><td colspan="2">EEH03A6</td><td colspan="3">EEH06A6</td><td colspan="2">EEH10A6</td></tr>
<tr><td>2-pipe 3-ways 230V on/off valve kit</td><td> </td><td>Kit contains:
1/ 3way Valve Body
SIZE 1÷35 valve = 1/2" (kvs=1,7)
SIZE 4÷10 valve = 3/4" (kvs=2,8)
2/ Electrothermal actuator
ON/OFF activation
- power supply 230V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ Thermal insulation on pipes and valve
4/ 2pcs of lockshield valve</td><td colspan="5">E2MV03A6</td><td colspan="2">E2MV06A6</td><td colspan="2">E2MV10A6</td></tr>
<tr><td>4-pipe 3-ways 230V on/off valve kit</td><td> </td><td>Kit contains:
1/ 2 pcs of 3way Valve Body
SIZE 1÷35 valve = 1/2" (kvs=1,7)
SIZE 4÷10 valve = 3/4" (kvs=2,8)
2/ 2 pcs of Electrothermal actuator
ON/OFF activation
- power supply 230V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ Thermal insulation on pipes and valve
4/ 4pcs of lockshield valve</td><td colspan="5">E4MV03A6</td><td colspan="2">E4MV06A6</td><td colspan="2">E4MV10A6</td></tr>
<tr><td>2 pipe 2-ways 230V on/off valve kit on cooling heat exchanger</td><td> </td><td>Kit contains:
1/ 2way Valve Body
SIZE 1÷6 valve = 1/2" (kvs=1,7)
SIZE 8÷10 valve = 3/4" (kvs=2,8)
2/ Electrothermal actuator
ON/OFF activation
- power supply 230V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ without thermal insulation
4/ NO lockshield /shut of valve in the kit</td><td colspan="7">E2MV2B07A6</td><td colspan="2">E2MV2B10A6</td></tr>
<tr><td>2 pipe 2-ways 230V on/off valve kit on additional heat exchanger</td><td> </td><td>Kit contains:
1/ 2way Valve Body
SIZE 1÷10 valve = 1/2" (kvs=1,7)
2/ Electrothermal actuator
ON/OFF activation
- power supply 230V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ without thermal insulation
4/ NO lockshield /shut of valve in the kit</td><td colspan="9">E2MV2B07A6</td></tr>
<tr><td>2-pipe simplified 3-ways 230V on/off valve kit</td><td> </td><td>Kit contains:
1/ 3way Valve Body
SIZE 1÷35 valve = 1/2" (kvs=1,7)
SIZE 4÷10 valve = 3/4" (kvs=2,8)
2/ Electrothermal actuator
ON/OFF activation
- power supply 230V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ without thermal insulation
4/ NO lockshield /shut of valve in the kit</td><td colspan="5">E2MVD03A6</td><td colspan="2">E2MVD06A6</td><td colspan="2">E2MVD10A6</td></tr>
<tr><td>4-pipe simplified 3-ways 230V on/off valve kit</td><td> </td><td>Kit contains:
1/ 2 pcs of 3way Valve Body
SIZE 1÷35 valve = 1/2" (kvs=1,7)
SIZE 4÷10 valve = 3/4" (kvs=2,8)
2/ 2 pcs of Electrothermal actuator
ON/OFF activation
- power supply 230V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ without thermal insulation
4/ NO lockshield /shut of valve in the kit</td><td colspan="5">E4MVD03A6</td><td colspan="2">E4MVD06A6</td><td colspan="2">E4MVD10A6</td></tr>
<tr><td>2-pipe 3-ways 24V on/ off valve kit</td><td> </td><td>Kit contains:
1/ 3way Valve Body
SIZE 1÷35 valve = 1/2" (kvs=1,7)
SIZE 4÷10 valve = 3/4" (kvs=2,8)
2/ Electrothermal actuator
ON/OFF activation
- power supply 24V
- total opening time cca 4 minutes
- NC (Normally Closed)
3/ Thermal insulation on pipes and valve
4/ 2pcs of lockshield valve</td><td colspan="5">E2M2V03A6</td><td colspan="2">E2M2V06A6</td><td colspan="2">E2M2V10A6</td></tr>
</table>

Options		FWL-DAT/DAF & FWM-DAT/DAF	01	15	02	25	03	35	04	06	08	10
4-pipe 3-ways 24V on/ off valve kit		Kit contains: 1/ 2 pcs of 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ 2 pcs of Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ Thermal insulation on pipes and valve 4/ 4pcs of lockshield valve			**E4M2V03A6**				**E4M2V06A6**		**E4M2V10A6**	
2-pipe 3-ways proportional valve kit		Kit contains: 1/ 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ Thermal insulation on pipes and valve 4/ 2pcs of lockshield valve			**E2MPV03A6**				**E2MPV06A6**		**E2MPV10A6**	
4-pipe 3-ways proportional valve kit		Kit contains: 1/ 2 pcs 3way Valve Body SIZE 1÷35 valve = 1/2" (kvs=1,7) SIZE 4÷10 valve = 3/4" (kvs=2,8) 2/ 2 pcs Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ Thermal insulation on pipes and valve 4/ 4pcs of lockshield valve			**E4MPV03A6**				**E4MPV06A6**		**E4MPV10A6**	
2 pipe 2-ways 24V on/ off valve kit on cooling heat exchanger		Kit contains: 1/ 2way Valve Body SIZE 1÷6 valve = 1/2" (kvs=1,7) SIZE 8÷10 valve = 3/4" (kvs=2,8) 2/ Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit			**E2M2V207A6**						**E2M2V210A6**	
2 pipe 2-ways 24V on/ off valve kit on additional heat exchanger		Kit contains: 1/ 2way Valve Body SIZE 1÷10 valve = 1/2" (kvs=1,7) 2/ Electrothermal actuator ON/OFF activation - power supply 24V - total opening time cca 4 minutes - NC (Normally Closed) 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit			**E2M2V207A6**							
2 pipe 2-ways proportional valve kit on cooling heat exchanger		Kit contains: 1/ 2way Valve Body SIZE 1÷6 valve = 1/2" (kvs=1,7) SIZE 8÷10 valve = 3/4" (kvs=2,8) 2/ Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit			**E2MPV207A6**						**E2MPV210A6**	
2 pipe 2-ways proportional valve kit on additional heat exchanger		Kit contains: 1/2way Valve Body SIZE 1÷10 valve = 1/2" (kvs=1,7) 2/ Electronic valve actuator Proportional activation - power supply 24V - total opening time cca 8 second - 0-10V control signal 3/ without thermal insulation 4/ NO lockshield /shut of valve in the kit			**E2MPV207A6**							
Fan stop thermostat		To prevent ventilating cold air during the heating stage If the water temperature inside the heat exchanger is lower than 42°C, (The bracket to fix fan stop thermostat is included in the kit.) Only required in combination with electromechanical controller			**YFSTA6**							

Options	FWL-DAT/DAF & FWM-DAT/DAF	01	15	02	25	03	35	04	06	08	10
Air intake & discharge grille 	S: Back suction grille fixed fins, made of anodised aluminium complete with filter and galvanised steel plate subframe and recyclable acrylic fibre air filter. D: Discharge grille with double row of anodised aluminium swinging fins, complete with galvanised steel plate subframe.	**EAIDF02A6**			**EAIDF03A6**		**EAIDF06A6**			**EAIDF10A6**	
Supporting feet	Kit contains: ESFV: 2 · ESFVG: 2 · FWV: ✓ · FWM: ✓ 2 · 2 · ✓ · - 0 · 1 · ✓ · - 4,2 x 13 mm: 4 · 8 · ✓ · ✓ 2,9 x 9,5 mm: 4 · 4 · ✓ · ✓	**ESFV06A6**								**ESFV10A6**	
Supporting feet & grille 		**ESFVG02A6**			**ESFVG03A6**		**ESFVG06A6**			**ESFVG10A6**	
Fresh air intake 	To prevent the water from freezing inside the heat exchanger during winter. Close the outdoor air inlet louvre when the system is not operational or use an anti-freeze solution.	**EFA02A6**			**EFA03A6**		**EFA06A6**			**EFA10A6**	
Rear panel 	It is supplied for installation of units, in case rear side can be seen (example: installation at the back of glass windows). Unit, in case of rear panel installation, can not be fixed to wall. Kit consists of: 1. rear upper closing panel 2. rear lower closing panel 3. screws	**ERPV02A6**			**ERPV03A6**		**ERPV06A6**			**ERPV10A6**	
Plenum box with circular connections (only for FWM-D) 	Unit size: Size 01-02 · Plenum box: EPCC02A6 · Ø [mm] x n: 180 x 2 Size 25-03 · EPCC03A6 · 180 x 2 Size 35-06 · EPCC06A6 · 180 x 3 Size 08-10 · EPCC10A6 · 180 x 4	**EPCC02A6**			**EPCC03A6**		**EPCC06A6**			**EPCC10A6**	
Vertical auxiliary drainpan	Install it to collect condensation, Used for vertical FCUs	**EDPVB6**									
Horizontal auxiliary drainpan	Install it to collect condensation, Used for horizontal FCUs	**EDPHB6**									
Controller electro-mechanical, Built in	For installation on board the unit is used for: Manually changing the operation fan speed of the unit; Automatically setting the room temperature by operating the motor-ventilator of the unit, both during cooling and heating, - 4 position rotary speed selector switch (three speeds + stop) - Cooling/Heating operation selector - Manual set thermostat	**ECFWMB6**									
Wired Controller	**FWEC2T**: Electronic controller suitable for models with single HX (2-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	**FWEC2T**									
	FWEC4T: Electronic controller suitable for models with doubly HX (4-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	**FWEC4T**									
	FWEC10: Electronic controller suitable for models with doubly HX (2/4-pipes), it can control 3 or 4 speeds fan(stepless for EC motor), ON/OFF type valve control, SUMMER/WINTER manual switch or automatic (on the basis of the air temperature) , ventilation consent on the basis of the water temperature.	**FWEC10**									
Wired remote controller, Standard version	Onboard or wall mounted installation: - Management of AC 3-speeds fan motor (on/off and automatic speed change) - Management of on/off valve - Management of electric heater - Cooling / heating mode swithcing based on air / water temperature - Clean contact for remote activation (e,g, window contact, remote on/off)	**FWEC1A**									



Why choose a fan coil concealed ceiling?

Fan coil concealed ceiling units provide discreet climate control solutions by being hidden within the ceiling voids. These units are perfect for maintaining clean interior aesthetics without visible equipment while still delivering efficient cooling and heating performance. They are ideal for high-end residential properties, luxury hotels, or modern office spaces where appearance is crucial.

FWE-FT

AC fan motor unit for horizontal concealed mounting

- Available static pressure up to 80Pa
- Standard left and right side water connection
- Additional drain pan as standard
- G2 plastic frame filter
- Open protocol control
- Factory mounted valve available as option
- Reduced sound noise thanks to the thinner heat exchanger

FWE-FT

FWEC2T/4T

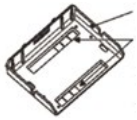
FWEDA

SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWE-FT

Indoor unit				FWE-FT	04	05	06	08	10	12	14	16	20	24
					2-pipe									
Cooling capacity (standard conditions (1))	Total capacity	High	kW		2,18	2,7	3,44	4,47	4,76	5,38	7,12	7,56	10,46	11,97
		Medium	kW		1,92	2,25	3,12	3,94	4,33	4,95	6,73	7,22	8,76	10,69
		Low	kW		1,64	1,83	2,38	3,02	3,44	3,56	5,64	5,74	6,89	7,83
	Sensible capacity	High	kW		1,81	2,08	2,68	3,5	3,76	4,32	5,68	6,21	7,75	8,98
		Medium	kW		1,56	1,74	2,41	3,08	3,38	3,96	5,13	5,79	6,42	7,91
		Low	kW		1,31	1,41	1,83	2,32	2,62	2,88	4,08	4,25	4,85	5,5
	Latent capacity	High	kW		0,37	0,62	0,76	0,89	1	1,06	1,44	1,35	2,71	3
Heating capacity (standard conditions (2))	Capacity	High	kW		2,66	3,19	4,16	5,7	5,94	6,75	8,29	9,3	10,85	12,08
		Medium	kW		2,28	2,68	3,71	4,7	5,31	6,05	7,65	8,39	9,31	11,03
		Low	kW		1,94	2,23	2,82	3,53	4,33	4,44	6,34	6,43	7,38	8,34
Power input	High		kW		0,06		0,08	0,1		0,12	0,18	0,19		0,23
	Medium		kW		0,05		0,08		0,09	0,1	0,17	0,18	0,17	0,21
	Low		kW		0,05		0,06		0,08	0,08	0,15		0,14	0,16
Dimensions	Unit	HeightxWidthxDepth	mm		253x797x570			253x1.100x570			253x1.410x570		253x1.710x570	
Weight	Unit		kg		17	18		24			35		43	
Casing	Colour				Metal									
Air filter	Type				Plastic Frame / PP Filter Net (G1)									
Fan	Type				Sirocco fan									
	Quantity				1			2			3		4	
	Air flow rate	High	m^3/h		465		638	854	931	1.082	1.467	1.692	1.707	1.990
		Medium	m^3/h		379		555	668	805	931	1.314	1.467	1.382	1.751
		Low	m^3/h		307		400	467	620		1.021		1.001	1.184
	Availabe static pressure	High	Pa		80				70	80	75		80	
		Medium	Pa		60		70	60	65	75	70	75	70	75
		Low	Pa		40	45				50				
Total sound power level	High		dBA		52		61	54	57	61	60	64	59	64
	Medium		dBA		46	47	56	49	54	57	58	60	53	60
	Low		dBA		39	40	47	40	48	48	51		47	50
Water flow	Cooling	High	l/h		376	465	591	769	819	925	1.224	1.300	1.799	2.059
		Medium	l/h		331	387	537	678	744	852	1.157	1.514	1.507	1.839
		Low	l/h		281	315	409	519	592	612	969	987	1.185	1.347
	Heating	High	l/h		457	549	719	980	1.021	1.160	1.426	1.599	1.866	2.077
		Medium	l/h		393	461	639	808	913	1.040	1.315	1.443	1.601	1.897
		Low	l/h		334	383	484	607	774	763	1.083	1.106	1.269	1.434
Piping connections	Water	Inlet			3/4" BSP (female thread)									
		Outlet			3/4" BSP (female thread)									
	Drain	OD	mm		16,7									
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/220-240									

(1) Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB; (2) Heating: indoor temp, 20°CDB, 15°CWB; entering water temp, 45°C, water temperature drop 5K.

Options	FWE-FT	4	5	6	8	10	12	14	16	20	24
		2 pipe									
	Supply loose valve										
	3-ways 230V on/off valve kit	EK02WV3V3W5A						EK04WV3V3C5A		EK06WV3V3C5A	
	2-ways 230V on/off valve kit	EK02WV2V3W5A						EK04WV2V3C5A		EK06WV2V3C5A	
	3-ways 24V proportional valve kit	EK02P3V24W5A						EK04P3V24C5A		EK06P3V24C5A	
	Supply loose electronic controller										
	Wired remote controller (Standard)	FWEC1A									
	Wired remote controller (Advanced)	FWEC2A									
	Wired remote controller (Advanced Plus)	FWEC3A									
	Split controller - power control board	FWEDA									
	Split controller - touch screen control panel	SHINKATOUCHWA (white)/SHINKATOUCHBA (black)									
		SHINKAZONEWA (white)/SHINKAZONEBA (black)									
		SHINKASENSEWA (white)									
	Electronic controller	FWEC2T									
	G2 Filter	EKAF02G5A			EKAF03G5A			2 x EKAF02G5A		EKAF02G5A + EKAF03G5A	
	Valve cable kit	EKER015A									
	**Wall mounting kit** for FWEC1A/FWEC2A/FWEC3A	FWFCKA									
	Temperature sensor kit for FWEC1A/FWEC2A/FWEC3A/ FWECSAP	FWTSKA									
	Relative humidity sensor kit for FWEC2A/FWEC3A/FWECSAP	FWHSKA									
	Water temperature sensor for simplified controller	FWCSWA									
	Master slave interface for FWEC1A/FWEC2A/FWEC3A/ FWEC2T/FWEC4T	EPIMSA6									

FWE-FF

AC fan motor unit for horizontal concealed mounting

- Available static pressure up to 80Pa
- Standard left and right side water connection
- Additional drain pan as standard
- G2 plastic frame filter
- Open protocol control
- Factory mounted valve available as option
- Reduced sound noise thanks to the thinner heat exchanger

FWE-FF

FWEC2T/4T

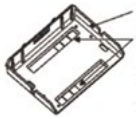
FWEDA

SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWE-FF

Indoor unit				FWE-FF	04	05	06	08	10	12	14	16	20	24
					4-pipe									
Cooling capacity (standard conditions (1))	Total capacity	High	kW		2,11	2,59	3,4	4,35	4,63	5,32	6,95	7,44	10	11,52
		Medium	kW		1,85	2,16	3,03	3,79	4,19	4,82	6,55	7,05	8,48	10,35
		Low	kW		1,58	1,78	2,29	2,92	3,34	3,39	5,49	5,58	6,79	7,73
	Sensible capacity	High	kW		1,75	2,05	2,72	3,52	3,7	4,27	5,61	6,18	7,6	8,85
		Medium	kW		1,51	1,7	2,43	3,3	3,31	3,81	5,06	5,73	6,37	7,84
		Low	kW		1,27	1,39	1,82	2,28	2,57	2,78	4,03	4,19	4,9	5,57
	Latent capacity	High	kW		0,36	0,54	0,68	0,83	0,93	1,05	1,33	1,26	2,41	2,68
Heating capacity (standard conditions (2))	Capacity	High	kW		2,59	2,65	3,18	5,11	5,3	5,77	8,09	8,79	10,66	11,82
		Medium	kW		2,29	2,34	2,95	4,44	4,91	5,35	7,64	8,19	9,37	10,89
		Low	kW		2	2,05	2,43	3,63	4,25	4,3	6,68	6,78	7,85	8,65
Power input	High		kW		0,057		0,079	0,094	0,109	0,122	0,172	0,189	0,18	0,224
	Medium		kW		0,05		0,07	0,08	0,1	0,11	0,16	0,17	0,16	0,2
	Low		kW		0,05		0,06	0,07	0,08		0,14		0,13	0,15
Dimensions	Unit	HeightxWidthxDepth	mm		253x797x570			253x1.100x570			253x1.530x675		253x1.830x675	
Weight	Unit		kg		19,5	20,5		27	27,5		38,0		46,5	
Casing	Colour				Metal									
Air filter	Type				Plastic Frame / PP Filter Net (G1)									
Fan	Type				Sirocco fan									
	Quantity				1			2			3		4	
	Air flow rate	High	m^3/h		465		638	854	931	1.082	1.467	1.692	1.707	1.990
		Medium	m^3/h		379		555	668	805	931	1.314	1.467	1.382	1.751
		Low	m^3/h		307		400	467	620		1.021		1.001	1.184
	Availabe static pressure	High	Pa		80				70	80	75		80	
		Medium	Pa		60	70		60	65	75	70	75	70	75
		Low	Pa		40	45					50			
Total sound power level	High		dBA		52	53	61	55	57	60	61	64	60	64
	Medium		dBA		46	47	57	49	53	57	58	61	54	60
	Low		dBA		40		48	42	47		52		48	51
Water flow	Cooling	High	l/h		363	446	584	748	796	915	1.195	1.279	1.720	1.981
		Medium	l/h		319	372	522	652	720	829	1.127	1.212	1.459	1.780
		Low	l/h		272	306	393	502	574	583	943	960	1.168	1.330
	Heating	High	l/h		223	228	273	440	456	496	695	756	916	1.017
		Medium	l/h		197	201	254	382	422	460	657	704	806	936
		Low	l/h		172	176	209	312	366	370	575	583	675	744
Piping connections	Water	Inlet			3/4" BSP (female thread)									
		Outlet			3/4" BSP (female thread)									
	Drain	OD	mm		16,7									
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/220-240									

(1) Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB; (2)Heating: indoor temp, 20°CDB, 15°CWB; entering water temp, 45°C, water temperature drop 5K.

Options	FWE-FF	4	5	6	8	10	12	14	16	20	24
		4 pipe									
	Supply loose valve										
	3-ways 230V on/off valve kit	2 x EK02WV3V3W5A						2 x EK04WV3V3C5A		2 x EK06WV3V3C5A	
	2-ways 230V on/off valve kit	2 x EK02WV2V3W5A						2 x EK04WV2V3C5A		2 x EK06WV2V3C5A	
	3-ways 24V proportional valve kit	2 x EK02P3V24W5A						2 x EK04P3V24C5A		2 x EK06P3V24C5A	
	Supply loose electronic controller										
	Wired remote controller (Standard)	FWEC1A									
	Wired remote controller (Advanced)	FWEC2A									
	Wired remote controller (Advanced Plus)	FWEC3A									
	Split controller - power control board	FWEDA									
	Split controller - touch screen control panel	SHINKATOUCHWA (white)/SHINKATOUCHBA (black)									
		SHINKAZONEWA (white)/SHINKAZONEBA (black)									
		SHINKASENSEWA (white)									
	Electronic controller	FWEC4T									
	G2 Filter	EKAF02G5A			EKAF03G5A			2 x EKAF02G5A		EKAF02G5A + EKAF03G5A	
	Valve cable kit	EKER015A									
	Wall mounting kit for FWEC1A/FWEC2A/FWEC3A	FWFCKA									
	Temperature sensor kit for FWEC1A/FWEC2A/FWEC3A/ FWECSAP	FWTSKA									
	Relative humidity sensor kit for FWEC2A/FWEC3A/FWECSAP	FWHSKA									
	Water temperature sensor for simplified controller	FWCSWA									
	Master slave interface for FWEC1A/FWEC2A/FWEC3A/ FWEC2T/FWEC4T	EPIMSA6									

FWE-DAT/DAF

AC fan motor unit for horizontal or vertical concealed mounting

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

FWE-DAT/DAF

FWEC2T/4T

FWEC1,2,3A

FWEDA

SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWE-DT

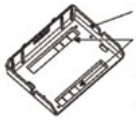
FWE-DF

Indoor unit			FWE-DT/FWE-DF	03	04	05	06	07	08	10	11	03	04	05	06	07	08	10	11
				2-pipe								4-pipe							
Cooling capacity (standard conditions)	Total capacity	High	kW	1,77	2,06	2,58	3,12	3,83	3,92	5,22	5,60	1,77	2,06	2,58	3,12	3,83	3,92	5,22	5,60
		Medium	kW	1,60	1,64	2,00	2,01	2,57	2,96	3,52	3,78	1,60	1,64	2,00	2,01	2,57	2,96	3,52	3,78
		Low	kW	1,22	1,21	1,33	1,24	1,80	2,38	2,57	2,81	1,22	1,21	1,33	1,24	1,80	2,38	2,57	2,81
		Fan speed 1	kW	1,22	1,21	1,33	1,24	1,80	2,38	2,57	2,81	1,22	1,21	1,33	1,24	1,80	2,38	2,57	2,81
	Sensible capacity	High	kW	3,22	4,28	4,59	2,56	3,14	3,22	4,28	4,59	1,45	1,69	2,11	2,56	3,14	3,22	4,28	4,59
		Medium	kW	2,43	2,89	3,10	1,64	2,11	2,43	2,89	3,10	1,31	1,34	1,64		2,11	2,43	2,89	3,10
		Low	kW	1,95	2,11	2,30	1,02	1,48	1,95	2,11	2,30	1,16	0,99	1,09	1,02	1,48	1,95	2,11	2,30
		Fan speed 1	kW	1,95	2,11	2,30	1,02	1,48	1,95	2,11	2,30	1,00	0,99	1,09	1,02	1,48	1,95	2,11	2,30
	Latent capacity	Super high	kW	0,35	0,37	0,46	0,56	0,69	0,71	0,94	1,01	0,35	0,37	0,46	0,56	0,69	0,71	0,94	1,01
		High	kW	0,32	0,34	0,43	0,49	0,60	0,66	0,86	0,92	0,32	0,34	0,43	0,49	0,60	0,66	0,86	0,92
Heating capacity (standard conditions)	Capacity	High	kW	2,28	2,65	3,33	4,03	4,98	5,11	6,92	7,43	1,96	2,61	2,94	3,84	4,96	4,57	5,83	6,18
		Medium	kW	2,07	2,10	2,56	2,54	3,28	3,76	4,63	4,98	1,81	2,37	2,58	2,69	3,72	3,73	4,26	4,49
		Low	kW	1,55	1,53	1,67	1,52	2,26	2,94	3,36	3,68	1,47	2,11	2,16	1,91	2,97	3,22	3,39	3,60
		Fan speed 1	kW	1,55	1,53	1,67	1,52	2,26	2,94	3,36	3,68	1,47	2,11	2,16	1,91	2,97	3,22	3,39	3,60
Power input			kW	0,031	0,032	0,039	0,062	0,065	0,067	0,104	0,110	0,031	0,032	0,039	0,062	0,065	0,067	0,104	0,110
			kW	0,03			0,04			0,05		0,03			0,04			0,05	
			kW	0,03			0,04		0,03						0,04		0,03		
	Fan speed 1		kW	0,03			0,04		0,03						0,04		0,03		
Dimensions	Unit	HeightxWidthxDepth	mm	200x797x610			200x 997x610	200x1.200x610				200x797x610			200x 997x610	200x1.200x610			
Casing	Colour			Metal															
Air filter	Type			Plastic Frame / PP Filter Net (G1)															
Fan	Type			Sirocco fan															
	Quantity			2			3	4				2			3	4			
	Air flow rate	High	m^3/h	365	385	488	676	820	725	1.031	1.115	365	385	488	676	820	725	1.031	1.115
		Medium	m^3/h	326	306	373	446	517	520	648	705	326	306	373	446	517	520	648	705
		Low	m^3/h	235	226	242	289	335	396	436	489	235	226	242	289	335	396	436	489
		Fan speed 1	m^3/h	235	226	242	289	335	396	436	489	235	226	242	289	335	396	436	489
Total sound power level	High		dBA	42,0	44,0		50,0			57,0	59,0	42,0	44,0		50,0			57,0	59,0
	Medium		dBA	39,0	38,0	41,0	39,0	38,0		47,0		39,0	38,0	41,0	39,0	38,0		47,0	
	Low		dBA	32,0	33,0	32,0	30,0	31,0		38,0	40,0	32,0	33,0	32,0	30,0	31,0		38,0	40,0
	Fan speed 1		dBA	33,0			30,0	31,0		38,0	40,0	33,0			30,0	31,0		38,0	40,0
Water flow	Cooling	High	l/h	316	368	461	560	685	702	937	1.005	316	368	461	560	685	702	937	1.005
		Medium	l/h	287	293	357	360	460	570	627	674	287	293	357	360	460	529	627	674
		Low	l/h	219	218	238	225	324	423	457	500	219	218	238	225	324	423	457	500
		Fan speed 1	l/h	219	218	238	225	324	423	457	500	219	218	238	225	324	423	457	500
	Heating	High	l/h	201	233	293	354	438	449	610	654	172	230	258	337	437		513	544
		Medium	l/h	181	184	225	223	289	331	408	438	159	208	227	236	327		374	395
		Low	l/h	136	134	147	133	199	259	296	324	129	186	190	167	261		298	317
		Fan speed 1	l/h	136	134	147	133	199	259	296	324	129	186	190	167	261		298	317
Piping connections	Drain	OD	mm	17,3															
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240															
Current input	High		A	0,01		0,02	0,03	0,02		0,04	0,05	0,01		0,02	0,03	0,02		0,04	0,05
	Medium		A	0,01			0,02				0,04	0,01			0,02				0,04
	Low		A	0,01			0,02			0,01	0,03	0,01			0,02			0,01	0,03

(1) Cooling: Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB.

(2) Heating for 2 pipe: indoor temp, 20°CDB, 15°CWB; entering water temp, 45°C, water temperature drop 5K.

(3) Heating for 4 pipe: indoor temp, 20°CDB, 15°CWB; entering water temp, 65°C, water temperature drop 10K.

Options	FWE-DAT/DAF	03	04	05	06	07	08	10	11
	2 pipes 3-ways (with 4 ports) proportional valve	**E4V2PN04V3DA**			**E4V2PN06V3DA**			**E4V2PN10V3DA**	
	4 pipes 3-ways (with 4 ports) proportional valve	**E4V4PN04V3DA**			**E4V4PN06V3DA**			**E4V4PN10V3DA**	
	2-ways on-off 230V valve 2-pipes	**E2V2VN01V3WA**							
	2-ways on-off 230V valve 4-pipes	**E2V4VN01V3WA**							
	3-ways on-off 230V valve 2-pipes	**E3V2VN02V3WA**							
	3-ways on-off 230V valve 4-pipes	**E3V4VN02V3WA**							
	Additional drain pan	**ESFD01D6**							
	Vertical installation kit	**ESFH01D5**							
	Wired Controller FWEC2T: Electronic controller suitable for models with single HX (2-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	**FWEC2T**							
	Wired Controller FWEC4T: Electronic controller suitable for models with doubly HX (4-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	**FWEC4T**							
	Electronic Controller - standard version It can operate with 3 speeds of fan only, if it also manages 2 valves on 4-pipes unit ; on/off control valve; heating/cooling function; digital input for external release or window contact	**FWEC1A**							
	Electronic Controller - advanced version 3 or 4 stages speed controller; on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol)	**FWEC2A**							
	Electronic Controller - advanced plus version 3 or 4 stages speed controller (or stepless for EC motor); on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol); timer with weekly program and illuminated LCD	**FWEC3A**							
	Split controller - power control board	**FWEDA**							
	Split controller - touch screen control panel	**SHINKATOUCHWA (white)/SHINKATOUCHBA (black)**							
		SHINKAZONEWA (white)/SHINKAZONEBA (black)							
		SHINKASENSEWA (white)							
	**Wall mounting kit (spacing collar)** for FWEC1A /2A and 3A	**FWFCKA**							
	Temperature sensor kit for FWEC1A /2A and 3A; with 1,5 meters of cable	**FWTSKA**							
	Relative humidity sensor kit for FWEC2A and FWEC3A; with 1,5 meters of cable	**FWHSKA**							
	Water temperature sensor for simplified controller	**FWCSWA**							
	Master/Slave interface for connection of max. 4 devices to a remote control; max. 3,2 Amp. operating current per device connection	**EPIMSA6**							

FWP-CT/CF

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

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

FWP-CT/CF

FWEC10

FWEC3A

FWEDA

SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

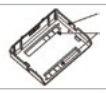
FWP-CT

FWP-CF

Indoor unit	FWP-CT/CF	04			05			06			08			10			11			15			17		
		2-pipe																							
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7		1,6,7			1,6,7			5,6,7			5,6,7		
Control voltage (E)	V	2,90	8,00	9,00	4,30	7,50	8,40	4,50	7,40	8,30	5,40	8,30	9,90	3,40	7,60	8,50	3,40	7,60	8,50	6,80	7,50	8,30	6,80	7,50	8,30
Rated air flow (E)	m^3/h	109	246	276	171	275	341	195	360	402	305	532	652	333	687	760	333	687	760	1.050	1.163	1.289	1.050	1.163	1.289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	6	25	33	10	24	39	10	26	35	22	51	77	11	54	68	11	54	68	105	128	162	105	128	162
Maximum current absorption	A		0,32			0,60			0,84			0,84			0,91			0,91			3,52			3,52	
Total cooling capacity (1)(E)	kW	0,93	1,76	1,95	1,29	1,95	2,34	1,59	2,74	3,04	1,98	3,26	3,79	2,29	4,34	4,75	2,51	4,91	5,35	6,28	6,81	7,38	7,04	7,64	8,28
Sensible cooling capacity (1)(E)	kW	0,62	1,25	1,39	0,91	1,39	1,66	1,09	1,91	2,11	1,48	2,48	2,92	1,67	3,21	3,51	1,77	3,45	3,76	4,64	5,03	5,46	4,96	5,38	5,84
FCEER class (E)			A			A			A			A			A			A			C			B	
Water flow (2)	l/h	161	306	340	222	339	408	274	476	527	343	568	664	394	753	828	432	850	930	1.094	1.190	1.295	1.225	1.332	1.448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	-
Heating capacity (3)(E)	kW	0,88	1,21	1,99	1,33	1,98	2,35	1,59	2,80	3,10	2,35	3,71	4,31	2,54	4,76	5,17	2,63	5,03	5,49	6,68	7,22	7,80	7,18	7,80	8,46
FCCOP class (E)							A							A			A			B			B		
Water flow (3)	l/h	153	315	346	231	345	408	276	488	538	408	644	749	441	827	898	457	875	955	1.162	1.256	1.356	1.248	1.355	1.471
Water pressure drop (3)(E)	kPa	1	4	5	2	5	7	2	6	8	4	9	11	2	7	8	3	9	11	12	14	16	17	19	22
Standard coil - number of rows			3			3			4			3			3			4			3			4	
Total sound power level (4)	dB(A)	28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	36	47	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3		1,20			1,20			2,20			1,60			2,50			3,30			2,50			3,30	
Cross-section area of power cables (5)	mm^2		1,00			1,00			1,00			1,00			1,00			1,00			1,50			1,50	
		4-pipe																							
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			1,6,7			5,6,7			5,6,7	
Control voltage (E)	V	2,90	7,90	8,90	4,50	7,30	8,90	4,50	7,40	8,30	5,40	8,30	9,90	3,40	7,60	8,50	3,40	7,60	8,50	6,80	7,50	8,30	6,80	7,50	8,30
Rated air flow (E)	m^3/h	109	243	270	170	272	336	195	357	398	302	524	642	333	683	755	333	683	755	1.050	1.163	1.289	1.050	1.163	1.289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	6	25	32	10	23	39	10	26	35	21	50	77	11	54	67	11	54	67	105	128	162	105	128	162
Maximum current absorption	A		0,32			0,60			0,84			0,84			0,91			0,91			3,52			3,52	
Total cooling capacity (1)(E)	kW	0,93	1,74	1,91	1,28	1,93	2,31	1,59	2,72	3,01	1,95	3,22	3,75	2,29	4,32	4,72	2,51	4,88	5,32	6,28	6,81	7,38	7,04	7,64	8,28
Sensible cooling capacity (1)(E)	kW	0,62	1,24	1,36	0,90	1,38	1,64	1,09	1,89	2,09	1,47	2,44	2,89	1,67	3,19	3,48	1,77	3,43	3,74	4,64	5,03	5,46	4,96	5,38	5,84
FCEER class (E)			A			A			A			A			A			A			C			B	
Water flow (2)	l/h	161	302	333	221	335	404	274	473	522	339	562	656	394	749	822	432	846	925	1.094	1.190	1.295	1.225	1.332	1.448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26
Heating capacity (3)(E)	kW	1,14	1,93	2,06	1,55	2,07	2,32	2,09	3,09	3,29	2,80	3,82	4,24	3,40	5,17	5,45	3,40	5,17	5,45	6,42	6,73	7,06	6,42	6,73	7,06
FCCOP class (E)			A			A			A			A			A			A			C			C	
Water flow (3)	l/h	100	169	180	136	181	204	183	271	288	245	334	371	297	452	477	297	452	477	562	589	618	562	589	618
Water pressure drop (3)(E)	kPa	1	2	3	2	3	3	2	3	4	3	5	6	6	13	14	6	13	14	19	21	22	19	21	22
Total sound power level (4)		28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Standard coil - number of rows	dB(A)	3+1			3+1			4+1			3+1			3+1			4+1			3+1			4+1		
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	36	47	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3		0,47			0,47			0,59			0,59			0,97			0,97			0,97			0,97	
Cross-section area of power cables (5)	mm^2		1,00			1,00			1,00			1,00			1,00			1,00			1,50			1,50	
Power supply cable type		N07V-K																							
Safety fuse F	A		1			1			1			1			1			1			2			2	
Fuses type		gG																							
Power supply	Phase/Frequency Hz	1~/50																							
Control systems	Wired remote control	FWEC3A / FWECSA																							

(1) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2015; (2) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity); (3) Water temperature 45°C / 40°C, air temperature 20°C; (4) Sound power measured according to standards ISO 3741 and ISO 3742; (5) Sound pressure measured at a distance of 4 m in a free field with a directivity factor of 1; (E) EUROVENT certified data

Accessories for FWP-CT/CF

Options	FWP-CT/CF	04	05	06	08	10	11	15	17
	Electric heater	EH060V3A		EH100V36A		EH200V36A			
	3-ways 230V ON/OFF valve kit (2-pipe)	E4V2N05OV3WA		E4V2N08OV3WA		E2MV10A6			
	3-ways 230V ON/OFF valve kit (4-pipe)	E4V2N05OV3WA + E4VHN08OV3WA		E4V2N08OV3WA + E4VHN08OV3WA		E2MV10A6 + E4VHN17OV3WA			
	2-ways 230V ON/OFF valve kit (2-pipe)	E2MV2B07A6				E2MV2B10A6			
	2-ways 230V ON/OFF valve kit (4-pipe)	E2MV2B07A6 + E2MV2B07A6				E2MV2B10A6 + E2MV2B07A6			
	3-ways 24V ON/OFF valve kit (2-pipe)	E4V2N05O24WA		E4V2N08O24WA		E4V2N17O24WA			
	2-ways 24V ON/OFF valve kit (2-pipe)	E2M2V207A6				E2M2V210A6			
	2-ways 24V ON/OFF valve kit (additional heat exchanger)	E2M2V207A6				E2M2V210A6			
	3-ways proportional valve kit (2-pipe)	E4V2N05P24WA		E4V2N08P24WA		E2MPV10A6			
	3-ways proportional valve kit (additional heat exchanger)	E4V2N05P24WA + E4VHN08P24WA		E4V2N08P24WA + E4VHN08P24WA		E2MPV10A6+ E4VHN17P24WA			
	2-ways proportional valve kit (cooling heat exchanger)	E2MPV207A6				E2MPV210A6			
	2-ways proportional valve kit (additional heat exchanger)	E2MPV207A6							
	Pressure independent controlled valves (2-pipe)	FWBPVPIC2V15			FWBPVPIC2V20		FWBPVPIC2V25		
	Pressure independent controlled valves (4-pipe)	FWBPVPIC2V1515LF		FWBPVPIC2V1515	FWBPVPIC2V2015		FWBPVPIC2V2515		
	Plenum box (not insulated) with circular connection (supply side)	PLT1NAA		PLT2NAA		PLT3NAA			
	Plenum box (insulated) with circular connection (supply side)	PLT1CAA		PLT2CAA		PLT3CAA			
	Front air intake kit	EDFAI04A		EDFAI06A		EDFAI10A			
	G4 Filter	FG4T1AA		FG4T2AA		FG4T3AA			
	Aux, Drain tray	EDPD7				EDPD9			
	Electronic Controller - standard version It can operate with 3 speeds of fan only, if it also manages 2 valves on 4-pipes unit ; on/off control valve; heating/cooling function; digital input for external release or window contact	FWEC1A							
	Electronic Controller - advanced version 3 or 4 stages speed controller; on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol)	FWEC2A							
	Electronic Controller - advanced plus version 3 or 4 stages speed controller (or stepless for EC motor); on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol); timer with weekly program and illuminated LCD	FWEC3A							
	Wired Controller FWEC2T: Electronic controller suitable for models with single HX (2-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	FWEC2T							
	Wired Controller FWEC4T: Electronic controller suitable for models with doubly HX (4-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	FWEC4T							
	Wired Controller FWEC10: Electronic controller suitable for models with doubly HX (2/4-pipes), it can control 3 or 4 speeds fan(stepless for EC motor), ON/OFF type valve control, SUMMER/WINTER manual switch or automatic (on the basis of the air temperature), ventilation consent on the basis of the water temperature.	FWEC10							
	Split controller - power control board	FWEDA							
	Split controller - touch screen control panel	SHINKATOUCHWA (white)/SHINKATOUCHBA (black)							
		SHINKAZONEWA (white)/SHINKAZONEBA (black)							
		SHINKASENSEWA (white)							
	Fan stop thermostat	YFSTA6							
	Drain Pump	CDRP1A							
	Cover box for electric connections	FWBOX							
	**Wall mounting kit (spacing collar)** for FWEC1A /2A and 3A	FWFCKA							
	Temperature sensor kit for FWEC1A /2A and 3A; with 1,5 meters of cable	FWTSKA							
	Relative humidity sensor kit for FWEC2A and FWEC3A; with 1,5 meters of cable	FWHSKA							
	Water temperature sensor for simplified controller	FWCSWA							
	Master/Slave interface for connection of max. 4 devices to a remote control; max. 3,2 Amp. operating current per device connection	EPIMSA6							

FWB-CT/CF

AC fan motor unit for horizontal concealed mounting

- Compact dimensions, can easily be mounted in a narrow ceiling void
- Heat exchanger up to 4 rows
- Drain pan to collect the condensate from: heat exchanger and regulating valves -reversible water connections
- The air filter can easily be removed for cleaning
- Available static pressure up to 80Pa at maximum speed

FWB-CT/CF

FWEC2T/4T

FWEC1,2,3A

FWEDA

SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

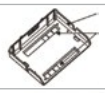
FWB-CT

FWB-CF

Indoor unit	FWB-CT/CF	04			05			06			08			10			11			15			17		
		2-pipe																							
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			1,6,7			5,6,7			5,6,7	
Rated air flow (E)	m^3/h	109	246	276	171	275	341	195	360	402	305	532	652	333	687	760	333	687	760	1.050	1.163	1.289	1.050	1.163	1.289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	24	57	82	34	69	106	34	85	106	76	143	192	76	167	192	76	167	192	235	280	332	235	280	332
Maximum current absorption	A		0,40			0,56			0,56			1,10			1,10			1,10			2,10			2,10	
Total cooling capacity (1)(E)	kW	0,92	1,72	1,90	1,27	1,90	2,27	1,57	2,69	2,96	1,92	3,17	3,68	2,22	4,22	4,63	2,44	4,79	5,23	6,15	6,66	7,21	6,91	7,49	8,12
Sensible cooling capacity (1)(E)	kW	0,61	1,21	1,34	0,89	1,34	1,59	1,07	1,86	2,03	1,42	2,39	2,81	1,60	3,09	3,39	1,70	3,33	3,64	4,51	4,88	5,29	4,83	5,23	5,67
FCEER class (E)						D						E						D							
Water flow (1)	l/h	160	306	340	222	339	408	274	476	527	343	568	664	394	753	828	432	850	930	1.095	1.191	1.295	1.225	1.333	1.448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26
Heating capacity (3)(E)	kW	0,88	1,81	1,99	1,33	1,98	2,35	1,59	2,80	3,10	2,35	3,71	4,31	2,54	4,76	5,17	2,63	5,03	5,49	6,68	7,22	7,80	7,18	7,80	8,46
FCCOP class (E)												D													
Water flow (3)	l/h	153	315	346	231	345	408	276	488	538	408	644	749	442	827	898	457	875	955	1.162	1.256	1.357	1.248	1.356	1.472
Water pressure drop (3)(E)	kPa	1	4	5	2	5	7	2	6	8	4	9	11	2	7	8	3	9	11	12	14	16	17	20	23
Standard coil - number of rows			3			3			4			3			3			4			3			4	
Total sound power level (4)	dB(A)	28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	37	50	58	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	36	47	51	35	47	56	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3	1,20			1,20			1,60			1,60			2,50			3,30			2,50			3,30		
Power supply cable type												N07V-K													
Cross-section area of power cables (5)	mm^2		1,00			1,00			1,00			1,50			1,50			1,50			1,50			1,50	
Safety fuse F	A		1			1			1			2			2			2			2			2	
Fuses type												gG													
Power supply Phase/Frequency	Hz											1~/50													
Control systems Wired remote control												FWEC1A / FWEC2A / FWEC3A / FWECSA													
		4-pipe																							
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			1,6,7			5,6,7			5,6,7	
Rated air flow (E)	m^3/h	109	243	270	170	272	336	195	357	398	302	524	642	333	683	755	333	683	755	1.050	1.163	1.289	1.050	1.163	1.289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	24	57	82	34	69	106	34	85	106	76	143	192	76	167	192	76	167	192	235	280	332	235	280	332
Maximum current absorption	A		0,40			0,56			0,56			1,10			1,10			1,10			2,10			2,10	
Total cooling capacity (1)(E)	kW	0,92	1,70	1,86	1,26	1,88	2,24	1,57	2,67	2,93	1,89	3,13	3,64	2,22	4,20	4,60	2,44	4,76	5,20	6,15	6,66	7,21	6,91	7,49	8,12
Sensible cooling capacity (1)(E)	kW	0,61	1,20	1,31	0,88	1,33	1,57	1,07	1,84	2,01	1,41	2,35	2,78	1,60	3,07	3,36	1,70	3,31	3,62	4,51	4,88	5,29	4,83	5,23	5,67
FCEER class (E)						D						E						D							
Water flow (1)	l/h	160	302	333	221	335	404	274	473	522	339	562	656	394	749	822	432	846	925	1.095	1.191	1.295	1.225	1.333	1.448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26
Heating capacity (3)(E)	kW	1,14	1,93	2,06	1,55	2,07	2,32	2,09	3,09	3,29	2,80	3,82	4,24	3,40	5,17	5,45	3,40	5,17	5,45	6,42	6,73	7,06	6,42	6,73	7,06
FCCOP class (E)			C			D			C			D						D							
Water flow (3)	l/h	100	169	180	136	181	204	183	271	288	245	334	371	297	452	477	297	452	477	562	590	618	562	590	618
Water pressure drop (3)(E)	kPa	1	2	3	2	3	3	2	3	4	3	5	6	6	13	14	6	13	14	19	21	22	19	21	22
Total sound power level		28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Additional coil - number of rows (4)	dB(A)											1													
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	37	48	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3	0,47			0,47			0,59			0,59			0,97			0,97			0,97			0,97		

(1) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2015; (2) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity); (3) Water temperature 65°C / 55°C, air temperature 20°C; (4) Sound power measured according to standards ISO 3741 and ISO 3742; 5) Sound pressure measured at a distance of 4 m in a free field with a directivity factor of 1; (E) EUROVENT certified data.

Accessories for FWB-CT/CF

Options	FWB-CT/CF	04	05	06	08	10	11	15	17
	Electric heater	EH060V3A		EH100V36A		EH200V36A			
	3-ways 230V ON/OFF valve kit (2-pipe)	E4V2N05OV3WA		E4V2N08OV3WA		E2MV10A6			
	3-ways 230V ON/OFF valve kit (4-pipe)	E4V2N05OV3WA + E4VHN08OV3WA		E4V2N08OV3WA + E4VHN08OV3WA		E2MV10A6 + E4VHN17OV3WA			
	2-ways 230V ON/OFF valve kit (2-pipe)	E2MV2B07A6				E2MV2B10A6			
	2-ways 230V ON/OFF valve kit (4-pipe)	E2MV2B07A6 + E2MV2B07A6				E2MV2B10A6 + E2MV2B07A6			
	3-ways 24V ON/OFF valve kit (2-pipe)	E4V2N05O24WA		E4V2N08O24WA		E4V2N17O24WA			
	2-ways 24V ON/OFF valve kit (2-pipe)	E2M2V207A6				E2M2V210A6			
	2-ways 24V ON/OFF valve kit (additional heat exchanger)	E2M2V207A6				E2M2V210A6			
	3-ways proportional valve kit (2-pipe)	E4V2N05P24WA		E4V2N08P24WA		E2MPV10A6			
	3-ways proportional valve kit (additional heat exchanger)	E4V2N05P24WA + E4VHN08P24WA		E4V2N08P24WA + E4VHN08P24WA		E2MPV10A6+ E4VHN17P24WA			
	2-ways proportional valve kit (cooling heat exchanger)	E2MPV207A6				E2MPV210A6			
	2-ways proportional valve kit (additional heat exchanger)	E2MPV207A6							
	Pressure independent controlled valves (2-pipe)	FWBPVPIC2V15			FWBPVPIC2V20		FWBPVPIC2V25		
	Pressure independent controlled valves (4-pipe)	FWBPVPIC2V1515LF		FWBPVPIC2V1515	FWBPVPIC2V2015		FWBPVPIC2V2515		
	Plenum box (not insulated) with circular connection (supply side)	PLT1NAA		PLT2NAA		PLT3NAA			
	Plenum box (insulated) with circular connection (supply side)	PLT1CAA		PLT2CAA		PLT3CAA			
	Front air intake kit	EDFAI04A		EDFAI06A		EDFAI10A			
	G4 Filter	FG4T1AA		FG4T2AA		FG4T3AA			
	Aux, Drain tray	EDPD7				EDPD9			
	Electronic Controller - standard version It can operate with 3 speeds of fan only, if it also manages 2 valves on 4-pipes unit; on/off control valve; heating/cooling function; digital input for external release or window contact	FWEC1A							
	Electronic Controller - advanced version 3 or 4 stages speed controller; on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol)	FWEC2A							
	Electronic Controller - advanced plus version 3 or 4 stages speed controller (or stepless for EC motor); on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol); timer with weekly program and illuminated LCD	FWEC3A							
	Wired Controller FWEC2T: Electronic controller suitable for models with single HX (2-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	FWEC2T							
	Wired Controller FWEC4T: Electronic controller suitable for models with doubly HX (4-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.	FWEC4T							
	Wired Controller FWEC10: Electronic controller suitable for models with doubly HX (2/4-pipes), it can control 3 or 4 speeds fan(stepless for EC motor), ON/OFF type valve control, SUMMER/WINTER manual switch or automatic (on the basis of the air temperature), ventilation consent on the basis of the water temperature.	FWEC10							
	Split controller - power control board	FWEDA							
	Split controller - touch screen control panel	SHINKATOUCHWA (white)/SHINKATOUCHBA (black)							
		SHINKAZONEWA (white)/SHINKAZONEBA (black)							
		SHINKASENSEWA (white)							
	Fan stop thermostat	YFSTA6							
	Drain Pump	CDRP1A							
	Cover box for electric connections	FWBOX							
	**Wall mounting kit (spacing collar)** for FWEC1A /2A and 3A	FWFCKA							
	Temperature sensor kit for FWEC1A /2A and 3A; with 1,5 meters of cable	FWTSKA							
	Relative humidity sensor kit for FWEC2A and FWEC3A; with 1,5 meters of cable	FWHSKA							
	Water temperature sensor for simplified controller	FWCSWA							
	Master/Slave interface for connection of max. 4 devices to a remote control; max. 3,2 Amp. operating current per device connection	EPIMSA6							

FWN-AT/AF

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

FWN-AT/AF

FWEC10

FWEC3A

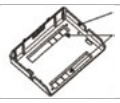
FWEDA

SHINKA TOUCH/SHINKA SENSE/SHINKA ZONE

FWN-AT

FWN-AF

Indoor unit			FWN-AT/AF	04	05	06	07	08	10	12	16	18	04	05	06	07	08	10	12	16	18
				2-pipe									4-pipe								
Cooling capacity (standard conditions)	Total capacity	High	kW	3,80	4,65	6,01	6,65	7,57	8,49	12,2	16,8	18,6	3,76	4,61	5,91	6,55	7,46	8,35	12,1	16,6	18,6
		Medium	kW	3,47	4,20	5,65	6,25	6,84	7,62	10,4	14,6	16,2	3,44	4,17	5,58	6,17	6,75	7,52	10,3	15,5	16
		Low	kW	2,83	3,38	5,22	5,78	6,20	6,84	8,64	12,3	13,6	2,82	3,36	5,17	5,71	6,14	6,77	8,56	12,2	13,6
	Sensible capacity	High	kW	2,98	3,56	4,47	5,04	6,29	6,83	9,66	13	14,3	2,95	3,53	4,39	4,97	6,19	6,83	9,5	13	14,3
		Medium	kW	2,70	3,19	4,20	4,73	5,60	6,07	8,07	11,2	12,2	2,68	3,17	4,15	4,66	5,52	6,07	7,98	11,1	12
		Low	kW	2,19	2,54	3,90	4,35	5,01	5,40	6,58	9,29	10,1	2,18	2,52	3,84	4,30	4,96	5,4	6,51	9,23	9,99
	Latent capacity	High	kW	0,82	1,09	1,54	1,61	1,28	1,66	2,54	3,8	4,3	0,81	1,08	1,52	1,58	1,27	1,52	2,6	3,6	4,3
Heating capacity (standard conditions)		High	kW	4,05	4,83	6,42	7,26	7,88	8,93	12,7	17,3	19,1	3,91	3,89	5,72	5,65	7,99	7,94	14,4	19,3	19,2
		Medium	kW	3,69	4,36	6,03	6,80	7,11	8,04	10,8	15	16,4	3,68	3,66	5,51	5,45	7,47	7,44	12,6	17,2	17
		Low	kW	3,04	3,55	5,59	6,29	6,47	7,28	9,06	12,7	13,7	3,23		5,25	5,21	7,02	6,99	10,9	14,9	14,8
Power input	High		kW	0,112		0,152		0,248		0,305	0,445		0,112		0,152		0,248		0,317	0,452	0,441
	Medium		kW	0,07		0,13		0,17		0,22	0,3		0,73		0,13		0,17		0,22	0,35	0,345
	Low		kW	0,04		0,10		0,12		0,14	0,19		0,45	0,40	0,10		0,12		0,144	0,223	0,221
FCEER				C	B	C					B	C	C	B	C				C		
FCCOP				B	A	B		C	B	C	B		C						B	C	
Dimensions	Unit	HeightxWidthxDepth	mm	559x754x280		559x964x280		559x1.170x280		718x1.174x353	718x1.384x353		559x754x280		559x964x280		559x1.170x280		718x1174x353	718x1384x353	
Weight	Unit		kg	32,5	33,3	40,6	41,7	47,3	48,7	65,3	77	79,5	34,7	35,5	43,2	44,4	50,3	51,7	71	83	86
Heat exchanger	Water volume		l	1		2			3	2,99	4,51	5,52	1		2			3		3	5
Additional heat exchanger	Water volume		l			-							1					1,17	1,78	2,39	
Air filter	Type			Acrylic - Filtering class EU2																	
Fan	Type			Centrifugal																	
	Quantity			1		2							1		2						
	Air flow rate	High	m^3/h	802	791	1.238	1.203	1.606	1.581	2.376	3.207	3.174	793	783	1.211	1.182	1.576	1.550	2.332	3.187	3.154
		Medium	m^3/h	700	692	1.134	1.107	1.384	1.371	1.898	2.641	2.604	694	686	1.115	1.088	1.362	1.349	1.871	2.626	2.590
		Low	m^3/h	534	532	1.019	1.000	1.207	1.198	1.483	2.092	2.074	531	529	1.005	985	1.192	1.184	1.468	2.083	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		63		67			73	
	Low		dBA	54		59	61	62		60	69		54		59	61	62		60	69	
Sound pressure level	High		dBA	61		64		67	64	67	69		61		64		67	64	67	69	
	Medium		dBA	56		58		62	58	60	66	65	56		58		62	58	60	66	65
	Low		dBA	49		54	56	57	58	60	66	65	49		54	56	57	55	53	61	
Water flow	Cooling	High	l/h	671	817	1.059	1.169	1.344	1.530	2.158	2.936	3.270	666	810	1.040	1.148	1.322	1.524	2.160	2.936	3.270
		Medium	l/h	607	732	990	1.093	1.202	1.350	183.5	2.584	2.831	602	727	978	1.079	1.187	1.350	1.805	2.542	2.786
		Low	l/h	493	587	915	1.008	1.085	1.276	1.516	2.150	2.365	491	584	904	998	1.075	1.207	1.475	2.150	2.389
	Heating	High	l/h	705	840	1.114	1.259	1.369	1.579	2.206	2.988	3.315	342	340	501	496	700	708	1.278	1.688	
		Medium	l/h	641	758	1.048	1.183	1.236	1.411	1.892	2.640	2.861	322	320	483	477	654	660	1.104	1.500	1.480
		Low	l/h	529	617	972	1.094	1.124	1.264	1.581	2.211	2.388	283		460	456	614	619	940	1.309	
Electric heater	Power input		kW	2,0		6,0		9,0			12		2,0		6,0		9,0			12	
Piping connections	Drain	OD	mm	17																	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																	

Options		FWN-AT/AF	04	05	06	07	08	10	12	16	18
	Electric heater low capacity		**EDEH04A6**		**EDEHS06B6**		**EDEHS10B6**		EDEHS12B6	**EDEHS18B6**	
	Capacity	kW	2,0		3,0		4,5		4,5	9,0	
	Electric heater high capacity		**EDEH04A6**		**EDEHB06A6**		**EDEHB10A6**		EDEHB12A6	**EDEHB18A6**	
	Capacity	kW	2,0		6,0		9,0		9,0	12,0	
	2-pipe 3-way valve Actuator 230V included		**ED2MV04A6**		**ED2MV10A6**				**ED2MV18A6**		
	4-pipe 3-way valve Actuator 230V included		**ED4MV04A6**		**ED4MV10A6**				**ED2MV18A6 x2**		
	2-pipe 2-way valve Actuator 230V included		**ED2MV2B04A6**		**ED2MV2B10A6**				**ED2MV2B18A6**		
	4-pipe 2-way valve Actuator 230V included		**ED4MV2B04A6**		**ED4MV2B10A6**				**ED2MV2B18A6 x 2**		
	Pressure independent controlled valves ON-OFF 230V (2-pipe)		**FWDNPIC2V20**				**FWDNVPIC2V25**		**FWDNVPIC2V32**		
	Pressure independent controlled valves ON-OFF 230V (4-pipe)		**FWDNVPIC2V2015**				**FWDNVPIC2V2520**		FWDNVPIC2V3220	**FWDNVPIC2V3225**	
	G4 Filter		**FSDG404A**		**FSDG406A**		**FSDG408A**		FSDG412A	**FSDG416A**	
	Plenum box with rectangular connections		**PRD04A6**		**PRD06A6**		**PRD08A6**		**PRD12A6**	**PRD16A6**	
	Plenum box with circular connections		**PCIC04A6**		**PCIC06A6**		**PCIC08A6**		**PCIC12A6**	**PCIC16A6**	
	Fresh air intake Servomotor 24V ~ Incl. Positioner 0 ... 100%		**EDMFA04A6**		**EDMFA06A6**		**EDMFA10A6**		EDMFA12A6	**EDMFA18A6**	
	Master/Slave interface for connection of max. 4 devices to a remote control; max. 3,2 Amp. operating current per device connection		**EPIMSA6**								
	Electronic Controller - advanced plus version 3 or 4 stages speed controller (or stepless for EC motor); on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol); timer with weekly program and illuminated LCD		**FWEC3A**								
	Wired Controller FWEC10: Electronic controller suitable for models with doubly HX (2/4-pipes), it can control 3 or 4 speeds fan(stepless for EC motor), ON/OFF type valve control, SUMMER/ WINTER manual switch or automatic (on the basis of the air temperature), ventilation consent on the basis of the water temperature.		**FWEC10**								
	Split controller - power control board		**FWEDA**								
	Split controller - touch screen control panel		**SHINKATOUCHWA (white)/SHINKATOUCHBA (black)**								
			SHINKAZONEWA (white)/SHINKAZONEBA (black)								
			SHINKASENSEWA (white)								
	**Wall mounting kit (spacing collar)** for FWEC1A /2A and 3A		**FWFCKA**								
	Temperature sensor kit for FWEC1A /2A and 3A; with 1,5 meters of cable		**FWTSKA**								
	Relative humidity sensor kit for FWEC2A and FWEC3A; with 1,5 meters of cable		**FWHSKA**								
	Water temperature sensor for simplified controller		**FWCSWA**								
	Vertical Auxiliary drain pan		**EDDPV10A6**								
	Horizontall Auxiliary drain pan		**EDDPH10A6**								
	Drain pump		**CDRP1A**								

FWD-AT/AF

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

FWD-AT FWD-AF

Indoor unit			FWD-AT/AF	04	06	08	10	12	16	18	04	06	08	10	12	16	18
				2-pipe							4-pipe						
Cooling capacity (standard conditions)	Total capacity	High	kW	3,65	5,71	7,33	8,25	11,86	15,92	17,74	3,62	5,60	7,20	8,10	11,66	15,84	17,66
		Medium	kW	3,36	5,39	6,63	7,41	10,12	13,83	15,36	3,33	5,32	6,54	7,31	10,00	13,77	15,29
		Low	kW	2,74	4,99	6,03	6,68	8,42	11,63	12,92	2,73	4,92	5,97	6,61	8,33	11,59	12,87
	Sensible capacity	High	kW	2,83	4,16	6,04	6,58	9,22	12,21	13,49	2,80	4,08	5,94	6,46	9,06	12,14	13,41
		Medium	kW	2,59	3,94	5,39	5,86	7,75	10,43	11,40	2,57	3,89	5,31	5,77	7,66	10,38	11,34
		Low	kW	2,10	3,66	4,84	5,23	6,35	8,61	9,37	2,09	3,60	4,79	5,17	6,29	8,58	9,34
	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	
	Medium		kW	0,19	0,39	0,38		0,54	1,09		0,19	0,39	0,38		0,54	1,09	
	Low		kW	0,14	0,35	0,29		0,37	0,87		0,14	0,35	0,29		0,37	0,87	
FCEER				E											D	E	
FCCOP				D	E						D	E	D			E	
Dimensions	Unit	HeightxWidthxDepth	mm	559x754x 280	559x964x 280	559x1.170x280		718x1.170x 353	718x1.380x353		559x754x 280	559x964x 280	559x1.170x280		718x1.170x 353	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	m^3/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	m^3/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	m^3/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	
	Low		dBA	54	59	62		60	69		54	61	62		60	69	
Sound pressure level	High		dBA	61	64	67		69	73		61	64	67		69	73	
	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			12,0	
Piping connections	Drain	OD	mm	17													
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230													

Options		FWD-AT/AF	04	06	08	10	12	16	18
	Electric heater low capacity		**EDEH04A6**	**EDEHS06A6**	**EDEHS10A6**		**EDEHS12A6**	**EDEHS18A6**	
		kW	2,0	3,0	4,5		4,5	9,0	
	Electric heater high capacity		**EDEH04A6**	**EDEHB06A6**	**EDEHB10A6**		**EDEHB12A6**	**EDEHB18A6**	
		kW	2,0	6,0	9,0		9,0	12,0	
	2-pipe 3-way valve Actuator 230V included		**ED2MV04A6**	**ED2MV10A6**			**ED2MV12A6**	**ED2MV18A6**	
	4-pipe 3-way valve Actuator 230V included		**ED4MV04A6**	**ED4MV10A6**			**2 x ED2MV12A6**	**2 x ED2MV18A6**	
	Pressure independent controlled valves ON-OFF 230V(2-Pipe)		**FWDNVPIC2V20**		**FWDNVPIC2V25**		**FWDNVPIC2V25**		
	Pressure independent controlled valves ON-OFF 230V(4-Pipe)		**FWDNVPIC2V2015**		**FWDNVPIC2V2520**		**FWDNVPIC2V3220**	**FWDNVPIC2V3225**	
	Vertical drainpan		**EDDPV10A6**				**EDDPV18A6**		
	Horizontal drainpan		**EDDPH10A6**				**EDDPH18A6**		
	Fan stop thermostat		**YFSTA6**						
	Fresh air intake Servomotor 24V ~ Incl. Positioner 0 ... 100%		**EDMFA04A6**	**EDMFA06A6**	**EDMFA10A6**		**EDMFA12A6**	**EDMFA18A6**	
	G4 Filter		**FSDG404A**	**FSDG406A**	**FSDG408A**		**FSDG412A**	**FSDG416A**	
	Plenum box with rectangular connection		**PRD04A6**	**PRD06A6**	**PRD08A6**		**PRD12A6**	**PRD16A6**	
	Plenum box with circular connection		**PCIC04A6**	**PCIC06A6**	**PCIC08A6**		**PCIC12A6**	**PCIC16A6**	
	Drain pump		**CDRP1A**						
	Wired Controller FWEC2T: Electronic controller suitable for models with single HX (2-pipes), it cancontrol 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.		**FWEC2T**						
	Wired Controller FWEC4T: Electronic controller suitable for models with doubly HX (4-pipes), it can control 3speeds fan only, ON/OFF type valve control, SUMMER/WINTER manual switch, ventilation consent on the basis of the water temperature.		**FWEC4T**						
	Electronic Controller - standard version It can operate with 3 speeds of fan only, if it also manages 2 valves on 4-pipes unit ; on/off control valve; heating/cooling function; digital input for external release or window contact		**FWEC1A**				**FWEC1A** EPIB6 requested		
	Electronic Controller - advanced version 3 or 4 stages speed controller; on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol)		**FWEC2A**				**FWEC2A** EPIB6 requested		
	Electronic Controller - advanced plus version 3 or 4 stages speed controller (or stepless for EC motor); on/off control valve; heating/cooling function; digital input for external release or window contact; master/slave function via RS485 (ModBus protocol); timer with weekly program and illuminated LCD		**FWEC3A**				**FWEC3A** EPIB6 requested		
	Split controller - power control board		**FWEDA**						
	Split controller - touch screen control panel		**SHINKATOUCHWA (white)/SHINKATOUCHBA (black)**						
			SHINKAZONEWA (white)/SHINKAZONEBA (black)						
			SHINKASENSEWA (white)						
	Wall mounting kit (spacing collar) for FWEC 1A /2A and 3A		**FWFCKA**						
	Temperature sensor kit for FWEC*A; with 1,5 meters of cable		**FWTSKA**						
	Relative humidity sensor kit for FWEC2A and FWEC3A; with 1,5 meters of cable		**FWHSKA**						
	Water temperature sensor for simplified controller		**FWCSWA**						
	Master/Slave interface for connection of max. 4 devices to a remote control; max. 3,2 Amp. operating current per device connection		**EPIMSA6**						
	Power interface for using electronic remote controller FWEC(1,2,3)A + new split controller FWECSA		–				**EPIB6**		

Notes: For FWD size 12, 16 or 18 EPIB6 needs to be used for each FWD unit to connect to FWEC*A controllers, If FWD size 12, 16 or 18 are used in Master/Slave application by using EPIMSA6 still EPIB6 needs to be used for each FWD to connect to EPIMSA6.

Why choose a fan coil wall mounted?

Fan coil wall mounted units combine space-saving design with effective climate control capabilities suitable for both small rooms and larger areas alike. Easy to install at various heights on walls according to user preference; these systems ensure optimal air distribution throughout the room while offering energy-efficient operation tailored towards reducing running costs.

FWT-GT

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-GT

MERCA

WRC-HPC

FWT-GT

Indoor unit			FWT-GT	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	D
FCCOP				C				
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	m^3/h	442	476	629	866	1.053
		Medium	m^3/h	391	425	544	765	883
		Low	m^3/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

Accessories for FWT-G

Accessories FWT-G	02	03	04	05	06
Standard wired remote control	**MERCA**				
Wireless control	**WRC-HPC**				

FWT-HTV

BLDC fan motor unit for wall mounting

- Modern white panel design
- DC fan-motor
- 5 different sizes from 2,4 kW to 5,3 kW
- 230V ON-OFF internal 3-way valve available as factory mounted
- 2-way valve available as supplied loose accessory
- Double filtration stage (Gin-Ion filter + PM2,5 filter)
- Daikin Flash Streamer technology integrated
- Modbus gateway available as accessory for BMS integration

Flash Streamer

FWT-HTV

BRC51D67

ARC485B2

FWT-HTV

Indoor unit				FWT-HTV	02	03	04	05	06
							2-pipe		
Cooling capacity (standard conditions)	Latent capacity	High		kW	0,66 (1)	0,63 (1)	0,88 (1)	0,98 (1)	1,09 (1)
	Total capacity	High		kW	2,43 (1)	2,70 (1)	3,49 (1)	4,54 (1)	5,28 (1)
		Medium		kW	2,32 (1)	2,55 (1)	3,19 (1)	4,07 (1)	4,54 (1)
		Low		kW	2,11 (1)	2,23 (1)	2,58 (1)	3,37 (1)	4,07 (1)
	Sensible capacity	High		kW	1,77 (1)	2,07 (1)	2,61 (1)	3,56 (1)	4,19 (1)
		Medium		kW	1,70 (1)	1,85 (1)	2,37 (1)	3,17 (1)	3,58 (1)
		Low		kW	1,52 (1)	1,61 (1)	1,88 (1)	2,64 (1)	3,19 (1)
Heating capacity (standard conditions)		High		kW	2,73 (2)	2,96 (2)	3,72 (2)	4,89 (2)	6,24 (2)
		Medium		kW	2,37 (2)	2,40 (2)	3,19 (2)	4,54 (2)	4,89 (2)
		Low		kW	1,96 (2)	2,02 (2)	2,64 (2)	4,04 (2)	4,54 (2)
Power input	High			kW	0,010	0,012	0,020	0,025	0,043
	Medium			kW	0,008	0,009	0,016	0,020	0,027
	Low			kW	0,007	0,007	0,010	0,015	0,020
FCEER					A (1)	A (1)	A (1)	A (1)	B (1)
FCCOP					A (2)	A (2)	B (2)	B (2)	B (2)
Dimensions	Unit	HeightxWidthxLength		mm	288x870x234			317x1.089X275	
	Packed unit	HeightxWidthxLength		mm	314x930x357			366x1.173x395	
Weight	Unit			kg	10,0			14,6	
	Packed unit			kg	11,8			17,1	
Casing	Colour				White				
	Material				High impact polystyrene				
Air direction control					Automatic louver (up & down)				
Air filter	Type				Gin-Ion filter + PM2,5 filter				
	Quantity				2				
Air flow rate	High			m^3/h	442 (3)	476 (3)	629 (3)	866 (3)	1.053 (3)
	Medium			m^3/h	391 (3)	416 (3)	544 (3)	765 (3)	883 (3)
	Low			m^3/h	340 (3)	357 (3)	425 (3)	663 (3)	782 (3)
Total sound power level	High			dBA	46 (4)	49 (4)	55 (4)		59 (4)
	Medium			dBA	43 (4)	44 (4)	52 (4)	51 (4)	54 (4)
	Low			dBA	39 (4)	39 (4)	45 (4)	48 (4)	51 (4)
Sound pressure level	High			dBA	34 (5)	35 (5)	42 (5)		46 (5)
	Medium			dBA	29 (5)	30 (5)	39 (5)	38 (5)	42 (5)
	Low			dBA	25 (5)	26 (5)	32 (5)	34 (5)	39 (5)
Piping connections	Water	Inlet			3/4''				
		Outlet			3/4''				
	Drain	OD		mm	16,5				
Power supply	Phase/Frequency/Voltage			Hz/V	1~/ 50 / 220-240				
Fan motor	Power input		High		0,007	0,007	0,010	0,015	0,020
			Medium		0,008	0,009	0,016	0,020	0,027
			Low		0,010	0,012	0,020	0,025	0,043
	Running current		High		0,07	0,07	0,09	0,11	0,16
			Medium		0,08	0,08	0,12	0,16	0,22
			Low		0,10	0,10	0,16	0,22	0,32
Control systems	Infrared remote control				ARC485B2				
	Wired remote control				BRC51D67				

(1) Cooling: indoor temp, 27°CDB, 19°CWB; entering water temp, 7°C, water temperature rise 5K, | (2) Heating: 2 pipe: air 20°CDB; entering water 45°C, water temperature drop 5K, | (3) Air flow at 0Pa ESP | (4) Sound power level according to ISO3741 | (5) Sound pressure measured at 1m in front of the unit and 0,8m below the vertical centre line of the unit (JIS C 9612).
For standard conditions refer to the Measuring Conditions table, at the end of this catalogue

Accessories FWT-HTV	02	03	04	05	06
Standard wired remote control	**BRC51D67**				
Wireless control	**ARC485B2**				
MODBUS PCB	**FCBAG**				

DAIKIN

Daikin air handling units

- Daikin air handling units feature a plug-and-play design and flexibility for customization.
- Can be tailored to fit the specific needs of any building or its occupants.
- Designed to be environmentally friendly and energy efficient.
- Reduces ecological impact and lowers costs by minimizing energy consumption.
- Compact size makes them suitable for a wide range of markets.

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Daikin's decision guide indoor air quality (IAQ)

Full fresh Air

Tempered air (i.e supplied at room temperature)

Heat Recovery Ventilation (HRV)

Decentralised systems

VAM-FC9 / VAM-J

Ventilation with heat recovery as standard

- 150 m^3/h up to 2.000 m^3/h
- 80% Efficiency
- SA: ePMCoarse 50%
- RA: ePMCoarse 50%

VKM-GB(M)

With DX coil for post-treated fresh air

- 400 m3/h up to 950 m^3/h
- 80% Efficiency
- SA: ePMCoarse 50%
- RA: ePMCoarse 50%

Compact L (Ceiling suspended)

High efficiency counterflow heat exchanger

- 150 up to 3.450 m^3/h
- >90% Efficiency
- SA: ePM1 50%
- RA: ePM10 75%
- Option to increase filtration

Compact T (Top)

Top connected heat recovery unit

- 200 up to 4.200 m^3/h
- DX & Water coil
- SA:ePM1 80%
- RA:ePM10 75%
- Option to increase filtration

Daikin Ventilation

Airconditioning
with % Fresh air (i.e. re-circulation)

Centralised systems

Modular P

High efficiency aluminium plate heat exchanger
- 500 m³/h up to 15.000 m³/h
- up to 92% Efficiency
- Plug and play
- SA: ePMCoarse 60%/ePM1 50%
- RA: ePMCoarse 60%
- Option to increase filtration

Modular R

Rotary heat exchanger (sorption and sensible technology)
- 500 m³/h up to 25.000 m³/h
- >80% Efficiency
- Plug and play
- SA: ePM Coarse 60%/ePM1 50%
- RA: ePMCoarse 60%
- Option to increase filtration

Professional

Professional Series
- Unit completely customizable according to customer requirements
- Modular construction
- 750 m³/h up to 144.000 m³/h
- With DX coil consider Daikin expansion valve (EXEXV) and condenser (ERQ/ERA/VRV)
- With chilled water coil consider Daikin chiller options 2kW to 2mW

Centralised systems

Rooftop UATYA

- R-32 refrigerant
- 4.500 m³/h up to 31.500 m³/h
- 25-190 kW
- SA: ePM1 85% (F9)
- Plug and play

Why Indoor Air Quality?

Indoor Air Quality (IAQ) is a measure of the air quality, as breathed by the occupants. While the average adult breathes over 15.000 litres of air per day, IAQ is often a neglected measure.

Sources of indoor air pollution:

Outdoor sources like pollen, and general air pollution can add to the problem, but some of the culprits such as pollutants from the dust or allergens can be found around the home. Even daily activities such as dust released from the cleaning or odours from cooking can influence the quality of the air we breathe. The finer the particles, the more dangerous they are to our health. Fine Particulate Matter (PM2,5) defined as particles with diameter equal to or less than 2,5 microns are so small that they remain invisible, giving us a false sense of safety. But with the right filtration system you can reduce the impact of these pollutants from the air.

Indoor air pollution is 2-5 times worse than outside air

We spend 90% of our time indoors

The average adult breathes 15.000 litres of air each day

Over 50% have a loved one with a respiratory condition

5 components for ensuring good indoor air quality

Air processing

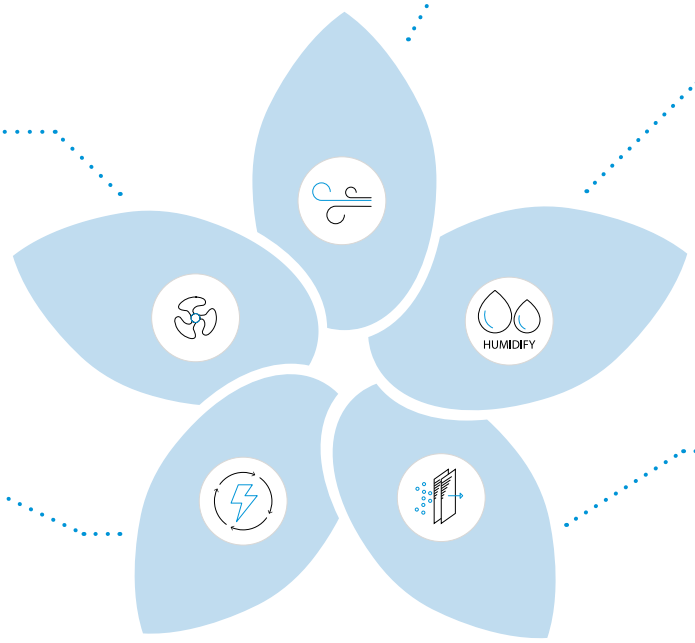
Delivers the required conditioned air to **optimise the energy efficiency** of indoor HVAC equipment

Humidification

Ensures the **desired moisture level** in the conditioned space

Ventilation

Ensures the provision of fresh and clean outdoor air and **removes contaminated stale air**



Energy & recovery

Delivers **energy savings** by transferring heat and moisture between airflows, thus helping to condition the supply air to the required indoor temperature and humidity levels

Filtration & purification

Ensures **clean and healthy air** by filtering out pollen, dust, odours and other contaminants that are harmful to our health

Ventilation

Ventilation systems ensure **optimal climate conditions** by providing a **fresh, healthy and comfortable** environment for buildings of all sizes and applications. When a room is enclosed, air cannot easily enter or leave, allowing airborne pollutants to remain and accumulate within the space. This concentration could have an impact on the health of the room's occupants. **Ventilation is essential for diluting and removing these pollutants.**

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

Learn about how to improve air quality in commercial spaces

Daikin IAQ Sensor Features

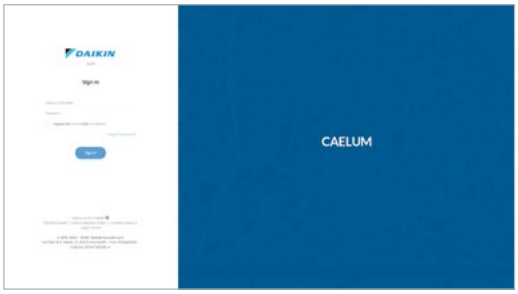
The Daikin IAQ Sensor measures your well-being by tracking indoor air quality values, environmental comfort, and electromagnetic pollution. It is available with 12 sensors and 15 parameter measures, and connects through your Wi-Fi network or via NB-IoT technology.

Complete Standalone Installation

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

Caelum Monitoring Platform

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



Configuration App

The configuration app is available as Daikin AirSense on both the App Store and Play Store. Once installed on your mobile device and logged in, scan the QR code on the IAQ sensor and **the app will guide you through the entire configuration process.**

Connectivity

The IAQ sensor ensures **perfect integration with Daikin on Site and Daikin Cloud Service, Daikin's remote monitoring and smart maintenance platform.** It gives you perfect control over the entire heating, ventilation and air conditioning system installed in your building.

Green Building Certificationn

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

Video wall

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

Communication capability

IotNB: Good penetration. Complete standalone installation. This is a perfect solution for service purposes where access to local Wi-Fi is not allowed or not available.

Wi-Fi: Easy. Complete standalone installation.

AirSense Pro + characteristics

85 x 85 x 60 mm

Ambient Light
Range: 0 lux to 120000 lux
Precision: ±10%
Resolution: 0,1 lux

Temperature
Range: -40 °C a 85 °C
Precision: ±1 °C (nel range 0/65 °C)
Resolution: 0,1 °C

Humidity
Range: 0 to 100% RH
Precision: ±3% RH
Resolution: 0,1% RH

Air Pressure hPa
Range: 300 to 1100 mbar (hPa)
Precision: ± 1 mbar (hPa)
Resolution: 0,18 mbar (hPa)

Sound Pressure
Range: 35 to 120 dBspl
Frequency: from 50 Hz to 20 KHz
Precision: ±1 dBspl
Resolution: 0,1 dBspl

Fine Dust
Concentration Measure PM10/PM2.5:0 µg/m3 to 1000 µg/m3
Precision: (from 0 µg/m3 to 100 µg/m3) : ±15 µg/m3
Precision: (from 100 µg/m3 to 1000 µg/m3) : ±15%
Resolution: 1 µg/m3

Electrosmog
LF Range: 0-400000 nT - Range: 5 Hz - 120 Hz
Precision: ±5% - Resolution: 25nT
HF Range: 0 - 10 V/m - Range: 50 MHz - 300 GHz
Precision: ±10% - Resolution: 0,1 V/m
Measurements performed on 3 axes

Air quality
Range: 0 to 500
Precision: ±10%
Resolution: 0,1

CO_2
Range: 0 to 5000 ppm
Precision: ±30 ppm (da 0 a 1000 ppm)
±3% (over 1000 ppm)
Resolution: 1 ppm

TVOC
Range: 0 ppb to 1187 ppb
Resolution: 1 ppb
Precision: ±10%

CO_2e
Range: 400 to 8192 ppm
Precision: ±10%
Resolution: 1 ppm

Wi-Fi Networks & level
(2,4GHz band)
Detects Access Point n° in band 2.4Ghz and overall signal level
(from 0 to -100 dBm)

DAIKIN
14

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/ERA

Certifications

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

The unique quality of Daikin AHU is accomplished by:

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

Gasket
- Liquid gasket technology drastically reduces unit air leakage

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

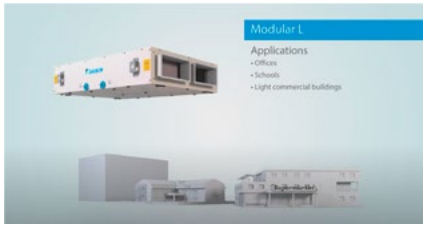
IAQ
- Flush internal surface and rounded corner flush surface to avoid the retention of dirt and to be easily cleanable
- Wide filtration possibility to reduce pollution

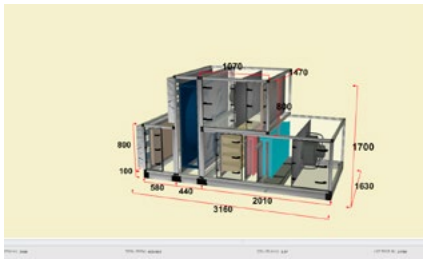
Plug & Play Controls
- Pre-commissioned and Factory-tested control for quicker on site commissioning
- Sole manufacturer to provide a complete AHU DX solution from a single manufacturer available for connection of AHU to VRV or ERQ/ERA (everything factory-mounted)

Marketing tools

- Watch the Compact L promotional video on **https://www.youtube.com/@daikincentraleurope**
- Download our brochure on air handling units from **my.daikin.eu**
- Get the access to the selection tool **http://tools.daikinapplied.eu** to select your air handling units in a few clicks.
- Download the Compact L "Daikin Air Design" App on the App stores for iOS and Android

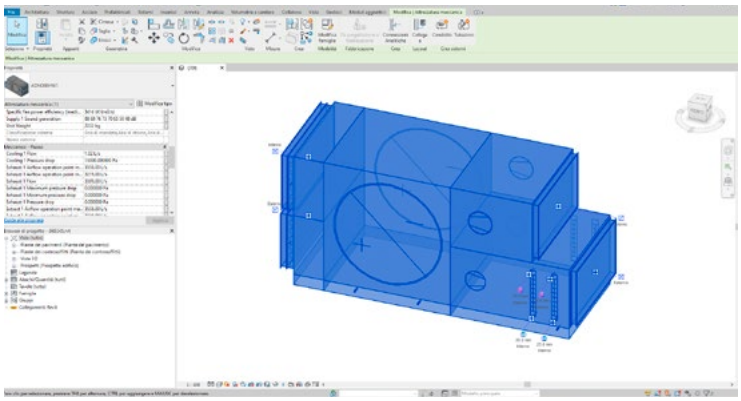
Available on the App Store | GET IT ON Google Play





BIM models

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



Watch the video about how our AHUs are being produced

Benefits for the installer

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

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

Benefits for the consultant

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

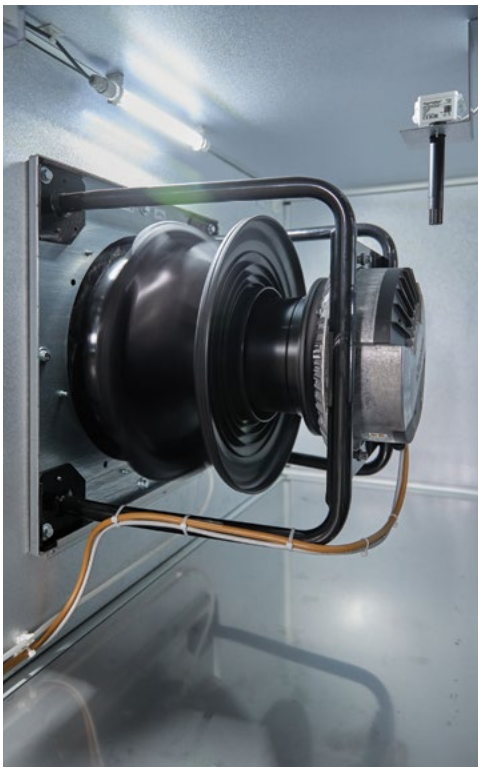
BIM models
- Regardless if your AHU is standard or fully customized, BIM models are available and can be downloaded with just a few clicks

Benefits for the end user

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

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

EC fan array and Damper Bottom connection



EC fan

Round profile with round corners

Steam Humidfier, Drain pan, Frost switch

DX coil section and DX kit factory mounted

DX kit factory installed and PCB section in details

Heat recovery wheel

Products overview

Centralized ventilation

D-AHU Professional

- Infinite variable sizes
- Tailored to the individual customer

750 m³/h
up to 144.000 m³/h

D-AHU Modular R

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

500 m³/h
up to 25.000 m³/h

D-AHU Modular P

- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- High efficiency aluminium counter flow PHE
- Compact design

500 m³/h
up to 25.000 m³/h

Eurovent certification

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

Result Energy TermiC° S2&F2		**Eurovent Classification according to EN1886**				
D1	Casing strength class	D1		D2		D3
	Max. relative deflection mm x m^{-1}	4,00		10,00		Exceeding10
L1	Casing air leakage class at -400 Pa	L1		L2		L3
	Max. leakage rate (f_{400}) l x s^{-1} x m^{-2}	0,15		0,44		1,32
L1	Casing air leakage lass at +700 Pa	L1		L2		L3
	Max. leakage rate (f_{700}) l x s^{-1} x m^{-2}	0,22		0,63		1,90
ePM_1 80% (F9)	Filter bypass leakage class	ePM_1 80% (F9)	ePM_1 70% (F8)	ePM_1 50% (F7)	$ePM_{2,5}$ 50% (M6)	ISO Coarse
	Max. filter bypass leakage rate k in % of the volume flow rate	0,50	1	2	4	6
T2	Thermal transmittance	T1	T2	T3	T4	T5
	(U) W x m^{-2} x K^{-1}	U <= 0,5	0,5 < U <= 1	1 < U <= 1,4	1,4 < U <= 2	No requirements
TB2	Thermal bridging factor	TB1	TB2	TB3	TB4	TB5
	(kb)	0,75 < K_b <= 1	0,6 < K_b <= 0,75	0,45 < K_b <= 0,6	0,3 < K_b <= 0,45	No requirements

Decentralized ventilation

Compact L

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

150 m³/h
up to 3.400 m³/h

Compact T

- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- Small footprint
- Compact design
- High efficiency aluminium counter flow PHE
- Top connected unit

200 m³/h
up to 4.200 m³/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:

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

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

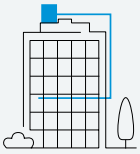
Now, you will be able to modify your unit (adding or changing components) in order to have a product that meets all your needs.

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

Centralized ventilation

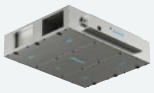
Professional

Modular R & P

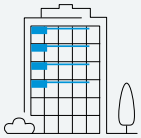


Decentralized ventilation

Compact T



Compact L



Watch the video: Selecting AHU in just 90 seconds

The working principle at a glance

Typical configurations for Daikin air handling units provide a versatile range of functions.

Our system offers numerous options for customisation through an

extensive range of variations and added functionality.

Supply side

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

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

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

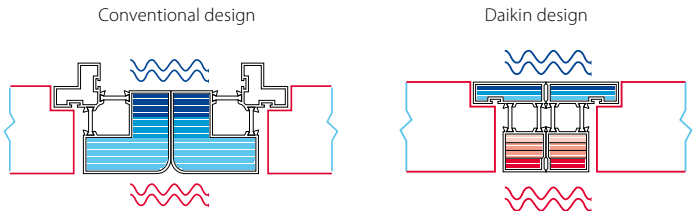
Humidifiers
- Evaporative humidifier without pump (loss water)
- Evaporative humidifier with re-circulating pump
- Steam humidifier with direct steam production
- Steam humidifier with local distributor
- Atomized water spray humidifier

Plug and Play control solution

- Air flow control
- Air temperature control
- Chilled water and DX cooling system control
- Free cooling
- CO_2 automatic control
- Air temperature control (supply, return, ambient)
- Variable Air Volume (VAV) and Constant Air Volume (CAV) systems

Unique section to section thermal break profile

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



Return air

Supply air

Return side

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

Heat recovery systems

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

Other section

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

Filters

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

Accessories

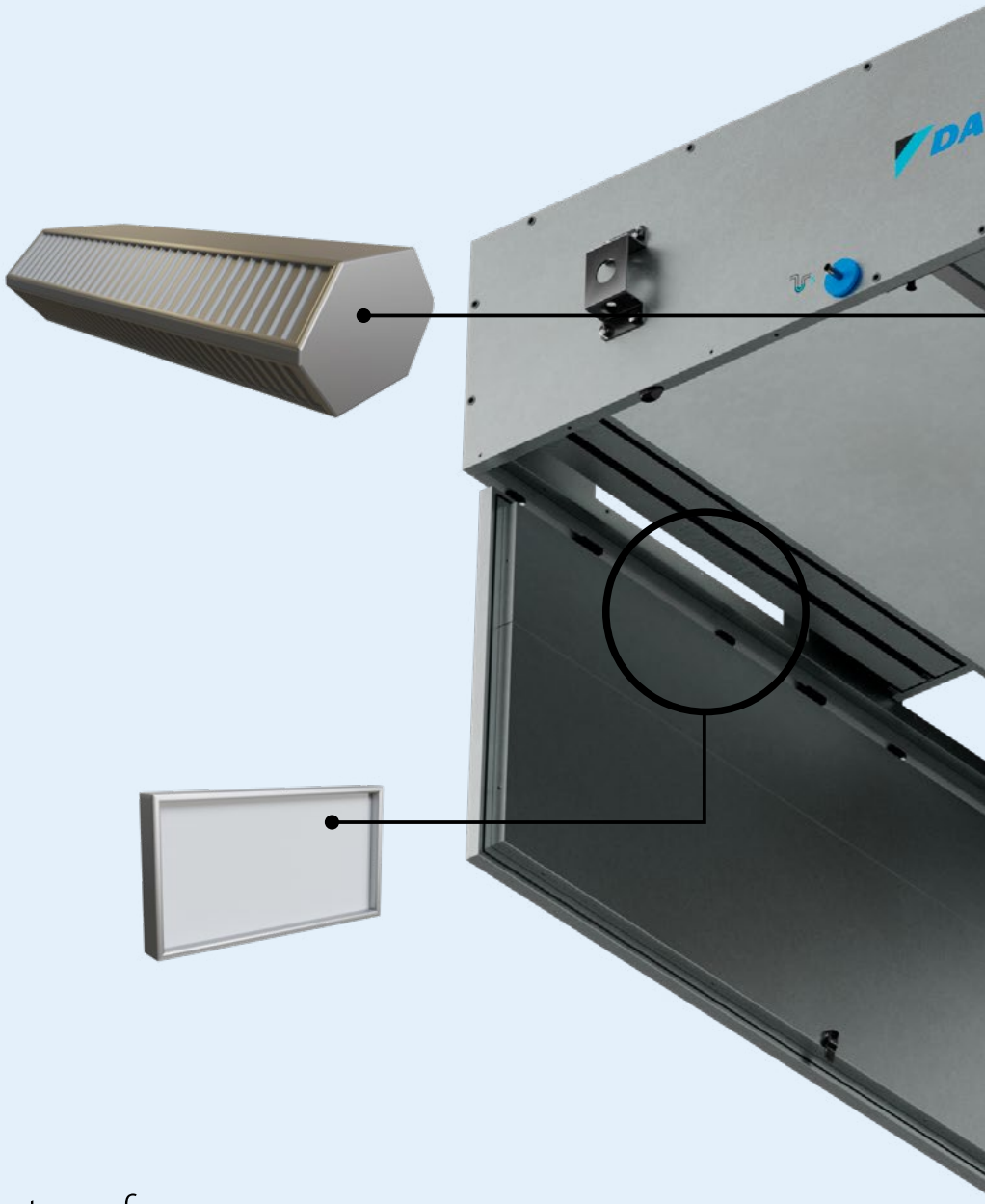
- Control features
- Frost protection
- Manometers
- Drive guard
- Roof
- …

Compact L

to meet your needs

Heat exchanger

- Premium quality counterflow plate heat exchanger
- Up to 91% of the thermal energy recovered
- VDI 6022 compliant
- High grade aluminium that allows best corrosion protection
- Completely joint sealing
- No screws or rivets in any part



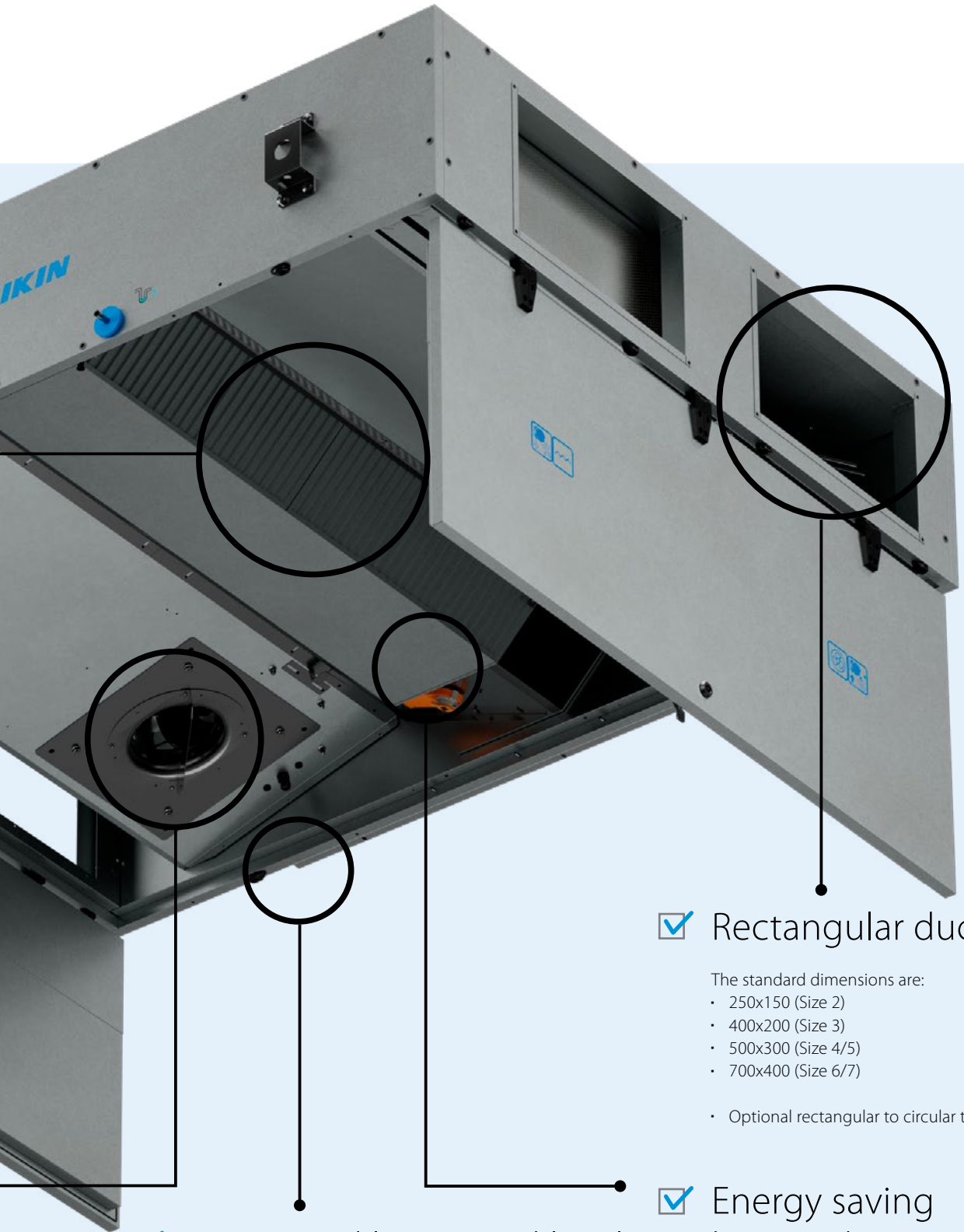
Filters (double stage)

- Up to ePM1 50% (F7) + ePM1 80% (F9) filtration efficiency
- Fresh air filters* (ePM1 50% (F7) ...)
- Return air filters* (ePM10 75% (M5) ...)
- Easy removing from bottom access
- No tools are needed to change the filters

*Optional additional filter and pre-filter stage (G4 (ISO Coarse 55%), M5 (ePM10 75%), F7 (ePM1 50%) or F9 (ePM1 80%))

Supply/Return fan

- Fan/motor combination with very low noise level
- Reduced energy consumption
- Inverter driven with IE4 motor efficiency
- Infinitely variable speed
- Ultra-efficient blade profiling
- Maintenance-free ball bearings
- No screws or rivets in any part



Rectangular duct opening

The standard dimensions are:
- 250x150 (Size 2)
- 400x200 (Size 3)
- 500x300 (Size 4/5)
- 700x400 (Size 6/7)

- Optional rectangular to circular transition

Guaranteed low sound level

- 50mm double skin panel thickness
- mineral wool insulation on all sides

Energy saving bypass damper

- 0-100% modulating by-pass fully automated
- antifreeze and free cooling operations

Easy and fast maintenance

- Hinged or fully removable bottom doors
- Accessible from bottom panels

Compact L (ALB-RC/LC)

Premium efficiency heat recovery unit

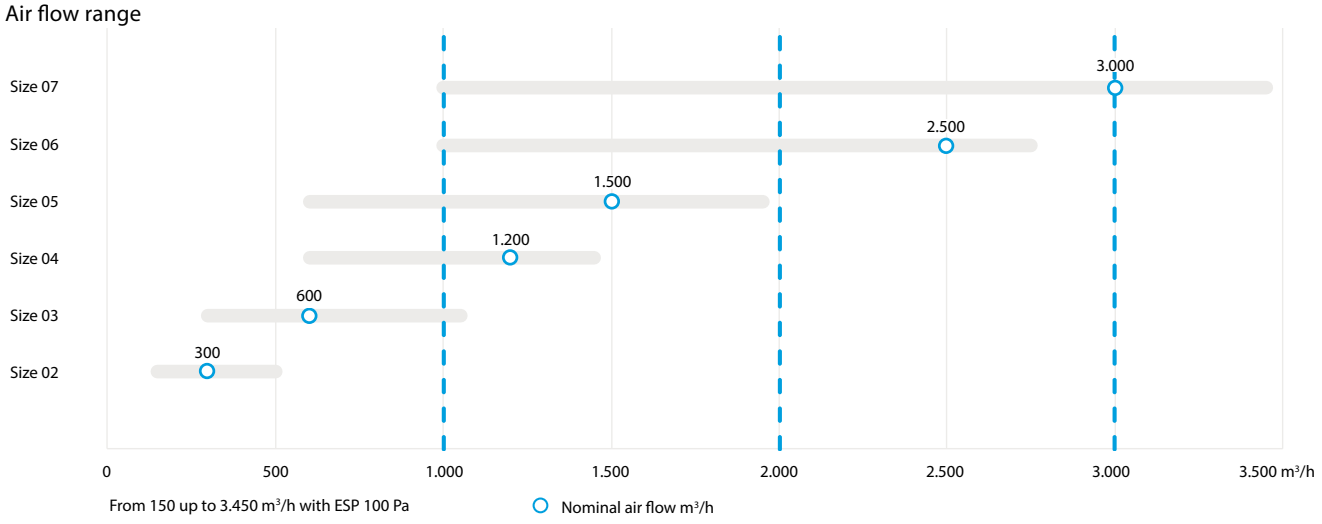
Highlights

- 6 Predefined sizes
- Compact footprint (first unit height 280mm only)
- First in the market for Indoor Air Quality (IAQ)
- Premium quality counter flow plate heat exchanger wit integrated bypass
- Up to 94% of thermal energy recovered
- Available in a left or right version
- 50mm of mineral wool insulation (M0 fire class)
- High grade aluminum allowing high grade corrosion protection
- Intelligent defrost logic to decrease energy consumption and increase comfort

Construction main benefits

- No cross contamination and low internal leakage
- Best class in corrosion resistance
- 50mm Mineral wool insulation for silent operation

Air flow range



Compact L (ALB-RC/LC)

Premium efficiency heat recovery unit

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 91% of the thermal energy recovered
- High grade aluminum allowing high grade corrosion protection

Technical details

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

Compact L

Compact L			ALB02*C*	ALB03*C*	ALB04*C*	ALB05*C*	ALB06*C*	ALB07*C*
Size (1)			02	03	04	05	06	07
Airflow		m³/h	300	600	1.200	1.600	2.500	3.000
Heat exchanger thermal efficiency (2)		%	90		91	90	91	90
External pressure static		Pa	100					
Current		A	0,61	1,39	2,26	2,87	5,17	6,26
Power input		kW	0,14	0,32	0,52	0,66	1,19	1,44
SFPv		kW/m³/s	1,27	1,55	1,32	1,38	1,49	1,54
Electrical supply	Phase	ph	1					
	Frequency	Hz	50/60					
	Voltage	V	220/240 Vac					
Main unit Dimensions	Width	mm	920	1.100	1.600		2.000	
	Height	mm	280	350	415		500	
	Length	mm	1.660	1.800	2 000			
Rectangular duct flange	Width	mm	250	400	500		700	
	Height (3)	mm	150	200	300		400	
Sound unit power level		dB(A)	54	61	62	57	64	62
Sound unit pressure level (3)		dB(A)	47	54	55	50	57	55
Weight Unit		Kg	125	180	270	280	350	360

(1) All size available in Smart or Pro version and right or left handing | (2) Winter design condition: Outdoor: -10°C, 90% Indoor: 22°C, 50% | (3) Simple source reference value at 1 meter, directivity factor Q=4 (quarter sphere) and non-reverberant field. Allowances on declared values: +/- 3dB | All data in the table refer to Compact L Pro. For Compact L Smart can be different. Please refer to Databook or Astra selection software for more details.

Notes: (1) R= right connection and L= left connection; S = Smart Solution (Daikin PCB) (2) Winter design condition: Outdoor: -10°C (-5°C for Compact Light Smart), 90% Indoor: 22°C,50%; (3) SFPv is a parameter that quantifies the fan efficiency (the lower it is the better will be). This reduces if airflow decreases.; (4) EN 3744. Surrounding, Directivity (Q) = 2, @1,5m distance. For any performances out of the nominal condition here above mentioned kindly refer to the online selection available online at tools.daikinapplied.eu

Accessories for Compact L Pro (ALB-RCM/LCM)			02	03	04	05	06	07
	Compact filter[1]	G4	ALF02G4A	ALF03G4A	ALF05G4A		ALF07G4A	
		M5	ALF02M5A	ALF03M5A	ALF05M5A		ALF07M5A	
		F7	ALF02F7A	ALF03F7A	ALF05F7A		ALF07F7A	
		F9	ALF02F9A	ALF03F9A	ALF05F9A		ALF07F9A	
	Coil module	DX coil	N/A	N/A	ALD05CDSA		ALD07CDSA	
		Electric pre -heating	ALD02HEFA	ALD03HEFA	ALD05HEFA		ALD07HEFA	
		Electric post - heating	ALD02HESA	ALD03HESA	ALD05HESA		ALD07HESA	
		Water cooling (post - heating)	ALD02CWSA	ALD03CWSA	ALD05CWSA		ALD07CWSA	
		Water heating (pre/post - heating)	ALD02HWUA	ALD03HWUA	ALD05HWUA		ALD07HWUA	
		Droplet Eliminator	ALA02DEA	ALA03DEA	ALA05DEA		ALA07DEA	
	Mechanical accessories	Silencer[2] 900 mm depth	ALS0290A	ALS0390A	ALS0590A		ALS0790A	
		Rail	ALA02RLA	ALA03RLA	ALA05RLA		ALA07RLA	
		Rectangular - Circular duct transition[1]	ALA02RCA	ALA03RCA	ALA05RCA		ALA07RCA	
		Flexible joints	ALA02FXB	ALA03FXB	ALA05FXB		ALA07FXB	
		External damper	ALA02EDA	ALA03EDA	ALA05EDA		ALA07EDA	
	Valves	2-way valve water cooling	ALV02CW2A	ALV03CW2A	ALV05CW2A		ALV07CW2A	
		3-way valve water cooling	ALV02CW3A	ALV03CW3A	ALV05CW3A		ALV07CW3A	
	Electrical Accessories	Modulating actuator	ATE00AMVA					
		Damper modulating actuator	ATE00AMDA					
		Spring return modulating actuator	AUE00ASDA					
		Frost switch	ALE00FSUA					
	Probes	CO_2	ALP00COA					
		Humidity (%RH)	ALP00HUA					
		Temperature	ALP00TEA					
		Preassure transducer	AUE00PTUA					
	Controls	Room thermostat (included in the main unit)	ALC00822A					
		Commissioning module	ALC00895A					
		Expansion module	ALC00955A					
		Module bacnet Interface	ALC00908A					
		Module modbus Interface	ALC00902A					

Notes:

(1) For each unit 2 Number of filters (return air side and Fresh air side) with any combination

(2) For each unit 4 pcs have to be ordered.

Accessories for Compact L Smart (ALB-RCS/LCS)			02	03	04	05	06	07
	Compact filter[1]	G4	ALF02G4A	ALF03G4A	ALF05G4A		ALF07G4A	
		M5	ALF02M5A	ALF03M5A	ALF05M5A		ALF07M5A	
		F7	ALF02F7A	ALF03F7A	ALF05F7A		ALF07F7A	
		F9	ALF02F9A	ALF03F9A	ALF05F9A		ALF07F9A	
	Probes	CO_2	BRYMA200					
	Coil module	Electric pre -heating	ALD02HEFB	ALD03HEFB	ALD05HEFB		ALD07HEFB	
	Mechanical accessories	Silencer[2] 900 mm depth	ALS0290A	ALS0390A	ALS0590A		ALS0790A	
		Rail	ALA02RLA	ALA03RLA	ALA05RLA		ALA07RLA	
		Rectangular - Circular duct transition[1]	ALA02RCA	ALA03RCA	ALA05RCA		ALA07RCA	
		Flexible joints	ALA02FXB	ALA03FXB	ALA05FXB		ALA07FXB	
	Control	Room Thermostat (Not included in the main unit)	BRC1H52W/S/K					
		Module modbus Interface	EKMBDXB					
		Module bacnet Interface	DMS502A51					
		LonWorks Interface	DMS504B51					
		Intelligent Touch Manager	DCM601A51					
		Intelligent Tablet Controller	DCC601A51					
		Central remote control	DCS302C51					
		Unified ON/OFF control	DCS301B51					

Notes:

(1) For each unit 2 Number of filters (return air side and Fresh air side) with any combination

(2) For each unit 4 pcs have to be ordered.

Compact T

to meet your needs

Circular Duct Flange

Filter

- ePM1 50% (F7) on supply side and ePM10 75% (M5) on return side as standard
- Second filtration stage available as option

Control

Plug and play controls for an easy and quick start-up and unit operation

Bypass Damper

- Energy efficient bypass damper
- 0-100% modulating by-pass, fully automated
- Antifreeze and free cooling operation

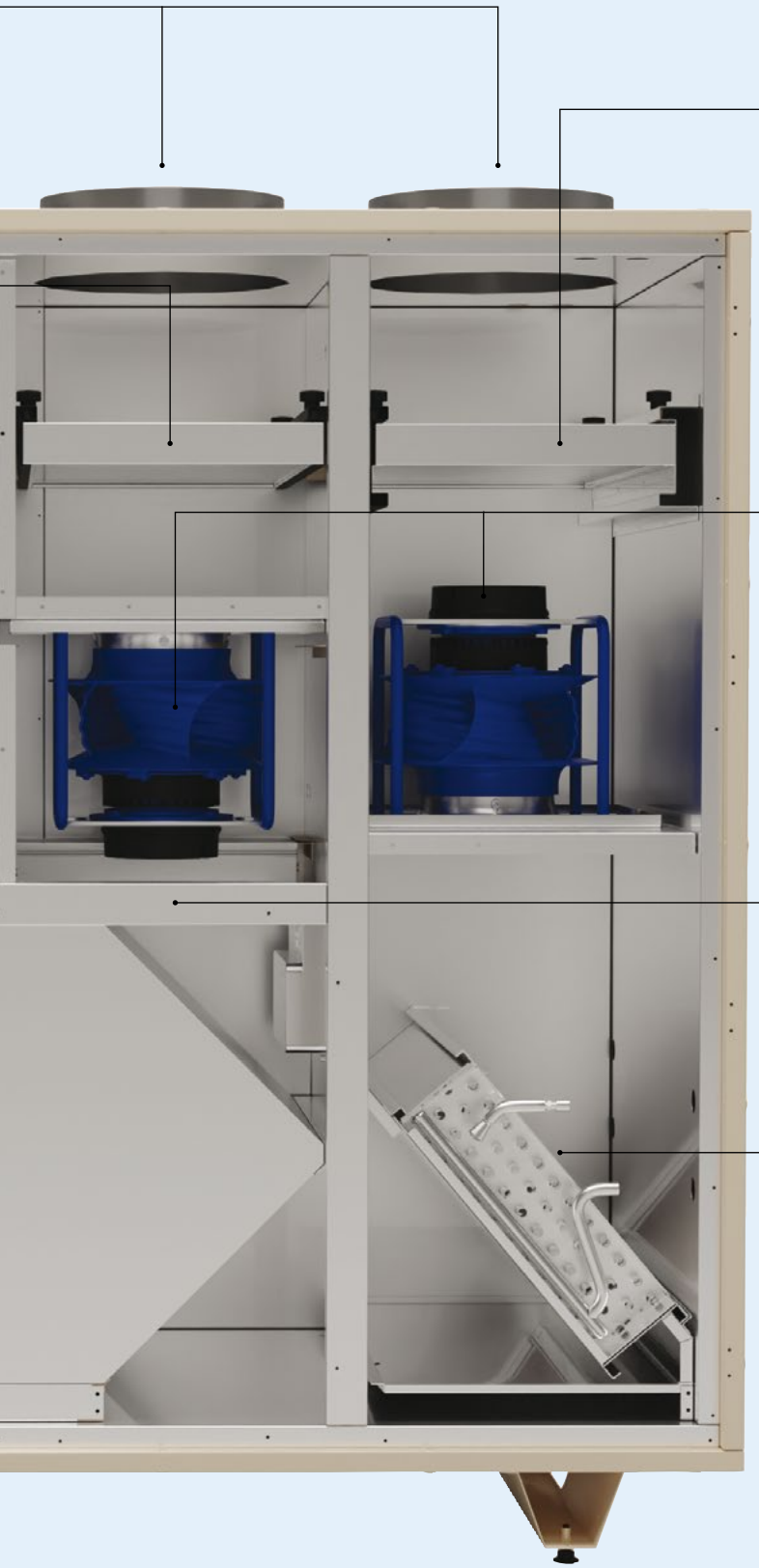
Heat Exchanger

- High-efficiency counter flow plate heat exchanger
- Up to 93% of the thermal energy is recovered

Casing & Insulation

50 mm double skin panel, mineral wool insulation for an excellent sound attenuation and thermal insulation

- Internal Panel: Aluzinc
- External Panel: Pre-painted



Filter

- Up to three filtration stage on supply air side (two available as option)
- F9 (ePM1 80%) filter available as option

Coil*

Post heating water

Fan

EC Fans, motor class IE5 for high efficiency and low power consumption

Mixing Damper*

Allows total space air conditioning, available as option

Coil*

- DX/Water coil to guarantee the thermal comfort
- Pre heating water or electric coil to avoid defrosting
- Post heating electric coil

Maintenance

- Easy maintenance: each component can be removed through few and simple actions
- Hinged and removable doors allowing full maintenance access

* Optional

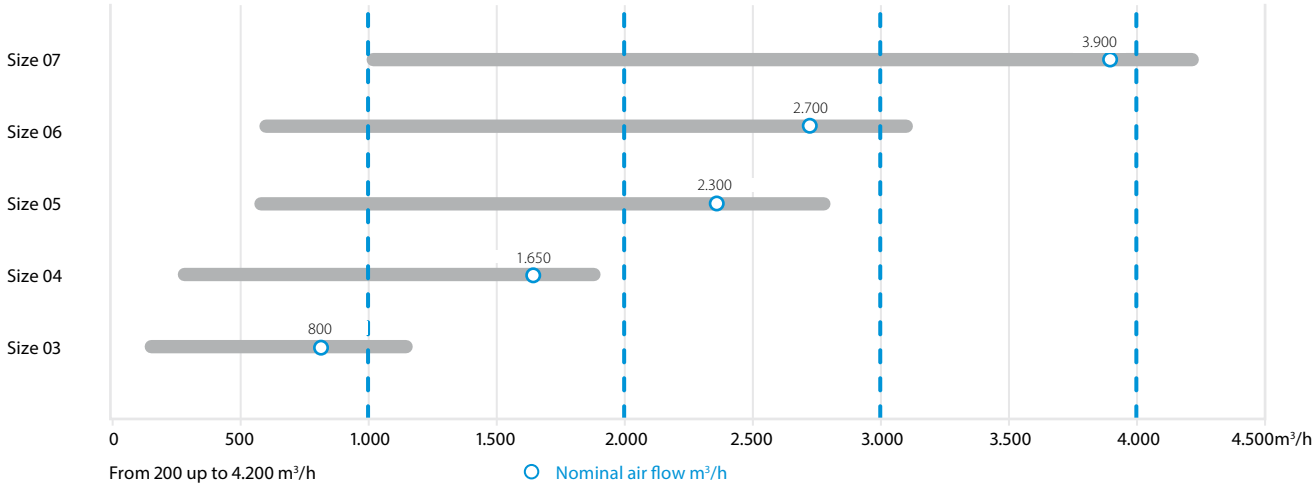
Compact T (ATB-RB/LB)

Top connected heat recovery unit

Highlights

- 5 Predefined sizes
- Plug & Play control solution
- Compact unit from 550 mm width (for unit up to 1.100 m³/h)
- Wide air flow coverage from 200 to 4.200 m³/h
- Excellent indoor air quality (IAQ). Up to three filtration stage: more than 90% PM1 in outdoor air are deleted achiving the best IAQ
- Low noise emission thanks to superior panel construction (50mm, mineral wool)
- Dx and water coil available as option
- Recirculation mixing damper (option)

Air flow range



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

Compact T

Compact T			ATB03*B*	ATB04*B*	SB.ATB05*B*	SB.ATB06*B*	SB.ATB07*B*
Size (1)			03	04	05	06	07
Airflow		m³/h	800	1.650	2.300	2.700	3.900
Heat exchanger thermal efficiency (2)		%	89,3	88,3	85,1	85,5	90,8
External static pressure		Pa	100				
Current		A	1,70	3,39	4,61	5,17	7,87
Power input		kW	0,39	0,78	1,06	1,19	1,81
SFPv (5)		kW/m³/s	1,47	1,5	1,49	1,41	1,5
Electrical supply	Phase	ph	1				
	Frequency	Hz	50/60				
	Voltage	V	220/240 Vac				
Main unit dimensions	Width	mm	550	790	790	790	890
	Heigth	mm³	1.600		1.900	1.850	2.050
	Length	mm	1.580	1.650	2.170 (4)	2.620 (5)	2.950 (5)
Circular duct flange	Diameter	mm	255	315	355	400	500
Unit sound power level		dBA	57	52	55		58
Unit sound pressure level (6)		dBA	50	45	48		51
Weight Unit		Kg	200	250	400	500	620

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

Accessories for Compact T Pro (ATB-RBM/LBM)			03	04	05	06	07
	Compact filter[1]	G4	ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A
		M5	ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A
		F7	ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A
		F9	ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A
	Coil module	DX Coil[3] - High capacity Cooling/heating	ATD03UDSAR/L	ATD04UDSAR/L	ATD05UDSAR/L	ATD06UDSAR/L	ATD07UDSAR/L
		DX coil[3] - low capacity Cooling/heating	N/A	ATD04UDSBR/L	ATD05UDSBR/L	ATD06UDSBR/L	ATD07UDSBR/L
		Electric[4] pre -heating	ATD03HEFAU	ATD04HEFAU	ATD05HEFAU	ATD06HEFAU	ATD07HEFAU
		Electric[4] post -heating	ATD03HESAU	ATD04HESAU	ATD05HESAU	ATD06HESAU	ATD07HESAU
		Water cooling[3]: ATD-WSAR/L	ATD03UWSAR/L	ATD04UWSAR/L	ATD05UWSAR/L	ATD06UWSAR/L	ATD07UWSAR/L
		Water heating (pre-heating)	ATD03HWFAU	ATD04HWFAU	ATD05HWFAU	ATD06HWFAU	ATD07HWFAU
		Water heating (post - heating): ATD-HWAR/L	ATD03HWSAR/L	ATD04HWSAR/L	ATD05HWSAR/L	ATD06HWSAR/L	ATD07HWSAR/L
	Valves	2-way valve water cooling	ATV03CW2A	ATV04CW2A	ATV05CW2A	ATV06CW2A	ATV07CW2A
		3-way valve water cooling	ATV03CW3A	ATV04CW3A	ATV05CW3A	ATV06CW3A	ATV07CW3A
	Mechanical accessories	Silencers[2]	ATS0360A	ATS0460A	ATS0560A	ATS0660A	ATS0760A
		Mixing Damper	N/A	N/A	ATA05MDA	ATA06MDA	ATA07MDA
		External Damper	ATA03EDA	ATA04EDA	ATA05EDA	ATA06EDA	ATA07EDA
	Electrical Accessories	Valve modulating actuator			ATE00AMVA		
		Spring return modulating actuator			AUE00ASDA		
		Damper modulating actuator			ATE00AMDA		
		Frost Switch			ATE00FSUA		
		Digital PCB for external accessories			ATE00DPUA		
	Probes	CO_2			ALP00COA		
		Humidity (%RH)			ALP00HUA		
		Temperature			ALP00TEA		
	Controls	Room thermostat (included in the main unit)			ALC00822A		
		Commissioning module			ALC00895A		
		Module bacnet Interface			ALC00908A		
		Module modbus Interface			ALC00902A		

Notes:
(1) For each unit 2 Number of filters (return air side and Fresh air side) with any combination.
(2) For each unit 4 pcs have to be ordered.
(3) For Compact T pro only, sixth digit on main unit material name has to be aligned with last digit of the coil material name (with the exception of the electric heater and water pre heating coil) example: for units ATB0*RBM --> DX coil should be ATB0*UDSAR & similarly for ATB0*LBM --> ATB0*UDSAL.
(4) For Compact T pro only, both electric heater can be used as pre and post heater.

Accessories for Compact T Smart (ATB-RBS/LBS)			03	04	05	06	07
	Compact filter[1]	G4	ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A
		M5	ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A
		F7	ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A
		F9	ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A
	Coil module	Electric pre -heating	ATD03HEFBU	ATD04HEFBU	ATD05HEFBU	ATD06HEFBU	ATD07HEFBU
	Mechanical accessories	Silencer[2]	ATS0360A	ATS0460A	ATS0560A	ATS0660A	ATS0760A
	Control	Return CO_2 Duct mounted	BRYMA200				
		Room Thermostat (Not included in the main unit)	BRC1H52W/S/K				
		Modbus RTU module	EKMBDXB				
		Bacnet IP module	DMS502A51				
		LonWorks Interface	DMS504B51				
		Intelligent Touch Manager	DCM601A51				
		Intelligent Tablet Controller	DCC601A51				
		Central remote control	DCS302C51				
		Unified ON/OFF control	DCS301B51				

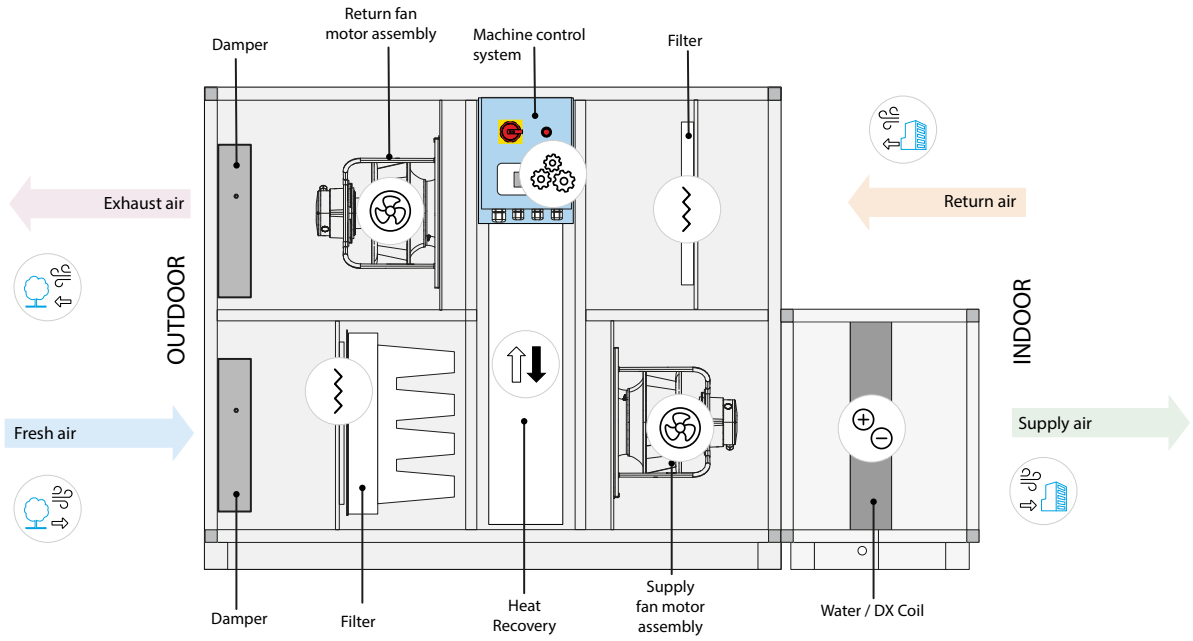
Notes:

(1) For each unit 2 Number of filters (return air side and Fresh air side) with any combination

(2) For each unit 4 pcs have to be ordered.

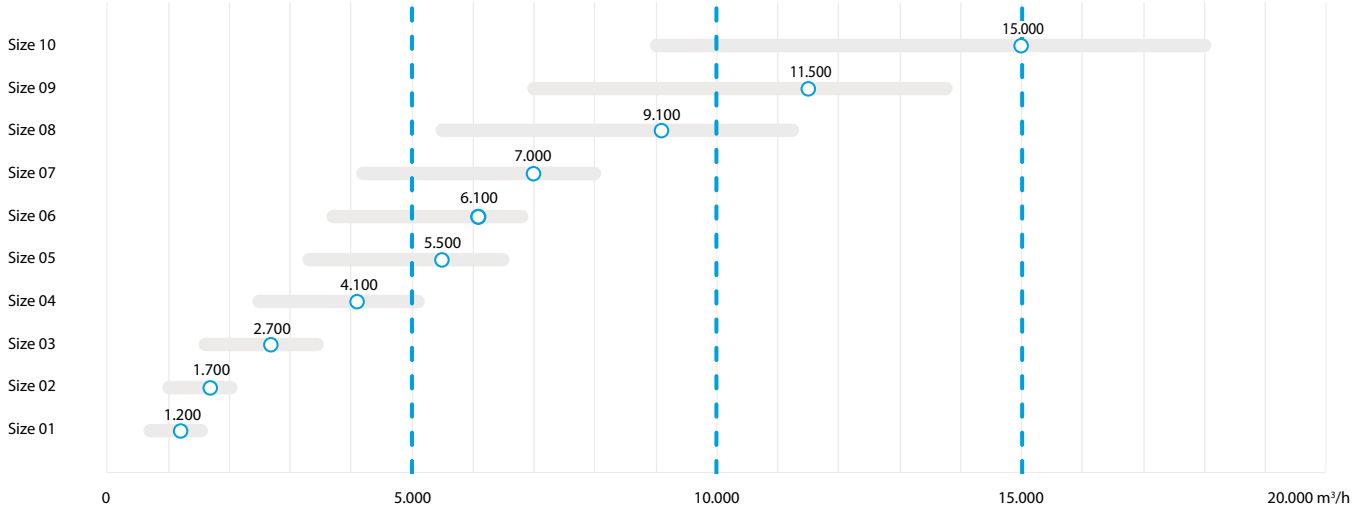
Modular R – High flexibility to match your requirements

With their Plug & Play design and inherent flexibility, Daikin air handling units can be configured and combined to meet the exact requirements of any building, no matter what it is used for or who is to work there.
Daikin systems are designed to be the most environmentally friendly and the most energy efficient. This means they have a reduced ecological impact, while, at the same time, keeping costs down by minimising energy consumption. When combined with the small physical footprint of the system, these features make Daikin air handling units ideal for all markets.



External air right
External air left
Damper
Heat exchange coil
Exhaust air right
Exhaust air left
Drop separator
Control
Air supply right
Air supply left
Fans
Heat Exchanger

Air flow range



From 700 up to 18.000 m³/h with ESP 200 Pa

Nominal air flow m³/h

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 and ERQ/ERA coupling capability
- Indoor and outdoor versions
- Free cooling capability
- Economy and Night mode operation
- Monitoring and control through Daikin ITM

Construction main benefits

- Eurovent certified performances
- No cross contamination and low internal leakage
- Best class in corrosion resistance
- Polyurethane foam or Mineral wool selectable as insulation materials

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.

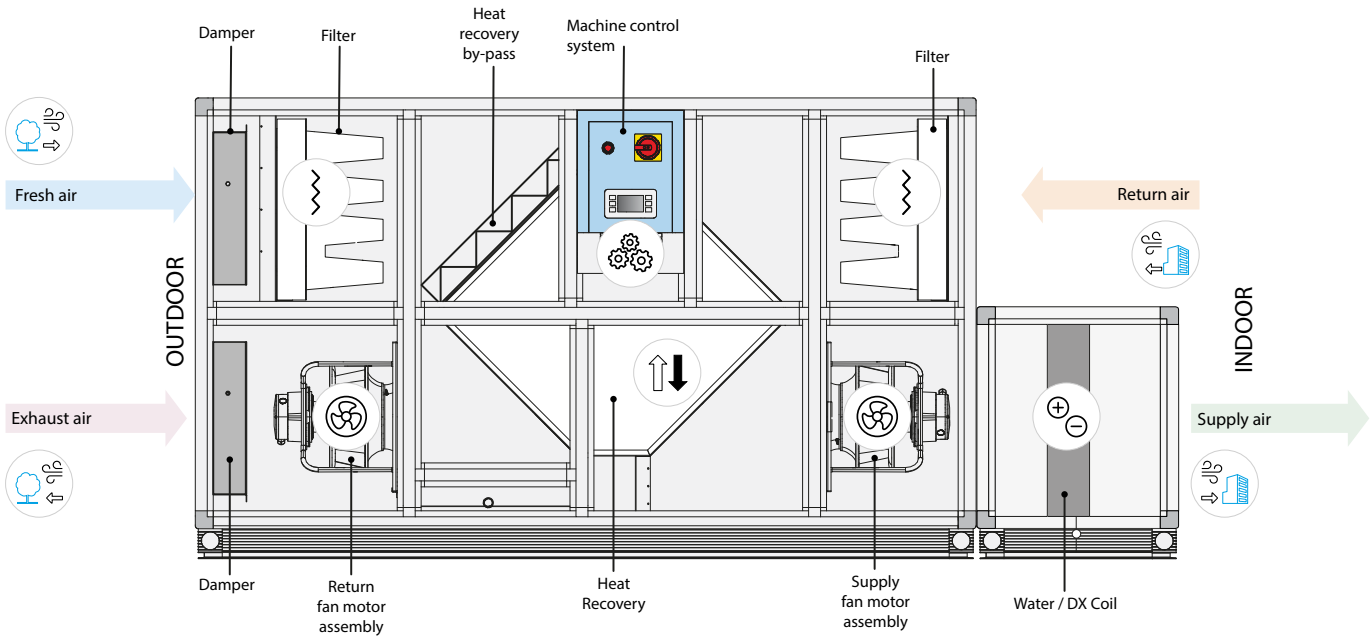
More details and final information can be found by scanning or clicking the QR codes. Modular R

Modular R			1	2	3	4	5	6	7	8	9	10
Airflow		m³/h	1.200	1.700	2.700	4.100	5.500	6.100	7.000	9.100	11.500	15.000
Temp. efficiency winter		%	76,9	76,7	77	77,2	78,5	77	78,4	78,7	77,9	78,2
External static pressure	Nom.	Pa	200									
Current (1)	Nom.	A	2,6	3,65	2,24	3,27	4,23	5,14	5,79	6,92	9,39	12,56
Power input (1)	Nom.	kW	0,6	0,84	1,36	1,98	2,56	3,11	3,51	4,19	5,69	7,61
SFPv (2)		kW/m³/s	1,553	1,507	1,451	1,521	1,387	1,549	1,525	1,432	1,487	1,551
Electrical supply	Phase	ph	1		3							
	Frequency	Hz	50									
	Voltage	V	230		400							
Dimensions unit	Width	mm	720	820	990	1.200	1.400		1.600	1.940		2.300
	Height	mm	1.320		1.540	1.740		1.920		2.180	2.460	2.570
	Length	mm	1.700		1.800	1.920	2.080	2.280	2.400	2.450	2.280	2.400
Weight unit		kg	325	350	475	575	750	790	950	1.330	1.410	1.750

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

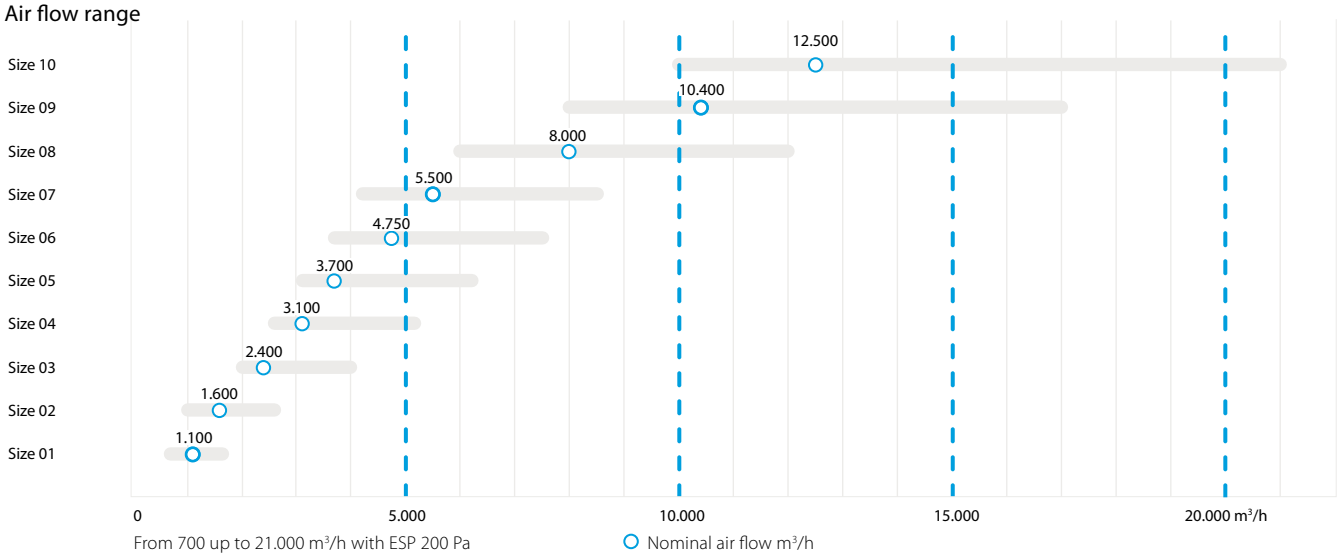
Modular P – High flexibility to match your requirements

With their Plug & Play design and inherent flexibility, Daikin air handling units can be configured and combined to meet the exact requirements of any building, no matter what it is used for or who is to work there.
Daikin systems are designed to be the most environmentally friendly and the most energy efficient. This means they have a reduced ecological impact, while, at the same time, keeping costs down by minimising energy consumption. When combined with the small physical footprint of the system, these features make Daikin air handling units ideal for all markets.



External air right
External air left
Damper
Heat exchange coil
Exhaust air right
Exhaust air left
Drop separator
Control
Air supply right
Air supply left
Fans
Heat Exchanger

Air flow range



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

Construction main benefits

- Eurovent certified performances
- No cross contamination and low internal leakage
- Best class in corrosion resistance
- Polyurethane foam or Mineral wool selectable as insulation materials

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.

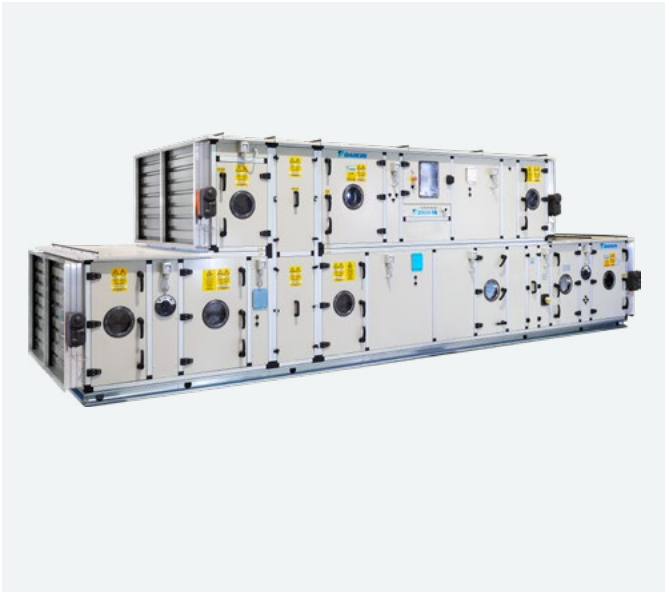
More details and final information can be found by scanning or clicking the QR codes. Modular P

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
Heat exchanger thermal efficiency (1)		%	88,1	87	87,2	87,1		92,1		91,8	92,9	
External static pressure	Nom.	Pa	200									
Current (2)	Nom.	A	1,78	2,48	2,08	2,73	3,45	4,58	5,25	7,53	9,55	11,55
Power input (2)	Nom.	kW	0,41	0,57	0,83	1,09	1,38	1,83	2,10	3,01	3,82	4,62
SFPv (3)		kW/m³/s	1,183	1,092	1,090	1,113	1,118	1,210	1,207	1,216	1,148	1,166
Electrical supply	Phase	ph	1		3							
	Frequency	Hz	50									
	Voltage	V	230		400							
Dimensions unit	Width	mm	720	820	990	1.200	1.400		1.600	1.940		2.300
	Height	mm	1.320		1.540	1.740		1.920		2.180	2.460	2.570
	Length	mm	2.030	2.200	2.610	2.660	2.800	3.210	3.340	3.840	4.060	4.190
Weight unit		kg	343	358	512	604	785	852	964	1.449	1.700	2.071

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

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 m^3/h up to 144.000 m^3/h.
- All the units can be modularly designed to facilitate the transport and the assembly on site.
- Controls: Optional Daikin Plug & Play solution

D-AHU Professional series highlights

- The most flexible AHU available on the market directly from Selection Software
- All Heat recovery systems selectable
- Outdoor or Indoor installation
- Panel Insulation: Mineral wool and Polyurethane
- Panel Thickness: 42mm or 62mm
- Anodized Aluminum and Thermal break Profile optional
- Aluzinc, Aluminum, Preprinted, AISI 304, AISI 316L
- Several thickness of external metal sheet from 0,7 up to 1,5mm

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 CO_2 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/ERA/VRV) of single or multiple refrigerant circuits (up to a maximum of four circuits per DX coil).

Options - D-AHU Professional

Construction type		S2	F2
Profile	Anodized aluminium	standard	standard
	Anodized aluminium with thermal break	option	option
Corner	Glass fibre reinforced nylon	standard	standard
Panel insulation	Polyurethane foam density 40 kg/m³ thermal conductivity 0,022 W/m*K fire reaction class b-s2, diam. as per EN13501-1	standard	standard
	Mineral wool density 120 kg/m³ thermal conductivity 0,036 W/m*K (referred to 20°C) fire reaction class A1 as per EN 135011	option	option
External sheet material	Pre-coated galvanized steel	standard	standard
	Aluzinc	standard	standard
	Galvanized steel	option	option
	Aluminium	option	option
	AISI 316 stainless steel	option	option
Internal sheet material	Pre-coated galvanized steel	option	option
	Aluzinc	standard	standard
	Aluminium	option	option
	AISI 316 stainless steel	option	option
Base frame	Aluminium up to 30.000 m^3/h	standard	standard
	Stainless steel 430	standard	standard
	Stainless steel 316L	option	option
Handle	Glass fibre reinforced nylon	standard	standard
Type	Compression type	standard	standard
	Hinge function type (possibility to remove door)	option	option

Daikin Digital Control

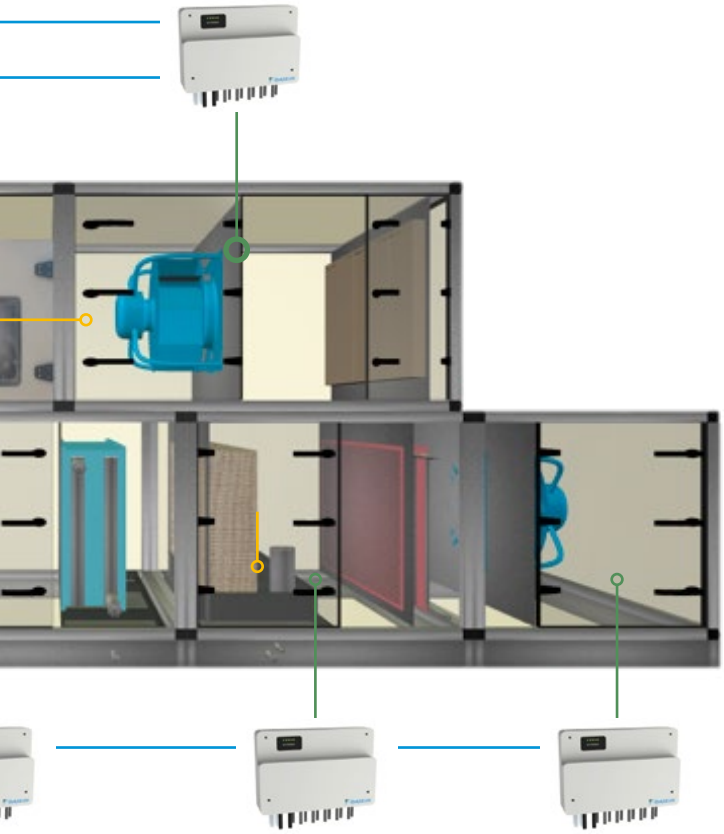
Designed to offer maximum flexibility and scalability, the Daikin Digital control system is the ideal solution for advanced management of air handling units. Digital control can monitor and control every aspect of an AHU operation, optimizing energy consumption and ensuring reliable performance.

Microtech 4

NTC

CO_2 Probe

Humidity Probe



This innovative control design relies on sectional Daikin patented I/O modules: each AHU section is equipped with one or more dedicated module that collect analog or digital signals. The modules are interconnected in a continuous loop up to the central controller (Microtech 4), ensuring smooth and reliable communication among all system components by means of only one cable running through the unit, allowing for the easiest on-site setup and reducing downtime and management costs.

Technical Specifications:

- Number of I/O: Supports over 300 inputs and outputs, both analog or digital.
- Communication Protocols: Compatible with Building Management Systems (BMS) via Modbus or BACnet, ensuring seamless integration with existing infrastructures.
- Advanced Setpoint Control: The Digital® controller precisely ensure setpoints. Setpoints are pre-configured during factory testing based on the selections made.
- Monitoring and Alarms: Constantly monitors AHU operation, identifying malfunctions and activating alarms for prompt intervention.
- Energy Consumption Optimization: With its monitoring and control capabilities, Digital® controls helps to reduce energy consumption, improving overall system efficiency.
- Installation and Commissioning: The pre-configuration of setpoints during factory testing streamlines installation and commissioning processes. Only one cable runs through the air handling unit, simplifying on-site setup. Male-female connectors are the only plugs required for joining on-site, further enhancing ease of installation.
- Flexibility and Scalability: The sectional design and the large number of I/O allow the system to be adapted to any configurations, providing a tailored space-saving solution for every need.

Daikin I/O module

HMI

VFD

Damper Actuator

Water Coil Valve

Smoke Detector

Daikin Cloud Plus

Daikin Cloud Plus is a cloud-based remote control and monitoring solution for Daikin commercial HVAC installations. Using enhanced control, monitoring and predictive logic, Daikin Cloud Plus provides real-time data and support from Daikin experts to help you identify cost-saving opportunities, increase the lifetime of your equipment and reduce the risk of unexpected issues.

Interfaces

- Daikin Cloud Plus connects with Daikin units for commercial applications: Daikin VRV and Ventilation such as AHUs.
- Connection over BACnet with Air handling units, Chillers and 3rd party systems possible
- Daikin AIQ sensor integration
- Connection with other facilities in the building f.ex. Lights through I/O and Wago interfaces possible
- Connection with energy meters possible
- Compatible to co-exist with other gateways and interfaces in the system
- Integration via other gateways, Daikin Cloud Plus as part of the system

Benefits

Easy control of multiple sites

- Remote control and manage sites remotely
- Floor plan control per site
- Multi-site access
- Permission based access

Connectivity and integration possibilities

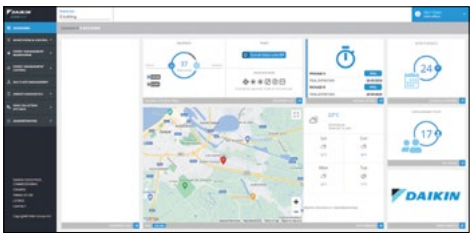
- Simple to advanced edge controllers
- Various interfaces
- Advanced security

Save energy & meet sustainability goals

- Monitor energy consumption trends
- Smart control of systems to save energy
- Insights to improve HVAC system performance
- Reduced costs
- Contribute to carbon neutrality

Manage, monitor and control indoor climate from anywhere

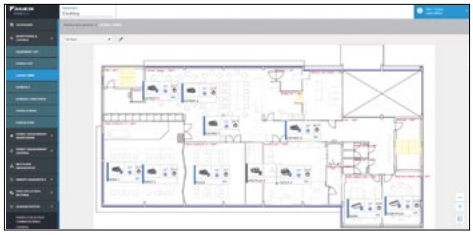
- Limits the necessity for on-site control
- Minimises downtime and engineer call outs
- Optimised maintenance
- Monitoring of indoor air quality



Dashboard

Equipment List

Energy Consumption

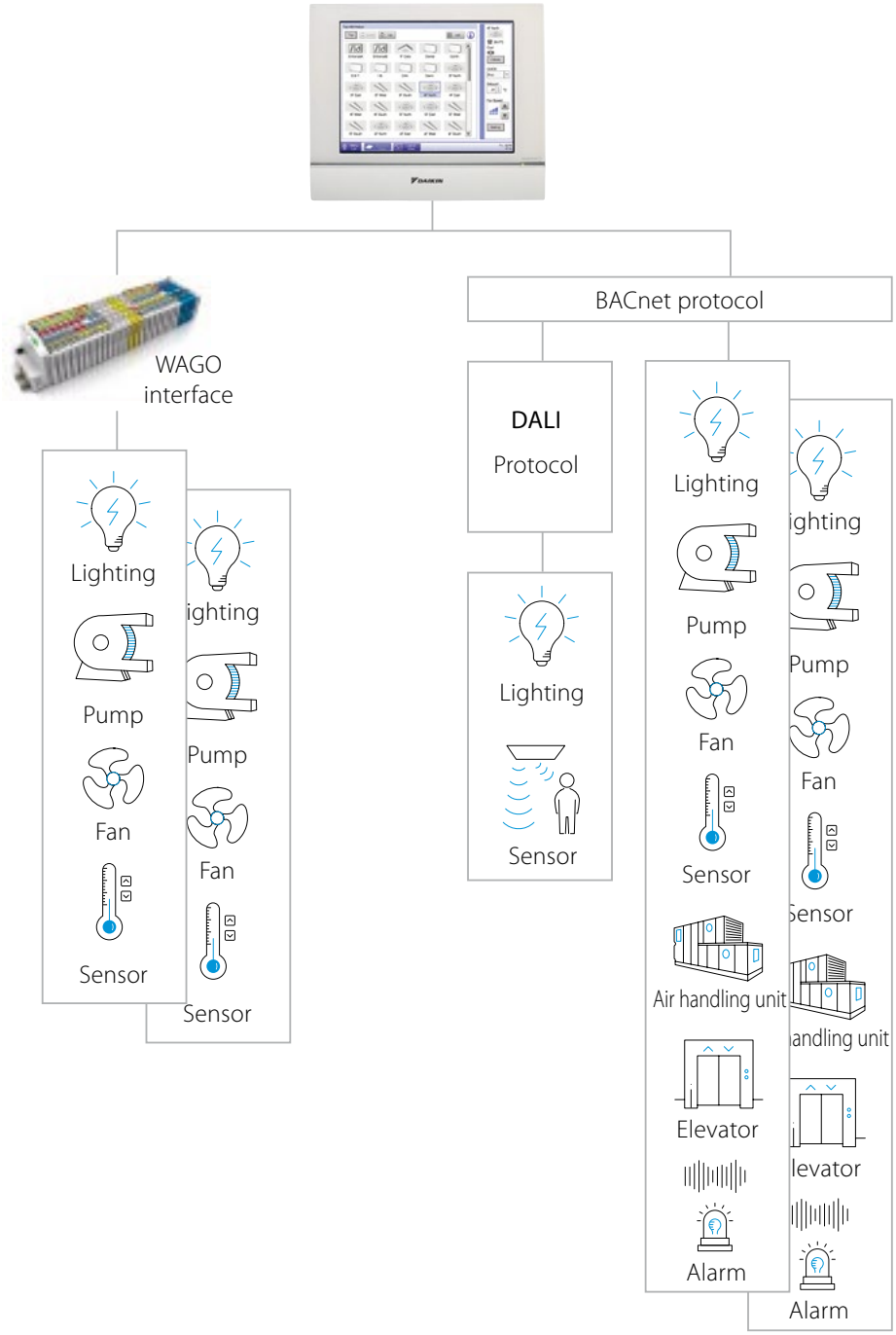


Layout View

Intelligent Touch Manager (ITM)

Highlights

- Ideal for medium to large commercial applications, Possible to control multiple AHUs & VRVs including indoor units with single iTM.
- Seamless integration with VRV, AHU, and third-party equipment, allowing you to control climate, lighting, and alarms from a single interface
- Optimize your energy use by monitoring consumption and detect energy waste.
- Easy-to-use analytics, saving up to 15%.
- Modular design: allowing you to customize the system to fit any building size and needs.
- 24/7 remote monitoring by connecting with Daikin i-Net for continuous system performance.



High efficiency fan array units

Meet the Pro-W. Our dedicated data center Computer Room Air Handling (CRAH) units are designed for large and hyperscale requirements – complete with chilled water coil, advanced controls for real-time demand and cooling capacity **up to 500 kW**.

Compact unit
- Compact section design
- Side and top coil configurations

Direct cooling for large duty applications
- Higher energy efficiency
- Lower capital investment
- Better system stability
- Temperature stability

Range
- 4 standard sizes
- Cooling capacity: 175 – 500 kW

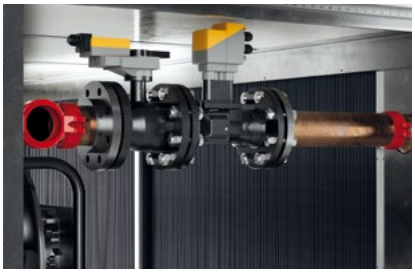
High efficiency
- Latest generation EC fans
- Advanced control strategies

Extras
- Range of optional extras
- Standard right and left configuration
- Front or side filter access

Maintenance
- Front access filters (G4)
- Critical spaces (EC motors, filters, sensors)

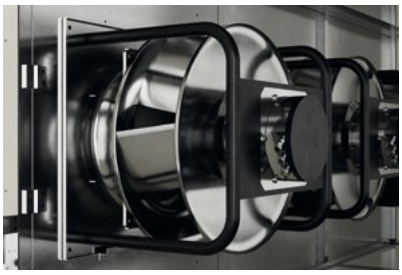
Plug and play!
Air filters, control panel, UPS, fan array, cooling coil (up to 8 rows) and dampers are integrated according to your needs in an aluminium anodised profile casing on a hot deep galvanised base frame. The whole module is pre-tested and ready to use.

Controls
that meet large and hyperscale data center requirements



Pressure independent control valves (PICV) for a stable flow rate, improved temperature control and energy efficiency, reduced total start-up time and maintenance. Supplied separately or integrated.

Daikin EC fans
with state-of-the-art efficiency and redundancy can be adjusted to your needs.



Pro-C CRAH

The Pro-C unit is an ideal solution for thermal management, featuring third-party certified performance.

Efficiency is one of the key aspects achieved thanks to the product's main features, such as optimised chilled water heat exchangers, the latest generation of EC fan, and the integration of pressure-independent control valves and active harmonic filters. Advanced control solution strategies and automatic transfer switches guarantee reliability and prevent any power failure.

Wide cooling capacity range from 30 kW to 250 kW

Wide list of accessories for all project requirements

Advanced controls strategies developed by Daikin, ensuring reliability and efficiency.

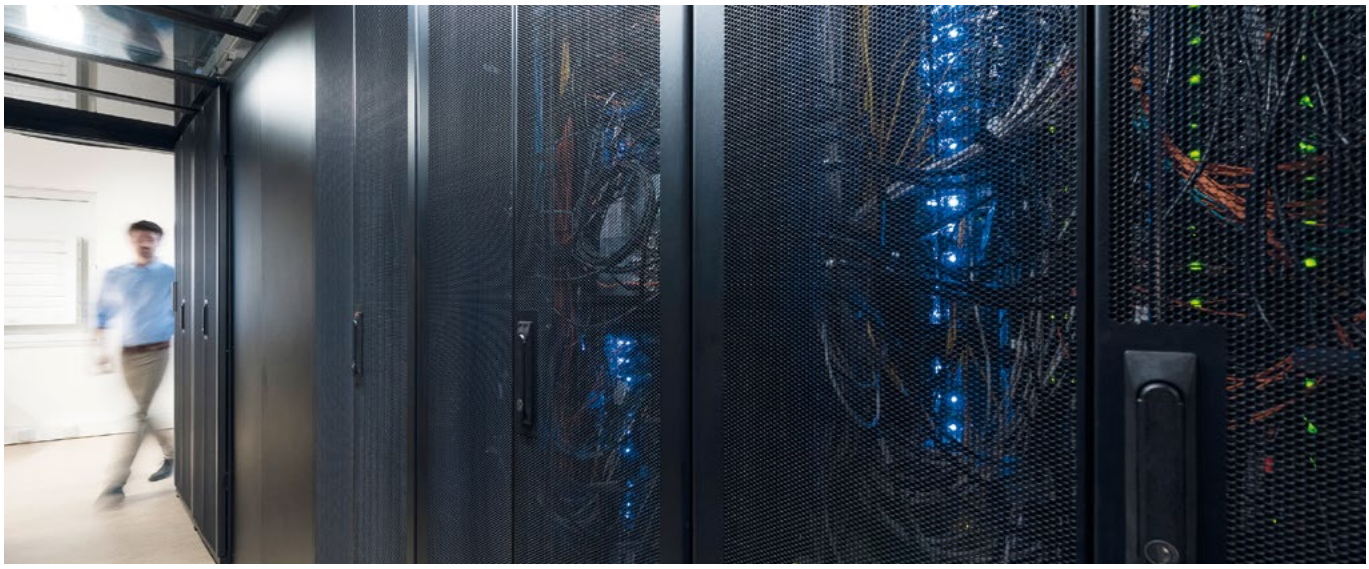
Flexible and modular design suitable for any data centre layout and requirements.

Advanced controls for Data Center
In Data Centers, it is essential to maintain a constant and optimal temperature to prevent IT equipment from overheating, at all times.

Airflow management
Thanks to constant pressure monitoring in the data hall, Pro-C's control system ensure uniform distribution of cold air to prevent hot spots and guarantee efficient cooling

Energy efficiency
Pro-C controls optimize energy consumption to reduce operational costs and environmental impact

Redundancy and safety measures
Teamwork functions offer additional redundancy and safety during failures or critical states and can adjust capacity individually based on real-time data from the hall



Main features

Pro-C comes with many factory mounted features and accessories.

Filters
48 mm-thick panel filters ISO Coarse (G4)
Polypropilene frame and stainless steel net

Controls panel
For Data Center application
Developed by Daikin

PICV
Factory-mounted and programmed
Capable of reading temperatures and water flow

EC fans
ebmpapst 3rd generation
With in-built active PFC

Steel sheet walls
They separate fans and increase aeraulic performance

Supporting frame
Coated galvanized steel

Insulation
20 mm thick Melamine foam
Density 10 kg/m³
Thermal conductivity 0,034 W/mK
Fire resistance B-s1, d0

Single skin panels
Coated galvanized steel
Thickness 1,2 mm
Black matte RAL 9005

Finishing
Embossed aluminium film
Thickness 0,05 mm

Protection grid
Electro-welded steel grid
Blank-off sheets optionally available

Drain pan
Stainless steel tray

Coil connections
Flanged or threaded, at the bottom or at the top (bottom fan only) of the unit

Daikin fresh air package

Unique in the market

Plug and play connection of AHU to Daikin VRV and ERQ/A

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.

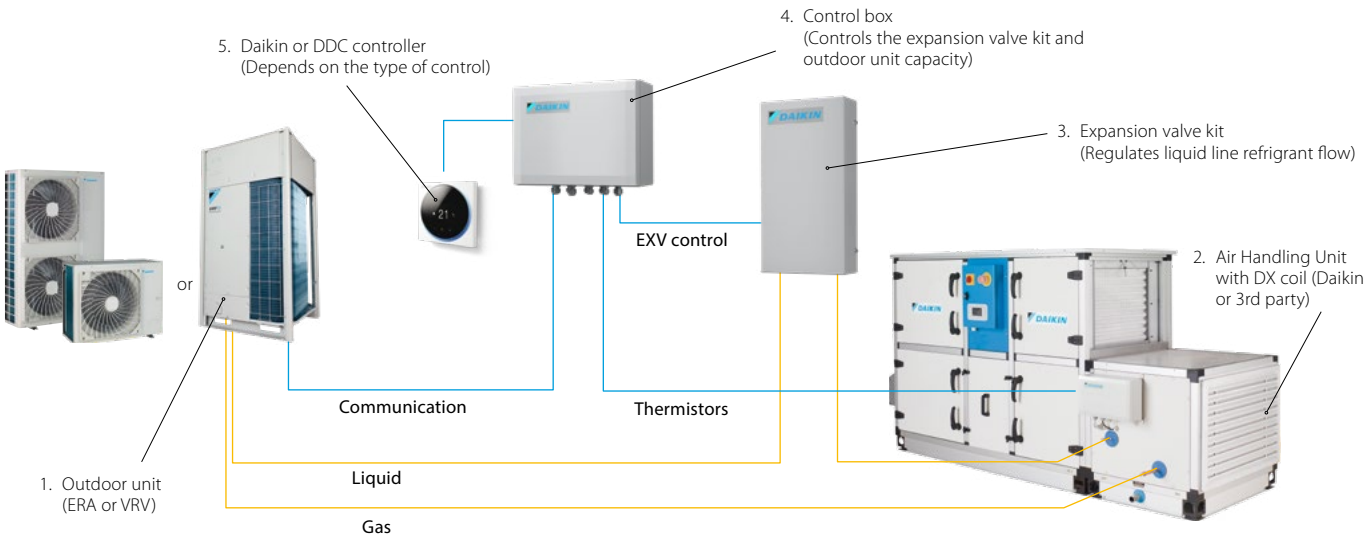
Higher efficiency

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

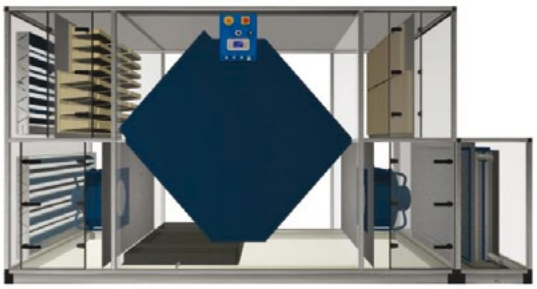
Daikin ERQ/A and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resulting in high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.

NEW - Compatible with R-410A and R-32



Modular P Package

Ventilation unit with plate heat exchanger
+ DX Unit/ R-32 Chiller



Highlights

- 10 standard sizes
- Complies with the hygiene directive VDI 6022
- Operating limits from -25 ° C (-40 ° C with electrical heating) to + 46 ° C ambient temperature
- Plug & Play-arrangement
- Monitoring and control possible via Daikin intelligent Touch Manager (iTM)
- Easy installation and commissioning
- Optimal specific fan performance (SFP) for efficient system operation
- Up to 92% thermal energy recovery.
- Also available without integrated control

Notes:

- By default, the Modular P device is suitable for outdoor installation
- Easy installation and commissioning
- Discounted package price

Selection table Modular P

Daikin Fresh air package includes:

- Version for indoor exhibition
- Connection side on the right
- Panel insulation in polyurethane foam
- Housing panels in 42mm
- Housing sheet outside, powder-coated 0.7mm
- Coating inside Aluzinc 0.5mm
- Base frame made of aluminium 100mm
- Supply Filter: Class F7 ePM1 50%
- Return Filter: Class M5 ePM10 55%
- Including Minihelic pressure displays
- Design of duct connections at supply & return air side with canvas spigot
- Including damper on Fresh air and Exhaust air side
- Highly efficient counterflow heat exchanger including condensate tray
- Version with control (constant air volume)
- HMI device supplied separately

2 Packages available with:

1. Air-cooled **EWYT-CZ** inverter heat pump (see also p.137):
includes:
- Standard cold water pump
- Option for operation at low outside temperatures down to -15 °C

or

2. Air-cooled R-32 heat pump **EWYT-B** (see also p.136):
includes:
- Version" SS "with standard efficiency and standard sound version
- With standard cold water pump
- With water filter
- With soft starter per compressor
- With cold water flow switch
- With Nordic- Kit
- Including rubber vibration damper

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		% Eurovent	87,5	88,5	88	87,4	86,9	89,1	88,2	86,6	88,7	87,8
External static pressure (ESP)	Nom.	Pa	200	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	6,97
Power Input	Nom.	kW	0,4	0,58	0,89	1,15	1,45	1,86	2,11	2,87	4,07	4,83
SFPv (specific. Fan power)		kW/m³/s	1,32	1,3	1,33	1,34	1,41	1,41	1,38	1,29	1,41	1,39
Electrical Supply	Phase	ph	1	1	3 + N	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	50
	Voltage	V	230	230	400	400	400	400	400	400	400	400
Unit dimensions	Width	mm	720	820	990	1.200	1.400	1.400	1.600	1.940	1.940	2.300
	Height	mm	1.320	1.320	1.540	1.740	1.740	1.920	1.920	2.180	2.460	2.570
	Length	mm	2.030	2.200	2.610	2.660	2.800	3.210	3.340	3.840	4.060	4.190
Unit weight		kg	343	358	512	604	785	852	964	1.449	1.700	2.071
Eurovent energy classification			A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
Standard model with condensing unit		**ADT**	**01ECD1**	**02ECD1**	**03ECD1**	**04ECD1**	**05ECD1**	**06ECD1**	**07ECD1**	**08ECD1**	**09ECD1**	**10ECD1**
Condensing unit		ERQ/ERA/VRV	140AV1	140AV1	250AW1	2 x 200AW1	2 x 250AW1	2 x 250AW1	2 x RXYQ14U	2 x RXYQ20U	2 x RXYQ22U	-
Expansion valve kit and control box		EKEXV+EKEQ	included	included	included	included	included	included	included	included	included	-
Standard model with water chiller		**ADT**	**01ECW1**	**02ECW1**	**03ECW1**	**04ECW1**	**05ECW1**	**06ECW1**	**07ECW1**	**08ECW1**	**09ECW1**	**10ECW1**
Heat pump		EWYT	016CZH-A1	016CZH-A1	032CZH-A1	040CZH-A1	050CZH-A1	064CZH-A1	090CZH-A1	135B-SSA1	205B-SSA2	205B-SSA2

Please contact your local Daikin sales staff for selection support and technical data sheets.

Modular R Package

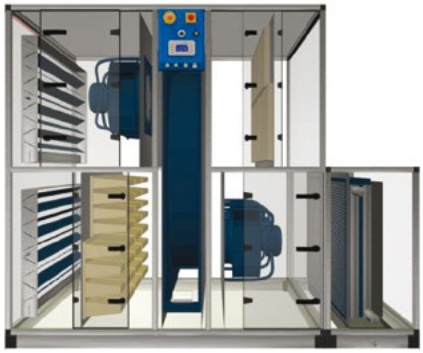
Ventilation unit with rotary heat exchanger + DX Unit/ R-32 Chiller

Highlights

- 10 standard sizes
- Complies with the hygiene directive VDI 6022
- Operating limits from -25 ° C (-40 ° C with electrical heating) to + 46 ° C ambient temperature
- Plug & Play-arrangement.
- Monitoring and control possible via Daikin intelligent Touch Manager (iTM)
- Easy installation and commissioning
- Optimal specific fan performance (SFP) for efficient system operation
- Up to 92% thermal energy recovery.
- Also available without integrated control

Notes:

- By default, the Modular P device is suitable for outdoor installation
- Easy Installation and commissioning
- Discounted package price



Selection table Modular R

Daikin standard Fresh air package includes:

- Version for indoor exhibition
- Connection side on the right
- Panel insulation in polyurethane foam
- Housing panels in 42mm
- Housing sheet outside, powder-coated 0,7mm
- Coating inside Aluzinc 0,5mm
- Base frame made of aluminium 100mm
- Supply Filter: Class F7 ePM1 50%
- Return Filter: Class M5 ePM10 55%
- Including Minihelic pressure displays
- Design of Supply and Return duct connections with flexible canvas
- Including damper on Fresh air and Exhaust air side
- Highly efficient counterflow heat exchanger including condensate tray
- Version WITH control (constant volume flow)
- HMI device supplied separately

2 Packages available with:
1.Air-cooled **EWYA-DW/EWYT-CZ** inverter heat pump (see also p.134/137):
includes:

- Standard cold water pump
- Option for operation at low outside temperatures down to -15 °C

or
2. Air-cooled R-32 heat pump **EWYT-B** (see also p.129):
includes:

- Version" SS "with standard efficiency and standard sound version
- With standard cold water pump
- With water filter
- With soft starter per compressor
- With cold water flow switch
- With Nordic- Kit
- Including rubber vibration damper

D-AHU Modular R			**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Airflow		m^3/h	1.600	2.100	3.600	5.300	6.600	7.300	9.900	12.600	14.200	19.200
Thermal efficiency		% Eurovent	77,4	77,9	77,6	78,2	79,5	78,7	78	78,3	78,9	78,8
External static pressure (ESP)	Nom.	Pa	200	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	6,97
Power Input	Nom.	kW	0,4	0,58	0,89	1,15	1,45	1,86	2,11	2,87	4,07	4,83
SFPv (specific. Fan power)		$kW/m^3/s$	1,32	1,3	1,33	1,34	1,41	1,41	1,38	1,29	1,41	1,39
Electrical Supply	Phase	ph	1	1	1	3 + N	3 + N	3 + N	3 + N	3 + N	3 + N	3 + N
	Frequency	Hz	50	50	230	50	50	50	50	50	50	50
	Voltage	V	230	230	400	400	400	400	400	400	400	400
Unit dimensions	Width	mm	720	820	990	1.200	1.400	1.400	1.600	1.940	1.940	2.300
	Height	mm	1.320	1.320	1.540	1.740	1.740	1.920	1.920	2.180	2.460	2.570
	Length	mm	1.700	1.700	1.800	1.920	2.080	2.280	2.400	2.450	2.280	2.400
Unit weight		kg	326	351	476	576	751	791	952	1.332	1.412	1.752
Eurovent energy classification			A	A	A	A	A	A	A	A	A	A
Standard model with condensing unit		**ADT**	**01FCD1**	**02FCD1**	**03FCD1**	**04FCD1**	**05FCD1**	**06FCD1**	**07FCD1**	**08FCD1**	**09FCD1**	**10FCD1**
Condensing unit		ERQ/ERA/VRV	125AV1	200AW1	250AW1	2 x 200AW1	2 x 250AW1	2 x 250AW1	2 x RXYQ14U	2 x RXYQ18U	2 x RXYQ20U	-
Expansion valve kit and control box		EKEXV+EKEQ	included	included	included	included	included	included	included	included	included	-
Standard model with water chiller		**ADT**	**01FCW1**	**02FCW1**	**03FCW1**	**04FCW1**	**05FCW1**	**06FCW1**	**07FCW1**	**08FCW1**	**09FCW1**	**10FCW1**
Heat pump		EWYA/ EWYT	D014DW1P-H-	016CZH-A1	032CZH-A1	040CZH-A1	050CZH-A1	064CZH-A1	090CZH-A1	105B-SSA1	135B-SSA1	175B-SSA1

Please contact your local Daikin sales staff for selection support and technical data sheets.

Daikin's air handling units solutions

You will find your match

Why choose Daikin air handling units with a DX connection?

Simplifying business

The unique total solution approach by Daikin helps businesses to propose better cross-pillar solutions, to increase their success ratio by providing unmatchable product combinations to the end-user and to simplify the life of installers by supplying high-quality products coming from the same manufacturer. Contrary to other manufacturers, Daikin does not use OEM products in its AHU with DX offer. Many competitors are either offering OEM DX outdoor units or OEM AHU which create additional problems when warranties or faults arise. **Having a single interface for your business makes Daikin the right choice.**

One-stop shop

Daikin is the only global manufacturer in the market **capable of offering a true Plug & Play solution** where Daikin AHUs manufactured by Daikin Applied Europe and certified by Eurovent, offer off-the-shelf compatibility with Daikin's unique VRV outdoor unit range for the best performance in the market.
This unique integration of cross-pillar products under the same umbrella, gives the customer both peace-of-mind and added value when promoting a total solution approach.

Complete range of possibilities

Thanks to the **most complete offer in the market**, Daikin has the solution for all types of commercial applications requiring fresh air. Daikin provides ventilation solutions based on AHU from 2.500 m^3/h up to 140.000 m^3/h either with natural heat recovery or more advanced ventilation solutions where a VRV outdoor unit can be connected to the Daikin AHU for ultimate climate control. The harmonized control, between the VRV outdoor unit and the AHU, offer outstanding reliable operation of the system when connected to an iTM.

Advantages

- Unique manufacturer offering a complete range
- Plug & Play solution with easy control
- Direct iTM compatibility
- Discounted package price

Why use DX outdoor units with air handling units?

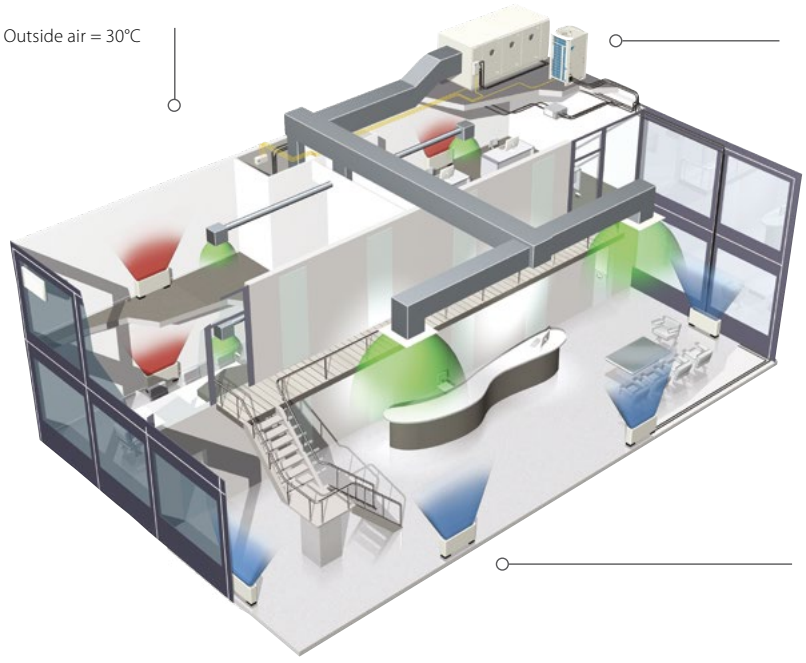
High comfort levels
- Rapid response of supply air temperature to changing loads, results in a steady indoor temperature
- VRV offers the ultimate comfort thanks to continuous heating, also during defrost

Low carbon footprint and operating costs
- DX heat pumps are highly efficient inverter units using a lower GWP refrigerant
- By integrating a VRV heat recovery system, excess heat from rooms in cooling can be reused to heat up incoming fresh air

Easy design, all components integrated
- A DX system is an all-in-one system, no boilers, tanks or pumps are needed reducing the total investment cost

One-stop shop, Daikin's fresh air package
- A plug & play package with a Daikin DX outdoor unit and Daikin Air Handling Unit
- One point of contact for the design, installation and commissioning, streamlining the process

Total solution operation example



ERQ - for smaller capacities (from 100 to 250 class)

A basic fresh air solution for pair application

- Inverter controlled units
- Heat pump
- R-410A
- Wide range of expansion valve kits available
- Perfect for the Daikin Modular air handling unit

The "Daikin Fresh Air Package" provides a complete Plug & Play Solution including AHU, ERQ or VRV Condensing Unit and all unit control (EKEQ, EKEX, DDC controller) factory mounted and configured. The easiest solution with only one point of contact.

Ventilation			**ERQ**	**100AV1**	**125AV1**	**140AV1**
Capacity range			HP	4	5	6
Cooling capacity	Nom.		kW	11,2	14,0	15,5
Heating capacity	Nom.		kW	12,5	16,0	18,0
Power input	Cooling	Nom.	kW	2,81	3,51	4,53
	Heating	Nom.	kW	2,74	3,86	4,57
EER				3,99		3,42
COP				4,56	4,15	3,94
Dimensions	Unit	HeightxWidthxDepth	mm	1.345x900x320		
Weight	Unit		kg	120		
Casing	Material			Painted galvanized steel plate		
Fan-Air flow rate	Cooling	Nom.	m^3/min	106		
	Heating	Nom.	m^3/min	102	105	
Sound power level	Cooling	Nom.	dBA	66	67	69
Sound pressure level	Cooling	Nom.	dBA	50	51	53
	Heating	Nom.	dBA	52	53	55
Operation range	Cooling	Min./Max.	°CDB	-5/46		
	Heating	Min./Max.	°CWB	-20/15,5		
	On coil temperature	Heating/Min./Cooling/Max.	°CDB	10/35		
Refrigerant	Type			R-410A		
	Charge		kg	4,0		
			TCO_2eq	8,4		
	GWP			2.087,5		
	Control			Expansion valve (electronic type)		
Piping connections	Liquid	OD	mm	9,52		
	Gas	OD	mm	15,9		19,1
	Drain	OD	mm	26x3		
Power supply	Phase/Frequency/Voltage		Hz/V	1N~/50/220-240		
Current	Maximum fuse amps (MFA)		A	32,0		

Ventilation			**ERQ**	**125AW1**	**200AW1**	**250AW1**
Capacity range			HP	5	8	10
Cooling capacity	Nom.		kW	14,0	22,4	28,0
Heating capacity	Nom.		kW	16,0	25,0	31,5
Power input	Cooling	Nom.	kW	3,52	5,22	7,42
	Heating	Nom.	kW	4,00	5,56	7,70
EER				3,98	4,29	3,77
COP				4,00	4,50	4,09
Dimensions	Unit	HeightxWidthxDepth	mm	1.680x635x765	1.680x930x765	
Weight	Unit		kg	159	187	240
Casing	Material			Painted galvanized steel plate		
Fan-Air flow rate	Cooling	Nom.	m^3/min	95	171	185
	Heating	Nom.	m^3/min	95	171	185
Sound power level	Nom.		dBA	72	78	
Sound pressure level	Nom.		dBA	54	57	58
Operation range	Cooling	Min./Max.	°CDB	-5/43		
	Heating	Min./Max.	°CWB	-20/15		
	On coil temperature	Heating/Min./Cooling/Max.	°CDB	10/35		
Refrigerant	Type			R-410A		
	Charge		kg	6,2	7,7	8,4
			TCO_2eq	12,9	16,1	17,5
	GWP			2.087,5		
	Control			Electronic expansion valve		
Piping connections	Liquid	OD	mm	9,52		
	Gas	OD	mm	15,9	19,1	22,2
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/400		
Current	Maximum fuse amps (MFA)		A	16	25	

ERA - Condensing unit range

Connectable to Air Curtains and Direct Expansion (DX) Air Handling Units (AHUs) for fresh air and recirculation applications

- Based on inverter technology with the use of lower GWP R-32 refrigerant
- Immediate cooling and heating under any ambient or room conditions
- Better management of load for medium size spaces due to VRV technology
- Continuous Heating: Avoid cold drafts during defrost cycle
- Benefit from the high efficiency and fast response time of ERA units for changing loads
- Energy saving due to inverter technology

				ERA*A7V/Y1B	4	5	6
Performance	Cooling capacity		kW		12,1	14,0	15,5
	Heating capacity		kW		12,1	14,0	15,5
	SEER				-	-	-
	SCOP				-	-	-
Sound	Sound pressure (cooling)		dBA		49,0	51,0	51,0
	Sound power (cooling)		dBA		67,0	68,1	69,0
	Sound power (heating)		dBA		68,0	69,2	70,0
	Low noise points				5 low noise steps		
Dimensions	Width		mm		1.100		
	Depth		mm		460		
	Height		mm		869		
Compressor	Quantity				1		
	Type				Hermetically sealed swing		
Refrigerant	Type				R-32		
	Charge amount		kg		3,4		
PED	Category				-		
Piping connection	Liquid pipe ø		mm		9,5		
	Gas pipe ø		mm		15,9		
General	Operation range cooling	Min.	°CDB		-5		
	Operation range cooling	Max.	°CDB		+46		
	Operation range heating	Min.	°CDB/WB		-20 /-20		
	Operation range heating	Max.	°CDB/WB		+21/ +15		

				ERA*AMYFB	8	10	12
Performance	Cooling capacity		kW		22,4	28,0	33,5
	Heating capacity		kW		22,4	28,0	33,5
	SEER				-	-	-
	SCOP				-	-	-
Sound	Sound pressure (cooling)		dBA		58,1	57,0	60,0
	Sound power (cooling)		dBA		73,2	74,0	76,1
	Sound power (heating)		dBA		73,5	74,0	76,0
	Low noise points				5 low noise steps		
Dimensions	Width		mm		940		
	Depth		mm		320	460	
	Height		mm		1.430	1.615	
Compressor	Quantity				1		
	Type				P-type scroll		
Refrigerant	Type				R-32		
	Charge amount		kg		5,2	7,0	7,1
PED	Category				-		
Piping connection	Liquid pipe ø		mm		9,5	9,5	12,7
	Gas pipe ø		mm		19,1	19,1	22,2
General	Operation range cooling	Min.	°CDB		-5		
	Operation range cooling	Max.	°CDB		+52		
	Operation range heating	Min.	°CDB/WB		-20		
	Operation range heating	Max.	°CDB/WB		+15,5		

R-32

Daikin air handling unit kits for connection to DX outdoor units

Expansion valve kits
- **3 new capacities** (300, 350, 400) offer a complete range of expansion valve kits **from 5 to 69,3 kW**
- **Improved flexibility** thanks to combination ratio from 65% up to 110%
- Unified range connectable both to **R-32 and R-410A** systems
- Can be used in the most **extreme outdoor conditions**, down to -20°C
- F**ully compliant to IEC60335-2-40**, thanks to Shîrudo Technology

Extended operation range
-20°CWB > 52°CDB

Control box
- Complete offer of **5 control possibilities**
- Daikin **integrated** or **third-party controller**
- Control of return air or fresh air supply temperature
- All **control methods** unified in **one box**
- Hinged door for **easy servicing**

Expansion valve set (EKEXVA*)
- Controls the refrigerant flow in the AHU DX coil
- Fully brazed and wired in case of a Daikin AHU

Control box (EKEACB)
- Controls the expansion valve set and outdoor unit(s) capacity
- Mounted and wired in case of a Daikin AHU

Specifications

EKEXVA – Expansion valve kit

Ventilation				EKEXVA	50	63	80	100	120	140	200	250	300	350	400	450	500
Dimensions	Unit			mm	404x217x80,5												
Weight	Unit			kg	2,9												
Operation range	On coil temperature	Heating	Min.	°CDB	10,0												
		Cooling	Max.	°CDB	35,0												
Ambient installation conditions	Min.			°CDB	-20,0												
	Max			°CDB	52,0												
Sound pressure level	Cooling	Nom.		dBA	36,5	37,5	38,6	39,5	40,5	41,1	42,5	43,5	44,3	45,1	45,6	46,1	46,5
	Nom.			dBA	24,8	25,8	26,8	27,8	28,8	29,4	30,8	31,8	32,5	33,3	33,8	34,3	34,8
Refrigerant	Type / GWP				R-32 / 675 R-410A / 2.087,5												
Piping connections	Liquid	Type		mm	Braze connection (only liquid line connected)												
		OD		mm	6,35			9,52					12,7				

EKEACB – Control box

			EKEACB
Layout			Pair | Multi | Mix
Dimensions	Unit	mm	300x400x150
Weight	Unit	kg	5,1
Ambient installation conditions	Min	°CDB	-20
	Max	°CDB	52
Power supply	Phase		1~
	Frequency	Hz	50/60
	Voltage	V	220-240/220

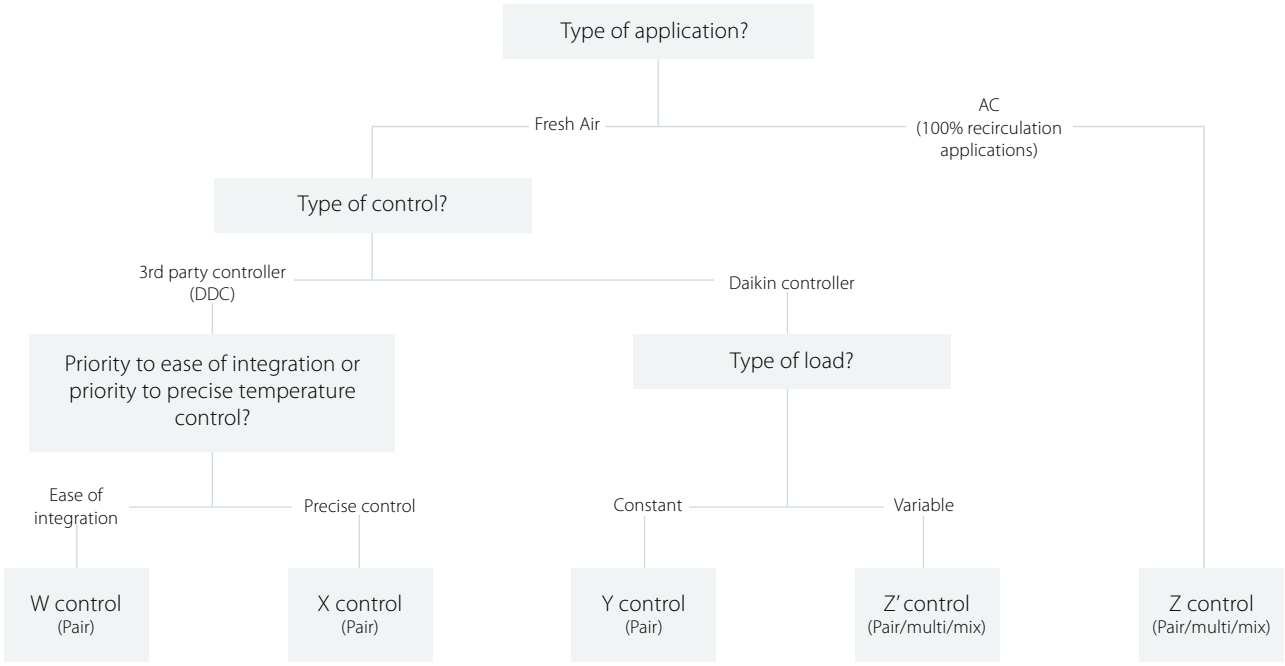
Click for more information on **EKEACB** or **EKEXVA** outdoor units

Air handling unit kits

Control possibilities

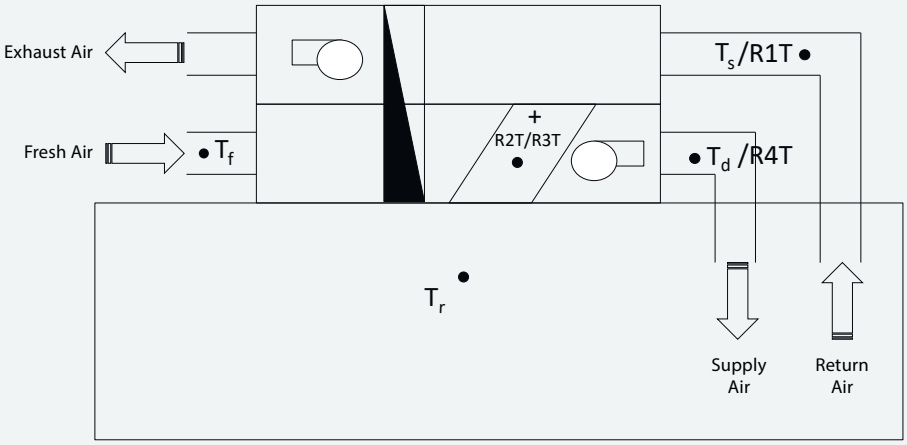
Every application is different. Is there a constant load or not, how to control your temperature and which controls are available? **With our complete offering of 5 control possibilities**, anything is possible.

Flow chart to select your control type



Control type benefits	Sensor Used	Controller
W control – control of supply or return air temperature · **Responds to load variation** (capacity is changed as a function of measured temperature, but slower than X- control) · **Air temperature control** · **Easy to integrate, as no additional programming** is needed for most standard AHU controllers	**Td, Ts/f or Tr** (field supplied)	External controller (DDC) using a proportional 0~10 V signal for capacity control **(5 steps)**
X control – control of supply or return air temperature · **Fastest response to load variation** (capacity is immediately changed as a function of measured temperature) · **Precise air temperature control** · **Ideal for comfort sensitive applications.** This is also used **by default** in Daikin AHU controls	**Td, Ts/f or Tr** (field supplied)	External controller (DDC) using a proportional 0~10 V signal for capacity control **(Stepless)**
Y control – control of evaporating/condensing temperature · **Cost effective and simple solution**, no additional DDC controller required · **Fixed evaporating/condensing temperature**, no direct temperature control · **Ideal for applications with a constant cooling/heating load**	**R2T/R3T** (Daikin supplied)	**3rd party thermostat** (Daikin controller for field settings)

Sensors used



Legend

T_d : discharge (supply) air temperature
T_s : suction (return) air temperature
T_f : fresh air temperature
T_r : room air temperature
R2T/R3T: Refrigerant (liquid/gas line) temperature

Control type benefits	Sensor Used	Controller
Z' control – control of supply air temperature · **Cost efficient and simple** solution, no additional DDC controller required · You can **combine VRV indoor units and AHUs** in one system or connect **several AHUs to 1 outdoor unit** · **Ideal for pre-conditioning of fresh air** via Td temperature control · Less accurate room temperature control compared to X/W/Z control	**R4T** Daikin supplied)	Daikin controller (set point can be set via field setting)
Z control – return air temperature control · Cost **efficient and simple solution**, no additional DDC controller required · You **can combine VRV indoor units** and AHUs in one system or connect **several AHUs to 1 outdoor unit** · **Ideal for AHU's that operate at 100% recirculation** like indoor units or if no particular supply temperature required · **No supply temperature control**	**R1T** (Daikin supplied)	Daikin controller (set point can be set via remocon or via C1C2)

Air handling unit kits

Layout possibilities

With our wide capacity range and different control options, a variety of layout possibilities to match your application:

- **Pair layout:** one or more outdoor units combined with 1 air handling unit
- **Multi layout:** one outdoor unit combined with multiple air handling units
- **Mix layout:** one outdoor unit combined with an air handling unit AND indoor units

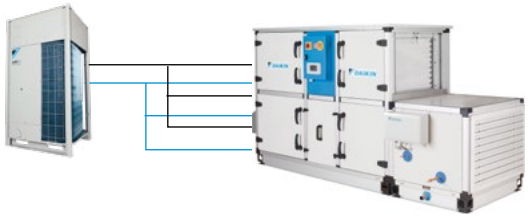
Pair layout

One ERA or VRV heat pump (system) connected to one AHU through one refrigerant circuit

- with W, X, Y, Z, Z' control
- not allowed for VRV H/R

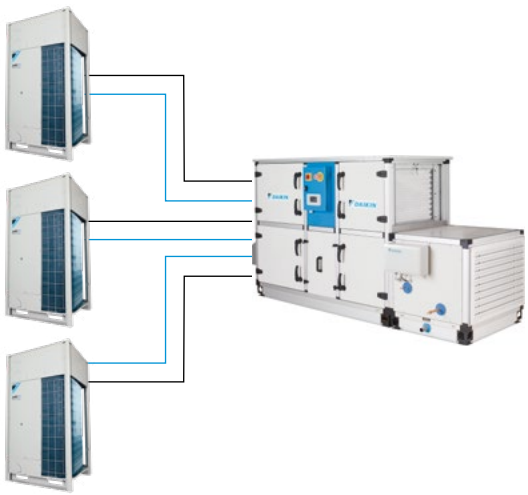
One VRV heat pump (system) connected to the interlaced coil of one AHU through several refrigerant circuits

- with W, X, Y control
- not allowed for VRV H/R and VRV-i



Several ERA or VRV heat pumps connected to the interlaced coil of one AHU through several refrigerant circuits

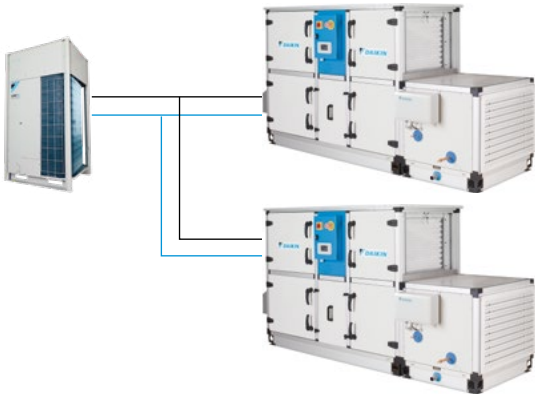
- with W, X, Y control
- not allowed for VRV H/R and VRV-i



Multi layout

One VRV heat pump connected to several AHUs

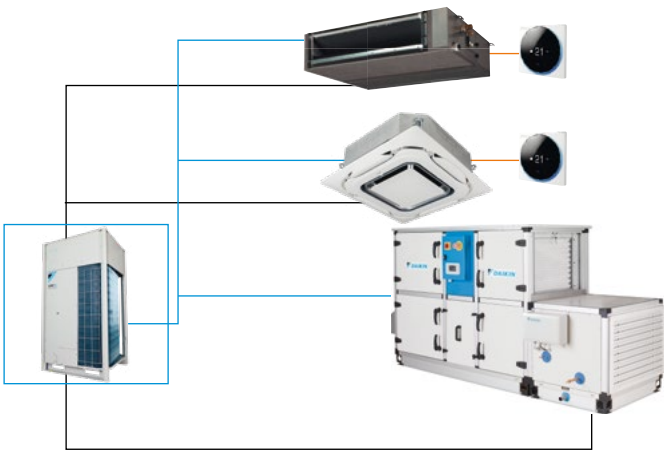
- with Z, Z' control and field supplied controls on AHU side.
- not allowed for VRV H/R
- no interlaced coil possible



Mix layout

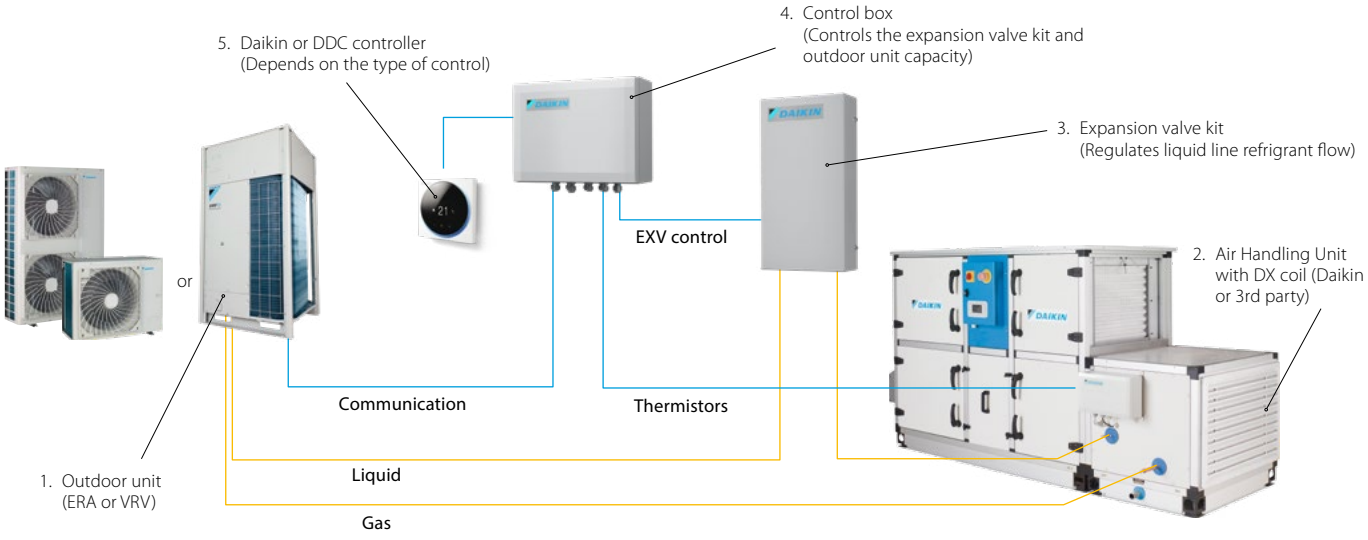
VRV indoor units and AHU(s) mixed in the same VRV heat pump or heat recovery system

- with Z, Z' control and field supplied controls on AHU side
- no interlaced coil possible
- hydrobox not possible



Refrigerant piping
F1-F2
P1-P2

Main components with detailed piping and wiring principle



Detailed combination table

Range	Outdoor Unit	Control box	Expansion valve kits EKEXVA											
		EKEACBVE	50	63	80	100	125	140	200	250	300	350	400	450	500
ERA	ERA100A7V1B	P	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-		
	ERA125A7V1B	P	-	-	-	P(b)	P(b)	-	-	-	-	-	-		
	ERA140A7V1B	P	-	-	-	P(a)	P(b)	P(b)	-	-	-	-	-		
	ERA100A7Y1B	P	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-	-	-
	ERA125A7Y1B	P	-	-	-	P(b)	P(b)	-	-	-	-	-	-	-	-
	ERA140A7Y1B	P	-	-	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-
	ERA200AMYFB	P	-	-	-	-	-	P(b)	P(b)	-	-	-	-	-	-
	ERA250AMYFB	P	-	-	-	-	-	-	P(b)	P(b)	-	-	-	-	-
	ERA250AMYFB	P	-	-	-	-	-	-	P(a)	P(b)	P(b)	-	-	-	-

DX coil volume limitations when combined with ERA:
Please follow the AHU HEX volume limitations according to the table below:

Capacity class	Minimum heat exchanger volume [dm³]		Maximum heat exchanger volume [dm³]
	Pair combination (a)	Pair combination (b)	Pair combination
63	1,18	1,02	2,08
80	1,64	1,42	2,64
100	1,74	1,51	3,30
125	2,29	1,98	4,12
140	2,94	2,54	4,62
200	3,49	3,02	6,60
250	4,58	3,97	8,25
300	5,23	4,53	9,90

VRV IV & VRV IV+	H/P (RYYQ, RXYQ, RXYSQ, RXYTQ, RXYLQ, RXYS(C)Q, RWEYQ (H/P))	P/M	Pair and multi: 65% (1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	VRV-i (RKXYQ)	P(2)/M	Pair and multi: 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	H/R (REYQ, RWEYQ (H/R))	M(3)	Multi(3): 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
VRV 5	H/P (RXYSA, RXYA)	P/M	Pair and multi: 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	H/R REYA	M(3)	Multi(3): 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%

P: Pair layout - One or more outdoor units connected to an (interlaced) coil of one AHU
M: Mix or multi layout - Combination of (multiple) AHU(s) with (mix combination) or without (multi combination) VRV DX indoor(s). Only Z or Z' control possible (no interlaced coils)
(1): For 65%<CR<75% please refer to the specifically required coil size
(2): Only Z or Z' control possible (no interlaced coils)
(3): Technically is possible to connect H/R in pair combination, but there's no benefit to do it

Pair application selection

- the outdoor unit is connected to ONE COIL (with single circuit or maximum 3 interlaced circuits) using up to 3 control boxes
- indoor unit combination is not allowed
- only works with X, W, Y control

Step 1: Required AHU capacity

An AHU with double flow, heat recovery and 100% fresh air is to be installed in Europe where the outdoor sizing temperature is 35 ºCDB and the target supply air temperature for fresh air is 25 ºCDB. Load calculations point to a required capacity of 45 kW.
By checking on the EKEXV capacity table, for cooling operation, 40 kW falls within the 400 class valve. Since 40 kW is not the nominal capacity, a class adjustment has to be done. 40/45=0,89 and 0,89x400=356. So the capacity class of the expansion valve kit is 356.

Step 2: Outdoor unit selection

For this AHU, a VRV IV heat pump model with continuous heating is going to be used (RYYQ-T series). For a capacity of 40 kW at 35 ºCDB, an outdoor of 14HP (RYYQ14T) is selected. The capacity class of the 14 HP outdoor unit is 350.
Total connection ratio of the system is 356/350=102% hence it falls within the range 90-110%.

Step 3: Control box selection

In this particular case, the control will work with precise air temperature control. Only W or X control allow this. Since the consultant wants to use an "off-the-shelf" DDC module, the EKEACB box with W control allows easy set-up due to pre-set factory values.

Multi application selection

- the outdoor unit can be connected to multiple COILS (and their control boxes)
- indoor units are also connectable but not mandatory
- only works with Z control

Step 1: Required AHU capacity

An AHU with double flow, heat recovery and 100% fresh air is to be installed in Europe where the outdoor sizing temperature is 35 ºCDB and the target supply air temperature for fresh air is 25 ºCDB. On top of this, for this building, 5 round-flow cassette units FXFQ50A will also be connected to this OU.
Load calculations point to a required capacity of 20kW for the AHU and 22,5 kW for the indoor untis.
By checking on the EKEXV capacity table, for cooling operation, 20kW falls within the 200 class valve. Since 22,4 kW is the nominal capacity, a class adjustment has to be done. 20/22,4=0,89 and 0,89x200=178. So the capacity class of the expansion valve kit is 178. Total capacity class of the indoor unit system is 178+250=428

Step 2: Outdoor unit selection

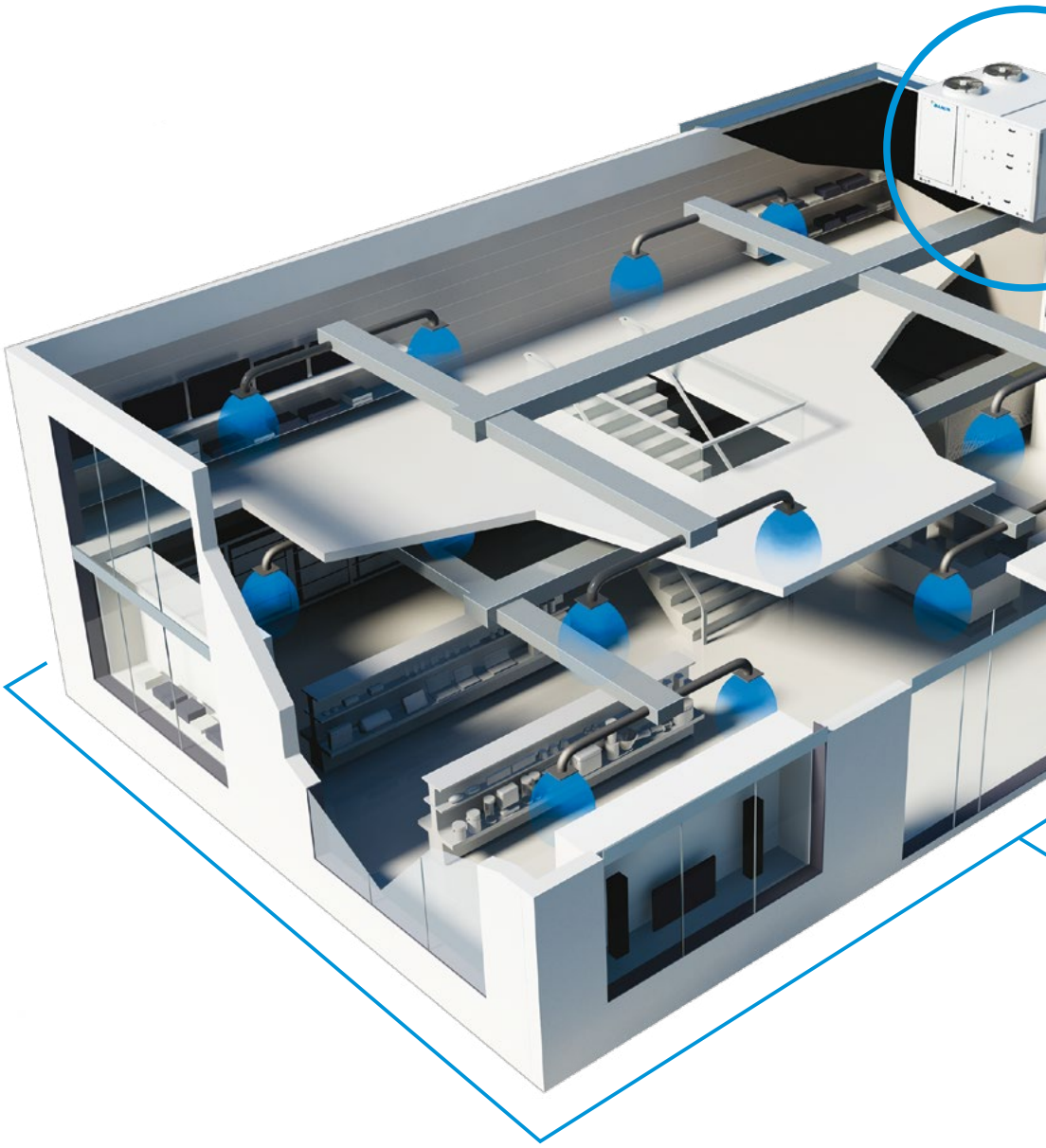
For this system where a AHU is connected with indoor units, it is mandatory to use a heat recovery unit. By consulting the engineering databook for REYQ-T, the total required capacity of 42,5 kW requires a 16HP model REYQ16T. Which will deliver 45kW at the design temperature of 35 ºCDB. This unit has a capacity class of 400. Total connection ratio of the system is 428/400=107% hence it falls within the range 50-110%.

Step 3: Control box selection

In this particular case, the only available control is Z control and the combination of AHU and VRV DX indoor units requires EKEACB control box.

Daikin rooftops

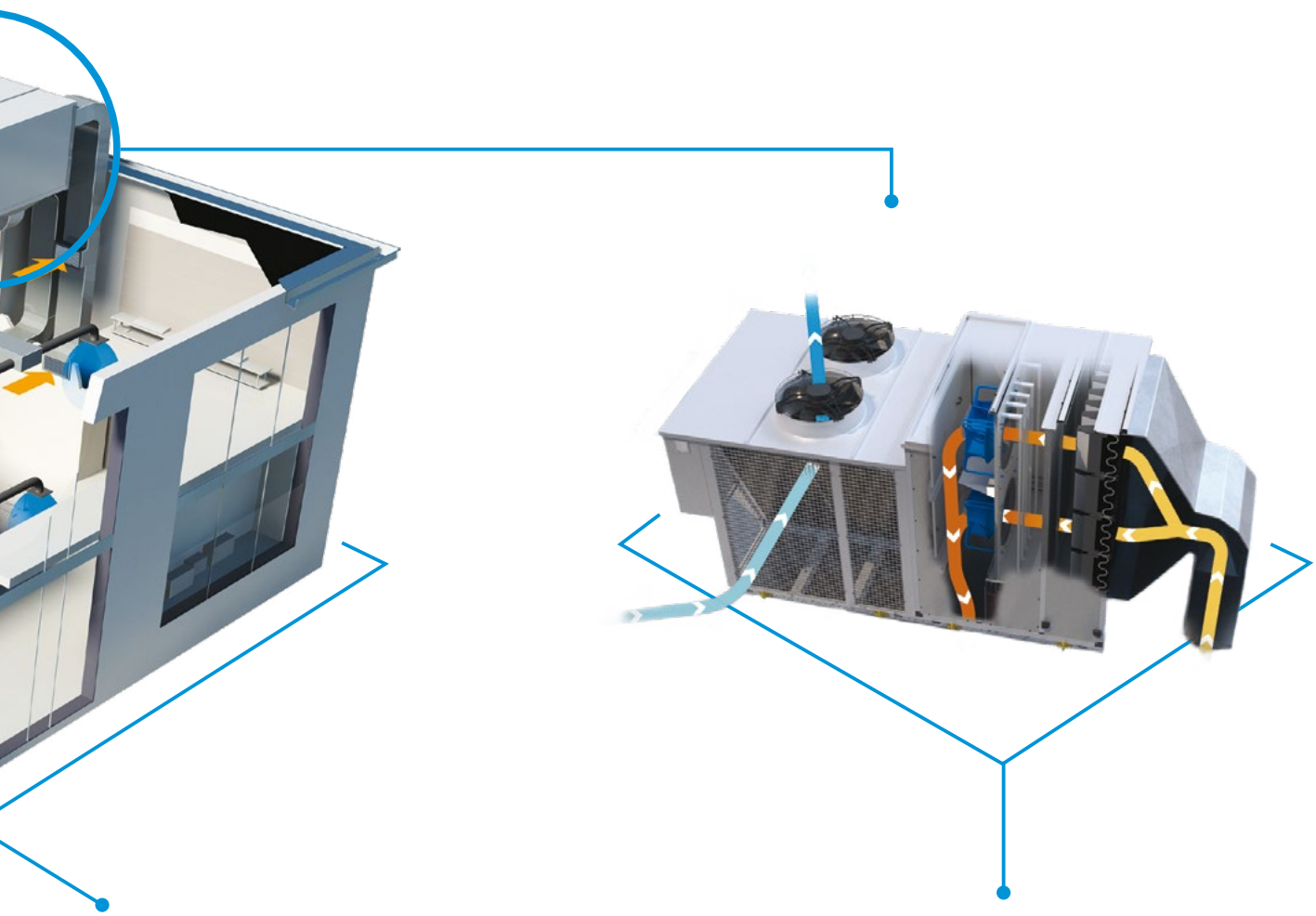
Flexible to suit your application



Rooftop for Retail & Department Stores

Retail & department stores need challenging design because of **limited space and complex building structure, containing different floors and spaces.** Daikin rooftops provide the solution:

- Ductwork can be connected flexibly to optimize installation space.
- High efficiency EC plug fans are maintenance free, limiting the downtime of the system for maintenance.
- Extraction damper and fan ensure there is no overpressure in the building and air circulation is optimised.
- High indoor air quality can be guaranteed thanks to integrated fresh air provision and multiple air filtration possibilities.



Supply and extract ducting ensures even distribution in the building.

Plug & play installation as indoor and outdoor are in one package.

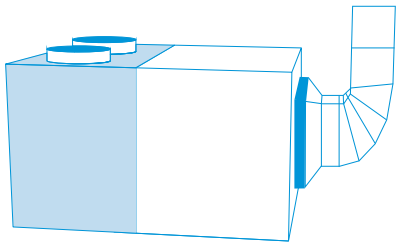
Rooftop for Warehouses & Industry

For building managers and engineers, warehouses or industrial applications can pose serious HVAC **challenges because of their size and unique design.** Daikin rooftops provide the solution:

- Indoor/outdoor packaged unit and factory charged refrigerant provide cost-effective installation.
- High ESP up to 800Pa allows extensive ductwork to evenly distribute the air across a large space.
- Scroll compressor and free cooling ensure highly efficient 24/7 operation.
- Clogged filter alarm indicates when filter needs cleaning, ensuring optimum operation and minimized energy consumption.

Wide range of R-32 rooftop units to cover your needs

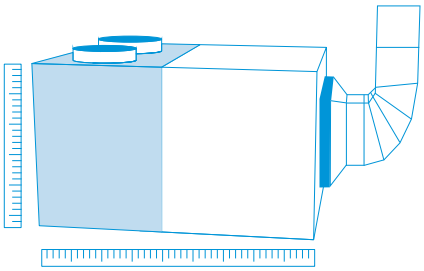
Made-To-Stock units (MTS)



48 predefined units readily available from stock

- Fast delivery
- 3 versions: Base, 2 dampers and 3 dampers
  - Thermodynamic heat recovery available on full FC3 range
- Capacity up to 190 kW!
- Comes with a wide range of standard integrated features

Made-To-Order units (MTO)



Fully customizable units for maximum flexibility

- Almost infinite configuration possibilities thanks to wide choice of options
- 4 versions: Base, 2 dampers, 3 dampers and 4 dampers
  - Thermodynamic heat recovery available on full FC3 range
  - Premium efficiency plate heat exchanger available on RS4 range
- Capacity up to 190 kW!
- Comes with a wide range of standard integrated features
- Easy selection via selection software: rooftop.daikin.eu

Products overview rooftops

Capacity class (kW)

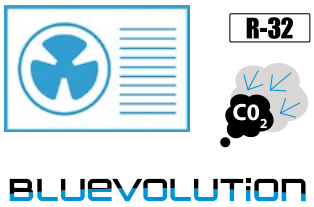
Type	Model	MTS Product name	Refrigerant	Version	25	30	40	50	60	70	80	90	100	110	120	140	150	160	180	190
Air cooled Heat pump	Rooftop unit With extensive base package for high installation flexibility and easy servicing • 'Plug and play' for easy installation • High efficiency • Flexible supply and return air direction • Direct integration with Daikin or third party BMS • Factory pre-charged refrigerant	UATYA-BBAY1	R-32	MTS MTO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rooftop unit 2 damper version with integrated fresh air • Free cooling with up to 100% fresh air intake • Comes with all Base model features	UATYA-BFC2Y1		MTS MTO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rooftop unit 3 damper version with integrated fresh air and extraction • Integrated extraction damper eliminates over-pressure • Thermodynamic heat recovery, recovering waste heat • Comes with all FC2 model features	UATYA-BFC3Y1		MTS MTO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rooftop unit 4 damper version with integrated fresh air, extraction and plate heat exchanger • Premium efficiency plate heat exchanger, recovering waste heat • Comes with all FC3 model features	UATYA-BRS4*		MTO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

* Indicative model name. Correct model name to be retrieved from selection software.

Standard integrated features on all Made-To-Stock and Made-To-Order units

1 | R-32 refrigerant

- Top sustainability thanks to the use of low GWP (675) refrigerant
- Single component refrigerant, easy to re-use and recycle



BLUEVOLUTION

2 | Inverter driven compressors

- Great year-round seasonal efficiency
- Available up to 120 kW models

3 | Capacity range up to 190 kW!

- More flexibility to tackle larger projects with a small footprint

4 | 25 mm double skinned panels

- Ensuring long-lasting life and providing good thermal and sound insulation

5 | Full color touch display

- Intuitive to use
- Better visualisation of unit parameters

6 | Integrated connectivity

- Integration into Daikin intelligent Touch Manager BMS (via BACNET protocol)
- Integration in 3rd party BMS systems via Ethernet port (BACnet TCP/IP & Modbus TCP/IP) or 3-cable port (Modbus over RS485)

7 | Selection software

- Easy selection of the correction unit and options based on location conditions
- Direct availability of technical drawings

Select and configure your rooftop now!
rooftop.daikin.eu

8 | BIM objects

- All made to stock units available as Revit, IFC, Archicad and AutoCAD files
- All made to order units available as Revit

Revit
IFC
Archicad
AutoCAD

Download our objects now!
bim.daikin.eu

More standard integrated features

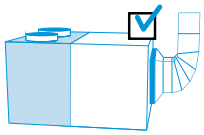
- ISO Coarse 75% filter (G4) (standard for MTS only)
- Standard clogged filter alarm
- Flexible air delivery
- Hydrophilic aluminum fins on indoor and outdoor unit side
- Mesh coil guard on outdoor heat exchanger
- Factory mounted drain pan with heater
- Single operation voltage-free contact
- Power supply connection safety through max/min voltage relay and reversed phase connection

4 versions to choose from

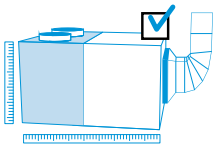
UATYA-BBAY1

High installation flexibility and easy servicing

- Easy to install 'plug and play' concept plus single installation configuration; no additional piping is required since indoor and outdoor sides are pre-connected
- High efficiency and reliable scroll compressor
- Factory pre-charged refrigerant ensures clean and efficient operation

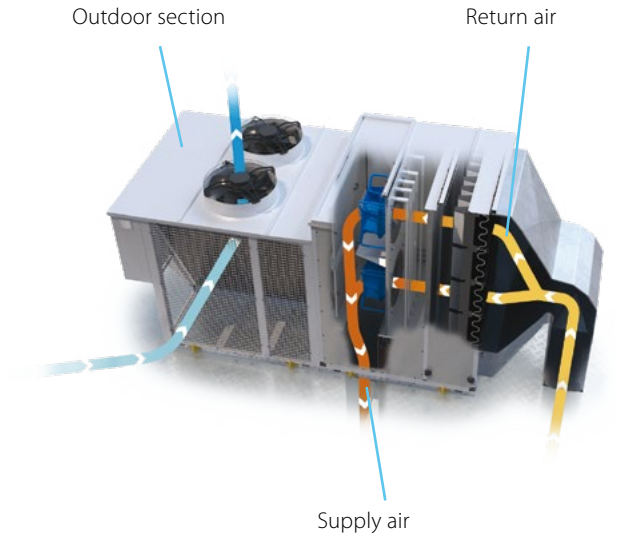


Made-To-Stock units (MTS)



Made-To-Order units (MTO)

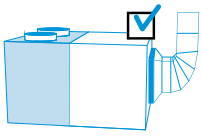
Heating operation example



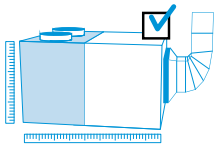
UATYA-BFC2Y1

2 damper version, with integrated fresh air

- Free cooling with up to 100% fresh air possible
  - Improved air quality
  - Energy saving using fresh outdoor air to cool the building
- Includes all Base model features

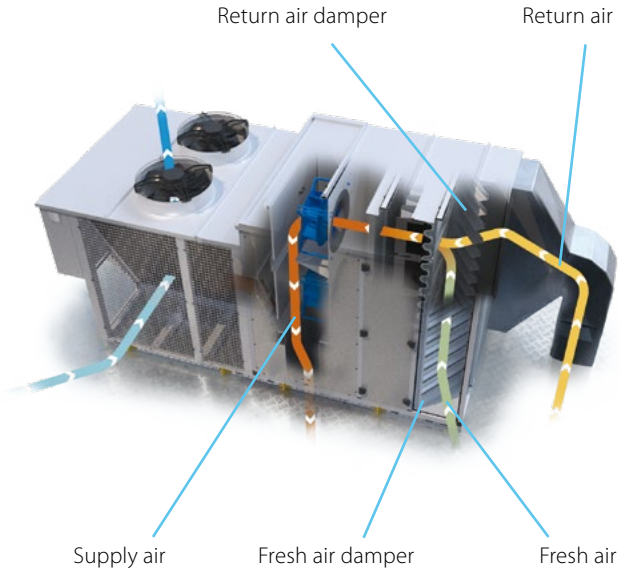


Made-To-Stock units (MTS)



Made-To-Order units (MTO)

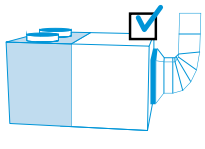
Heating operation example



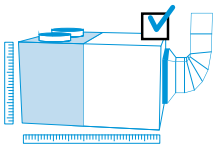
UATYA-BFC3Y1

3 damper version, with integrated fresh air and extraction

- Extraction damper integrated
  - Eliminates excessive overpressure in the building
  - Including high efficient extraction fan for optimum air circulation in larger buildings
- Thermodynamic heat recovery
  - Saves energy by recovering waste heat through the outdoor heat exchanger
  - Available on all models
- Includes all FC2 model features

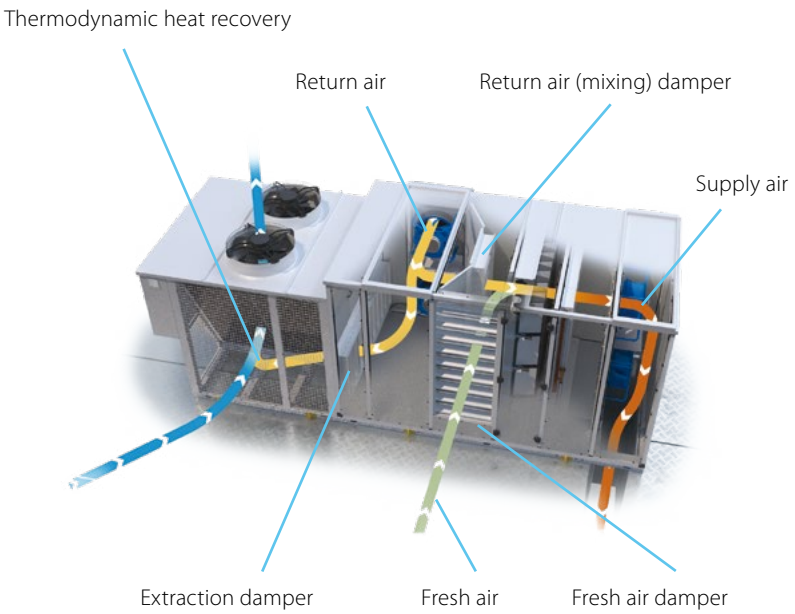


Made-To-Stock units (MTS)



Made-To-Order units (MTO)

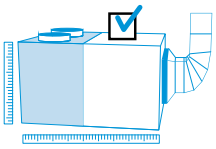
Heating operation example



UATYA-BRS4*

4 damper version, with integrated fresh air, extraction and plate heat recovery

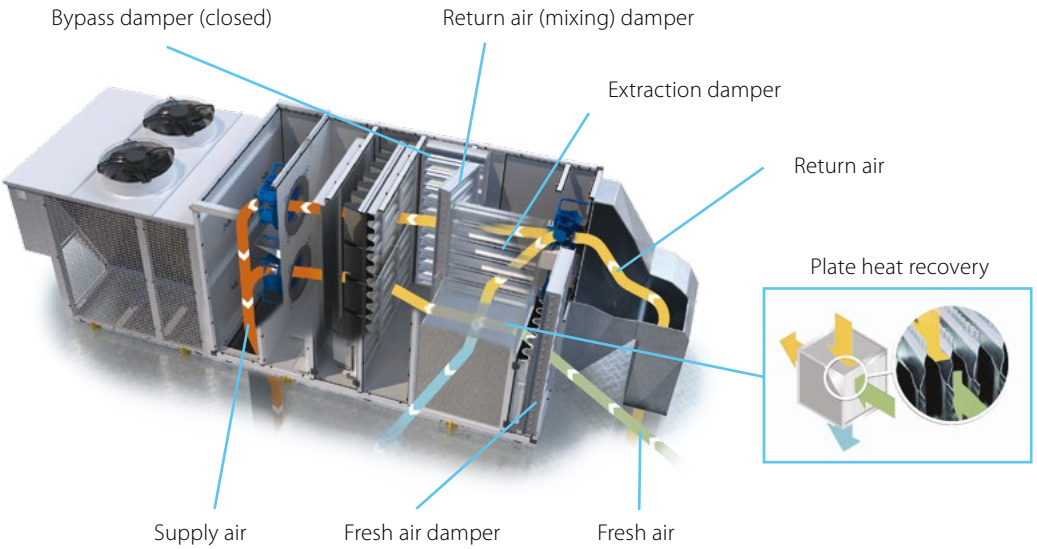
- Premium efficiency counter flow plate heat exchanger
  - Recovers up to 58% waste heat from the return air
  - Available in 50% and 100% return air heat recovery
- Bypass damper to allow plate heat exchange or free cooling
- Additional thermodynamic heat recovery available up to 50 kW models
- Includes all FC3 model features
- Only available as Made-To-Order model



Made-To-Order units (MTO) only

* Indicative model name. Correct model name to be retrieved from selection software.

Plate heat recovery mode in heating operation



Specifications Made-To-Stock units

UATYA-BBAY1

UATYA20-30BBAY1

UATYA-BBAY1

Indoor Unit					UATYA	25	30	40	50	60	70	80	90	100	110	120	140	150	160	180	190
Cooling capacity	Nom.				kW	24,1	31,3	38,7	45,7	58,8	65,3	74,8	89,8	95,8	108,9	115,0	133,4	144,7	154,6	171,9	187,0
Heating capacity	Nom.				kW	24,0	29,5	36,3	46,2	55,1	64,9	68,5	84,2	92,8	101,5	108,0	123,1	136,4	147,1	157,1	176,9
EER						2,83	3,09	3,06	2,96	3,12	2,92	3,09	3,06	2,97	2,99	2,91	3,14	3,02	3,05	3,07	2,97
COP						3,22	3,31	3,26	3,24	3,25	3,21	3,37	3,22	3,20	3,35	3,25	3,44	3,33	3,26	3,33	3,27
Space cooling	Capacity	Pdesign			kW	24,1	31,3	38,7	45,7	58,8	65,3	74,8	89,8	95,8	108,9	115,0	133,4	144,7	154,6	171,9	187,0
	SEER					4,52	4,79	5,39	5,26	5,50	4,53	5,56	5,47	5,17	5,29	5,15	4,38	4,26	4,27	4,15	4,08
	ηs,c				%	177,8	188,6	212,5	207,0	217,1	178,1	219,4	215,8	203,7	208,6	203,0	172,1	167,2	167,6	162,8	160,2
Space heating (Average climate)	Capacity	Pdesign			kW	24,0	29,5	36,3	46,2	55,1	64,9	68,5	84,2	92,8	101,5	108,0	123,1	136,4	147,1	157,1	176,9
	SCOP/A					3,35	3,38	3,67	3,64	3,47	3,41	3,70	3,65	3,62	3,56	3,53	3,39	3,36	3,34	3,31	3,34
	ηs,h				%	131,0	132,2	143,6	142,7	135,6	133,5	145,2	143,0	141,6	139,3	138,3	132,5	131,4	130,8	129,5	130,6
Evaporator	Supply side	Air discharge direction				Bottom, Right, Left															
		Fan	Air flow rate		m^3/h	4.500	5.800	7.500	9.000	11.000	13.000	14.500	16.500	18.000	19.800	21.600	25.000	26.500	28.000	30.500	31.500
			Nominal ESP		Pa	300															
	Return side - Supply side	Air intake direction - Air discharge direction				Rear															
		Thermodynamic heat recovery - Air discharge direction				No															
	Fresh air - Supply side	Standard - Air discharge direction				No															
Condenser	Air flow rate	Cooling			m^3/h	15.725	16.038	16.374	16.341	31.183	32.203	35.774	37.285	36.195	38.143	36.865	70.704	72.395	67.733	70.200	72.005
	Refrigerant	GWP				675															
		Charge			kg	7,0	10,0	12,0	15,0	18,0		23,0	24,0	28,0	30,0	36,0	38,0		46,0	50,0	
Dimensions	Unit	Height			mm	1.924		2.374		1.924		2.374									
		Width			mm	2.250															
		Depth			mm	2.427				4.317							5.117				
Weight	Unit				kg	852	908	966	986	1.551	1.651	1.798	1.856	1.922	2.008	2.018	2.454	2.462	2.504	2.558	2.636
Casing	Colour					RAL 7035															
Sound pressure level	Cooling				dBA	63,9	66,0	68,0	67,3	69,0	68,1	72,6	68,7	69,9	70,6	74,2	68,3		68,7	69,1	70,0
Sound power level	Cooling				dBA	82,2	84,3	86,8	86,1	88,5	87,5	92,5	88,6	89,8	90,5	94,1	88,6		89,0	89,3	90,2
Operation range	Cooling	Min. ~ Max.			°CDB	-10 ~ 48															
	Heating	Min. ~ Max.			°CWB	-15 ~ 26															
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400															
Current	Recommended fuses				A	25	40		50		63	80	100				160			200	

UATYA-BFC2Y1

UATYA60-70BFC2Y1

UATYA-BFC2Y1

Indoor Unit					UATYA	25	30	40	50	60	70	80	90	100	110	120	140	150	160	180	190
Cooling capacity	Nom.				kW	24,1	31,3	38,7	45,7	58,8	65,3	74,8	89,8	95,8	108,9	115,0	133,4	144,7	154,6	171,9	187,0
	With 30% fresh air				kW	25,8	33,6	41,5	48,9	63,0	69,9	80,7	96,6	102,7	117,0	122,7	143,1	154,9	165,7	184,2	200,5
Heating capacity	Nom.				kW	24,0	29,5	36,3	46,2	55,1	64,9	68,5	84,2	92,8	101,5	108,0	123,1	136,4	147,1	157,1	176,9
	With 30% fresh air				kW	24,3	29,6	36,5	46,3	55,1	65,1	69,2	84,7	94,8	102,1	108,7	124,2	137,5	148,4	158,7	180,2
EER						2,83/2,96	3,09/3,26	3,06/3,21	2,96/3,10	3,12/3,28	2,92/3,06	3,09/3,26	3,06/3,24	2,97/3,13	2,99/3,13	2,91/3,03	3,14/3,29	3,02/3,16	3,05/3,19	3,07/3,21	2,97/3,10
COP						3,22/3,43	3,31/3,53	3,26/3,48	3,24/3,51	3,25/3,47	3,21/3,44	3,37/3,62	3,22/3,47	3,20/3,46	3,35/3,60	3,25/3,48	3,44/3,69	3,33/3,57	3,26/3,50	3,33/3,58	3,27/3,55
Space cooling	Capacity	Pdesign			kW	24,1	31,3	38,7	45,7	58,8	65,3	74,8	89,8	95,8	108,9	115,0	133,4	144,7	154,6	171,9	187,0
	SEER					4,52	4,79	5,39	5,26	5,50	4,53	5,56	5,47	5,17	5,29	5,15	4,38	4,26	4,27	4,15	4,08
	ηs,c				%	177,8	188,6	212,5	207,0	217,1	178,1	219,4	215,8	203,7	208,6	203,0	172,1	167,2	167,6	162,8	160,2
Space heating (Average climate)	Capacity	Pdesign			kW	24,0	29,5	36,3	46,2	55,1	64,9	68,5	84,2	92,8	101,5	108,0	123,1	136,4	147,1	157,1	176,9
	SCOP/A					3,35	3,38	3,67	3,64	3,47	3,41	3,70	3,65	3,62	3,56	3,53	3,39	3,36	3,34	3,31	3,34
	ηs,h				%	131,0	132,2	143,6	142,7	135,6	133,5	145,2	143,0	141,6	139,3	138,3	132,5	131,4	130,8	129,5	130,6
Evaporator	Supply side	Air discharge direction				Frontal, Left				Bottom, Right, Left											
		Fan	Air flow rate		m^3/h	4.500	5.800	7.500	9.000	11.000	13.000	14.500	16.500	18.000	19.800	21.600	25.000	26.500	28.000	30.500	31.500
			Nominal ESP		Pa	300															
	Return side - Supply side	Air intake direction - Air discharge direction				Rear, Left, Right															
		Thermodynamic heat recovery - Air discharge direction				No															
	Fresh air - Supply side	Standard - Air discharge direction				Yes															
	Fresh air	Ratio	Standard		%	30															
			In free cooling		%	100															
Condenser	Air flow rate	Cooling			m^3/h	15.725	16.038	16.374	16.341	31.183	32.203	35.774	37.285	36.195	38.143	36.865	70.704	72.395	67.733	70.200	72.005
	Refrigerant	GWP				675															
		Charge			kg	7,0	10,0	12,0	15,0	18,0		23,0	24,0	28,0	30,0	36,0	38,0		46,0	50,0	
Dimensions	Unit	Height			mm	1.924		2.374		1.924		2.374									
		Width			mm	2.250															
		Depth			mm	2.943				4.879							5.679				
Weight	Unit				kg	981	1.014	1.084	1.143	1.703	1.803	1.984	2.040	2.110	2.196	2.206	2.658	2.668	2.708	2.746	2.828
Casing	Colour					RAL 7035															
Sound pressure level	Cooling				dBA	63,9	66,0	68,0	67,3	69,0	68,1	72,6	68,7	69,9	70,6	74,2	68,3		68,7	69,1	70,0
Sound power level	Cooling				dBA	82,2	84,3	86,8	86,1	88,5	87,5	92,5	88,6	89,8	90,5	94,1	88,6		89,0	89,3	90,2
Operation range	Cooling	Min. ~ Max.			°CDB	-10 ~ 48															
	Heating	Min. ~ Max.			°CWB	-15 ~ 26															
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400															
Current	Recommended fuses				A	25	40		50		63	80	100				160			200	

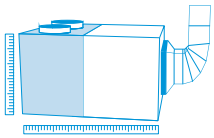
UATYA-BFC3Y1

UATYA80-120BFC3Y1

UATYA-BFC3Y1

Indoor Unit					UATYA	25	30	40	50	60	70	80	90	100	110	120	140	150	160	180	190
Cooling capacity	Nom.				kW	24,1	31,3	38,7	45,7	58,8	65,3	74,8	89,8	95,8	108,9	115,0	133,4	144,7	154,6	171,9	187,0
	With 30% fresh air				kW	26,0	33,9	42,5	49,6	63,7	70,5	81,3	96,8	104,3	118,0	124,5	145,6	156,8	168,3	186,5	204,4
Heating capacity	Nom.				kW	24,0	29,5	36,3	46,2	55,1	64,9	68,5	84,2	92,8	101,5	108,0	123,1	136,4	147,1	157,1	176,9
	With 30% fresh air				kW	25,0	31,0	38,3	47,7	57,1	68,6	71,6	87,2	97,9	107,0	112,3	132,0	147,5	160,0	173,5	191,6
EER						2,83/2,96	3,09/3,20	3,06/3,27	2,96/3,12	3,12/3,23	2,92/3,00	3,09/3,21	3,06/3,22	2,97/3,14	2,99/3,11	2,91/3,01	3,14/3,26	3,02/3,14	3,05/3,18	3,07/3,21	2,97/3,14
COP						3,22/3,41	3,31/3,50	3,26/3,51	3,24/3,46	3,25/3,40	3,21/3,39	3,37/3,56	3,22/3,45	3,20/3,42	3,35/3,57	3,25/3,40	3,44/3,62	3,33/3,57	3,26/3,49	3,33/3,63	3,27/3,50
Space cooling	Capacity	Pdesign			kW	24,1	31,3	38,7	45,7	58,8	65,3	74,8	89,8	95,8	108,9	115,0	133,4	144,7	154,6	171,9	187,0
	SEER					4,52	4,79	5,39	5,26	5,50	4,53	5,56	5,47	5,17	5,29	5,15	4,38	4,26	4,27	4,15	4,08
	ηs,c				%	177,8	188,6	212,5	207,0	217,1	178,1	219,4	215,8	203,7	208,6	203,0	172,1	167,2	167,6	162,8	160,2
Space heating (Average climate)	Capacity	Pdesign			kW	24,0	29,5	36,3	46,2	55,1	64,9	68,5	84,2	92,8	101,5	108,0	123,1	136,4	147,1	157,1	176,9
	SCOP/A					3,35	3,38	3,67	3,64	3,47	3,41	3,70	3,65	3,62	3,56	3,53	3,39	3,36	3,34	3,31	3,34
	ηs,h				%	131,0	132,2	143,6	142,7	135,6	133,5	145,2	143,0	141,6	139,3	138,3	132,5	131,4	130,8	129,5	130,6
Evaporator	Supply side	Air discharge direction				Frontal, Left				Bottom, Right, Left, Frontal											
		Fan	Air flow rate		m^3/h	4.500	5.800	7.500	9.000	11.000	13.000	14.500	16.500	18.000	19.800	21.600	25.000	26.500	28.000	30.500	31.500
			Nominal ESP		Pa	300															
	Return side - Supply side	Air intake direction - Air discharge direction				Rear				Right											
	Return side	Fan	Air flow rate		m^3/min	4.500	5.800	7.500	9.000	11.000	13.000	14.500	16.500	18.000	19.800	21.600	25.000	26.500	28.000	30.500	31.500
			Nominal ESP		Pa	300															
	Return side - Supply side	Thermodynamic heat recovery - Air discharge direction				Yes															
	Fresh air - Supply side	Standard - Air discharge direction				Yes															
	Fresh air	Ratio	Standard		%	30															
			In free cooling		%	100															
Condenser	Air flow rate	Cooling			m^3/h	15.725	16.038	16.374	16.341	31.183	32.203	35.774	37.285	36.195	38.143	36.865	70.704	72.395	67.733	70.200	72.005
	Refrigerant	GWP				675															
		Charge			kg	7,0	10,0	12,0	15,0	18,0		23,0	24,0	28,0	30,0	36,0	38,0		46,0	50,0	
Dimensions	Unit	Height			mm	1.924		2.374		1.924		2.374									
		Width			mm	2.250															
		Depth			mm	3.514				6.317							7.117				
Weight	Unit				kg	1.166	1.196	1.310	1.329	1.996	2.094	2.336	2.382	2.452	2.548	2.558	3.024	3.035	3.074	3.192	3.271
Casing	Colour					RAL 7035															
Sound pressure level	Cooling				dBA	63,9	66,0	68,0	67,3	69,0	68,1	72,6	68,7	69,9	70,6	74,2	68,3		68,7	69,1	70,0
Sound power level	Cooling				dBA	82,2	84,3	86,8	86,1	88,5	87,5	92,5	88,6	89,8	90,5	94,1	88,6		89,0	89,3	90,2
Operation range	Cooling	Min. ~ Max.			°CDB	-10 ~ 48															
	Heating	Min. ~ Max.			°CWB	-15 ~ 26															
Power supply	Phase/Frequency/Voltage				Hz/V	3~/50 /400															
Current	Recommended fuses				A	25	40		50		63	80	100				160			200	

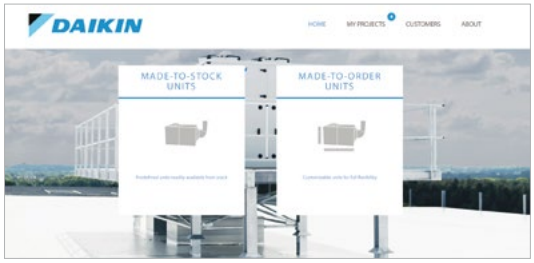
Specifications Made-To-Order units



All naming in the tables above is valid for Made-To-Stock units only.

For specifications and configuration of Made-To-Order units refer to our selection software.

Select and configure your rooftop now!
rooftop.daikin.eu



Field Applied **Accessories** For **Made-To-Stock** Units

		BASE series (UATYA-BBAY1)					FC2 series (UATYA-BFC2Y1)						FC3 series (UATYA-BFC3Y1)						
		25-30	40-50	60-70	80-120	140-190	25-30	40 - 50	60-70	80-90	100-120	140-190	25-30	40-50	60-70	80-100	110-120	140-180	190
Air treatment	Filter ISO Coarse 75% (G4)	2x UATYAC75A + 2x UATYAC75B (Standard for MTS)	3x UATYAC75A + 3x UATYAC75B (Standard for MTS)	6x UATYAC75B (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	2x UATYAC75A + 2x UATYAC75B (Standard for MTS)	3x UATYAC75A + 3x UATYAC75B (Standard for MTS)	6x UATYAC75B (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	2x UATYAC75A + 2x UATYAC75B (Standard for MTS)	3x UATYAC75A + 3x UATYAC75B (Standard for MTS)	6x UATYAC75B (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)	12x UATYAC75C (Standard for MTS)
	Filter ISO ePM10 50% (M5/F5)	2x UATYAEP-M1050A + 2x UATYAE-PM1050B	3x UATYAEP-M1050A + 3x UATYAE-PM1050B	3x UATYAEP-M1050B	12x UATYAEP-M1050C	12x UATYAEP-M1050C	2x UATYAEP-M1050A + 2x UATYAE-PM1050B	3x UATYAEP-M1050A + 3x UATYAE-PM1050B	3x UATYAEP-M1050B	12x UATYAEP-M1050C	12x UATYAEP-M1050C	12x UATYAEP-M1050C	2x UATYAEP-M1050A + 2x UATYAE-PM1050B	3x UATYAEP-M1050A + 3x UATYAE-PM1050B	3x UATYAEP-M1050B	12x UATYAEP-M1050C	12x UATYAEP-M1050C	12x UATYAEP-M1050C	12x UATYAEP-M1050C
	Filter ISO ePM10 75% (M6)	2x UATYAEPM-1075PA + 2x UATYAEP-M1075PB	3x UATYAEPM-1075PA + 3x UATYAEP-M1075PB	3x UATYAEP-M1075PB	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	2x UATYAEPM-1075PA + 2x UATYAEP-M1075PB	3x UATYAEPM-1075PA + 3x UATYAEP-M1075PB	3x UATYAEP-M1075PB	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	2x UATYAEPM-1075PA + 2x UATYAEP-M1075PB	3x UATYAEPM-1075PA + 3x UATYAEP-M1075PB	3x UATYAEP-M1075PB	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC	12x UATYAEP-M1075PC
	Filter ISO ePM1 50% (F7)	2x UATYAEPM-150PA + 2x UATYAEP-M150PB	3x UATYAEPM-150PA + 3x UATYAEP-M150PB	3x UATYAEP-M150PB	12x UATYAEP-M150PC	12x UATYAEP-M150PC	2x UATYAEPM-150PA + 2x UATYAEP-M150PB	3x UATYAEPM-150PA + 3x UATYAEP-M150PB	3x UATYAEP-M150PB	12x UATYAEP-M150PC	12x UATYAEP-M150PC	12x UATYAEP-M150PC	2x UATYAEPM-150PA + 2x UATYAEP-M150PB	3x UATYAEPM-150PA + 3x UATYAEP-M150PB	3x UATYAEP-M150PB	12x UATYAEP-M150PC	12x UATYAEP-M150PC	12x UATYAEP-M150PC	12x UATYAEP-M150PC
	Rigid bag filter ISO ePM10 75% (M6)	2x UATYAEP-M1075A + 2x UATYAE-PM1075B	3x UATYAEP-M1075A + 3x UATYAE-PM1075B	6x UATYAEP-M1075B	12x UATYAEP-M1075C	12x UATYAEP-M1075C	2x UATYAEP-M1075A + 2x UATYAE-PM1075B	3x UATYAEP-M1075A + 3x UATYAE-PM1075B	6x UATYAEP-M1075B	12x UATYAEP-M1075C	12x UATYAEP-M1075C	12x UATYAEP-M1070C	2x UATYAEP-M1075A + 2x UATYAE-PM1075B	3x UATYAEP-M1075A + 3x UATYAE-PM1075B	6x UATYAEP-M1075B	12x UATYAEP-M1075C	12x UATYAEP-M1075C	12x UATYAEP-M1075C	12x UATYAEP-M1075C
	Rigid bag filter ISO ePM1 50% (F7)	2x UATYAEP-M150A + 2x UATYAE-PM150B	3x UATYAEP-M150A + 3x UATYAE-PM150B	6x UATYAEP-M150B	12x UATYAEP-M150C	12x UATYAEP-M150C	2x UATYAEP-M150A + 2x UATYAE-PM150B	3x UATYAEP-M150A + 3x UATYAE-PM150B	6x UATYAEP-M150B	12x UATYAEP-M150C	12x UATYAEP-M150C	12x UATYAEP-M150C	2x UATYAEP-M150A + 2x UATYAE-PM150B	3x UATYAEP-M150A + 3x UATYAE-PM150B	6x UATYAEP-M150B	12x UATYAEP-M150C	12x UATYAEP-M150C	12x UATYAEP-M150C	12x UATYAEP-M150C
	Rigid bag filter ISO ePM1 85% (F9)	2x UATYAEP-M185A + 2x UATYAE-PM185B	3x UATYAEP-M185A + 3x UATYAE-PM185B	6x UATYAEP-M185B	12x UATYAEP-M185C	12x UATYAEP-M185C	2x UATYAEP-M185A + 2x UATYAE-PM185B	3x UATYAEP-M185A + 3x UATYAE-PM185B	6x UATYAEP-M185B	12x UATYAEP-M185C	12x UATYAEP-M185C	12x UATYAEP-M185C	2x UATYAEP-M185A + 2x UATYAE-PM185B	3x UATYAEP-M185A + 3x UATYAE-PM185B	6x UATYAEP-M185B	12x UATYAEP-M185C	12x UATYAEP-M185C	12x UATYAEP-M185C	12x UATYAEP-M185C
Control	**UATYACO2P** - Duct air quality CO_2 probe	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	UATYACAP - Constant air pressure control airflow transducer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	UATYAWRC - Remote touch screen wired remote controller	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	UATYARRP - Room temperature return probe (incl. housing)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	UATYASA - Fire and smoke alarm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Other	Rainproof hood with anti-intrusion grille	not possible	not possible	not possible	not possible	not possible	UATYARPH3	UATYARPH4	UATYARPH5	UATYARPH6	UATYARPH6	UATYARPH6	UATYARPH1	UATYARPH2	UATYARPH8	UATYARPH7	UATYARPH7	UATYARPH7	UATYARPH7
	Rubber antivibration mounts	2x UATYAAVM1	2x UATYAAVM1	2x UATYAAVM1 + 1x UATYAAVM2	4x UATYAAVM1	2x UATYAAVM1 + 2x UATYAAVM2	2x UATYAAVM1	2x UATYAAVM1	3x UATYAAVM1 + 1x UATYAAVM2	4x UATYAAVM1	3x UATYAAVM1 + 1x UATYAAVM2	2x UATYAAVM1 + 2x UATYAAVM2	1x UATYAAVM1 + 1x UATYAAVM2	1x UATYAAVM1 + 2x UATYAAVM2	3x UATYAAVM1 + 1x UATYAAVM2	2x UATYAAVM1 + 2x UATYAAVM2	2x UATYAAVM1 + 2x UATYAAVM2	4x UATYAAVM1 + 1x UATYAAVM2	3x UATYAAVM1 + 2x UATYAAVM2
	Rubber antivibration mounts when gas heater is used	1x UATYAAVM1 + 1x UATYAAVM2	1x UATYAAVM1 + 1x UATYAAVM2	1x UATYAAVM1 + 2x UATYAAVM2	5x UATYAAVM1	5x UATYAAVM1	2x UATYAAVM1	1x UATYAAVM1 + 1x UATYAAVM2	4x UATYAAVM1	5x UATYAAVM1	5x UATYAAVM1	5x UATYAAVM1	1x UATYAAVM1 + 1x UATYAAVM2	2x UATYAAVM1 + 1x UATYAAVM2	4x UATYAAVM1	5x UATYAAVM1	4x UATYAAVM1 + 1x UATYAAVM2	3x UATYAAVM1 + 2x UATYAAVM2	3x UATYAAVM1 + 2x UATYAAVM2

Accessories description	Material name
Filter ISO Coarse 75% (G4)	UATYAC75A
Filter ISO Coarse 75% (G4)	UATYAC75B
Filter ISO Coarse 75% (G4)	UATYAC75C
Filter ISO ePM10 50% (M5/F5)	UATYAEPM1050A
Filter ISO ePM10 50% (M5/F5)	UATYAEPM1050B
Filter ISO ePM10 50% (M5/F5)	UATYAEPM1050C
Filter ISO ePM10 75% (M6)	UATYAEPM1075PA
Filter ISO ePM10 75% (M6)	UATYAEPM1075PB
Filter ISO ePM10 75% (M6)	UATYAEPM1075PC
Filter ISO ePM1 50% (F7)	UATYAEPM150PA
Filter ISO ePM1 50% (F7)	UATYAEPM150PB
Filter ISO ePM1 50% (F7)	UATYAEPM150PC
Rigid bag filter ISO ePM10 70%(M6)	UATYAEPM1070A
Rigid bag filter ISO ePM10 70%(M6)	UATYAEPM1070B
Rigid bag filter ISO ePM10 70%(M6)	UATYAEPM1070C
Rigid bag filter ISO ePM1 50% (F7)	UATYAEPM150A
Rigid bag filter ISO ePM1 50% (F7)	UATYAEPM150B
Rigid bag filter ISO ePM1 50% (F7)	UATYAEPM150C
Rigid bag filter ISO ePM1 85% (F9)	UATYAEPM185A
Rigid bag filter ISO ePM1 85% (F9)	UATYAEPM185B
Rigid bag filter ISO ePM1 85% (F9)	UATYAEPM185C
Duct air quality CO_2 Probe	UATYACO2P

Accessories description	Material name
Airflow transducer	UATYACAP
Room return probe with housing included	UATYARRP
Smoke and Fire detector	UATYASA
Optional wired remote controller. Factory mounted controller is present on the unit	UATYAWRC
Rubber antivibration mounts	UATYAAVM1
Rubber antivibration mounts	UATYAAVM2
Rainproof hood	UATYARPH1
Rainproof hood	UATYARPH2
Rainproof hood	UATYARPH3
Rainproof hood	UATYARPH4
Rainproof hood	UATYARPH5
Rainproof hood	UATYARPH6
Rainproof hood	UATYARPH7
Rainproof hood	UATYARPH8

Wide choice of factory-mounted **options** on **Made-To-Order** units

Indoor air treatment

- Filters and rigid bag filters
  - Multistage filtration possible
  - From ISO Coarse 75% (G4) up to ISO ePM1 85% (F9)

- Auxiliary heat sources for additional or complementary heating
  - Gas burner
  - Electric coil
  - Hot water coil

- Pre-heater from heat recovery water coil, to recover waste heat from applications where heat is rejected

- Steam humidifier and post-heating

- Oversized and extraoversized supply and return radial EC plug fans to provide a higher ESP

- Spring return dampers in case of power failure and/or fire alarm

Outdoor air treatment

- Anticorrosion treatment on heat exchanger

- Standard or EC axial fan

- Softstarter on compressor for units ≥ 140 kW

- Soundproof compartment on compressor

Control options

- BMS gateway via Ethernet:
  - SNMP & Modbus TCP/IP (standard BACnet TCP/IP connection can not be used anymore)

- BMS gateway via 3-cable port:
  - BACnet MS/TP OR Lonworks (standard Modbus RS485 connection can not be used anymore)

Field applied **accessories** for **Made-To-Order** units

		MTO - BASE series	MTO - FC2 series	MTO - FC3 series	MTO - RS4 series
Control	**UATYACO2P** - Duct air quality CO_2 probe	•	•	•	•
	UATYACAP - Constant air pressure control airflow transducer	•	•	•	•
	UATYAWRC - Remote touch screen wired remote controller	•	•	•	•
	UATYARRP - Room temperature return probe (incl. housing)	•	•	•	•
	UATYASA - Fire and smoke detector	•	•	•	•
Other	Rubber antivibration mounts	• (1)	• (1)	• (1)	• (1)
	Rainproof hood with anti-intrusion grille	• (1)	• (1)	• (1)	• (1)

(1) Reference code to be selected in selection software

Applied Controls:

Intelligent Solutions for Seamless HVAC Integration

In today's dynamic HVAC landscape, intelligent control solutions are essential for maximising efficiency, ensuring reliability, and enhancing user comfort. Daikin's Applied Controls portfolio offers advanced control systems designed to seamlessly integrate with our chillers, air handling units, and fan coil units - optimising performance while reducing energy consumption and operational costs.

With intuitive user interfaces, smart monitoring, predictive maintenance, and remote management capabilities, our solutions provide the intelligence needed to adapt to evolving demands. Whether for commercial, industrial, or specialised applications, Applied Controls delivers precision, flexibility, and connectivity - empowering businesses to achieve superior climate control with ease.

Discover how Daikin's Applied Controls can elevate the performance and efficiency of your HVAC system.

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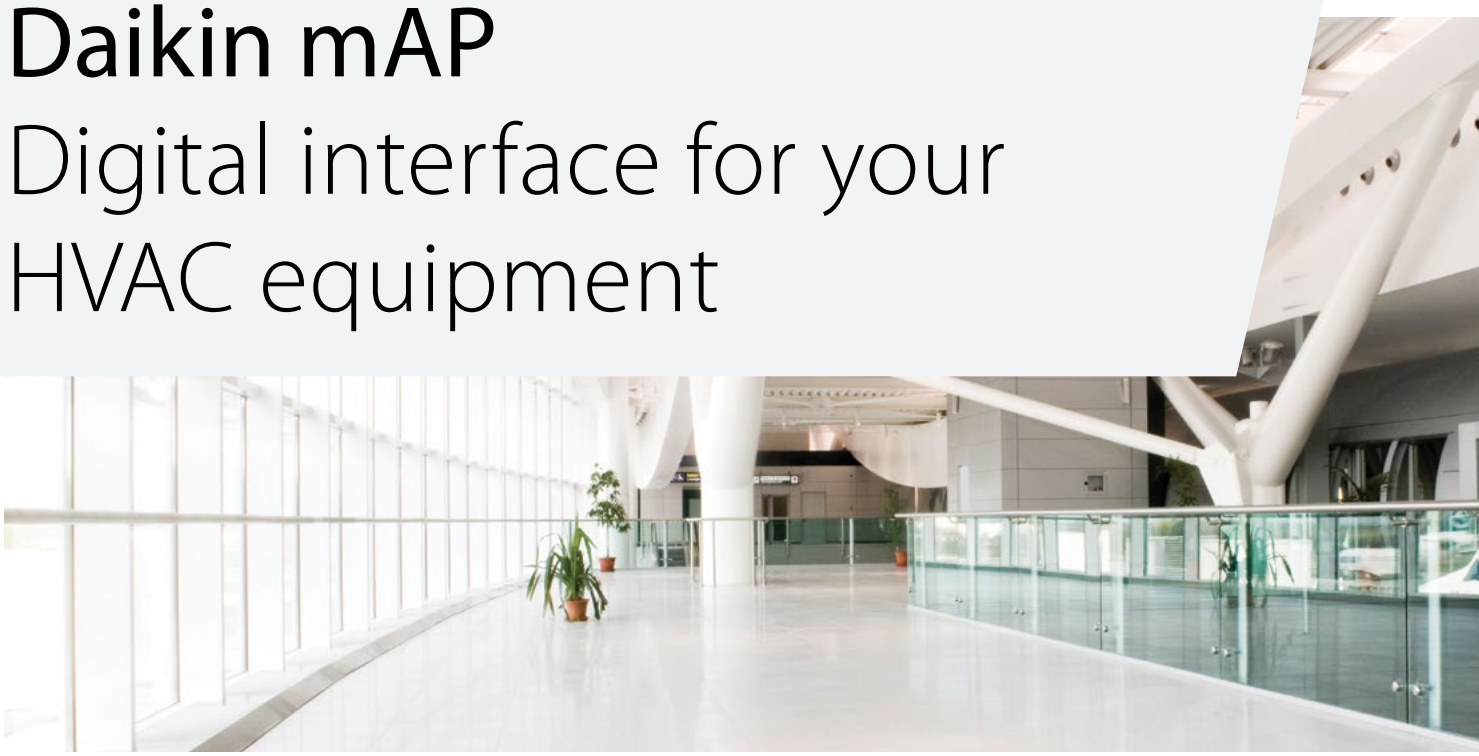
Daikin mAP
Digital interface for your HVAC equipment

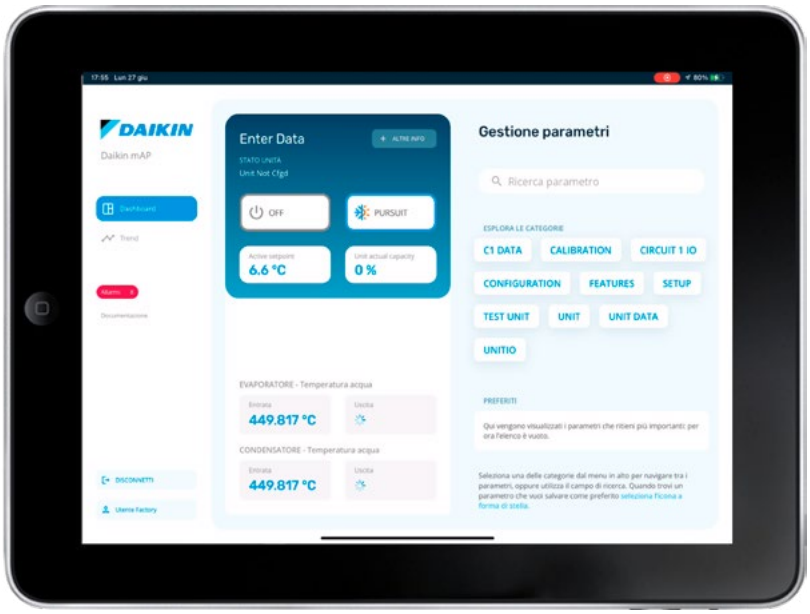


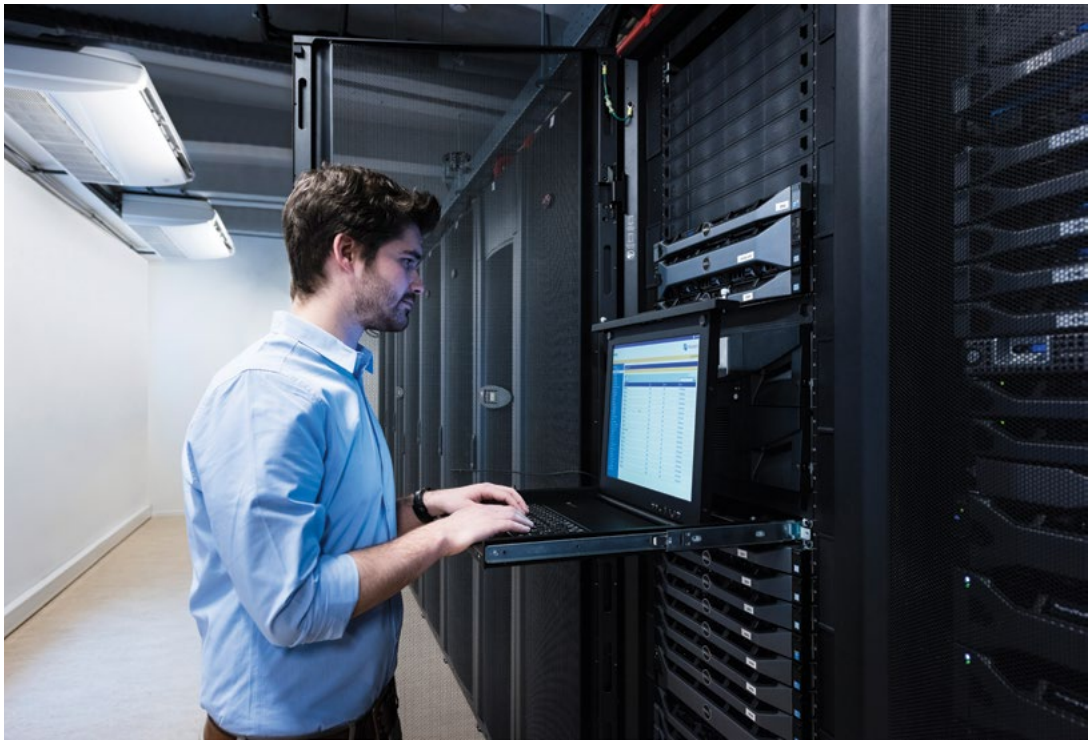
The Daikin mAP is the brand-new Digital HMI solution for all Daikin Applied products, designed to let end-users and technician operate easily and effectively from their smartphone or tablet while performing field activities.

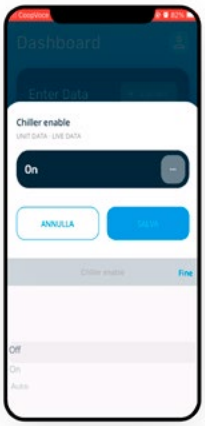
NEW

Digital Interface

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



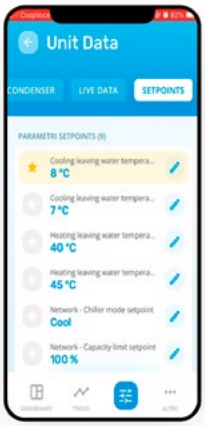




Control

Change settings and control parameters with more flexibility.

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



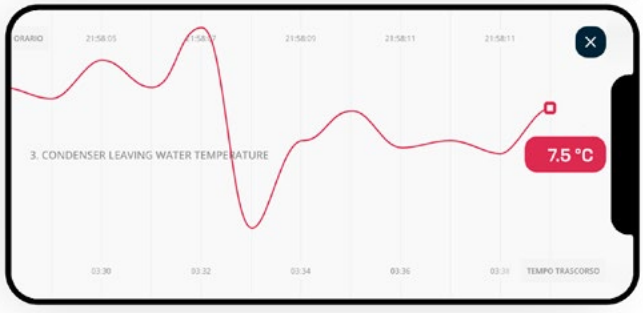
Select

Explore and search for a specific unit parameter.

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

Monitor

Start a live monitoring and trending of your preferred parameters



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

Smart
Control Systems (SCS)

System in numbers

main configurations

- Light
- Medium
- Full

8 advantages of SCS

20 product ranges covered

System overview

Smart Control System is an advanced solution for **managing hydronic HVAC systems, simplifying design, installation**, and **operation**. It enables the seamless integration of a complete Daikin solution, including chillers, heat pumps, air handling units (AHUs), and fan coils. The system is configured via an external panel that connects to the units using the Modbus protocol, ensuring **optimised communication and performance throughout the entire system**.

Available in **three configurations** - Light, Medium, and Full - it offers scalability in hardware, licensing, and pricing. Each version can manage **up to four chillers or heat pumps**, with a total cooling capacity of **up to 500 kW**, in addition to **supporting equipment such as fan coils and air handling units**.

- The **Light** configuration supports up to 500 data points
- The **Medium** configuration supports up to 1,250 data points
- The **Full** configuration supports up to 2,500 data points

All configurations allow for the management of multiple fan coil zones or AHUs, offering flexibility for various applications.

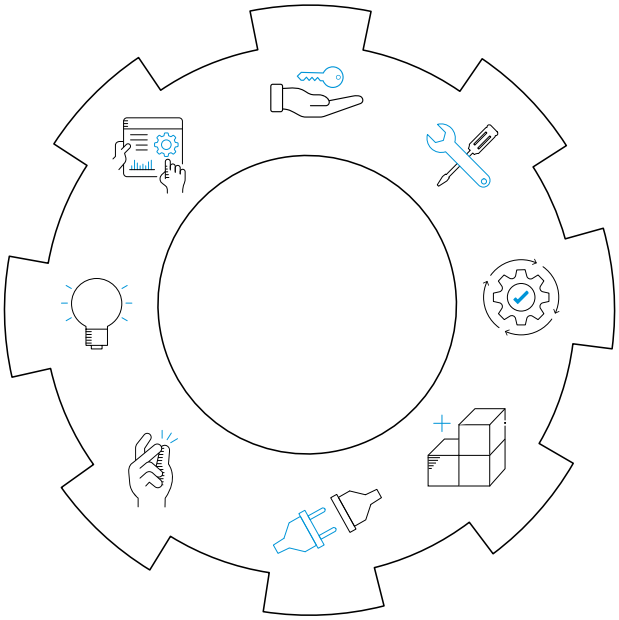
The Smart Control System supports a wide range of Daikin products, ensuring adaptability for different installations and use cases. These include **EWAT-CZ air-cooled chillers**, **EWYT-CZ air-to-water heat pumps**, and a variety of air handling units and **fan coils designed for decentralised ventilation systems**, available in multiple sizes and airflow capacities.

8 advantages of Smart Control System

Turnkey solution
It facilitates the work of plant designers and consultants

Plant operation optimisation
SCS determines the best working configuration for the units, prioritising comfort, system efficiency and running costs

Reliability & maintenance costs reduction
SCS optimises equipment performance by extending the life of the HVAC system and also reduces maintenance costs, including labour and spare parts



Highly competitive architecture
SCS is highly competitive with third-party control systems

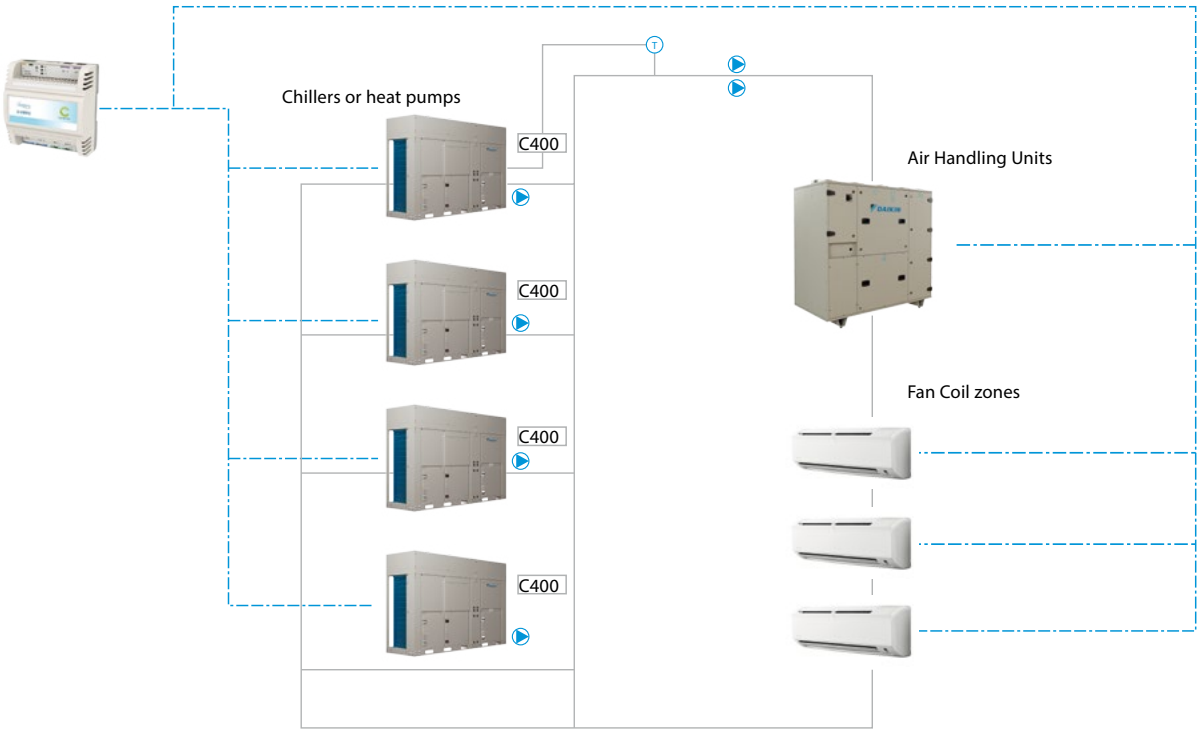
Optimum performance setup
It uses data from unit's sensors and controllers to improve performance

Fast & easy implementation
The Daikin technician can easily complete the setup during commissioning

Three configurations available:
Light - Medium - Full

Plug and play solution
It requires only the external panel and a few additional sensors for installation

Eligible to provide credits for BREEAM and LEED building protocols

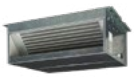


Product line-up

Fan Coil Units

Cassette
Cooling capacity: **1,3 - 10,5 kW**

Ducted
Cooling capacity: **0,9 kW - 17,6 kW**



Floor Standing
Cooling capacity: **1 - 8,18 kW**

Flexi
Cooling capacity: **1 - 8,18 kW**

Wall Mounted
Cooling capacity: **1,9 - 5,2 kW**

Air Cooled Chillers

EWAT-CZ
Cooling capacity range:
16 - 90 kW

Air-to-Water Heat Pump

EWYT-CZ
Cooling capacity range
16 - 90 kW

Heating capacity range
16 - 90 kW

Air Handling Units

Compact L
Air flow range
from 200 up to 4.000 m³/h

Compact T
Nominal Airflow
from 200 up to 4.200 m³/h

Applied
Control Systems

intelligent Chiller Manager

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

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

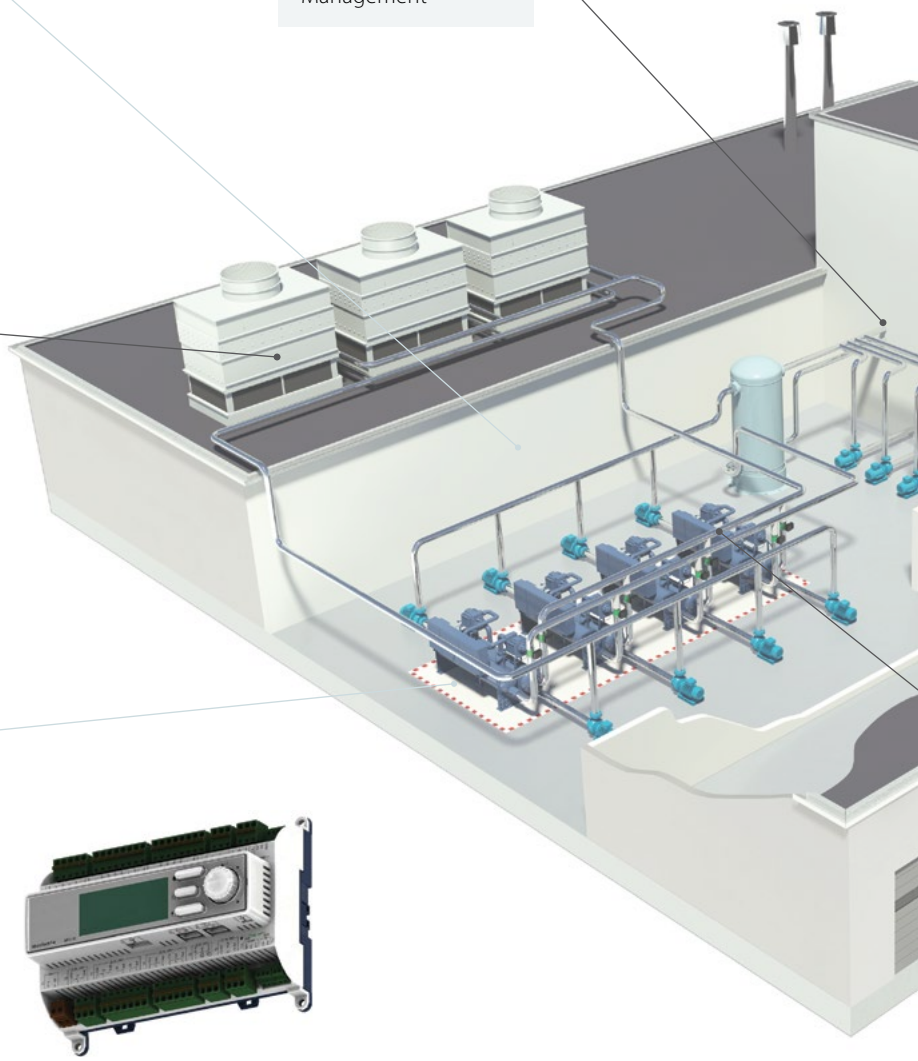
By reaching higher plant performance and efficiency levels, the intelligent Chiller Manager is the best and qualified solution for your HVAC equipment in a wide range of **Applications.**

Key Benefits

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

intelligent
SECONDARY CIRCUITS
Management

intelligent
COOLING TOWER
Management



Microtech® 4 Unit Controller

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

Daikin on Site

Daikin on Site is the unique solution for remote monitoring and smart maintenance. It allows a complete remote operation of every unit with different users and levels of access.
Daikin on site is fully compatible with All Daikin Applied Europe products and it can integrate **third-party products** like **IoT devices** (i.e. IAQ sensors).
Daikin has developed two offers called Daikin on Site: Partner and Daikin on Site: Premium.

- REMOTE MONITORING
- REPORTING
- ALARM TROUBLESHOOTING
- ENERGY ANALYSIS
- REFRIGERANT LEAKAGE DETECTION

intelligent
PUMP
Management

Building management system Integration

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

Performance Monitoring

With MT4, advanced algorithms implementation in the unit controller are possible, such as the **Performance Monitoring** (Option 186).
This **sensor-less algorithm** calculates the unit cooling capacity by using refrigerant pressure and temperature readings. Electrical power is calculated either from compressor VFD power and fan, or directly measured through optional energy meter. As a standard, **no extra-hardware is required.**

Factory-engineered system control to manage a chiller plant room

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

iCM's main functionalities:

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

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

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

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

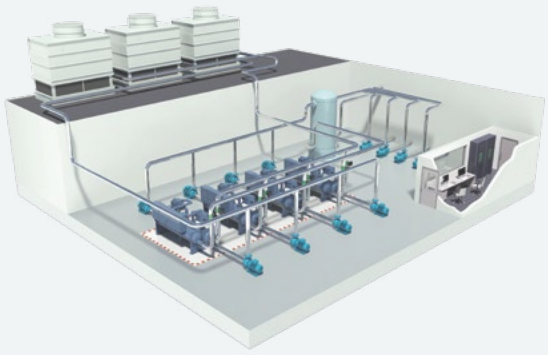
Min/Max Operating Chiller Setting
Ensures that the number of operating chillers always **stays within a certain range,** regardless of changes in demand.

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

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

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

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



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

Why choose iCM?

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

Remote control and monitoring possibilities

(valid for both Standard and Customised versions)

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

Integrated logics for Plant Management

Control strategies

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

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

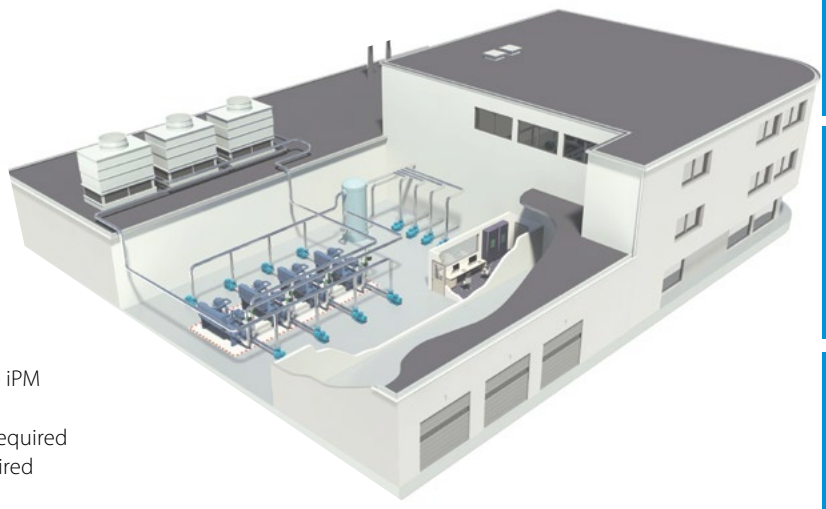
Key Benefits

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

Control options

iCM can manage:

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



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

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

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

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

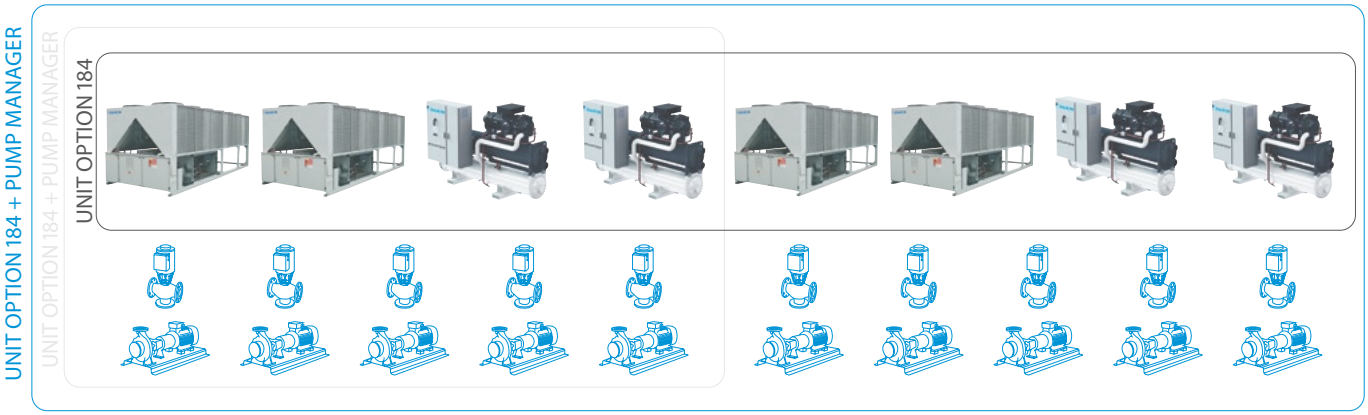
Product line-up

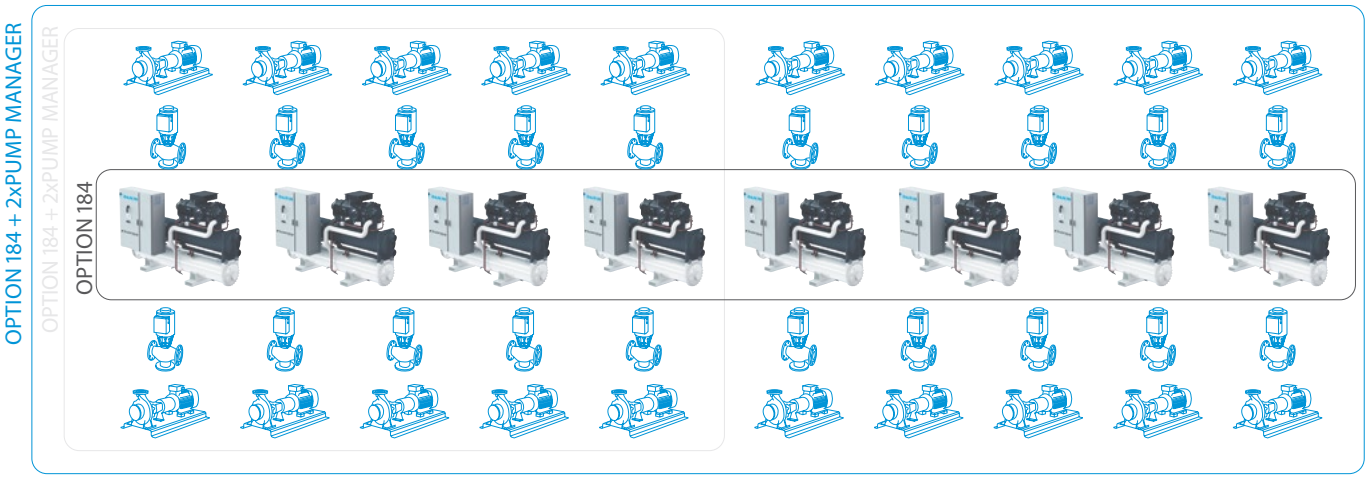
iCM as unit option 184 (up to 16 with iCM expanded kit):
- Up to 8 daikin chillers
- Mixed systems (Chiller + heat pumps or chillers + multipurpose)
- Heating/cooling operating modes
- Heat recovery and Free cooling management
- Units with modulable and step capacity control

Intelligent Pump Manager:
- Up to 5 dedicated or manifolded pumps (evaporator or condenser)
- Up to 10 dedicated or manifolded pumps (evaporator or condenser)

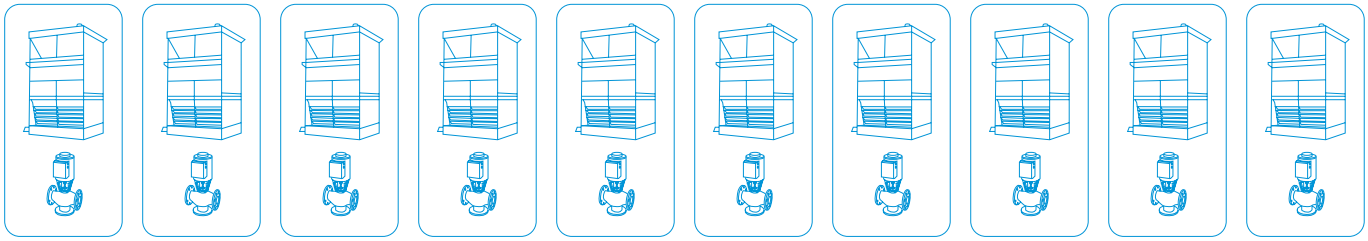
Intelligent Cooling Tower Manager:
- Up to 10 manifolded cooling towers (available with Pump Manager at the condenser side)

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





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



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

Intelligent Data Centre Manager control system

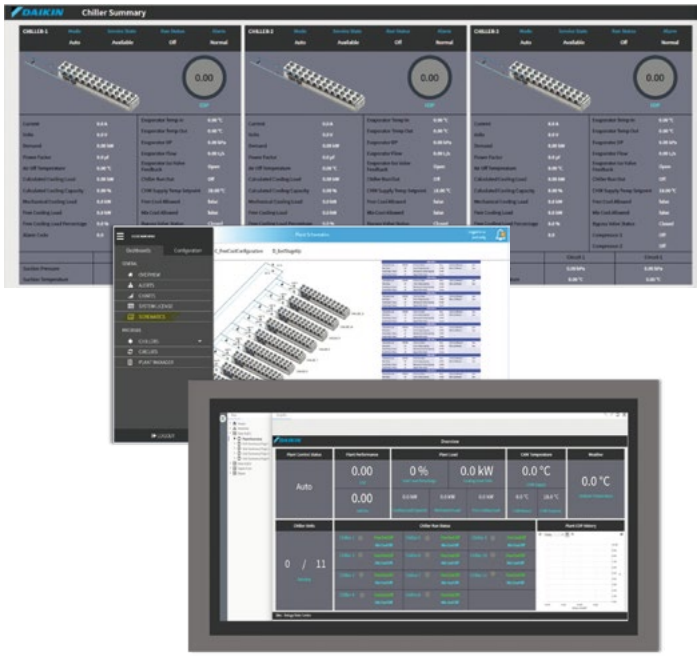
Unlike a traditional external controls system, Daikin's integrated iDCM requires 40% fewer sensors. This allows the iDCM to make use of all unit data from the integrated unit sensors and controller.

Controls up to 20 chillers per single panel, including Primary pumps management and free cooling mode

Available in 5 sizes ensuring easy system configuration

Advanced machine learning algorithms and AI for optimal operation and energy savings during the chiller plant lifetime

iDCM is fully suitable for TIER III Data Centres and as a customised execution for TIER IV



Key features of Intelligent Data Center Manager

1. **Comprehensive solution**: Controls up to 20 units, ensuring reliability with advanced machine learning algorithms for optimal chiller operation and energy savings.

2. **Compatibility with Plant Design:** Integrates various devices and offers comprehensive customer support, ensuring flexibility and tailored solutions for different project designs.

3. **Complete System Integration:** Daikin's in-house control system maximises efficiency by integrating unit logic, enhancing reliability and stable temperature control.

4. **Smart Sequencing:** Uses machine learning to optimise unit combinations, ensuring the lowest energy consumption and adapting to load changes.

5. **AI optimised operation:** Monitors unit parameters to prioritise efficient machines, reducing downtime and extending equipment life.

6. **Optimised Operating Modes:** Ensures high efficiency in both standard and free cooling modes, dynamically adjusting based on real-time conditions.

7. **Cost-Effective Control:** Reduces installation and maintenance costs with integrated performance monitoring and fewer sensors, enhancing overall value.

8. **Scalable Solution:** 5 different iDCM sizes available for various unit counts (from 4 to 20), providing a cost-effective and adaptable control system for any data center.

Daikin on Site

For more information, please refer to page 368

DAIKIN

Maintenance

Let Daikin Service ensure that your HVAC system is properly maintained. A seasonal tune-up, a critical repair, a system diagnosis to get to the bottom of an issue - we do it all. Our expert, factory-trained technicians will save you time and money, keeping you informed of what is going on with your equipment with written reports and regularly scheduled site visits. Seasonal startup and shutdown of your HVAC system, where required, provide additional touchpoints to ensure that your building is operating at its highest efficiency. Combined with our extensive parts inventory and centralized distribution, you get best-in-class service. We have a fleet of temporary heating and cooling solutions for emergency situations and planned shutdowns.

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.

Daikin Service & Solutions

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

European Remote Monitoring Center

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 chiller

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.

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.

Care	F-Gas Care is the minimal requirement to fulfil current legislation requirements, and makes sure your unit is operating under the F-Gas directive.
Preventive Care	Preventive Care for your chiller secures your investment and keeps it running under optimal conditions for the long time.
Exclusive Care	Exclusive Care provides maximum equipment availability at the minimum Total Cost of Ownership. This includes access to experts trough remote monitoring and actionable yearly energy reports.

	Inspection	Maintenance	
Services	Care	Preventive Care	Exclusive Care
Leak check inspection of 1 circuit based on predefined activities	✓	✓	✓
Validated Log book according to F-Gas	✓	✓	✓
1 year remote monitoring via Daikin on Site (>200kW)	✓*	✓	✓
Mechanical inspection (star gate) of screw compressor	✓	✓	✓
Capacity regulator overhaul	-	✓	✓
Comprehensive oil analysis	-	✓	✓
Lifecycle report with status & mismeasurement report	-	✓	✓
Technical assistance and repair service	-	✓	✓
On-site system diagnostic and/or analysis during service intervention	-	✓	✓
Recorded, retrievable service history of each machine	-	✓	✓
Validated Log book	-	✓	✓
Access to Emergency support & callout	-	✓	✓
Lifecycle report	-	-	✓
Daikin on Site - Remote connection for troubleshooting & support	-	-	✓
Yearly actionable report on energy optimization and usage	-	-	✓

Additional service options
Energy audit & report using DOS
Upgrade retrofit options, overhaul and project management
Fleet management for larger systems iCM
Specialist support and consultancy
Repairs
Inspections
Adiabatic add on solutions
Chemical analysis of refrigerant
Oil analysis

Maintenance air handling unit

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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.

Care	F-Gas Care is the minimal requirement to fulfil current legislation requirements, and makes sure your unit is operating under the F-Gas directive.
Preventive Care	Preventive Care for your AHU secures your investment and keeps it running under optimal conditions for the long time.
Exclusive Care	Exclusive Care provides maximum equipment availability at the minimum Total Cost of Ownership. This includes access to experts trough remote monitoring and actionable yearly energy reports.

	Inspection	Maintenance	
Services	Care	Preventive Care	Exclusive Care
Leak check inspection of 1 circuit based on predefined activities	✓	✓	✓
Validated Log book according to F-Gas	✓	✓	✓
Air flow regulator overhaul	-	✓	✓
Comprehensive oil analysis	-	✓	✓
Lifecycle report with status & mismeasurement report	-	✓	✓
Technical assistance and repair service	-	✓	✓
On-site system diagnostic and/or analysis during service intervention	-	✓	✓
Recorded, retrievable service history of each machine	-	✓	✓
Validated Log book	-	✓	✓
Access to Emergency support & callout	-	✓	✓
Lifecycle report	-	-	✓
Daikin on Site - Remote connection for troubleshooting & support	-	-	✓
Yearly actionable report on energy optimization and usage	-	-	✓

Additional service options
Energy audit & report using DOS
Upgrade retrofit options, overhaul and project management
Specialist support and consultancy
Repairs
Inspections

E-Parts

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

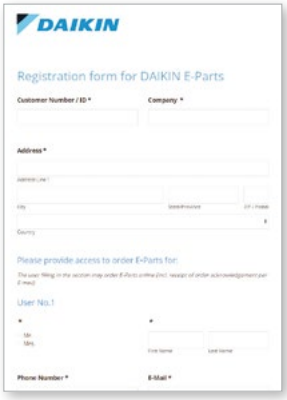
All in just a few simple steps.

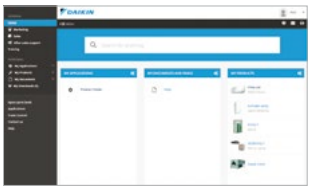
Your advantages:

- Always available
- Fast handling
- „Real time“ availability
- Free shipment
- Flexible delivery address
- Prompt feedback

Register to use the E-Parts service

Please contact your Daikin local representative





Always accessible for you

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

http://eparts.daikin-ce.com

Service Academy

DAIKIN ACADEMY
CENTRAL EUROPE SERVICE

The Daikin Service Academy offers individual learning paths covering all service cases for Daikin products. Our goal is to help you deliver excellent Service on site and therefore grow your business.

Goals & Objectives

With the Daikin Service Academy we want to offer a uniform European learning program for service technicians to become the best of the best.

- Ensure that our partners have skilled labour available
- Enable and deliver high quality Service to our end users
- Enhance performance and efficiency, using less time for service interventions
- Improve quality and hence customer satisfaction on site
- Foster career paths to keep service technicians in the HVAC-R industry
- Offer trainings in local language wherever possible

Our training packages cover following areas:

- Installation & Pre-Commissioning
- Commissioning
- Maintenance
- Troubleshooting & Repair
- Application & Design

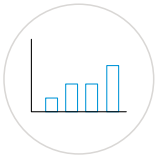
Want to know more?
Please contact us for more information about the Daikin Academy Central Europe:
academy@daikin-ce.com

Remote access and active monitoring services

The latest technology matched with superb service to improve the efficiency and reliability of your HVAC-R installation.

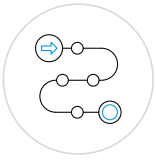
Connected air conditioning works smarter. We offer several ways to manage your products and installations remotely. From performance monitoring to predictive logic and analyses and more, our Intelligent Network is a cost-efficient way to increase the security, uptime and reliability of your installation.

Predicting breakdowns ahead of time



Analytics

Data is our raw material, and data analytics is our product. The continuous monitoring and analysis of a system's operating data is not only the key to ensuring efficient operation, cutting operating and maintenance costs and optimizing user comfort. Data analysis also provides further valuable and often surprising insights.



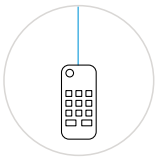
Hassle-free connection

We know that connecting a system to the cloud can often be a real challenge – but that's no longer your problem. We'll take care of the connection, including the mobile network and the router, both of which are remotely monitored to maximize infrastructure reliability.

Daikin Cloud Service

Our web-based service provides reliable and secure remote monitoring. Our top priority is to earn your trust. Daikin Cloud Service meets the highest security standards in all respects – safeguarding your data privacy as well as transporting and storing your data securely at all times.

The benefits of remote monitoring



Remote Monitoring or control

Daikin Cloud Service is a web-based remote monitoring and control solution for HVAC systems that can even manage the energy consumption of several buildings at once. There's no need to install any special software. Everything is accessible using a standard browser, whether via a computer or a mobile device.

No potential problem goes unnoticed

What's more, Daikin Cloud Service provides automatic notification if it detects a possible malfunction. This unique predictive notification feature enables service measures to be initiated even before the user notices that a problem has arisen – thus maximizing reliability and minimizing service costs.

Maximum performance

The performance of even the best system can be impaired if it is not properly operated. Continuous monitoring allows load profiles, usage patterns and operating conditions to be closely followed. The data obtained is the basis for optimizing a system's operation and maintenance as well as its return on investment.

Welcome to Daikin on Site (DoS),

the future of HVAC management and a revolution in digital services. Our unique platform integrates state-of-the-art technology to deliver the best digital solutions. With DoS, you will experience remote monitoring and control for chiller plants and air handling units via our cloud-based system.
Our focus is on maximizing uptime, enhancing efficiency, and extending equipment life. Real-time data access and expert support allow us to spot cost-saving opportunities and prevent unexpected issues, ensuring a smooth user experience. Embrace intelligent HVAC management with Daikin on Site.

Benefits and Value

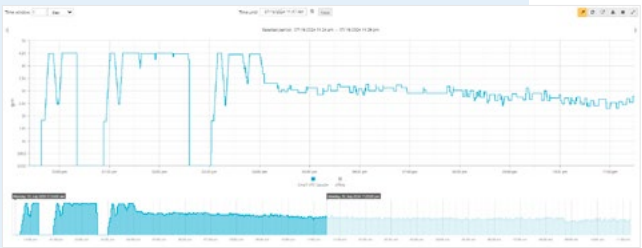
Remote Monitoring
Keep an eye on your chiller plants and air handling units from anywhere with internet access, ensuring peace of mind and quick response to any issues, thus minimizing downtime and maximizing productivity.

Alarm Notifications
Receive instant alerts for any abnormalities or issues detected within your HVAC systems, allowing you to take immediate action and prevent costly disruptions, ensuring continuous operation and customer satisfaction.

Real-Time Data Access
Gain instant access to real-time performance data, allowing you to make informed decisions swiftly, optimize system efficiency, and identify cost-saving opportunities in real-time.

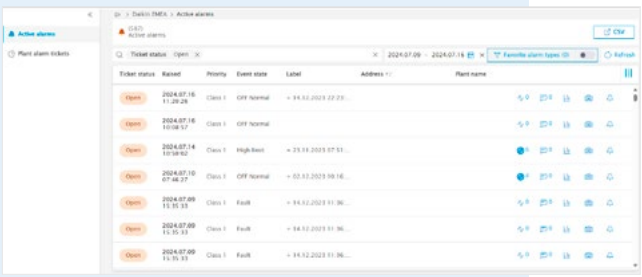
Customizable Dashboard
Tailor your dashboard to display the metrics and information most relevant to your operations, providing you with a personalized and intuitive interface for efficient monitoring and control of your HVAC systems.

Remote Control
Adjust settings and parameters remotely, enabling you to fine-tune your HVAC systems without the need for on-site intervention, saving time and resources while ensuring optimal performance.



Datapoint trend analysis

Data Analytics
Utilize advanced data analytics to analyze historical performance trends, identify patterns, and predict potential issues before they occur, enabling proactive maintenance and minimizing the risk of unexpected downtime.



Advanced Alarm Dashboard

With Daikin on Site, you're not just monitoring your systems — you're optimizing, predicting, and staying one step ahead at all times.

Subscription

	DoS PREMIUM	DoS PARTNER	DoS CONNECT
Number of parameters	Up to 500	Up to 200	Up to 100
Web graphics	INCLUDED	INCLUDED	INCLUDED
Core features	INCLUDED	INCLUDED	INCLUDED
Advanced features	INCLUDED	NOT INCLUDED	NOT INCLUDED
Target Products	Large/Medium Chillers (ICM)	Large/Medium Chillers, 3rd Part Chillers, M&M Kit	Small Chillers and AHU

Now available

Main features

	Description	All Connected*	Active Monitoring*	Access	DoS CONNECT
Datapoints	The maximum number of available datapoints from the unit for monitoring	up to 500	up to 500	up to 200	up to 100
Data Storage	The duration of storage for historical datapoint values	10-years	10-years	1-year	1-year
Reporting	Reports for comprehensive data analysis and visualization	•	•	•	•
Core Features					
Map & KPI	Map overview with quick KPI indicators for a snapshot of performance metrics	•	•	•	•
Remote Alarm Notification	Email notifications when alarms occur, keeping users promptly informed of any issues	•	•	•	•
Alarm Dashboard	Overview of alarm troubleshooting and ticket management	•	•	•	•
Datapoint List	Provides datapoint details for each chiller and Air Handling Units (AHUs) in the plant	•	•	•	•
Web Graphics	Interactive visualization of data. Web graphic section in read/write mode	•	•	•	•
Dashboard	Graphical overview of the unit operations	•	•	•	•
Trend Viewer	Visually track selected KPI trends	•	•	•	•
Scheduler	Enables schedule start and stop times for the unit operations	•	•	•	•
Web Access	Virtual duplication of physical unit display, authorized user can make changes to control setting of unit	•	•	•	•
Advanced features					
Leak Detection	Designed to identify and locate refrigerant leaks or insufficient level of refriger	•	•		
Predictive maintenance	Advance algorithm to predict failure by processing historical data	•	•		
Operation Assessment	Designed to provide technical analysis on unit operation and define optimisation actions to ensure energy saving and high reliable operation	•			
Target Products		Large/Medium Chillers (ICM)/AHU	Large/Medium Chillers (ICM)/AHU	Large/Medium Chillers (ICM)/3rd Part Chiller, M&M Kit	Small Chillers and AHU
Material Code	Chillers	CE.PS_DOS_AS_ALCON	CE.PS_DOS_AS_ACMON	CE.PS_DOS_AS_ACCES	CE.PS_DOSCONNECT
	AHUs	CE.PS_DOS_AH_AL_CO	CE.PS_DOS_AH_AC_MO		

* Maintenance contract is required

If you need more information about Daikin on Site, make sure to visit the link* and reach out to your local Daikin office.

** Only accessible if you have a Daikin ID*

Overhaul

As part of the lifetime maintenance of the chiller in order to assure optimal performance and avoid breakdowns extend the life of your equipment with our compressor lifetime solutions, such as an overhaul.

What is an overhaul?

Aiming to bring the compressor back to its original performance, an overhaul consists of replacing the wearable parts before they break. The overhaul is focused on the compressor, as it has the most wearable parts of the chiller, but the works can be done on more parts of the chiller depending on its condition. An overhaul is part of the lifetime maintenance of the chiller in order to assure optimal performance and avoid breakdowns.

When to overhaul?

To ensure optimal performance and reduce the risk of breakdowns, the following maintenance schedule is recommended:

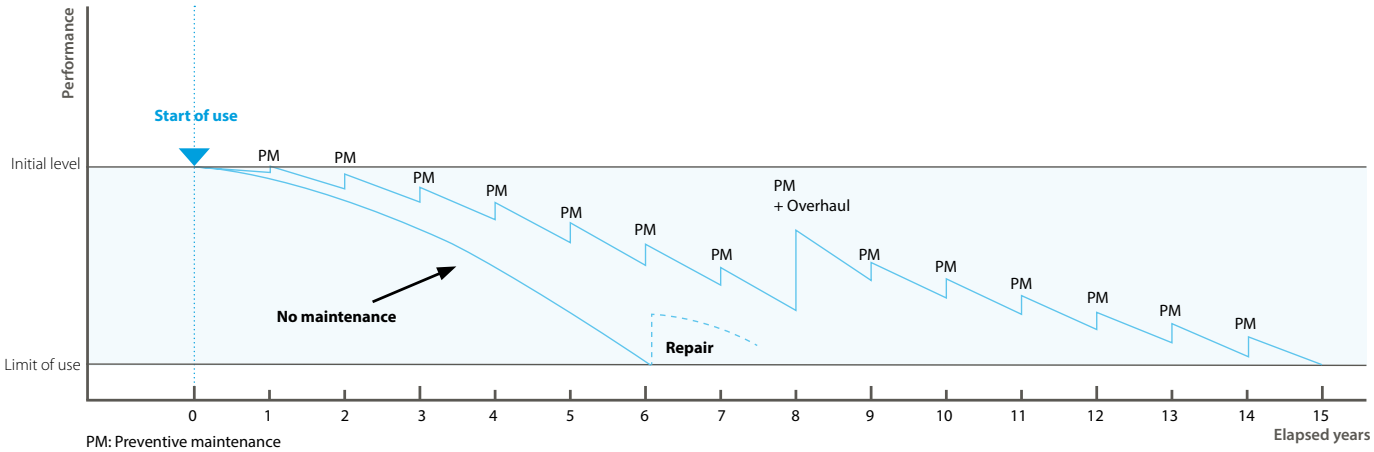
- **Every 40.000 running hours**: Major overhaul of the compressor, as per factory guidelines.
- **Every 20.000 running hours**: Minor overhaul for screw chillers.
- **Every 10.000 running hours**: Based on extensive field experience, the Daikin Technical Team recommends a **visual inspection** along with **oil and filter replacement**.

These measures form part of the chiller's lifetime maintenance strategy and are essential for maintaining long-term reliability and efficiency.

How to overhaul?

- **System evaluation:** Either during the maintenance visits or in an independent inspection we conduct tests to evaluate the performance of your system
- **Recommendation:** Identifying the main components that can increase the performance and extend the lifetime of the unit
- **Overhaul:** The overhauls are done at the workshop or on site, when the conditions allow it
- **Reporting:** Overview of the works done and the findings

Depiction of product working life and maintenance schedule



PM: Preventive maintenance

Customer benefits

Cost savings
Repairs are costly and preventive actions aim to reduce this for up to 50%

Extend lifetime
The replacement of some of the main components assures your equipment's life gets prolonged

Reduced downtime
Planned maintenance and on time interventions reduce the risk of downtime

Planned intervention
To avoid surprises when the chiller is most needed, planning in the low seasons allows for better and cheaper interventions

Improved reliability and performance
Wear and tear makes the equipment operate at a lower performance than originally

Peace of mind
Focus on your core business, and let Daikin take care of your chillers

Repair

In case the compressor breaks down before you have an overhaul done, we also offer the possibility of **fully repairing the compressor**. In this case, the compressor will need to be sent to the factory to be repaired. If you don't have a redundant chiller in place to cover the repair period, **we have your back with our Daikin360 Rental solutions**. That way, you can **keep your business up and running** while we take care of repairing your equipment.

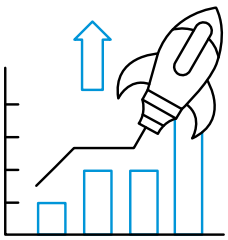
Good to know:
Every repaired compressor comes with a 1-year factory warranty. We ensure peace of mind when it comes to your HVAC equipment.

Additional upgrades

Take advantage of your equipment being serviced to have some additional upgrades done. Not only will you **save on the labor hours**, since your equipment is already opened, but upgrading your equipment **could allow it to qualify as a new depreciating asset***.

Some additional upgrades that you can consider are the following:

- Upgrade the controls
- New lubrication system
- New identification plate
- Repainting the chiller
- New electrical contacts
- New low and high-speed bearings
- New sensors
- New pressure relief valves



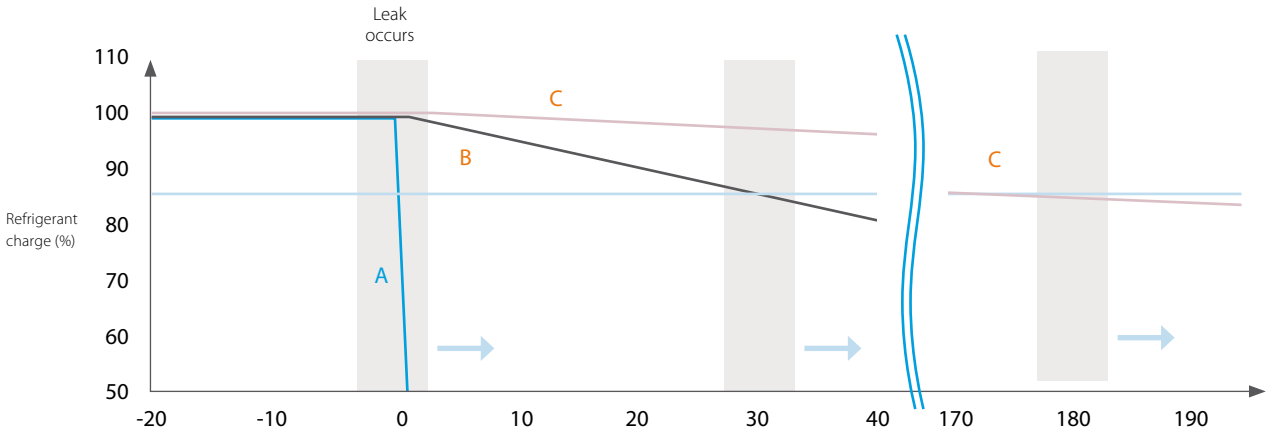
* Please consult your finance department

Leak detection function on DoS

Key advantages

- **Sensor-less leak detection**: works without subcooling (SC) sensors.
- **Broader compatibility**: now available for a wide range of models including EWAT-B (A, B, C), EWYT-B (A, B), EWAD-TZ (B, C, D), and EWAH-TZ (B, C, D).
- **Accurate and proactive**: detects leaks down to 85% refrigerant charge.
- **Integrated alerts**: visible on DoS and via email (no daily spam)
- **Synergy of multiple algorithms**: both SC (revised) and SC-less logics work in parallel when available.

Assumption: 100% refrigerant charge=30kg



A) Rapid leak: All refrigerant leaks within 1 day - leak speed = 70 kg/day = 25,550 kg/year
B) Slow leak 1: 15% of refrigerant leaks in 1-month - leak speed = 0,15 kg/day = 54,8 kg/year
C) Slow leak 2: 15% of refrigerant leaks in 6-months - leak speed = 0,025 kg/day = 9,1 kg/year

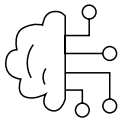
Available informations on dashboard

- Last Check: indicates when the algorithm performed for the last time.
- Cx Status: indicates if there are leakages or not in the circuit.
- Cx Leak occurrences: indicates how many times the algorithm detected a possible leakage.
- Cx Avg prob of Leakage: indicates the probability to have leakages .
- Cx Messages: indicates in case of no data availability if the algorithm performed or not.

Legacy RLD (SC-based) vs. New RLD

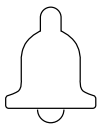
Feature	Old RLD (2021)	New RLD (2025)
Sensor required	Yes (SC sensor)	No sensor need
Units covered	~32%	~63%
Operation mode	Cooling only	Cooling only
Alerts	Basic e-mail alerts	E-mail alerts optimized to avoid daily spam
Coexistence	Only SC logic	Dual logic (SC + SC-less if both available)

RLD is Now Live on Daikin On Site



Machine Learning
No sensors needed

Over 60% Coverage
Now available on most units



Automatic Alerts
+ E-mail (no spam)

New Service - No SC sensor required - Manual attached

member of
DAIKIN
SERVICE PARTNER Network

Replacements

Description

When it is time to replace your building's outdated equipment you can rely on the expertise of your Daikin Service team. Our experts can recommend the latest technologies that enhance comfort and sound, and improve Indoor Air Quality. If required, we can do an Energy Audit on your installation to identify the energy gains of refurbishing your installation. An Energy Audit can be executed both on Daikin and non-Daikin equipment. When you replace your heating or cooling installation, many different actors come into play, such as F-gas certified installers, electricians, project managers, and so on. We can take this burden of your shoulders and take responsibility of the full turnkey project. We'll coordinate all operations.

Move to new refrigerants

- Higher environmental responsibility (lower GWP)
- Lower power input (1234ze) (check case by case)
- Lower refrigerant cost
- Less Fgas leak tests per year
- Reduced risk of incurring fines due to refrigerant leaks in the equipment
- Optimize management of the plant if move to one refrigerant only

Inverters on all compressors

(minimum starting current, high efficiencies)

- No mechanical stress for the compressor meaning longer chiller lifetime
- Reduced inrush current
- Higher efficiency at minimum and partial load

Very high efficiency at a part load (SEER value)

- Inverter driven solution will guarantee a smooth operation with higher stability of operation
- Reduced water setpoint oscillation
- Limited on-off of the compressors
- Stable and controlled noise level

High efficiencies at 100% performance

- New compressors generation
- New design of refrigerant circuit
- Higher performances of brand new installed components

Possibility to implement Daikin on Site remote monitoring with all its advantages

- Continuous supervision
- Increased reliability and service life of the unit
- Operation optimization
- Energy consumption reduction
- Periodical energy and operation report to owner
- Lower service costs

Possibility to sequence multiple units

- Increased performance by perfect coordination
- Limited start and stops
- Continuous optimization of the ideal number of operating unit
- Continuous optimization of the ideal load per unit
- Stable operation with proper backup operation

Satisfy customer real needs from preliminary chiller analysis

- Possibility to reduce footprint of new unit
- Save money offering the right size of unit
- Less vibrations
- Lower noise level

After sale improvements

- No risk for spare parts shortage
- No risk of refrigerant phased out
- Improved maintenance program
- Remote diagnostic capability

Turnkey Delivery by Daikin: "All in ONE"

Alongside its comprehensive product range, Daikin now offers turnkey project delivery, which we call 'All in ONE.' In this offering, all types of applications are managed directly by Daikin, from the initial design through execution to all required service activities throughout the entire life cycle of the units.

The following main steps are included and tailored to customer needs:

Engineered Solutions
Creation of the concept / solution that will meet customer's wishes in the best way

Offer
Preparation of the offer in which complete HVAC-R product and service needs are covered

Project Management
Management and execution of all aspects of the project, ensuring successful delivery

Commission
Commissioning of whole HVAC-R system (incl. non-Daikin equipment)

Monitor
Remote Monitoring of the site for optimization and remote control

Support
Troubleshooting and maintenance of the site via highly skilled HVAC-R technician

You can enjoy the benefits of this offering for any kind of HVAC-R applications, whether it is a new build or a replacement.

Let Daikin handle all for you

Generate win-win solutions with “All in ONE”

The ‘All in ONE’ approach aims to generate win-win solutions by offering for significant benefits to both our service partners and key accounts. While our Key Accounts enjoy the advantages of the direct approach, our partners grow with us through projects granted by Daikin.

What does this mean for our partners?

Steady business
Daikin executes turnkey projects with its certified partners therefore, guarantees a steady business to them.

Growth
Daikin makes regional agreements with new Investors and Key Accounts, which translates as pure growth to its partners.

Reduced liability & effort
Daikin assumes technical and financial liability which limits the partner’s risk exposure.

Reputation
A major winning chance in reference projects, therefore, helps to build the reputation you need.

What does this mean for our Key Accounts?

Single point of contact
Your Daikin contact will serve for all project needs within same approach for all Central Europe (CE). Daikin also holds liability for the complete HVAC-R.

Saving
Daikin can serve more efficiently with a larger scale contract, therefore offers great saving potential.

One stop shop
Daikin offers product and solutions for complete project scope and can also create ‘concepts’ tailored to customer wishes.

Quality
Daikin extends its product quality principles to the execution of your project by fully dedicated central and local project teams.

Rental Chillers

The perfect solution for temporary cooling and heating needs

Daikin offers rental units to meet your temporary cooling and heating needs for emergencies, outages, special events, and planned shutdowns, providing complete peace of mind no matter how urgent or complicated the situation is.

Get in touch

Why Daikin Chillers?

- Wide range of unit capacity: 10 kW to 10 MW
- Operating costs reduction: SEER up to 3,65
- Flexibility of application for water cooling mode (-12 to 20 Celsius ELWT) and heating mode (20 to 60 Celsius CLWT)
- Reliability: remote monitoring and multiple circuits
- Rapidity of intervention: "plug & play" installations
- Acoustic comfort: extra low noise and modulating fans

For which situations is Daikin's offering suitable?

Solutions for cooling and heating emergencies:
natural disasters, equipment failure, etc.

Solutions for cooling load fluctuations:
for facility expansion and/or peak load support and seasonality.

Standby cooling and heating for critical applications and processes:
for hospitals and/or chemical manufacturing.

Solutions for special events:
for events, parties, sport matches, etc.

Cooling and heating supply during outages:
for planned maintenance and/or replacement of older equipment.

What does Daikin´s offering include?

A comprehensive solution package that encompasses a high-quality, energy-efficient, plug-and-play rental unit, coupled with best-in-class full service throughout the rental activity. This includes advisory support, installation, commissioning, remote monitoring, maintenance, and repairs, ensuring a hassle-free experience.

Applications:

Food & Beverage

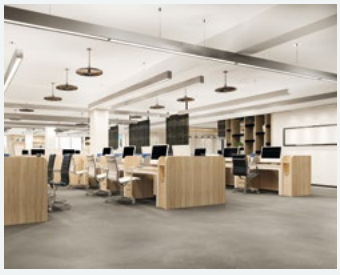
Wineries

Ice-rinks

Commercial Buildings

Events

Manufacturing


Office Buildings & Data Centers

Chemical-pharmaceutical & Healthcare

Achieve peak performance and sustainability with Daikin's new R-32 Air handling unit, providing fresh air up to 144.000 m^3/h

R-32

Professional

- **Enhanced Environmental Sustainability**: Leverage low GWP R-32 refrigerant capabilities to cut CO_2 emissions by up to 26%* to decarbonize any buildings
- **One-stop Complete Solution**: Simplified integration by connecting R-32 condensing units (VRV, ERA) and R-32 compatible AHUs, support with smart cloud-based controls and top-class service
- **Higher Efficiency**: Achieve up to 87% heat recovery efficiency, ensuring seamless system communication and cost-effective operation
- **Unmatched Comfort**: Ensure consistent, optimal indoor comfort with Daikin's precise X Control technology, reducing temperature fluctuations
- **Safety and Reliability, all-in-one**: Enjoy peace of mind with Daikin Shîrudo technology, fully inbuilt controls simplified commissioning, ensuring optimal performance

*over 10 years of operation compared to R-410a system

Scan the QR-Code to learn more

DAIKIN AIRCONDITIONING CENTRAL EUROPE HandelsgmbH

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Chillers and air side equipment Catalogue 2025 | Version August 2025

We reserve the right for printing errors and model changes