Applied Systems

Product catalogue 2024

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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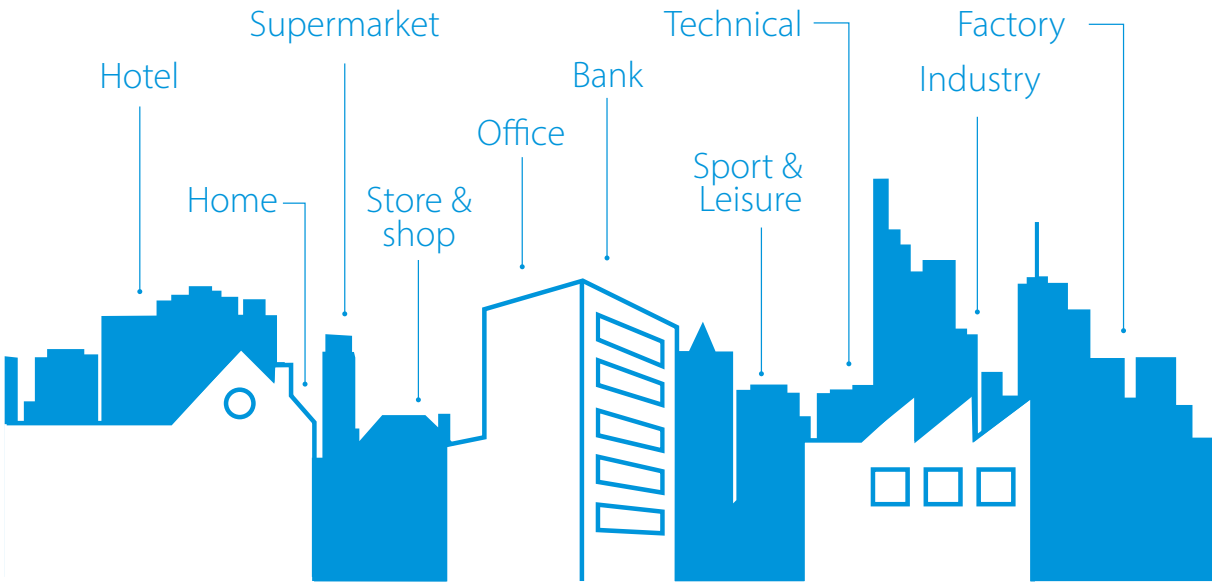
Daikin world



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

A partner of choice

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

The comfort of reliability

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

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

Daikin quality

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

Staff who understand you

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

Daikin Applied Development Centre

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

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

YouTube
www.youtube.com/DaikinUK

Chiller witness testing facilities, Daikin Applied Europe

We are industry leaders in air cooled and water cooled chiller technologies. Our performance in each condition can be shared through witness tests.

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

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

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

YouTube
www.youtube.com/DaikinUK

Tools and platforms

My Daikin

Your central resource for managing your Daikin account online

My Daikin live account information

If you're a direct buying customer, you can see real-time information, anytime, anywhere and on virtually any device. Based on your access level, you can easily download your quotes and invoices, check on the status of your orders and deliveries, and see your live account balance with us.

My Daikin dashboard

The My Daikin dashboard also has a set of tiles giving you quick links to our web applications, all from one central entry point.

Self service features

Depending on your access level you can also make use of the self service features available on the My Daikin dashboard:

- Quote to Order
- Change Order
- Return Request
- Dispute Invoice
- Remittance Advice
- Online Payment

My Daikin Library

The My Daikin Library is available via your dashboard giving you access to a full library of manuals, documents, images and technical resources.

Getting access to My Daikin

To access the MyDaikin portal, you will need a Daikin ID. If you don't already have one, you can self-register at **my.daikin.co.uk**

Daikin ID delegated admin console

You can enjoy the freedom of managing your own organisation, assigning roles thanks to the delegated admin console.

Daikin on Site web monitoring

A solution of customer specific needs

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

Daikin's remote monitoring has predefined user roles that include:

- Operator
- Service provider
- Daikin specialists

The features of Daikin's remote monitoring include:

- Insight into the optimum use of the equipment
- Cloud technology to hand, from any location
- Real-time data trends
- Access to operational settings, allowing enhanced control and reliability
- Simple, effective connection, via local network or 4G modem
- High security, encrypted connections, CSA security attestation
- Performance data insights help deliver long-term savings

The remote monitoring of Daikin products

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

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

2 **With Daikin's remote monitoring, we team up operators and specialists**

- User friendly operator information
- State-of-the-art tools providing best-in-class service
- Remote solutions when possible, avoiding onsite intervention

3 **Converting all expertise to maintain highest energy efficiency and uptime**

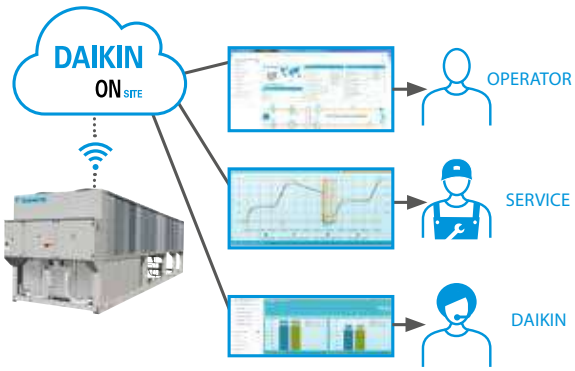
YouTube
www.youtube.com/DaikinUK

Enhanced control and measuring

24/7 automated system monitoring

Reduces risks at the earliest stages

Keeps the system running as intended



BREEAM®

Daikin, the best partner for your green project

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

93% percent of developers & investors consider green certification important

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

Property developers are setting high standards

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

HVAC-R systems play an important role

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

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

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

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

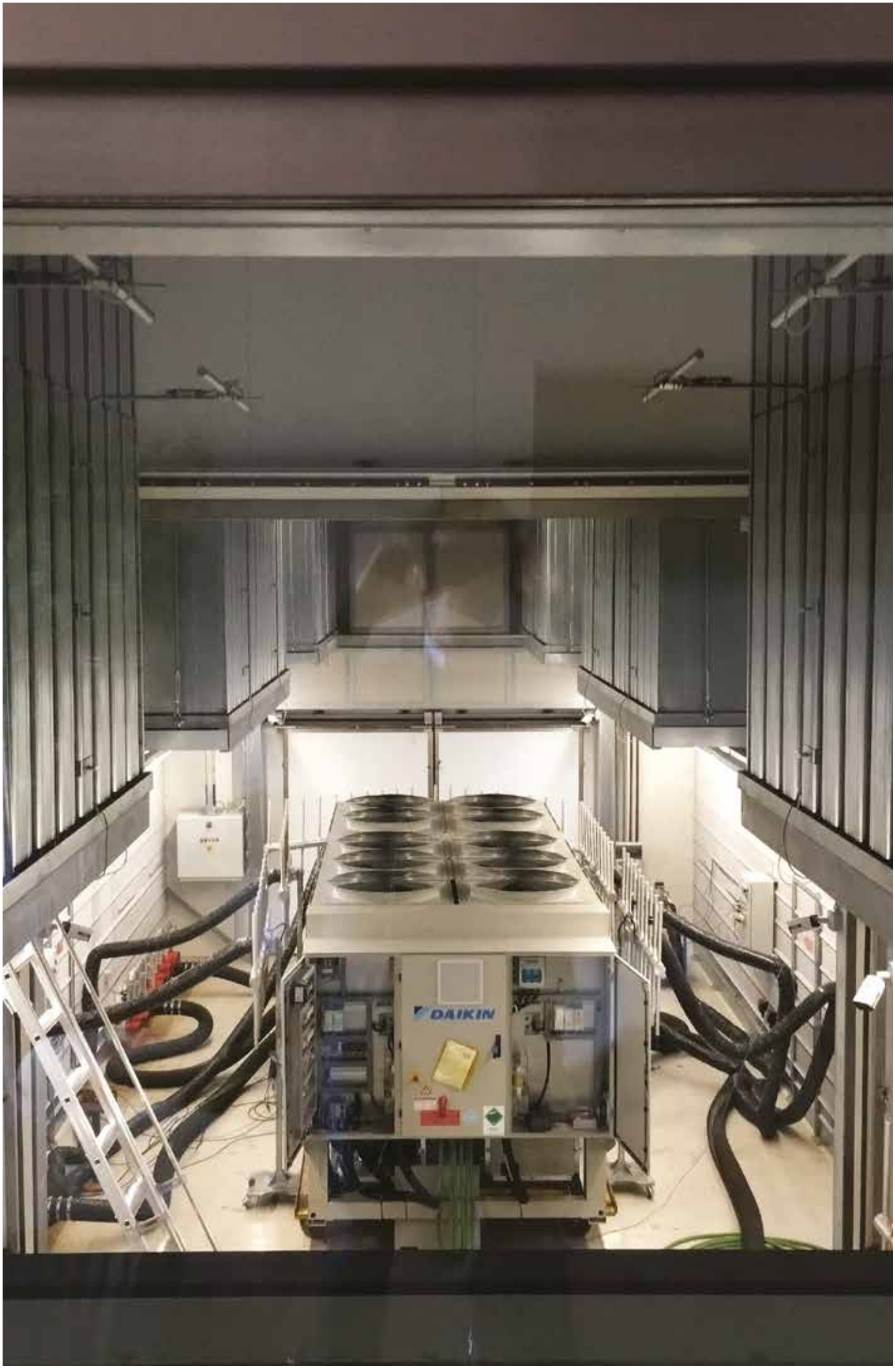
› Over 17 APs across Europe
› Assisting you to achieve your BREEAM certificate

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

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

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

› **Manage up to 70% of your energy consumption with the Daikin Total Solution**
› **Top seasonal efficiency**
Both BREEAM and LEED green building programmes put the strongest focus on energy efficiency. This is exactly why it's so important to choose Daikin.
› **Smart air conditioning management with Intelligent Network**
To drastically reduce your energy consumption and CO_2 emissions it's not enough to simply make your equipment more efficient.


DAIKIN

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 cooled and water cooled 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 state-of-the-art Daikin Applied Europe testing facilities in Cecchina factory (Rome, Italy) include:

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

Climatic Test Chamber

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-cooled units for the Eurovent testing campaign being conducted in this new Daikin facility.

Up to
2000 kW
in cooling
at the forefront of testing

The range of tests that can be conducted in the new chamber is extensive.

Eurovent and AHRI conditions at full load and part load

Customised 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 aircooled range (Cooling only, Polyvalent & ASHP), in any design condition.

Polyvalent unit EWYS-4Z B

4 and 6 pipes layouts can be tested

Air cooled chiller EWA*-TZ D

Up to 1.954 kW - 24 FANS

Air cooled chiller EWAT-B- C

Cooling capacity up to 1.000 kW

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

Here are a few examples of successful witness tests:

Application: Pharmaceutical

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 cooled test stands

Our chiller testing facility offers the most advanced testing technology for water cooled units. Three 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 customised 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 is an example of a successful witness test:

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

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 monitored through the viewing window.

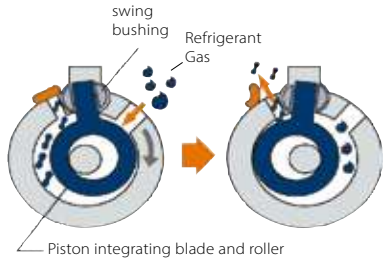
Our customers are free to select what should be displayed on our monitors just by clicking on our tablet

Day-to-day reliability and efficiency

Inhouse development and manufacturing of compressors

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

Swing compressor



The mini chiller series EWAA004-016D & EWYA004-016D 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.

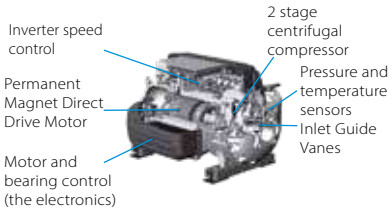
Scroll compressor for controlled capacity

Being compact, the Daikin scroll compressor is used with R-32 and R-410A to provide constant reliability and high efficiency throughout its service life. Designed for small and medium capacities, the scroll compressors are used with air cooled and water cooled chillers.

Characteristics:

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

Innovative frictionless centrifugal compressor



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

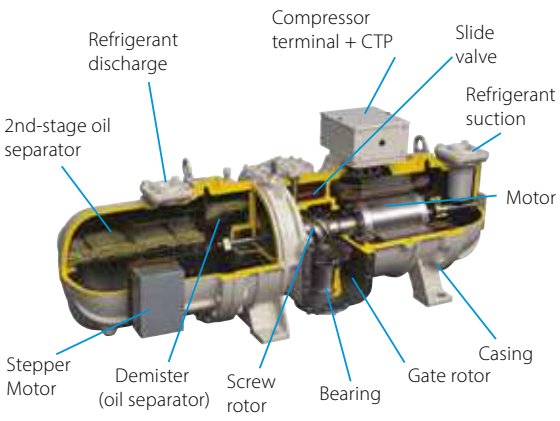
Whatever the requirements of the customer - large systems requiring constant capacity or small systems for flexibility - Daikin always provides a reliable and efficient solution.

At the heart of many 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 HFC & HFO refrigerants, guaranteeing unequalled reliability and many years of efficient operation. The bearing life is 100,000hrs with inspection and maintenance intervals every 40,000hrs.

Single Screw Stepless Compressor

Characteristics:

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



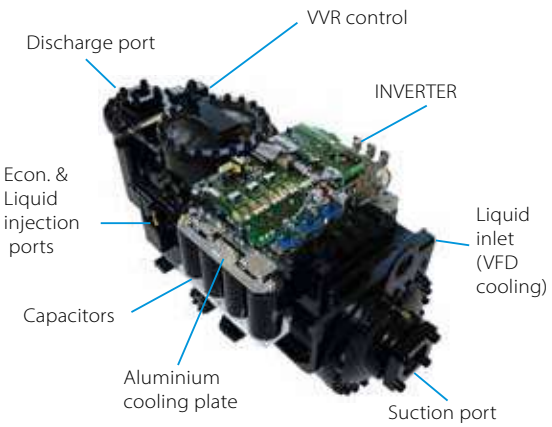
Single Screw Compressor with Integrated Inverter

Characteristics:

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

Main benefits:

› Better SEER & EER values
› 30% more compact than single-screw compressor
› Rapid payback time
› Silent operations
› Optimal comfort levels
› Available R-134a, R-513A and R-1234ze.



What's new in 2024

Air Cooled Scroll Chillers

EWAT~B- C

- Extended capacity range up to **1009 kW cooling capacity** at nominal conditions
- Improved full load efficiency
- Silver and Gold efficiency versions combinable with standard or reduced noise execution
- Standard unit operating down to 5°C ambient without fan speed control
- New performance monitoring option
- New Daikin mobile App
- Suitable for Data Centre application thanks to the:
  - New hydronic free cooling version available
  - Extended operating range with chilled water up to 30 °C
  - New rapid re-start option
- Possibility for inclusion of Shell&Tube exchanger on high efficiency version above 750 kW

Air Cooled VFD Screw Chillers

EWA(D)(H)(S)~TZ D

- Latest generation of air-cooled inverter screw chillers with extension of capacity range up to 1,954 kW (Nominal CC of R134a model)
- 4 efficiency tiers available in 3 sound configurations for max flexibility
- Available with 3 refrigerants: R1234ze, R513A, R134a
- Single and dual circuit
- Compact footprint
- New performance monitoring option
- New Daikin mobile App
- Suitable for Data Centre application thanks to the:
  - New hydronic free cooling version available
  - Extended operating range with chilled water up to 30 °C
  - New rapid re-start option

Polyvalent 4-Pipe Multifunctional unit with R513A Refrigerant

NEW

EWYS~4Z B range is the ideal solution for decarbonisation of commercial and industrial sites

› Nominal cooling capacity range: 400 - 800 kW
› 4Z Polyvalent range provides simultaneous cooling and heating all year round thanks to two independent refrigeration circuits and two shell&Tube exchangers
› High Efficiency Brushless fans with optimized geometry ensure the best ratio between airflow and power input
› Thanks to refrigerant cooled VFD integration on the Daikin single screw compressor, the inverter is not affected by environmental conditions
› Quickly achieve comfort conditions
› Low water content required
› With integration of optional intelligent chiller manager (iCM), up to 8 units of different technology can be operated from a single master control unit
› Fully compatible with Daikin on Site (DoS) cloud based monitoring that provides 24/7 real-time data, ensuring optimum functionality of cooling and heating plants

EWYS~4Z B

EW(W)(H)(L)T~Q-A Modular Scroll Chiller Series

NEW

Multiple combinations for maximum flexibility for both cooling and heating applications.

› Three versions available:
  - Water to water version (mode change over on waterside)
  - Water to water heat pump version (mode change over on refrigerant side)
  - Condenserless version (cooling only)
› Available in three module sizes with Nominal Cooling capacity of: 100kW – 125kW - 160kW
› Maximum flexibility with the possibility to combine up to 8 modules (4+4) offering a total capacity of 1280 kW
› The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is one third of R-410A refrigerant
› New compact design fitted with Daikin ON/OFF scroll compressors
› Truly modular design with control and hydraulic modularity (pre-fabricated plug and play manifold module)
› Pump kit module available as option
› Hot water production up to 60°C
› Full compatibility with Daikin on-site cloud-based monitoring

EWWT~Q-
CC: 96-166 kW
HC: 110-187 kW

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

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Chillers and Heat Pumps

Daikin chillers

Why choose Daikin chillers?

Daikin chillers are the perfect bridge between project requirements and customer satisfaction.

From the smallest chillers to the very largest, our quality control and attention detail is absolute.

Our systems have the **most advanced technologies**, deliver **the highest energy efficiencies** and **lowest running costs**, and are the gold standard for reliability and performance.

The widest and most flexible chiller portfolio

› From the smallest mini chiller for residential use to the largest chiller for district cooling
› Tailor made solutions based on the most advanced technologies
› Wide range of options and accessories

Worldwide experience in chiller design and manufacturing

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

The highest efficiency for every installation

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

Quality and reliability

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

Benefits for installers

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

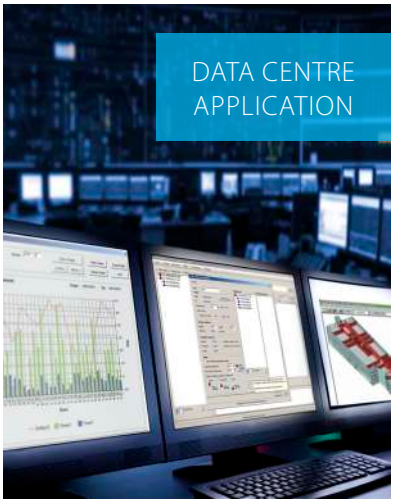
Benefits for consultants

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

Benefits for end users

› Remarkable savings on running costs
› Easy to customise the chiller to your application, environment and need thanks to more than 150 different options.


HOTEL
APPLICATION


DATA CENTRE
APPLICATION


PROCESS COOLING
APPLICATION


DAIKIN
INDUSTRIAL
APPLICATION


OFFICE APPLICATION


DAIKIN
COMFORT COOLING & HEATING
APPLICATION

Products overview

			Refrigerant type *	Refrigerant circuits	Inverter	Free cooling **	Compressor			Heat exchanger		Efficiency version			Sound version			Ecodesign Compliance *****
							Swing	Scroll	Screw	Water heat exchanger***	Outdoor heat exchanger****	Standard	High	Premium	Standard	Low	Reduced	
Cooling only																		
	EWAA~DA		R32	1	●		●			● BPHE	● Cu/Al	●			●			C
	EWAT~CZ LOOP BY DAIKIN		R32	1-2	●			●		● BPHE	● Cu/Al	●	●		●			C&P
POA	EWAT~B- B LOOP BY DAIKIN		R32	1-2				●		● BPHE	● MC	●	●		●	●	●	C&P
POA	EWAT~B- C LOOP BY DAIKIN		R32	1-2		● OPT		●		● BPHE	● MC	●	●		●		●	C&P
POA	EWAD~TZ D LOOP BY DAIKIN		R-134a	1-2	●	● OPT			●	● BPHE S&T	● MC	●	●	●	●	●	●	C&P
POA	EWAH~TZ D		R-1234ze	1-2	●	● OPT			●	● BPHE S&T	● MC	●	●	●	●	●	●	C&P
POA	EWAS~TZ D		R-513A	1-2	●	● OPT			●	● BPHE S&T	● MC	●	●	●	●	●	●	C&P
Condensing unit																		
POA	ERAD~E-		R-134a	1					●		● Cu/Al	●			●	●		NA
Heat pump																		
	EWYA~DA		R32	1	●		●			● BPHE	● Cu/Al	●			●			HP
	EWYT~CZI EWYT~CZO		R32	1-2	●			●		● BPHE	● Cu/Al	●	●		●			HP
	EWYT~CZ LOOP BY DAIKIN		R32	1-2	●			●		● BPHE	● Cu/Al	●	●		●			HP
POA	EWYT~B- LOOP BY DAIKIN		R32	1-2				●		● BPHE	● Cu/Al		●		●	●	●	HP
POA	EWYD~BZ LOOP BY DAIKIN		R-134a	2-3	●				●	● S&T	● Cu/Al	●			●	●		HP
Polyvalent 4-Pipe simultaneous cooling and heating																		
POA	EWYS~4Z B NEW		R-513A	2	●				●	● S&T	● Cu/Al		●		●	● OPT		C&P

* (GWP): R-134a (1430), R32 (675), R1234ze (7), R-513A (631)
** STD: Included as standard, OPT: Available option
*** BPHE: Brazed plate heat exchanger, S&T: Single pass shell and tube exchanger
**** MC: Microchannel exchanger, Cu/Al: Copper tube Aluminium fin exchanger
***** Ecodesign Compliance: C&P = Comfort and Process Applications, C = Comfort Applications, P = Process Applications, NA = Exempt
****** Mandatory commissioning by Daikin Airconditioning UK, see Commercial price book page 317

Mini chillers

Ideal for residential applications, 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 class-leading SEER's.

Air cooled scroll chillers & heat pump chillers

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

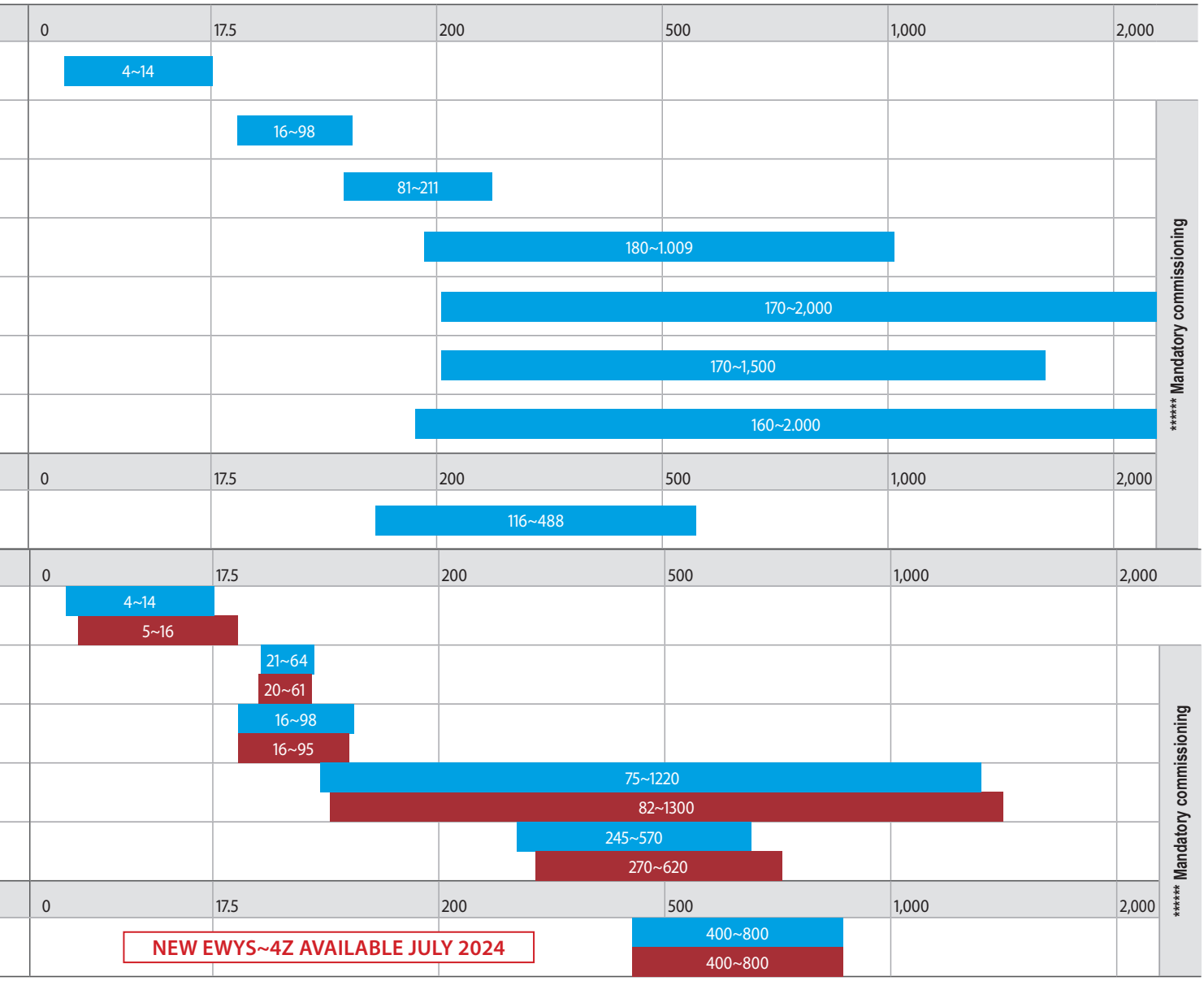
Air cooled screw chillers

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

Ecodesign

Air cooled Applied products indicated are Ecodesign Lot 1 compliant (Heat pumps below 400kW valid from 25 September 2017) or Lot 21-Tier 2 compliant (Chillers below 2MW valid from 01 January 2021).

Cooling capacity (kW) : Heating capacity (kW)



ErP compliant

Products overview

			Refrigerant Type*	Refrigerant circuits	Inverter	Compressor			Water heat exchangers				Efficiency version			Sound version	Ecodesign Compliance ****
									Evaporator		Condenser						
						Scroll	Screw	Centrifugal	BPHE **	S&T ***	BPHE **	S&T ***	Standard	High	Premium	Standard	
Water cooled chillers (Cooling only and heating only operation)																	
	EWWQ~KC		R-410A	1-2		●			●		●		●			●	HP
POA	EWWT~Q- NEW		R32	1		●			●		●		●			●	C&P
POA	EWHT~Q- NEW		R32	1		●			●		●		●			●	C&P
POA	EWHQ~G-		R-410A	1		●			●		●		●			●	C&P
POA	EWWQ~G-		R-410A	1		●			●		●		●			●	C&P
POA	EWWQ~L-		R-410A	2		●			●		●		●			●	C&P
POA	EWWD~J-		R-134a	1			●		●			● 2,4 pass	●			●	HP
POA	EWWH~J-		R-1234ze	1			●		●			● 2,4 pass	●			●	HP
POA	EWWS~J-		R-513A	1			●		●			● 2,4 pass	●			●	HP
POA	EWWD~VZ LOOP BY DAIKIN		R-134a	1-2	●		●			● Flooded 1, 2, 3 pass		● 1,2 pass	●	●	●	●	C&P
POA	EWWH~VZ		R-1234ze	1-2	●		●			● Flooded 1, 2, 3 pass		● 1,2 pass	●	●	●	●	C&P
POA	EWWS~VZ		R-513A	1-2	●		●			● Flooded 1, 2, 3 pass		● 1,2 pass	●	●	●	●	C&P
Water cooled centrifugal chillers																	
POA	EWWD~DZ LOOP BY DAIKIN		R-134a	1	●			●		● Flooded 1, 2, 3 pass		● 1, 2, 3 pass		●		●	C&P
POA	EWWH~DZ		R-1234ze	1	●			●		● Flooded 1, 2, 3 pass		● Flooded 1, 2, 3 pass		●		●	C&P
POA	EWWS~DZ		R-513A	1	●			●		● Flooded 1, 2, 3 pass		● 1, 2, 3 pass		●		●	C&P

* (GWP) : R-410A (2087.5), R-134a (1430), R1234ze (7), R-513A (631)
** BPHE: Brazed plate heat exchanger
*** S&T: Shell and tube exchanger
**** Ecodesign Compliance: C&P = Comfort and Process Applications, HP = Heat Pump Applications
***** Mandatory commissioning by Daikin Airconditioning UK, see Commercial price book page 317

Water cooled scroll chillers

These units are among the most efficient, quiet and reliable chillers available today and can be easily integrated with the HVAC system of your choice. Their compact, modular design makes them ideal for replacement projects.

Water cooled screw chillers

The Daikin water cooled screw chillers provide the ideal solution for sound-sensitive environments. Applications range from comfort cooling to ice making. Operated as a heat pump, the higher leaving water temperatures up to 75°C provides an ideal solution for LPHW or district heating schemes.

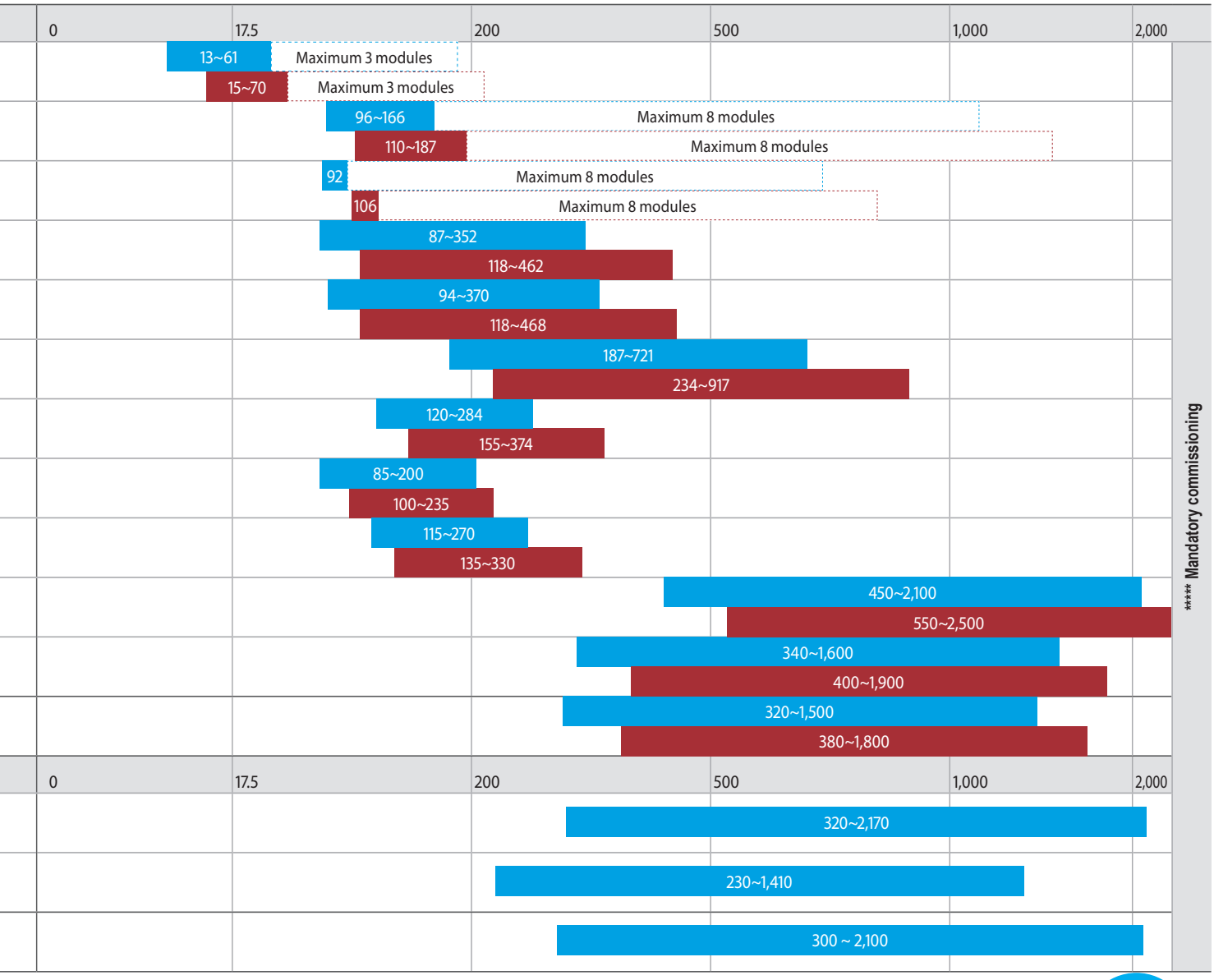
Water Cooled Oil Free Centrifugal chiller

Units fitted with centrifugal compressors utilising frictionless magnetic bearings for oil-free operation, integrated variable-frequency drives, and high-speed direct drive technology. Ideal for extremely low sound sensitive environments requiring highest levels of efficiency.

Ecodesign

Water cooled Applied products indicated are Ecodesign Lot 1 compliant (Heat pumps below 400kW valid from 25 September 2017) or Lot 21-Tier 2 compliant (Chillers below 2MW valid from 01 January 2021).

Cooling capacity (kW) : Heating capacity (kW)



ErP compliant

Products overview

			Refrigerant Type*	Refrigerant circuits	Inverter	Compressor			Water heat exchangers				Efficiency version			Sound version	Ecodesign Compliance ****
									Evaporator		Condenser						
						Scroll	Screw	Centrifugal	BPHE **	S&T ***	BPHE **	S&T ***	Standard	High	Premium	Standard	
Condenserless chillers																	
	EWLQ~KC		R-410A	1-2		●			●				●			●	NA
POA	EWLT~Q- NEW		R32	1		●			●				●			●	NA
POA	EWLQ~G-		R-410A	1		●			●				●			●	NA
POA	EWLQ~L-		R-410A	2		●			●				●			●	NA
POA	EWLD~J-		R-134a	1			●		●				●			●	NA
POA	EWLH~J-		R-1234ze	1			●		●				●			●	NA
POA	EWLS ~J-		R-513A	1			●		●				●			●	NA
POA	EWLD~I-		R-134a	1-2-3			●			● 1 pass			●			●	NA

* (GWP) : R-410A (2087.5), R-134a (1430), R1234ze (7), R-513A (631)
** BPHE: Brazed plate heat exchanger
*** S&T: Shell and tube exchanger
**** Ecodesign Compliance: NA = Exempt
***** Mandatory commissioning by Daikin Airconditioning UK, see Commercial price book page 317

Condenserless Scroll Chillers

These units are among the most efficient, quiet and reliable chillers available today and can be easily integrated with the HVAC system of your choice. Their compact, modular design makes them ideal for replacement projects.

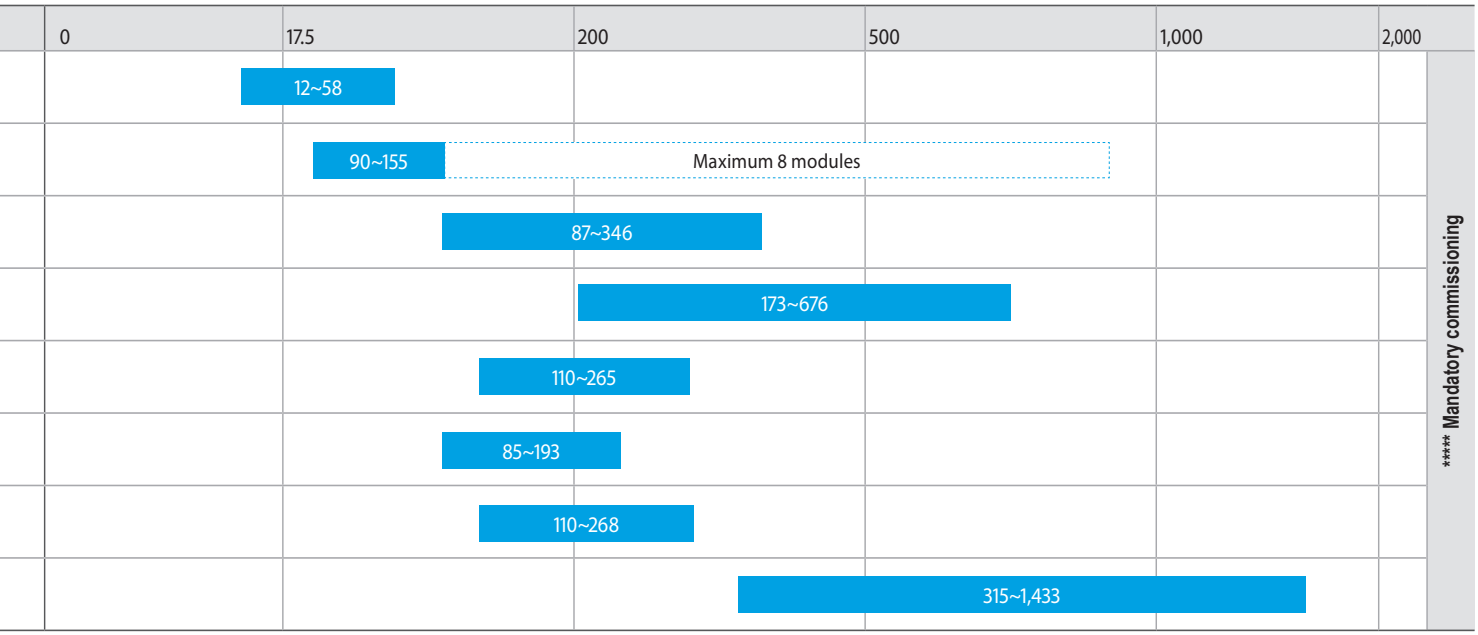
Condenserless Screw Chillers

The Daikin condenserless screw chillers provide the ideal solution for sound-sensitive environments. Suitable for any kind of remote condenser application ranging from comfort cooling to ice making.

Ecodesign

Condenserless Applied products indicated are Ecodesign Lot 1 compliant (Heat pumps below 400kW valid from 25 September 2017) or Lot 21-Tier 2 compliant (Chillers below 2MW valid from 01 January 2021).

Cooling capacity (kW) : Heating capacity (kW)



ErP compliant

Air cooled mini inverter chiller

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

EWAA004-008DV3P

EWAA011-016DV3P-H / DW1P-H

Air Cooled- R32 Inverter Swing Compressor - Cooling Only - Single Phase Models								
Model			**EWAA004DV3P-H-**	**EWAA006DV3P-H-**	**EWAA008DV3P-H-**	**EWAA011DV3P-H-**	**EWAA014DV3P-H-**	**EWAA016DV3P-H-**
Cooling capacity	Nom.	kW	4.52	5.09	5.44	11.6	12.8	14.0
Power input	Cooling Nom.	kW	1.36	1.55	1.73	3.56	4.06	4.58
Capacity control	Method		Variable (Inverter)					
EER			3.32	3.28	3.14	3.26	3.16	3.06
SEER			-	-	-	5.79	5.71	5.59
Dimensions	Height x Width x Depth	mm	770 x 1250 x 662			870 x 1380 x 460		
Operating weight		kg	88			147		
Water heat exchanger	Type		Brazed Plate					
Water flow rate	Cooling Nom.	l/s	0.21	0.25	0.27	0.55	0.61	0.67
Pump	Available Head	kPa	73.0	72.0	71.0	99.2	94.1	88.4
Air heat exchanger	Type		Cu/Al - High efficiency fin and tube type with integral subcooler					
Compressor	Type		Hermetically sealed swing inverter compressor					
	Quantity		1					
Fan	Type		Direct Propeller					
	Quantity		1					
Sound power level	Cooling Nom.	dBA	61	62	62	67	69	69
Sound pressure level	Cooling Nom.	dBA	48.0	49.0	50.0	47.7	50.8	51.0
Refrigerant	Type/GWP		R32/675					
	Total charge	kg	1.35			3.8		
	Quantity of circuits		1					
Piping connections	Evaporator water inlet/outlet (OD)	mm	1					
Electrical data	Voltage/Phase/Frequency	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50

Air Cooled- R32 Inverter Swing Compressor - Cooling Only - Three Phase Models					
Model			**EWAA011DW1P-H-**	**EWAA014DW1P-H-**	**EWAA016DW1P-H-**
Cooling capacity	Nom.	kW	11.6	12.8	14.0
Power input	Cooling Nom.	kW	3.56	4.06	4.58
Capacity control	Method		Variable (Inverter)		
EER			3.26	3.16	3.06
SEER			5.79	5.71	5.59
Dimensions	Height x Width x Depth	mm	870 x 1380 x 460		
Operating weight		kg	147		
Water heat exchanger	Type		Brazed Plate		
Water flow rate	Cooling Nom.	l/s	0.55	0.61	0.67
Pump	Available Head	kPa	99.2	94.1	88.4
Air heat exchanger	Type		Cu/Al - High efficiency fin and tube type with integral subcooler		
Compressor	Type		Hermetically sealed swing inverter compressor		
	Quantity		1		
Fan	Type		Direct Propeller		
	Quantity		1		
Sound power level	Cooling Nom.	dBA	67	69	69
Sound pressure level	Cooling Nom.	dBA	47.7	50.8	51.0
Refrigerant	Type/GWP		R32/675		
	Total charge	kg	3.8		
	Quantity of circuits		1		
Piping connections	Evaporator water inlet/outlet (OD)	mm	1		
Electrical data	Voltage/Phase/Frequency	V/Ph/Hz	400/3/50	400/3/50	400/3/50

Notes:

i) Please contact your local sales office for further information on these products – Download information from www.daikin.co.uk

ii) Nominal cooling capacities are based on 35°C ambient, chilled water @12/7°C

iii) EWAA-DV/DW series only operate in cooling mode down to ambient temperatures of +10°C

Air cooled scroll inverter chiller

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

EWAT-CZ

			Single Circuit Models									
Model			**EWAT016CZNBA1**		**EWAT021CZNBA1**		**EWAT025CZNBA1**		**EWAT032CZNBA1**		**EWAT040CZNBA1**	
Operating Mode			**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**
Cooling capacity	Nom./Max.	kW	15.87	18.30	20.87	25.00	25.57	29.30	32.38	38.60	39.58	45.20
Power input	Cooling Nom.	kW	5.5	6.8	6.6	8.5	8.5	10.7	9.3	13.5	12.4	16.7
Capacity control	Method		Variable (Inverter)									
	Minimum capacity	%	18		14		12		19		15	
EER	Nom.		2.90	2.69	3.16	2.94	3.00	2.74	3.13	2.87	2.95	2.71
SEER			5.00		5.00		5.06		5.21		5.09	
IPLV			5.82		6.30		6.04		6.24		5.86	
Dimensions	Height x Width x Depth	mm	1878 x 1152 x 810		1878 x 1152 x 810		1878 x 1152 x 810		1878 x 1753 x 810		1878 x 1753 x 810	
Unit weight		kg	280		280		280		424		424	
Operating weight		kg	281		282		282		426		426	
Water heat exchanger	Type		Brazed plate									
Water flow rate	Cooling Nom.	l/s	0.76	0.90	1.00	1.20	1.22	1.40	1.55	1.80	1.89	2.20
Water pressure drop	Cooling Nom.	kPa	19.8	25.5	11.3	15.6	16.3	20.7	19.2	26.3	27.6	35.0
Air heat exchanger	Type		Cu/Al - Copper tube Aluminium fin exchanger									
Compressor	Type		Hermetically Sealed Scroll Compressor									
	Quantity		1		1		1		1		1	
Fan	Type		Axial/VFD									
	Quantity		1		1		1		2		2	
	Total Air Flow	l/s	3228		3122		3524		5080		6701	
Sound power level	Cooling Nom.	dBA	76		76		78		79		80	
Sound pressure level @1m	Cooling Nom.	dBA	60		60		62		62		63	
Refrigerant	Type/GWP		R32/675									
	Total charge	kg	3.0		5.5		5.5		7.0		8.0	
	Quantity of circuits		1		1		1		1		1	
Piping connections	Evaporator water inlet/outlet (OD)	mm	1 1/4" (Female)		1 1/4" (Female)		1 1/4" (Female)		1 1/4" (Female)		1 1/4" (Female)	
Electrical data	Running current - Cooling	A	13.8	15.0	15.5	18.0	18.1	21.0	25.3	29.0	28.6	32.0
	Running current Max	A	18.8	19.0	23.1	23.0	25.8	26.0	37.4	37.0	41.8	42.0
	Voltage / Phase / Frequency	V/Ph/Hz	400/3/50									

Model with options

Base Unit + Op.191 (Evaporator Trace Heater)		**EWAT016CZNBA1**	**EWAT021CZNBA1**	**EWAT025CZNBA1**	**EWAT032CZNBA1**	**EWAT040CZNBA1**
Base Unit + Low Head Pump + Op.191 (Evaporator Trace Heater)		**EWAT016CZPBA1**	**EWAT021CZPBA1**	**EWAT025CZPBA1**	**EWAT032CZPBA1**	**EWAT040CZPBA1**
Available Pump Head @ Nominal Flow Rate	kPa	240	230	200	180	160
Base Unit + High Head Pump + Op.191 (Evaporator Trace Heater)		**EWAT016CZHBA1**	**EWAT021CZHBA1**	**EWAT025CZHBA1**	**EWAT032CZHBA1**	**EWAT040CZHBA1**
Available Pump Head @ Nominal Flow Rate	kPa	470	460	420	400	370
Base Unit + Op.218 (Partial Heat Recovery) Model		**EWAT016CZNCA1**	**EWAT021CZNCA1**	**EWAT025CZNCA1**	**EWAT032CZNCA1**	**EWAT040CZNCA1**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	3.1	4.1	5.0	6.3	7.7
Base Unit + Low Head Pump + Op.218 (Partial Heat Recovery)		**EWAT016CZPCA1**	**EWAT021CZPCA1**	**EWAT025CZPCA1**	**EWAT032CZPCA1**	**EWAT040CZPCA1**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	3.1	4.1	5.0	6.3	7.7
Base Unit + High Head Pump + Op.218 (Partial Heat Recovery)		**EWAT016CZHCA1**	**EWAT021CZHCA1**	**EWAT025CZHCA1**	**EWAT032CZHCA1**	**EWAT040CZHCA1**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	3.1	4.1	5.0	6.3	7.7

Accessories:

Accessory Ref	Description
EKRSCTMS	Temperature sensor for master/slave configuration
EKRSCIO	IO Extension for VPF, domestic hot water, demand limit, setpoint reset, low noise
EKRSCBMS	External BMS Communication (Modbus RTU/TCP, Bacnet MSTP/IP)
EKRSCSM	DoS Router c/w Antenna & M2M Sim Card
EKRSCDP	Differential Pressure Transducer for VPF

Notes:

i) Please contact your local sales office for further information on these products – Download information from www.daikin.co.uk

ii) Nominal cooling capacities are based on 35°C ambient, chilled water @12/7°C

iii) EWAT-CZ series can operate in cooling down to ambient temperatures of -15°C as standard

Air cooled scroll inverter chiller

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

EWAT-CZ

			Dual Circuit Models							
Model			**EWAT040BCZNBA2**		**EWAT050CZNBA2**		**EWAT064CZNBA2**		**EWAT090CZNBA2**	
Operating Mode			**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**
Cooling capacity	Nom./Max.	kW	41.37	49.60	50.75	58.20	63.95	72.70	88.26	98.30
Power input	Cooling Nom.	kW	13.2	17.3	17.0	21.3	21.8	27.4	31.00	38.20
Capacity control	Method		Variable (Inverter)							
	Minimum capacity	%	14		12		15		14	
EER	Nom.		3.12	2.87	2.98	2.73	2.93	2.65	2.84	2.57
SEER			5.41		5.33		5.21		5.03	
IPLV			6.37		5.93		5.87		5.60	
Dimensions	Height x Width x Depth	mm	1878 x 2304 x 810		1878 x 2304 x 810		1878 x 2905 x 810		1878 x 3506 x 810	
Unit weight		kg	560		560		704		848	
Operating weight		kg	565		565		709		856	
Water heat exchanger	Type		Brazed plate							
Water flow rate	Cooling Nom.	l/s	1.97	2.40	2.42	2.80	3.05	3.50	4.21	4.70
Water pressure drop	Cooling Nom.	kPa	9.9	13.7	14.3	18.3	21.7	27.4	20.1	24.4
Air heat exchanger	Type		Cu/Al - Copper tube Aluminium fin exchanger							
Compressor	Type		Hermetically Sealed Scroll Compressor							
	Quantity		2		2		2		2	
Fan	Type		Axial/VFD							
	Quantity		2		2		3		4	
	Total Air Flow	l/s	5444		7048		8967		13402	
Sound power level	Cooling Nom.	dBA	80		81		83		85	
Sound pressure level @1m	Cooling Nom.	dBA	63		64		65		67	
Refrigerant	Type/GWP		R32/675							
	Total charge	kg	12.0		12.0		13.0		16.0	
	Quantity of circuits		2		2		2		2	
Piping connections	Evaporator water inlet/outlet (OD)	mm	2" (Female)		2" (Female)		2" (Female)		2" (Female)	
Electrical data	Running current - Cooling	A	29.5	34.0	34.2	40.0	45.8	53.0	61.7	70.0
	Running current Max	A	45.2	45.0	50.7	51.0	66.7	67.0	91.4	91.0
	Voltage/Phase/Frequency	V/Ph/Hz	400/3/50							

Model with options

Base Unit + Op.191 (Evaporator Trace Heater)		**EWAT040BCZNBA2**	**EWAT050CZNBA2**	**EWAT064CZNBA2**	**EWAT090CZNBA2**
Base Unit + Low Head Pump + Op.191 (Evaporator Trace Heater)		**EWAT040BCZPBA2**	**EWAT050CZPBA2**	**EWAT064CZPBA2**	**EWAT090CZPBA2**
Available Pump Head @ Nominal Flow Rate	kPa	190	160	210	170
Base Unit + High Head Pump + Op.191 (Evaporator Trace Heater)		**EWAT040BCZHBA2**	**EWAT050CZHBA2**	**EWAT064CZHBA2**	**EWAT090CZHBA2**
Available Pump Head @ Nominal Flow Rate	kPa	400	360	325	280
Base Unit + Op.218 (Partial Heat Recovery)		**EWAT040BCZNCA2**	**EWAT050CZNCA2**	**EWAT064CZNCA2**	**EWAT090CZNCA2**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	8.1	9.9	12.6	17.4
Base Unit + Low Head Pump + Op.218 (Partial Heat Recovery)		**EWAT040BCZPCA2**	**EWAT050CZPCA2**	**EWAT064CZPCA2**	**EWAT090CZPCA2**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	8.1	9.9	12.6	17.4
Base Unit + High Head Pump + Op.218 (Partial Heat Recovery)		**EWAT040BCZHCA2**	**EWAT050CZHCA2**	**EWAT064CZHCA2**	**EWAT090CZHCA2**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	8.1	9.9	12.6	17.4

Accessories:

Accessory Ref	Description
EKRSCTMS	Temperature sensor for master/slave configuration
EKRSCIO	IO Extension for VPF, domestic hot water, demand limit, setpoint reset, low noise
EKRSCBMS	External BMS Communication (Modbus RTU/TCP, Bacnet MSTP/IP)
EKRSCSM	DoS Router c/w Antenna & M2M Sim Card
EKRSCDP	Differential Pressure Transducer for VPF

Notes:

i) Please contact your local sales office for further information on these products – Download information from www.daikin.co.uk

ii) Nominal cooling capacities are based on 35°C ambient, chilled water @12/7°C

iii) EWAT-CZ series can operate in cooling down to ambient temperatures of -15°C as standard

Daikin is the world's first company to introduce an air cooled scroll chiller series with R-32 refrigerant

EWAT-B-B

Multi scroll chiller with R-32 refrigerant

BLUEVOLUTION

R-32

- Seasonal Energy Efficiency Ratio (SEER) up to 4.6
- Environmental friendly refrigerant
- R-32 optimised scroll compressors and heat exchangers
- The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410
- The low GWP R-32 refrigerant falls into category class A2L in ISO817 and it can be safely used in many applications including chilled water systems
- As a single component refrigerant, R-32 is also easier to recycle and reuse – another environmental plus in its favour
- Nominal cooling capacity range: 81 – 217 kW
- Microchannel condensing coil, for reduced refrigerant charge
- Silver and Gold efficiency versions
- 3 sound configurations
- Full compatibility with Daikin on Site
- Hydronic Kit configurations (single and twin pump, inertial tank, VFD)
- Single and dual circuit models
- Extensive option lists
- Inverter controlled fans as standard (Common VFD)

Extensive options list:

› Partial heat recovery

› Buffer tank

› VFD pumps and variable flow control

› Master/Slave supplied standard (Max 4 units)

› Intelligent Chiller Manager (iCM) sequencing logic available as option

Single-V Layout

› Slim layout
› Microchannel condenser coil allowing reduction in refrigeration charge when compared to previous Copper Pipe / Aluminium Fin versions.
› Higher flexibility: new intermediate sound configuration for both Silver and Gold versions

EWYT**5B- with onboard tank option

Daikin on Site

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

› Remote monitoring
› System optimisation
› Preventive maintenance
› Remote access with one click via LAN or GSM modem

DAIKIN ON SITE

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 customisation of the control solutions to the specific installation's needs:

› High number of units
› Peripheral controls

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

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing 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 independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised 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 minimise the overall chiller power input

EWAT-B- Single-V with optional buffer tank

MicroTech 4

Cooling Only				EWAT-B-SSB/SLB	085	115	135	155	175	195	205	215
Space cooling	A Condition 35°C Pdc			kW	80.92	108.97	131.42	158.15	174.93	191.39	210.53	217.08
	ηs,c			%	161	173	161		176.2	170.6	173	161
	ηs,c + VFDFAN			%	-							
SEER					4.1	4.4	4.1		4.48	4.34	4.4	4.1
SEER + VFDFAN					-							
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					4.65	4.92	4.46	4.68	4.78	4.84	4.86	4.7
Dimensions	Unit	Height		mm	1,801			1,822	1,801	1,822		
		Width		mm	1,204							
		Length		mm	2,120	2,660		3,570	3,180	4,170		3,780
Weight (SSB)	Unit			kg	681	767	811	1,007	984	1,166	1,158	1,184
	Operation weight			kg	686	773	820	1,014	996	1,177	1,169	1,200
Weight (SLB)	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				Brazed plate							
	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 (SSB)			kg	7.1	8.4		12.4	10.7	14.1	14.4	12.7
	Charge (SLB)			kg	7.1	8.2	8.4	12.4	10.7	14	13.4	12.7
	Circuits	Quantity			1			2	1	2		1
Piping connections	Evaporator water inlet/outlet (OD)				76.1			88.9	76.1	88.9		76.1
Unit	Starting current	Max		A	213	313	324	284	462	384	395	498
	Running current	Cooling	Nom.	A	59	69	83	108	113	117	131	142
		Max		A	73	86	96	143	132	156	167	168
Power supply	Phase/Frequency			Hz	3~/50							

Air cooled scroll chiller, standard efficiency, reduced sound

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing an R-32 product reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised 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 minimise the overall chiller power input

EWAT-B- Single-V with optional buffer tank

MicroTech 4

Cooling Only				EWAT-B-SRB	085	115	135	155	175	195	205	215
Space cooling	A Condition 35°C	Pdc		kW	76.49	105	123.88	150.13	164.87	181.31	200.51	203.5
	ηs,c			%	161	173	161		166.2	162.2	167.8	161
SEER					4.1	4.4	4.1		4.23	4.13	4.27	4.1
Cooling capacity	Nom.			kW	76	105	124	150	165	181	201	204
Power input	Cooling	Nom.		kW	33.7	40.3	53	65.9	73	73.2	84.6	91.9
Capacity control	Method				Step							
	Minimum capacity			%	50	38	50	25	38	21	19	50
EER					2.27	2.61	2.34	2.28	2.26	2.48	2.37	2.21
IPLV					4.67	4.97	4.5	4.63	4.74	4.64	4.91	4.66
Dimensions	Unit	Height		mm	1,801			1,822	1,801	1,822		
		Width		mm	1,204							
		Length		mm	2,120	2,660		3,570	3,180	4,170		3,780
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				Brazed plate							
	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	78.6	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	7.1	8.4		13	10.7	13.9	14.4	12.3
	Circuits	Quantity			1			2	1	2		1
Piping connections	Evaporator water inlet/outlet (OD)				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							

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

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing an R-32 product reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised 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 minimise the overall chiller power input

EWAT-B- Single-V with optional buffer tank

MicroTech 4

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					4.83	5	4.82	4.74
Dimensions	Unit	Height		mm	1,801		1,822	1,822
		Width		mm	1,204			1,204
		Length		mm	2,660	3,180	3,780	3,780
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 (XSB)			kg	8.6	9.7	10.7	11.2
	Charge (XLB)			kg	8.6	9.4	11.2	11.2
	Circuits	Quantity				1		1
Piping connections	Evaporator water inlet/outlet (OD)					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			

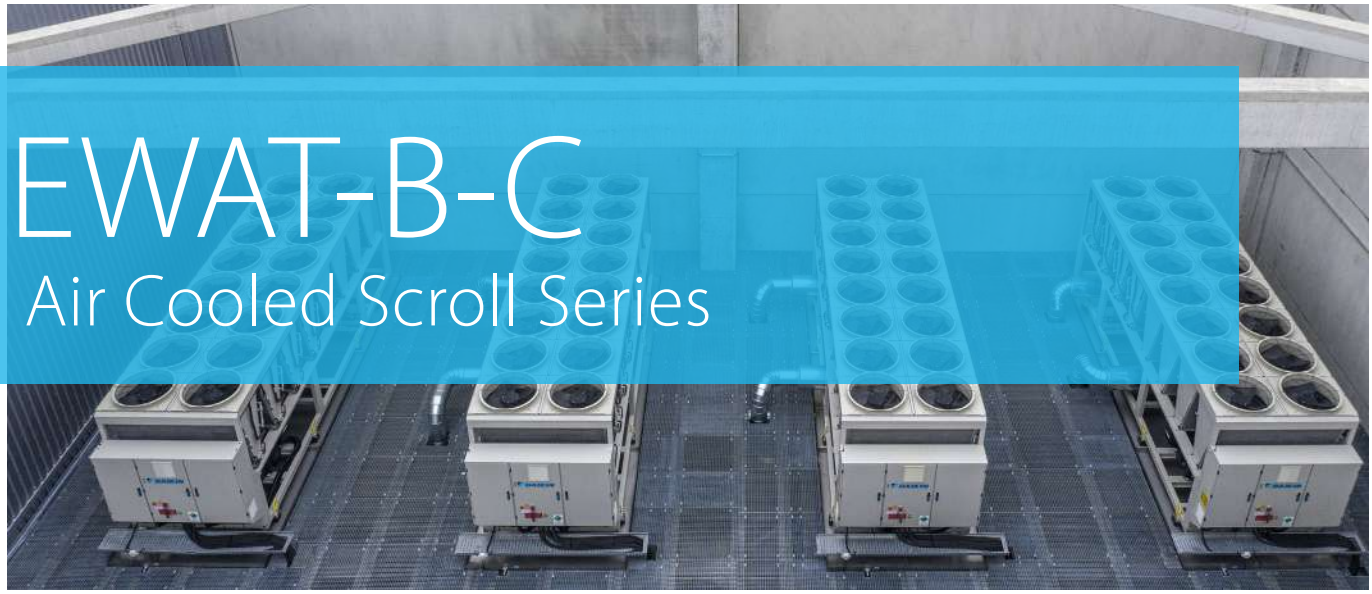
Air cooled scroll chiller, high efficiency, reduced sound

- First R-32 air cooled chiller with Scroll compressors in the market
- Choosing an R-32 product reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller with superior control logic and easy interface
- Low operating cost and extended operating life thanks to the careful design aimed to optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised 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 minimise the overall chiller power input

EWAT-B- Single-V with optional buffer tank

MicroTech 4

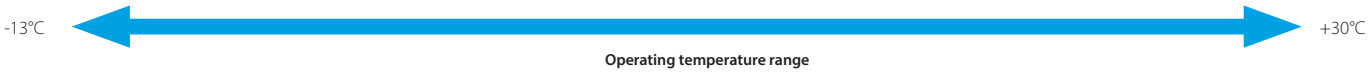
Cooling Only				EWAT-B-XRB	085	115	145	185
Space cooling	A Condition 35°C	Pdc		kW	81.86	108.59	135.62	166.16
	ηs,c			%	213.28	179.4	166.6	164.6
SEER					4.13	4.56	4.24	4.19
Cooling capacity	Nom.			kW	82	109	136	166
Power input	Cooling	Nom.		kW	30.8	38.9	46.9	70.5
Capacity control	Method				Step			
	Minimum capacity			%	50	38	50	38
EER					2.66	2.79	2.89	2.36
IPLV					4.74	5.1	4.76	4.72
Dimensions	Unit	Height		mm	1,801		1,822	1,822
		Width		mm	1,204			1,204
		Length		mm	2,660	3,180	3,780	3,780
Weight	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	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	8.4	9.1	10.3	11.8
	Circuits	Quantity			1			1
Piping connections	Evaporator water inlet/outlet (OD)				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
Air Cooled Scroll Series

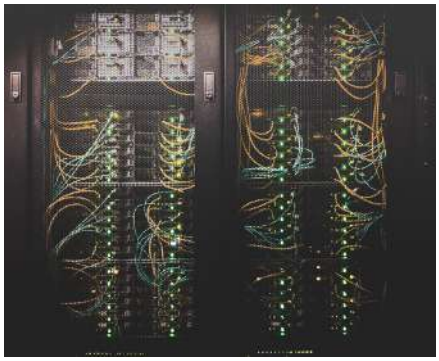
Suitable for data centre, comfort and process applications

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

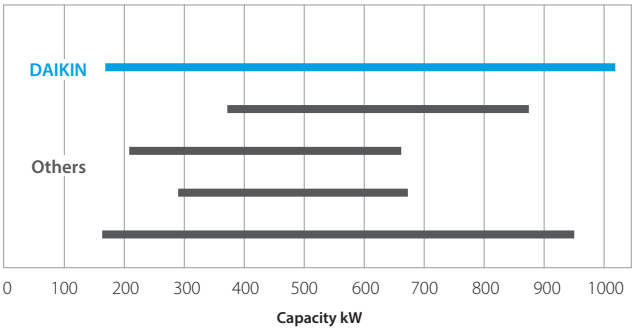
Comfort cooling



Datacenter cooling

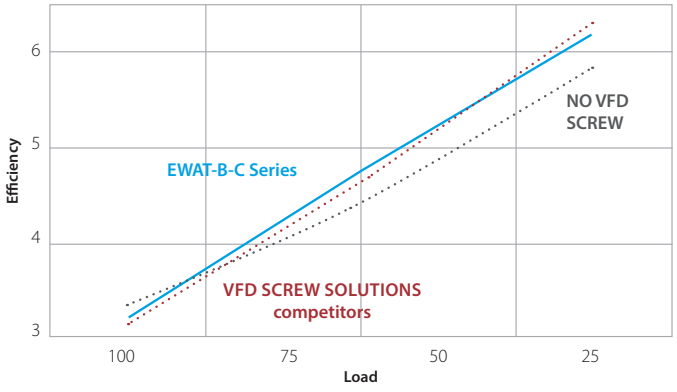
Large capacity

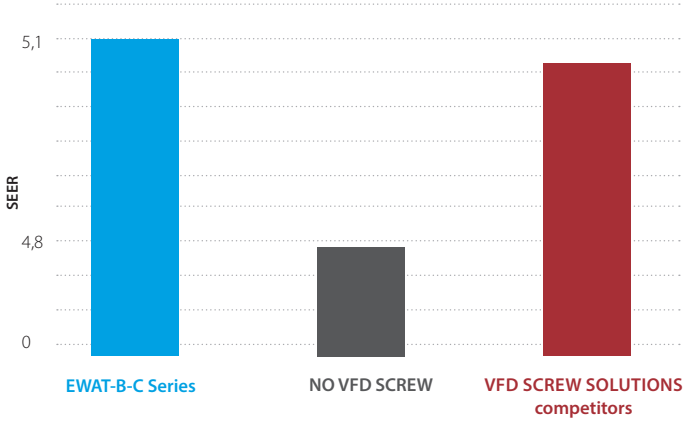
Daikin EWAT-B-C is available in large range of capacity, up to 1 MW (Referred to standard rating conditions).



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

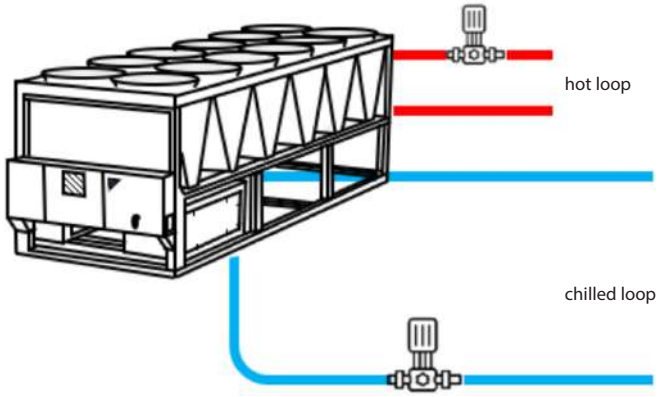
The EWAT-B-C chiller, thanks to the extended capacity, offers a wide range of solutions with opportunities to deal with a great variety of projects.

Suitable for mission critical applications (data centres)

With inclusion of Rapid Restart option, capacity can be fully restored within 180 seconds after the power is restored.

Heat recovery options

Decarbonisation 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.



Why choose the Daikin Air Cooled Scroll Series?

- Top class efficiency
- Two efficiency versions available
- Low environmental impact compared to traditional R410A
- Optimised system solutions
- Low running costs
- Extensive application possibilities
- Three sound versions available
- Capacity range from 170 kW to 1 MW

BLUEVOLUTION

Possibility for inclusion of on-board hydronic free cooling on the EWFT~B- C version with zero impact on the unit footprint

One or two truly independent refrigerant circuits for outstanding reliability

New performance monitoring option

Advanced Connectivity possibilities, including Daikin Cloud based monitoring option with Refrigeration leak detection logic

BLUEVOLUTION R-32

Air cooled scroll compressor chiller, standard efficiency, standard sound

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

EWAT-B-SSC

MicroTech 4

Mechanical Cooling Only Standard Efficiency, Standard Sound					EWAT	250B-SSC2	270B-SSC2	310B-SSC1	320B-SSC2	350B-SSC1	380B-SSC2	430B-SSC2	480B-SSC2	570B-SSC2	620B-SSC2	670B-SSC2	730B-SSC2	790B-SSC2	860B-SSC2	960B-SSC2
Space cooling	A Condition 35°C	Pdc		kW		249.00	269.10	305.92	317.98	345.59	381.40	426.61	477.56	567.34	622.34	668.92	734.97	791.18	857.22	961.63
	ηs,c			%		185.4	182.2	184.6	177.7	181.2	183.0	184.9	183.0	190.4	188.9	188.1	190.4	190.8	192.6	189.0
SEER						4.71	4.63	4.689	4.517	4.604	4.649	4.698	4.649	4.834	4.797	4.778	4.834	4.844	4.889	4.801
Cooling capacity	Nom.			kW		249.00	269.10	305.92	317.98	345.59	381.40	426.61	477.56	567.34	622.34	668.92	734.97	791.18	857.22	961.63
Power input	Cooling	Nom.		kW		83.3	93.11	106.6	115.0	130.0	125.2	148.6	176.0	185.5	213.1	237.0	248.6	273.9	285.5	335.1
Capacity control	Method					Step														
	Minimum capacity			%		17	25	22	21	19	18	16	14	22	20	18	17	15	14	25
EER						2.989	2.890	2.869	2.764	2.658	3.046	2.871	2.714	3.058	2.921	2.823	2.957	2.889	3.002	2.870
IPLV						5.08	5.07	4.948	4.794	4.948	4.849	4.907	4.940	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		2,510					3,590			4,670			5,750	5,850	6,930	
Weight	Unit			kg		2019	2063	2,080	2,120	2,200	2,620	2,800	2,920	3,500	3,670	3,780	4,310	4,670	5,120	5,310
	Operation weight			kg		2039	2083	2,099	2,146	2,228	2,646	2,837	2,960	3,555	3,747	3,856	4,385	4,743	5,196	5,412
Air heat exchanger	Type					Microchannel														
Compressor	Type					Scroll compressor														
	Quantity					4		3	4	3	4		5		6			7		8
Fan	Type					Direct propeller														
	Quantity					4					6			8			10		12	
	Air flow rate	Cooling	Nom.	l/s		25,500		25,490	25,500	25,490	38,240			50,980			63,730		76,480	
Sound power level	Cooling	Nom.		dBA		92.3	92.6	94.0	93.8	94.5	95.1	95.6	95.9	96.7	97.0	97.3	97.9	98.1	98.6	99.0
Sound pressure level	Cooling	Nom.		dBA		73.2	73.5	74.9	74.7	75.5	75.4	75.9	76.2	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		18.0	18.0	22.0	25.0	30.0	31.0	35.0	39.0	45.0	50.0	53.0	59.0	63.0	68.0	77.0
	Circuits	Quantity				2		1	2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)			mm		88.9								139.7						
Unit	Starting current	Max		A		464	482	693	697	735	750	792	838	891	936	979	1,032	1,079	1,132	1,220
	Running current	Cooling	Nom.	A		152	163	186	200	224	222	260	304	329	374	413	438	479	505	585
		Max		A		199	216	245	249	287	302	344	390	443	488	531	584	631	684	772
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400														

Air cooled scroll compressor chiller, standard efficiency, reduced sound

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

EWAT-B-SRC

MicroTech 4

Mechanical Cooling Only Standard Efficiency, Reduced Sound				EWAT	250B-SRC2	270B-SRC2	310B-SRC1	320B-SRC2	350B-SRC1	380B-SRC2	430B-SRC2	480B-SRC2	570B-SRC2	620B-SRC2	670B-SRC2	730B-SRC2	790B-SRC2	860B-SRC2	960B-SRC2
Space cooling	A Condition 35°C	Pdc	kW		243.50	262.50	297.62	308.38	334.14	373.60	415.25	463.29	553.35	605.02	647.77	714.95	768.57	835.75	933.57
	ηs,c		%		201.4	187.4	197.5	185.0	189.2	192.8	193.5	193.1	202.0	200.3	197.9	205.2	206.3	208.4	201.8
SEER					5.110	4.760	5.013	4.700	4.806	4.895	4.913	4.902	5.124	5.083	5.022	5.206	5.232	5.284	5.121
Cooling capacity	Nom.			kW	243.50	262.50	297.62	308.38	334.14	373.60	415.25	463.29	553.35	605.02	647.77	714.95	768.57	835.75	933.57
Power input	Cooling	Nom.		kW	82.5	92.91	108.0	117.1	133.5	124.4	149.9	179.2	186.4	216.0	242.2	251.4	278.3	287.5	341.0
Capacity control	Method				Step														
	Minimum capacity			%	17	25	22	21	19	18	16	14	22	20	18	17	15	14	25
EER					2.951	2.825	2.757	2.634	2.502	3.003	2.771	2.586	2.969	2.801	2.674	2.844	2.762	2.907	2.738
IPLV					5.54	5.34	5.485	4.999	5.319	5.324	5.339	5.382	5.557		5.525	5.650	5.484	5.630	5.550
Dimensions	Unit	Height		mm	2,535														
		Width		mm	2,238														
		Depth		mm	2,514					3,594			4,674			5,754	5,848	6,928	
Weight	Unit			kg	2107	2151	2,164	2,206	2,288	2,705	2,920	3,063	3,634	3,828	3,937	4,467	4,845	5,298	5,512
	Operation weight			kg	2127	2171	2,187	2,234	2,316	2,733	2,959	3,099	3,694	3,905	4,014	4,544	4,922	5,375	5,611
Air heat exchanger	Type				Microchannel														
Compressor	Type				Scroll compressor														
	Quantity				4		3		4			5		6			7		8
Fan	Type				Direct propeller														
	Quantity				4				6			8			10		12		
	Air flow rate	Cooling	Nom.	l/s	21,460		21,470	21,460	21,470	32,200			42,940			53,670		64,400	
Sound power level	Cooling	Nom.		dBA	87.5	87.6	87.9	87.8	88.1	89.5	89.6	89.7	90.8	90.9	91.0	91.9		92.6	92.7
Sound pressure level	Cooling	Nom.		dBA	68.4	68.5	68.8		69.0	69.8	69.9	70.0	70.6	70.7	70.8	71.2		71.5	71.6
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	45	50	53	59	63	68	77
	Circuits	Quantity			2		1	2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)			mm	88.9								139.7						
Unit	Starting current	Max		A	464	482	693	697	735	750	792	838	891	936	979	1,032	1,078	1,131	1,219
	Running current	Cooling	Nom.	A	151	165	195	210	236	232	272	319	344	392	434	459	503	529	615
		Max		A	199	216	245	249	287	302	344	390	443	488	531	584	630	683	771
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400														

Air cooled scroll compressor chiller, high efficiency, standard sound

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

EWAT-B-XSC

MicroTech 4

Mechanical Cooling Only High Efficiency, Standard Sound				EWAT	180B-XSC2	210B-XSC2	230B-XSC2	250B-XSC2	250B-XSC1	290B-XSC2	320B-XSC2	320B-XSC1	370B-XSC1	390B-XSC2	450B-XSC2	510B-XSC2	540B-XSC2	590B-XSC2	630B-XSC2	720B-XSC2	760B-XSC2	830B-XSC2	880B-XSC2	C10B-XSC2
Space cooling	A Condition 35°C	Pdc	kW		179.90	206.40	232.90	253.70	252.39	286.20	324.50	324.44	371.33	387.85	448.05	512.31	539.39	586.74	631.42	716.56	762.50	834.45	880.39	1,009.36
	ηs,c		%		181.4	185.4	186.6	187.4	181.8	187.8	188.6	188.6	187.4	184.9	187.4	189.4	192.5	192.4	192.6	193.9	194.2	193.8	193.5	193.4
SEER					4.610	4.710	4.740	4.760	4.620	4.770	4.790	4.789	4.759	4.697	4.760	4.810	4.887	4.884	4.890	4.923	4.930	4.920	4.913	4.910
Cooling capacity	Nom.		kW		179.90	206.40	232.90	253.70	252.39	286.20	324.50	324.44	371.33	387.85	448.05	512.31	539.39	586.74	631.42	716.56	762.50	834.45	880.39	1,009.00
Power input	Cooling	Nom.	kW		55.3	64.4	73.64	83.55	79.1	91.9	104.5	100.0	118.8	125.6	140.5	158.0	160.2	178.6	197.1	218.1	236.9	257.3	276.1	315.7
Capacity control	Method				Step																			
	Minimum capacity		%		25	21	19	17	50	25	13	22	19	18	16	25	14	22	20	18	17	15	14	25
EER					3.254	3.205	3.162	3.036	3.189	3.114	3.106	3.245	3.126	3.088	3.189	3.242	3.368	3.285	3.203	3.285	3.219	3.243	3.189	3.197
IPLV					4.910	5.090	5.090	5.200	4.907	5.220	5.010	5.002	5.051	4.895	4.977	5.068	5.091	5.117	5.109	5.141	5.165	5.130	5.146	5.126
Dimensions	Unit	Height	mm		2,535																			
		Width	mm		2,238																			
		Depth	mm		2,514					3,594					4,674		5,754			6,834		8,008		9,088
Weight	Unit		kg		1,877	1,939	2,002	2,046	1,963	2,488	2,664	2,466	2,585	2,657	3,169	3,359	3,804	3,916	4,024	4,565	4,673	5,442	5,551	6,251
	Operation weight		kg		1,891	1,959	2,030	2,074	1,986	2,516	2,692	2,489	2,610	2,693	3,205	3,419	3,864	3,979	4,084	4,642	4,750	5,519	5,628	6,350
Air heat exchanger	Type				Microchannel																			
Compressor	Type				Scroll compressor																			
	Quantity				4				2	4	5	3		4			5			6		7		8
Fan	Type				Direct propeller																			
	Quantity				4					6					8		10			12		14		16
	Air flow rate	Cooling	Nom.	l/s	25,500				25,490	32,240					50,980		63,730			76,480		89,230		101,980
Sound power level	Cooling	Nom.		dBA	91.2	91.6	91.9	92.3	93.5	63.6	93.8	94.8	95.3	95.1	96.1	96.5	96.9	97.2	97.5	98.0	98.3	98.7	98.9	99.5
Sound pressure level	Cooling	Nom.		dBA	72.1	72.5	72.8	73.2	74.4	93.9	74.1	75.1	75.6	75.4	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 ~52																			
Refrigerant	Type/GWP				R-32/675																			
	Charge			kg	19.2				44.0	33.1		50.0	55.0	30.5	35.0	39.5	42.0	45.0	49.0	55.0	57.5	62.5	67.0	75.0
	Circuits	Quantity			2				1	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	523	703	746	750	803	845	858	901	944	999	1,042	1,142		1,240
	Running current	Cooling	Nom.	A	112	125	134	149	142	175	190	181	212	223	252	284	292	323	354	394	425	464	495	567
		Max		A	146	163	181	199	199	227	257	255	298	302	355	397	410	453	496	551	594	694		792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400																			

Air cooled scroll compressor chiller, high efficiency, reduced sound

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

EWAT-B-XRC

MicroTech 4

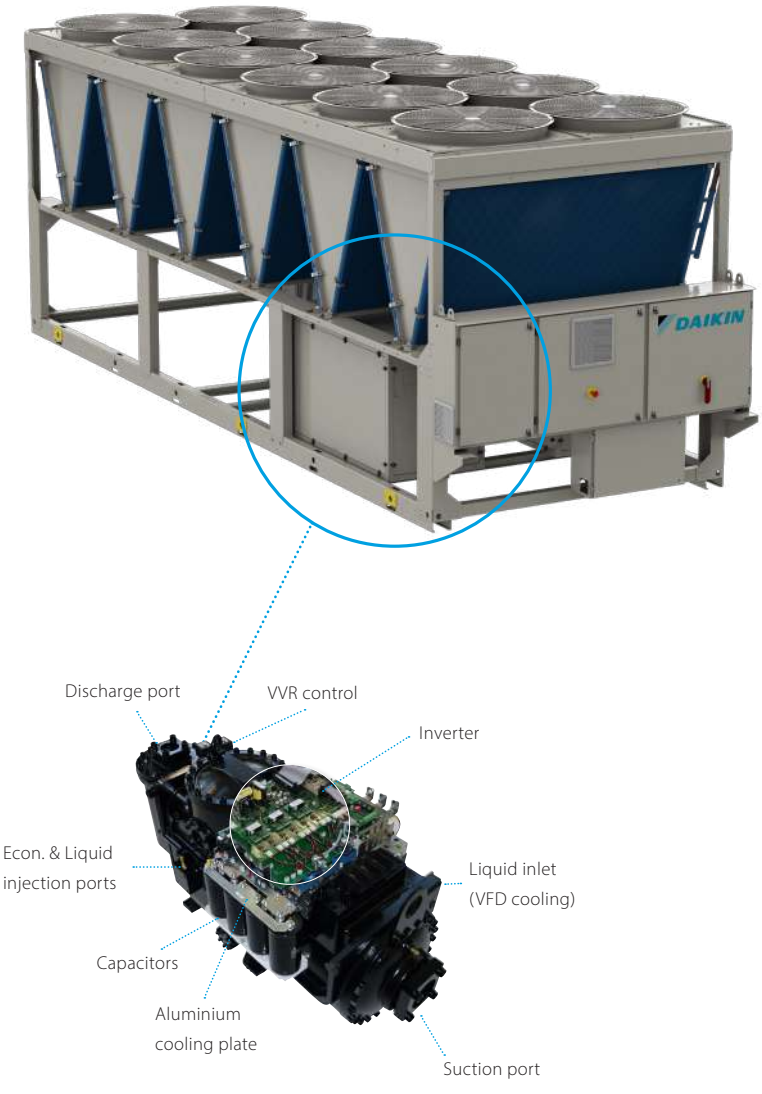
Mechanical Cooling Only High Efficiency, Reduced Sound				EWAT	180B-XRC2	210B-XRC2	230B-XRC2	250B-XRC2	250B-XRC1	290B-XRC2	320B-XRC2	320B-XRC1	370B-XRC1	390B-XRC2	450B-XRC2	510B-XRC2	540B-XRC2	590B-XRC2	630B-XRC2	720B-XRC2	760B-XRC2	830B-XRC2	880B-XRC2	C10B-XRC2
Space cooling	A Condition 35°C	Pdc	kW		174.70	198.90	223.10	241.30	241.40	275.10	312.00	313.20	355.68	370.32	431.43	489.48	520.68	563.54	603.94	687.57	728.98	800.94	842.34	965.50
	ηs,c		%		200.6	201.4	204.6	197.4	195.6	203.4	207.0	204.4	202.6	196.2	203.3	201.3	208.2	207.8	206.5	208.6	207.0	210.0	208.8	206.2
SEER					5.090	5.110	5.190	5.010	4.965	5.160	5.250	5.186	5.140	4.979	5.158	5.108	5.279	5.270	5.237	5.291	5.249	5.324	5.294	5.229
Cooling capacity	Nom.		kW		174.70	198.90	223.10	241.30	241.40	275.10	312.00	313.20	355.68	370.32	431.43	489.48	520.68	563.54	603.94	687.57	729.00	800.94	842.34	965.50
Power input	Cooling	Nom.	kW		53.59	63.74	74.08	85.39	81.1	90.8	104.1	99.9	121.4	129.1	141.4	162.1	159.6	180.7	202.0	221.3	242.8	261.1	282.2	323.5
Capacity control	Method				Step																			
	Minimum capacity		%		25	21	19	17	50	25	13	22	19	18	16	25	14	22	20	18	17	15	14	25
EER					3.260	3.121	3.011	2.827	2.977	3.030	2.997	3.135	2.929	2.869	3.052	3.019	3.262	3.119	2.990	3.107	3.003	3.067	2.979	2.985
IPLV					5.510	5.590	5.500	5.510	5.340	5.770	5.670	5.525	2.929	5.487	5.446	5.528	5.630	5.620	5.601	5.649	5.605	5.613	5.605	5.576
Dimensions	Unit	Height	mm		2,535																			
		Width	mm		2,238																			
		Depth	mm		2,514					3,594		4,674					5,750			6,830		8,010		9,090
Weight	Unit		kg		1,965	2,026	2,090	2,134	2,020	2,576	2,803	2,550	2,670	2,740	3,290	3,480	3,940	4,060	4,160	4,720	4,830	5,620	5,730	6,450
	Operation weight		kg		1,979	2,046	2,118	2,162	2,045	2,604	2,831	2,577	2,698	2,780	3,324	3,538	4,003	4,115	4,223	4,801	4,909	5,697	5,806	6,549
Air heat exchanger	Type				Microchannel																			
Compressor	Type				Scroll compressor																			
	Quantity				4				2	4	5	3		4			5			6		7		8
Fan	Type				Direct propeller																			
	Quantity				4					6					8		10			12		14		16
	Air flow rate	Cooling	Nom.	l/s	18,900				18,900	28,350					37,800		47,250			56,700		66,150		75,600
Sound power level	Cooling	Nom.		dBA	82.8	83.00	83.1	83.9	84.0	84.9	84.9	85.4	85.7	85.6	86.8	87.0	87.6	87.8	87.9	88.6	88.7	89.3	89.4	90.0
Sound pressure level	Cooling	Nom.		dBA	63.7	63.9	64.1	64.2	64.9	65.2	65.2	65.7	66.0	65.9	66.5	66.7	66.9	67.1	67.2	67.5	67.6	67.7	67.8	67.8
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	55.0	30.5		39.5	42.0	45.0	49.0	55.0	57.5	62.5	67.0	75.0
	Circuits	Quantity			2				1	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	523	703	746	750	803	845	858	901	944	999	1,049	1,142		1,240
	Running current	Cooling	Nom.	A	103	119	131	152	143	164	168	178	213	225	249	286	287	322	356	393	428	463	498	570
		Max		A	146	163	181	199	199	227	257	255	298	302	355	397	410	453	496	551	594	694		792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400																			

EW(D)(H)(S)~TZ D screw inverter chiller High efficiency in comfort, process and data centre cooling

Over 1,000 sites worldwide have screw chillers installed, demonstrating our commitment to continuously develop advanced technology to provide the best chiller experience for our customers.

EWA(D)(H)(S)~TZ D at a glance

› Capacity ranges
  - EWAD~TZ D capacity range from 275 to 1,950 kW for series with R134a
  - EWAH~TZ D capacity range from 220 to 1,600 kW for series with R1234ze
  - EWAS~TZ D capacity range from 260 to 1,900 kW for series with R513A
› Best efficiency at full load and part load conditions
› Four efficiency tiers available in 3 sound configurations for maximum flexibility
› Daikin single screw compressor with integrated inverter
› Single and dual circuit
› Compact footprint
› Suitable for Comfort, Data Center and Process applications
› Extensive option availability, namely:
  - Heat Recovery
  - Variable Primary Flow
  - Hydronic pump kits with VFD
  - Integrated active harmonic filter
  - Rapid restart
  - High evaporator leaving temperature
  - Wide delta temperature
  - Performance monitoring
  - Daikin on-site cloud based monitoring with refrigeration leak detection



EWA(D)(H)(S)~TZ(B)(S)(X)(P)RD2

Why choose EWA(D)(H)(S)~TZ D?

High efficiencies both at full load and part load:

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

Rapid return on investment

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

Unrivaled and proven reliability

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

Low sound levels

› Sound power level achievable on 225kW HFO unit is 87 dB(A) at full load and even lower at part load thanks to fans and compressors variable speed
› Quiet compressor thanks to special acoustic executions
› Unique Daikin fans design with reduced noise impact and vibrations

Compact design

› More compact heat exchanger with superior efficiencies
› Compact electrical panel dimensions thanks to the inverter being integrated onto the screw compressor

Hydronic Free Cooling

› Possibility for inclusion of on-board hydronic free cooling on the EWF(D)(H)(S)~TZ D version with zero impact on the unit footprint

Perfect comfort level

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

Extensive option list

Different options are available to fit the EWA(D)(H)(S)~TZ D chiller to meet your specific project requirements:
› Rapid restart after power failure
› Variable speed water pumps to optimise the working efficiency
› Total heat recovery: 80 to 85% of the total heat rejection of the chiller can be recovered
› Partial heat recovery: 15 to 20% of the total heat rejection of the chiller can be recovered
› Refrigerant leak detection

Performance monitoring

With inclusion of **Performance Monitoring** (Option 186), an advanced algorithm is unlocked within the Daikin MicroTech4 Chiller Controller logic that by way of a sensor-less algorithm calculates the unit cooling capacity using refrigerant pressure and temperature readings. Electrical power is calculated either from compressor VFD power and fan, or directly measured via an additional energy meter (Option 16a).

Inverter screw cooling only with BLU efficiency. Standard sound.

- Environmentally conscious HFC R-134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,954 kW
- New single screw compressor geometry allowing performance optimisation
- 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

EWA*~TZ D2 with option 76b

EWAD-TZBSD					275	320	345	400	470	510	525	545	570	580	625	630	670	755
SEER					4.517	4.637	4.636	4.829	4.809	4.561	4.73	4.55	4.552	4.711	4.65	4.556	4.564	4.917
Cooling capacity	Nom.			kW	274.8	316.9	346	418.5	467	512.6	520.7	543.7	573.2	574.7	622.2	630.9	674	753.1
Power input	Cooling	Nom.		kW	91.31	100.1	115.5	136.4	159.9	171	167.6	188.4	206	198.2	230.6	216.2	242.8	231.7
Capacity control	Method				VFD													
	Minimum capacity			%	22	19	17	22	23	11	22	10		19	17	10		13
EER					3	3.2	3	3.1	2.9	3	3.1	2.9	2.8	2.9	2.7	2.9	2.8	3.3
IPLV					4.4	4.6		4.8		4.4	4.7	4.4		4.7		4.5		4.9
Dimensions	Unit	Height		mm	2,553													
		Width		mm	2,238													
		Depth		mm	2,560	3,640				4,720						5,800		6,880
Weight	Unit			kg	2,602	3,084		3,486		4,212	4,032	4,212		4,032		4,695		5,670
	Operation weight			kg	2,677	3,169		3,583.7	3,593.7	4,552	4,160.1	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				1					2	1	2		1		2		
Fan	Type				Direct propeller													
	Quantity				4	6				8						10		12
	Air flow rate	Cooling	Nom.	l/s	25,490	38,240				50,980	50,990	50,980		50,990		63,730		76,480
Sound power level	Cooling	Nom.		dBA	97	98	100	97		99	98	99	100	98	101		102	99
Sound pressure level	Cooling	Nom.		dBA	78		80	78	77	79	77	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	35	45		55	65	70		75	80		85		95	105
	Circuits	Quantity			1					2	1	2		1		2		
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm	168.3mm		139.7mm		168.3mm		
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	367.3	392.4	344.2	392.3	412.1	450	434.7
		Max		A	220	262	284	346	362	411	400	440	471	457	464	512	556	600
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

EWAD-TZBSD					830	915	C10	H10	H11	C12	C13	C14	C15	H16	H17	H18	H19
SEER					4.879	4.901	4.855	4.797	4.936	4.942	4.906	4.849	4.858	5.044	4.995	4.997	4.979
Cooling capacity	Nom.			kW	825.6	916.8	997.9	1,092	1,168	1,238	1,332	1,405	1,534	1,665	1,760	1,876	1,954
Power input	Cooling	Nom.		kW	267.5	298.4	347.8	369.7	387.5	409.9	447	494.1	531.7	546.3	608.6	659.1	730.3
Capacity control	Method				VFD												
	Minimum capacity			%	11	13	11	10						13	12	11	10
EER					3.1		2.9	3				2.8	2.9	3	2.9	2.8	2.7
IPLV					4.8	4.9	4.8	4.9			4.8	4.7		5.3		5.2	
Dimensions	Unit	Height		mm	2,553												
		Width		mm	2,238												
		Depth		mm	6,880			7,960	9,040	10,120	11,200			12,280		13,360	
Weight	Unit			kg	5,670	6,142		6,816	7,297	7,779	8,260	8,581	9,920	10,323		10,805	
	Operation weight			kg	6,065	6,748	6,763	7,523	8,014	8,506	9,002	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				12			14	16	18	20			22		24	
	Air flow rate	Cooling	Nom.	l/s	76,480			89,230	101,980	114,720	127,460			140,210		152,960	
Sound power level	Cooling	Nom.		dBA	100	99	100	101		102	104	105	106	104	105	106	107
Sound pressure level	Cooling	Nom.		dBA	79	78	79			80	81	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	115	125	140	150	160	170	185	195	215	230	245	260	270
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm	219.1mm							273mm				
Unit	Starting current	Max		A	0												
	Running current	Cooling	Nom.	A	488.5	536.5	610.2	645.8	674.8	710.6	767.8	837.3	899.1	919.5	1,011	1,088	1,193
		Max		A	668		751	817	884	930	948	1,120	1,200	1,227	1,340	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Inverter screw with SILVER efficiency. Standard sound.

- Environmentally conscious HFC R-134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,954 kW
- New single screw compressor geometry allowing performance optimisation
- 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
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- Unique fully integrated active harmonic filtration solution
- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWA*~TZ D2 with option 76b

EWAD-TZSSD					285	325	380	430	495	520	535	555	585	595	645	650	705	760
SEER					5.551	5.737	5.636	5.741	5.434	5.281	5.659	5.237	5.099	5.556	5.291	5.535	5.2	5.547
Cooling capacity	Nom.			kW	283.6	327.3	360.3	426.8	490.9	522.4	530.6	555.8	586.7	590	646.3	642.1	706.1	760.3
Power input	Cooling	Nom.		kW	84.44	98.36	112.8	131	151.7	162.1	161	177.6	194.1	188.4	202.9	218.2	235.4	225.2
Capacity control	Method				VFD													
	Minimum capacity			%	22	19	17	22	23	11	22	10		19	10	17	10	13
EER					3.4	3.3	3.2	3.3	3.2		3.3	3.1	3	3.1	3.2	2.9	3	3.4
IPLV					5.7	5.8	5.7	6	5.8	5.4	6	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	3,640	4,720				5,800					6,880	5,800	6,880	7,960
Weight	Unit			kg	3,084	3,604		3,968	4,032	4,693	4,513	4,693		4,513	5,177	4,513	5,177	6,151
	Operation weight			kg	3,164	3,697	3,702	4,070.7	4,155.1	5,033	4,646.1	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				1					2	1	2		1	2	1	2	
Fan	Type				Direct propeller													
	Quantity				6	8				10					12	10	12	14
	Air flow rate	Cooling	Nom.	l/s	38,240	50,990				63,730					76,480	63,730	76,480	89,230
Sound power level	Cooling	Nom.		dBA	98		100	98	97	99	98	99	101	98	101		103	99
Sound pressure level	Cooling	Nom.		dBA	78		80	77		79	77	79	80	78	80		82	78
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~46					-20 ~46	5 ~46	-20 ~46		5 ~46	-20 ~46	5 ~46	-20 ~46	
Refrigerant	Type/GWP				R-134a/1,430													
	Charge			kg	40	45	50	60	65	70	75		80		90		95	105
	Circuits	Quantity			1					2	1	2		1	2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm	168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	
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	359.1	387.7	340.8	407	384.9	451.6	442.9
		Max		A	231	272	294	357	372	421	411	450	481	467	523	474	566	610
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

EWAD-TZSSD					835	960	C10	H10	H11	H12	H13	H14	H15	H16	H17	H18	H19
SEER					5.714	5.615	5.536	5.55	5.562	5.714	5.673	5.529	5.707	5.633	5.608	5.527	5.445
Cooling capacity	Nom.			kW	837.7	960.2	1,017	1,064	1,168	1,281	1,372	1,482	1,562	1,665	1,787	1,876	1,954
Power input	Cooling	Nom.		kW	258.7	301.2	332.2	351.6	384.5	412.6	451.9	500.2	485.4	542.2	589.4	654.5	725.7
Capacity control	Method				VFD												
	Minimum capacity			%	11	12	11		10				14	13	12	11	10
EER					3.2		3.1	3		3.1	3		3.2	3.1	3	2.9	2.7
IPLV					5.8	5.7	5.6			5.7		5.6	6.1	6	5.9	5.8	5.7
Dimensions	Unit	Height		mm	2,553												
		Width		mm	2,238												
		Depth		mm	7,960				9,040	11,200	12,280				13,360		
Weight	Unit			kg	6,151	6,623		6,816	7,297	8,260	8,742	9,920	10,323		10,805		
	Operation weight			kg	6,546	7,239	7,244	7,518	8,014	8,992	9,489	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				14				16	20	22				24		
	Air flow rate	Cooling	Nom.	l/s	89,230				101,908	127,460	140,210				152,960		
Sound power level	Cooling	Nom.		dBA	100			101		102	104	105	103	104	105	106	107
Sound pressure level	Cooling	Nom.		dBA	79	78	79			80	81	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	115	135	140	145	160	175	190	205	215	230	250	260	270
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm	219.1mm						273mm					
Unit	Starting current	Max		A	0												
	Running current	Cooling	Nom.	A	489.7	555	601.4	630.5	683.6	733.8	796.2	871.1	848	931.7	1,005	1,101	1,206
		Max		A	679	706	761	789	884	948		1,156	1,124	1,227	1,351	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Inverter screw with GOLD efficiency. Standard sound.

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EWA*~TZ D2 with option 76b

EWAD-TZXSD					295	345	380	440	515	525	565	565	610	635	670	705	725	760
SEER					5.605	6.007	5.961	6.165	6.019	6.002	6.251	5.937	5.999	6.146	5.891	5.552	5.94	5.308
Cooling capacity	Nom.			kW	294.4	344.4	378	434.8	507.9	524.3	560.5	565.9	610.7	629	668.1	701	724	757.3
Power input	Cooling	Nom.		kW	89.4	102.5	116.8	120.6	150	146.6	162	163.3	177	190.8	201.3	207.2	219.5	233.1
Capacity control	Method				VFD													
	Minimum capacity			%	22	19	17	28	23	13	22	12	11	19	10	30	10	28
EER					3.3	3.4	3.2	3.6	3.4	3.6	3.5			3.3		3.4	3.3	3.2
IPLV					6	6.3	6.1	6.6	6.5	6.3	6.7	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	3,640	4,720		5,800		6,880			7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit			kg	3,255	3,775		4,569		5,348	5,136	5,348	5,829	5,136	5,829	5,805	5,946	5,805
	Operation weight			kg	3,335	3,868	3,873	4,687.1	4,697.1	5,673	5,287.3	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				1					2	1	2	1	2	1	2	1	
Fan	Type				Direct propeller													
	Quantity				6	8		10		12			14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s	33,930	45,240		56,540		67,860	68,280	67,860	79,170	68,280	79,170	68,280	79,170	68,280
Sound power level	Cooling	Nom.		dBA	97	98	103	96	97	100			101	105	101	99	102	100
Sound pressure level	Cooling	Nom.		dBA	80	82	83	75	76	79	76	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	40	45	50	60	70		75	80	85		90	95	100	105
	Circuits	Quantity			1					2	1	2	1		2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm	168.3mm	139.7mm		168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max		A	0													
	Running current	Cooling	Nom.	A	188.5	216.8	235.8	247.6	291.7	319.1	316.3	348.1	378.7	359.4	420.8	383.5	443	421.6
		Max		A	224	261	289	314	342	389	404	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

EWAD-TZXSD					805	880	950	C10	H10	H11	C12	H12	H13	H14	H15	H16	H17
SEER					6.088	6.355	6.192	6.365	6.186	6.313	6.217	6.126	6.14	5.896	5.807	5.723	5.629
Cooling capacity	Nom.			kW	802.3	877.7	949.4	993.6	1,062	1,129	1,194	1,286	1,359	1,454	1,567	1,671	1,770
Power input	Cooling	Nom.		kW	233.2	250.8	282.1	292.3	325.1	336.7	370.1	402.4	425.5	419.5	472.2	528.4	590.4
Capacity control	Method				VFD												
	Minimum capacity			%	10	14	13	12	11		10			15	14	13	12
EER					3.4	3.5	3.4		3.3	3.4	3.2			3.5	3.3	3.2	3
IPLV					6.4	6.6	6.4	6.5	6.4	6.5	6.4	6.3		6.1	6.3	6.2	6
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	6,904	7,160		7,642		8,316			9,655	10,805			
	Operation weight			kg	7,495	7,761	7,771	8,258	8,268	9,028	9,038	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				16			18		20			22	24			
	Air flow rate	Cooling	Nom.	l/s	90,480			101,780		113,080			124,390	135,700			
Sound power level	Cooling	Nom.		dBA	105	98	100	101	102	103	105	108	106	102	103	104	105
Sound pressure level	Cooling	Nom.		dBA	84	76	77		78				79		80	81	
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	180	190	200	215	230	245
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm								273mm				
Unit	Starting current	Max		A	0												
	Running current	Cooling	Nom.	A	470.4	496.7	543.6	565	613.9	637.5	687	737.2	777.9	774.1	852	934.8	1,026
		Max		A	573	626	683	720	782	744	803	851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Inverter screw with GOLD efficiency. Reduced sound.

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EWA*~TZ D2 with option 76b

EWAD-TZXRD					295	345	380	440	515	525	565	565	610	635	670	705	725	760
SEER					5.507	5.938	5.866	6.042	5.901	6.037	6.159	5.944	6.029	6.039	5.922	5.418	5.964	5.358
Cooling capacity	Nom.			kW	290.7	340.9	373.4	431	502.3	518.8	555.4	559.5	604.2	622.3	660.4	691.7	714.9	745.6
Power input	Cooling	Nom.		kW	89.12	101.1	116.3	118.5	149.8	144.1	160.2	161.7	174.5	190.5	200.1	209.3	219.2	236.6
Capacity control	Method				VFD													
	Minimum capacity			%	22	19	17	28	23	13	22	12	11	19	10	30	10	28
EER					3.3	3.4	3.2	3.6	3.4	3.6	3.5			3.3				3.2
IPLV					6.1	6.3	6.2	6.5		6.3	6.7	6.2		6.6	6.1	5.8	6.2	5.8
Dimensions	Unit	Height		mm	2,553													
		Width		mm	2,238													
		Depth		mm	3,640	4,720		5,800		6,880			7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit			kg	3,375	3,895		4,689		5,468	5,256	5,468	5,949	5,256	5,949	5,925	6,066	5,925
	Operation weight			kg	3,455	3,988	3,993	4,807.1	4,817.1	5,793	5,407.3	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				1					2	1	2		1	2	1	2	1
Fan	Type				Direct propeller													
	Quantity				6	8		10		12			14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s	28,330	37,770		47,210		56,660			66,100	56,660	66,100	56,660	66,100	56,660
Sound power level	Cooling	Nom.		dBA	87	88	92	88		90			91	93	91	90	92	90
Sound pressure level	Cooling	Nom.		dBA	68		71	67	68	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	40	45	50	60	70		75	80	85		90	95	100	105
	Circuits	Quantity			1					2	1	2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm	168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	139.7mm
Unit	Starting current	Max		A	0													
	Running current	Cooling	Nom.	A	193.6	221.9	241.5	252.5	299.5	326	323.5	356.7	387.5	368.6	431.6	396.2	454.1	436.4
		Max		A	224	261	289	314	342	389	404	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

EWAD-TZXRD					805	880	950	C10	H10	H11	C12	H12	H13	H14	H15	H16	H17
SEER					6.169	6.363	6.179	6.354	6.217	6.34	6.191	6.12	6.181	5.883	5.764	5.704	5.537
Cooling capacity	Nom.			kW	792.9	867.7	937.7	982.6	1,049	1,117	1,179	1,268	1,341	1,434	1,543	1,641	1,729
Power input	Cooling	Nom.		kW	231.9	250.8	283.9	292.8	327.6	338	373.2	408	430.2	424.5	480.3	539.4	603.9
Capacity control	Method				VFD												
	Minimum capacity			%	10	14	13	12	11		10			15	14	13	12
EER					3.4	3.5	3.3	3.4	3.2	3.3	3.2		3.1	3.4	3.2	3	2.9
IPLV					6.4	6.6	6.4	6.6	6.4	6.6	6.4			6.1	5.9	6.2	5.8
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	7,024	7,280		7,762		8,436			9,775	10,925			
	Operation weight			kg	7,615	7,881	7,891	8,378	8,388	9,148	9,158	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				16			18		20			22	24			
	Air flow rate	Cooling	Nom.	l/s	75,540			84,980		94,420			103,870	113,320			
Sound power level	Cooling	Nom.		dBA	94	90	91	92		93	94	96	95	93		94	
Sound pressure level	Cooling	Nom.		dBA	72	68	69		70		72	74	72	69	70		71
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	180	190	200	215	230	245
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm								273mm				
Unit	Starting current	Max		A	0												
	Running current	Cooling	Nom.	A	481.4	509.6	559.3	580.3	632.1	655.3	707.6	761.7	802.5	800.7	883.2	970.5	1,066
		Max		A	573	626	683	720	782	744	803	851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Inverter screw with PLATINUM efficiency. Standard sound.

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EWA*~TZ D2 with option 76b

EWAD-TZPSD					285	330	370	405	450	490	530	575	615	675	735
SEER					6.29	6.465	6.389	6.687	6.64	6.567	6.391	6.301	6.28	6.161	6.216
Cooling capacity	Nom.			kW	285.8	330.4	367.9	401.5	447	486.1	529.6	571.8	617.7	676.1	733.5
Power input	Cooling	Nom.		kW	77.75	92.02	106	105.2	117.3	130.3	143.1	158.6	171.1	194	210.7
Capacity control	Method				VFD										
	Minimum capacity			%	23	20	18	30	28	25	13	12	11	10	
EER					3.7	3.6	3.5	3.8		3.7		3.6		3.5	
IPLV					6.7		6.6	7.3	7.6	7.5	6.7	6.6	6.5	6.4	6.5
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	4,720	5,800		6,880			7,960		9,040		
Weight	Unit			kg	3,775	4,256		5,050	5,136		5,829		6,311		6,427
	Operation weight			kg	3,863	4,349	4,354	5,163.1	5,272.3	5,277.3	6,159	6,164	6,651	6,661	6,825
Air heat exchanger	Type				Microchannel										
Compressor	Type				Screw compressor										
	Quantity				1						2				
Fan	Type				Direct propeller										
	Quantity				8	10		12			14		16		
	Air flow rate	Cooling	Nom.	l/s	45,240	56,540		67,850			79,170		90,480		
Sound power level	Cooling	Nom.		dBA	97	98	100	95	96	98	100		101		102
Sound pressure level	Cooling	Nom.		dBA	78	81	82	74	75		79	80	81	83	
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	75	80	85	95	100
	Circuits	Quantity			1						2				
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm			168.3mm				
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	174	204	229	233	249	269	318	345	374	414	442
		Max		A	220	258	285	293	352	404	399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

EWAD-TZPSD					810	890	960	C10	H10	H11	C12	H12	H13	H14	H15
SEER					6.48	6.725	6.602	6.648	6.483	6.529	6.398	6.263	6.31	5.978	5.928
Cooling capacity	Nom.			kW	809.8	885.5	958.4	1,003	1,072	1,137	1,203	1,298	1,372	1,455	1,568
Power input	Cooling	Nom.		kW	226.1	242.4	271.7	281.9	312.5	325.9	357.4	387.4	409.1	409.5	462.1
Capacity control	Method				VFD										
	Minimum capacity			%	10	14	13	12	11		10			15	14
EER					3.6	3.7	3.5	3.6	3.4	3.5	3.4			3.6	3.4
IPLV					6.8	7	6.8	6.5	6.7	6.9	6.7	6.6		6.2	6.5
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	10,120			11,200		12,280			13,360		
Weight	Unit			kg	7,385	7,642		8,123		8,798		9,655	10,136	10,805	
	Operation weight			kg	7,976	8,243	8,253	8,744	8,754	9,515	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				18			20		22			24		
	Air flow rate	Cooling	Nom.	l/s	101,780			113,080		140,200			152,940		
Sound power level	Cooling	Nom.		dBA	105	99	100	101	102	103	105	108	106	102	103
Sound pressure level	Cooling	Nom.		dBA	84	76		77			78		79		80
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	165	180	190	205	220
	Circuits	Quantity			2										
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm							273mm			
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	466	490	534	555	601	627	674	721	759		837
		Max		A	573	616	672	709	761	796	845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

Inverter screw with PLATINUM efficiency. Reduced sound.

- Environmentally conscious HFC R-134a – the most thermodynamically efficient refrigerant for air cooled applications
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,544 kW
- New single screw compressor geometry allowing performance optimisation
- 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

EWA*~TZ D2 with option 76b

EWAD-TZPRD					285	330	370	405	450	490	530	575	615	675	735
SEER					6.232	6.448	6.358	6.622	6.542	6.467	6.421	6.322	6.325	6.183	6.254
Cooling capacity	Nom.			kW	283.7	328.4	365	398.8	443.9	482.4	524.8	566.5	612.5	669.9	726
Power input	Cooling	Nom.		kW	75.13	88.51	103.1	101	113.6	127.2	139	155.2	166.8	190.7	208.2
Capacity control	Method				VFD										
	Minimum capacity			%	23	20	18	30	28	25	13	12	11	10	
EER					3.8	3.7	3.5	4	3.9	3.8		3.7		3.5	
IPLV					6.7	6.8	6.6	7.2	7.5	7.4	6.7	6.6	6.5	6.4	6.5
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	4,720	5,800		6,880			7,960		9,040		
Weight	Unit			kg	3,895	4,376		5,170	5,256		5,949		6,431		6,547
	Operation weight			kg	3,983	4,469	4,474	5,283.1	5,392.3	5,397.3	6,279	6,284	6,771	6,781	6,945
Air heat exchanger	Type				Microchannel										
Compressor	Type				Screw compressor										
	Quantity				1						2				
Fan	Type				Direct propeller										
	Quantity				8	10		12			14		16		
	Air flow rate	Cooling	Nom.	l/s	37,770	47,210		56,660			66,100		75,540		
Sound power level	Cooling	Nom.		dBA	88	89	90	88		89	91				92
Sound pressure level	Cooling	Nom.		dBA	68		69	67		68	69				70
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	75	80	85	95	100
	Circuits	Quantity			1						2				
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm			168.3mm				
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	176.6	207.4	232.7	236.3	253.2	273.8	324.3	352.5	381.3	422.7	448
		Max		A	220	258	285	293	352	404	399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

EWAD-TZPRD					810	890	960	C10	H10	H11	C12	H12	H13	H14	H15
SEER					6.51	6.771	6.598	6.661	6.515	6.683	6.555	6.433	6.432	6.055	5.932
Cooling capacity	Nom.			kW	801.7	876.7	948.2	993	1,061	1,126	1,190	1,282	1,356	1,435	1,544
Power input	Cooling	Nom.		kW	222.8	240.2	271.1	280	312.2	324.7	357.7	389.9	410.4	413.9	469.4
Capacity control	Method				VFD										
	Minimum capacity			%	10	14	13	12	11		10			15	14
EER					3.6		3.5		3.4	3.5	3.3			3.5	3.3
IPLV					6.8	7.1	6.9		6.7	7	6.7		6.6	6.3	6.1
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	10,120			11,200		12,280			13,360		
Weight	Unit			kg	7,505	7,762		8,243		8,918		9,775	10,256	10,925	
	Operation weight			kg	8,096	8,363	8,373	8,864	8,874	9,635	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				18			20		22			24		
	Air flow rate	Cooling	Nom.	l/s	84,980			94,420		103,870			113,320		
Sound power level	Cooling	Nom.		dBA	94	90	91	92		93	95	96	95	93	
Sound pressure level	Cooling	Nom.		dBA	72	68	69		70		72	74	72	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	165	180	190	205	220
	Circuits	Quantity			2										
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm							273mm			
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	475.1	501.2	547.7	568.5	616.6	643	692.2	742.3	780.3	784.9	867
		Max		A	573	616	672	709	761	796	845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

Inverter screw cooling only with BLU efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,586 kW
- New single screw compressor geometry allowing performance optimisation
- 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

EWA*~TZ D2 with option 76b

EWAH-TZBSD					235	255	300	350	400	400	420	425	455	485	505	545	545	590
SEER					4.491	4.373	4.355	4.666	4.428	4.588	4.601	4.571	4.593	4.603	4.565	4.557	4.595	4.568
Cooling capacity	Nom.			kW	235.4	255.6	301.6	359.8	398.5		417.2	425.2	448.8	487.5	500	537.5		576.1
Power input	Cooling	Nom.		kW	79.49	92.42	118.2	117.9	140.7		151.4	135.6	176.2	162	204.3	202.2		201.2
Capacity control	Method				VFD													
	Minimum capacity			%	19	17	14	23	12	20	19	11	17	10	15		10	
EER					2.961	2.766	2.552	3.052	2.832		2.755	3.137	2.547	3.009	2.447	2.658		2.864
IPLV					4.484	4.419	4.369	4.683	4.411	4.584	4.558	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	2,560			3,640	4,720		3,640	4,720	3,640	4,720	3,640	4,720		5,800
Weight	Unit			kg	2,559		2,589	3,486	3,751		3,486	3,751	3,486	3,941	3,871	4,353	3,971	4,422
	Operation weight			kg	2,589	2,594	2,629	3,536	3,806		3,541	3,811	3,546	4,006	3,941	4,428	4,046	4,502
Air heat exchanger	Type				Microchannel													
Compressor	Type				Screw compressor													
	Quantity				1				2		1	2	1	2	1		2	
Fan	Type				Direct propeller													
	Quantity				4			6	8		6	8	6	8	6	8		10
	Air flow rate	Cooling	Nom.	l/s	25,490	25,493		38,240	50,987		38,240	50,987	38,240	50,987	38,240	50,990	50,987	63,733
Sound power level	Cooling	Nom.		dBA	97.5	99.8	101.2	96.7	97.5	97.6	97.7	100.4	100.3	100.6	101.9	103	102.8	103.9
Sound pressure level	Cooling	Nom.		dBA	78.41	80.65	82.11	76.96	77.19	77.88	78	80.12	80.61	80.29	82.2	82.7	82.53	83.21
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~46													
Refrigerant	Type/GWP				R-1234(ze)/7													
	Charge			kg	30	35	40	50	55			60		65	70	75		80
	Circuits	Quantity			1				2	1		2	1	2	1		2	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm						168.3mm	139.7mm		168.3mm	
Unit	Starting current	Max		A	0													
	Running current	Cooling	Nom.	A	159	181	219	221	255		271	274	308	321	351			391
		Max		A	204	227	268	291	334		355	358	396	406	435	463	452	494
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

EWAH-TZBSD					635	745	785	845	900	985	C11	H11	C13	H13	H14	C15	H15
SEER					4.612	4.792	4.758	4.774	4.766	4.72	4.71	4.65	5.062	5.043	5.041	4.983	4.984
Cooling capacity	Nom.			kW	633.2	742.7	786.2	842.9	899	983.8	1,104	1,177	1,315	1,386	1,474	1,535	1,586
Power input	Cooling	Nom.		kW	226.9	238.6	261.4	287.6	302.2	350.9	391.1	436	423.5	471	508.7	563.3	580.5
Capacity control	Method				VFD												
	Minimum capacity			%	10	12	11	10					12	11	10		
EER					2.791	3.113	3.007	2.931	2.974	2.804	2.823	2.699	3.105	2.943	2.898	2.725	2.732
IPLV					4.452	4.741	4.716	4.722	4.692	4.624	4.623	4.543	5.285	5.263	5.232	5.165	5.15
Dimensions	Unit	Height		mm	2,553												
		Width		mm	2,238												
		Depth		mm	5,800	6,880			7,960		9,040		10,120		11,200		12,280
Weight	Unit			kg	4,452	5,370		5,614	6,096	6,185	7,352		8,279		8,760		9,242
	Operation weight			kg	4,537	5,470	5,480	5,729	6,221	6,320	7,507	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				10	12			14		16		18		20		22
	Air flow rate	Cooling	Nom.	l/s	63,733	76,480			89,233		101,980		114,720		127,467		140,213
Sound power level	Cooling	Nom.		dBA	104.6	99.7	100.3	100.6	101.5	103.2	105.1	106.9	104.3	105.2	106.1	107	107.5
Sound pressure level	Cooling	Nom.		dBA	83.83	78.53	79.14	79.46	79.93	81.67	83.17	84.97	82.09	82.94	83.56	84.45	84.63
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~46												
Refrigerant	Type/GWP				R-1234(ze)/7												
	Charge			kg	85	100	110	115	125	135	155	165	180	190	205	215	220
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm			219.1mm			273mm						
Unit	Starting current	Max		A	0												
	Running current	Cooling	Nom.	A	425	445	480	519	544	617	682	748	733	804	862	943	971
		Max		A	536	581	624	667	719	801	889	927	1,015	1,106	1,383	1,330	1,400
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Inverter screw with SILVER efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,606 kW
- New single screw compressor geometry allowing performance optimisation
- 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

EWA*~TZ D2 with option 76b

EWAH-TZSSD					240	265	295	370	400	415	450	470	490	535	540	595	630	690
SEER					5.606	5.489	5.354	5.624	5.379	5.498	5.506	5.211	5.512	5.252	5.592	5.291	5.221	5.538
Cooling capacity	Nom.			kW	242.1	264.9	296.5	366.7	402.3	408.8	447.1	468.8	485.8	508.7	533.5	592.4	626.5	696.4
Power input	Cooling	Nom.		kW	75.33	86.23	98.15	112.9	121.5	133.5	144.5	149.2	166.9	162.3	183.6	188.6	206.3	214.1
Capacity control	Method				VFD													
	Minimum capacity			%	19	17	15	23	12	20	19	10	17	10	15	10		13
EER					3.214	3.072	3.021	3.248	3.312	3.062	3.094	3.143	2.911	3.134	2.906	3.141	3.037	3.252
IPLV					5.624	5.53	5.387	5.92	5.48	5.755	5.738	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	3,640			4,720	5,800	4,720		5,800	4,720	5,800		6,880		
Weight	Unit			kg	3,041		3,071	3,968	4,233	3,968	4,032	4,233	4,032	4,422	4,834	4,934		5,370
	Operation weight			kg	3,076		3,111	4,018	4,288	4,023	4,092	4,298	4,097	4,492	4,909	5,014	5,019	5,465
Air heat exchanger	Type				Microchannel													
Compressor	Type				Screw compressor													
	Quantity				1				2	1		2	1	2	1	2		
Fan	Type				Direct propeller													
	Quantity				6			8	10	8		10	8	10		12		
	Air flow rate	Cooling	Nom.	l/s	38,240			50,990	63,733	50,990		63,733	50,990	63,733		76,480		
Sound power level	Cooling	Nom.		dBA	97.9	100	102.3	97.1	97.8	98	98.1	100.7	100.5	101.3	102.2	104.3	105.1	99
Sound pressure level	Cooling	Nom.		dBA	78.18	80.27	82.57	76.87	77.09	77.71	77.82	79.96	80.28	80.56	81.47	83.15	83.92	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46													
Refrigerant	Type/GWP				R-1234(ze)/7													
	Charge			kg	35		40	50	55		60	65		70	75	80	85	95
	Circuits	Quantity			1				2	1		2	1	2	1	2		
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm						168.3mm	139.7mm	168.3mm		
Unit	Starting current	Max		A	0													
	Running current	Cooling	Nom.	A	158.4	177.6	198.4	226.8	259.9	254	271.3	309	304.8	332.2	334.3	381.9	412.4	425.7
		Max		A	214	237	259	302	345	344	365	405	406	428	455	495	526	538
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

EWAH-TZSSD					740	795	855	910	980	C10	C11	C12	H12	H13	C14	C15	H15
SEER					5.452	5.539	5.505	5.532		5.53	5.489	5.339	5.735	5.652	5.723	5.774	5.686
Cooling capacity	Nom.			kW	741.3	795.3	854.3	909.5	983.4	1,043	1,113	1,211	1,331	1,406	1,492	1,542	1,606
Power input	Cooling	Nom.		kW	236.7	254.1	278.9	294	322.6	341.1	365.2	416.6	409.9	455.3	495.6	512.4	566.3
Capacity control	Method				VFD												
	Minimum capacity			%	11		10						12	11	10		
EER					3.132	3.13	3.063	3.094	3.048	3.058	3.046	2.906	3.248	3.088	3.01	3.009	2.836
IPLV					5.523	5.564	5.539	5.56	5.516	5.505	5.452	5.254	6.207	5.994	6.078	6.09	5.956
Dimensions	Unit	Height		mm	2,553												
		Width		mm	2,238												
		Depth		mm	6,880	7,960		9,040	10,120	11,200					12,280	13,360	
Weight	Unit			kg	5,370	5,852	6,096	6,577	7,059	7,629	8,315		8,760		9,242	9,723	
	Operation weight			kg	5,470	5,962	6,216	6,702	7,194	7,774	8,470	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				12	14		16	18	20					22	24	
	Air flow rate	Cooling	Nom.	l/s	76,480	89,233		101,908	114,714	127,460					140,206	152,952	
Sound power level	Cooling	Nom.		dBA	99.7	100.5	100.8	101.6	103	104.1	104.8	107	104.4	105.2	106.2	107.1	107.5
Sound pressure level	Cooling	Nom.		dBA	78.52	78.95	79.25	79.73	80.8	81.53	82.27	84.42	81.86	82.7	83.33	83.98	84.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46												
Refrigerant	Type/GWP				R-1234(ze)/7												
	Charge			kg	100	110	120	125	135	145	155	170	185	195	205	215	225
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		219.1mm				273mm						
Unit	Starting current	Max		A	0												
	Running current	Cooling	Nom.	A	456.1	483.2	520.7	547.3	594.5	627.5	665.5	741.8	732.3	799.8	862.2	893.4	973.3
		Max		A	581	634	677	729	802	852	891	948	1,025	1,117	1,393	1,351	1,410
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Inverter screw with GOLD efficiency. Standard sound.

- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,383 kW
- New single screw compressor geometry allowing performance optimisation
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- Performance monitoring
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWA*~TZ D2 with option 76b

EWAH-TZXSD					220	230	275	300	350	400	465	470	515	540	545	600
SEER					5.528	5.478	5.899	5.78	6.259	6.127	5.999	6.336	6.198	5.64	6.108	6.04
Cooling capacity	Nom.			kW	219.8	323.4	275.1	299.3	348.7	397.5	471.7	466	504.2	534.5	543.9	602.4
Power input	Cooling	Nom.		kW	67.79	74.71	82.02	92.55	99.59	122.1	135.2	139.9	159.8	152.6	155.1	178.4
Capacity control	Method				VFD											
	Minimum capacity			%	22	20	18	16	25	22	10	19	17	30	10	
EER					3.243	3.111	3.354	3.234	3.501	3.256	3.488	3.331	3.156	3.503	3.508	3.376
IPLV					6.035	5.988	6.156	6.085	6.684	6.588	6.223	6.632	6.422	5.95	6.381	6.28
Dimensions	Unit	Height		mm	2,553											
		Width		mm	2,238											
		Depth		mm	2,560		3,640		4,720		6,880	5,800			6,880	
Weight	Unit			kg	2,731		3,242		4,023		4,886	4,569		5,323	5,105	5,157
	Operation weight			kg	2,761		3,277	3,282	4,068	4,078	4,951	4,634	4,639	5,398	5,180	5,242
Air heat exchanger	Type				Microchannel											
Compressor	Type				Screw compressor											
	Quantity				1						2	1			2	
Fan	Type				Direct propeller											
	Quantity				4		6		8		12	10			12	
	Air flow rate	Cooling	Nom.	l/s	22,620		33,930		45,240		67,860	56,540			67,860	
Sound power level	Cooling	Nom.		dBA	97.3	97.5	100.2	100.8	97.3	99.8	100.6	104.5	101.7	98.8	100.9	105.5
Sound pressure level	Cooling	Nom.		dBA	78.13	78.36	80.42	81.11	77.01	79.55	79.43	83.77	80.97	78.1	79.75	84.34
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46											
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge			kg	30		35	40	45	55	65		70	75		85
	Circuits	Quantity			1						2	1			2	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm				139.7mm						168.3mm	
Unit	Starting current	Max		A	0											
	Running current	Cooling	Nom.	A	145.1	157.4	175.8	194.2	211.3	243.1	299	276.8	306.6	296.2	334.4	375.7
		Max		A	172	183	214	236	269	310	364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400											

EWAH-TZXSD					620	645	700	750	790	840	900	975	H10	H11	H12	H13
SEER					5.558	6.211	6.102	6.362	6.407	6.296	6.195	6.234	6.183	5.865	5.933	5.988
Cooling capacity	Nom.			kW	617	641.9	697.1	752.7	788.8	841.2	897.2	972.1	1,082	1,184	1,275	1,383
Power input	Cooling	Nom.		kW	191	186	209.1	219	225.9	249.4	273.7	299.9	326.1	346.2	380	415.3
Capacity control	Method				VFD											
	Minimum capacity			%	25	14	13	12		11	10			14	13	12
EER					3.231	3.452	3.334	3.437	3.491	3.373	3.278	3.242	3.318	3.42	3.355	3.33
IPLV					5.741	6.446	6.347	6.608	6.64	6.479	6.36	6.383	6.42	6.367	6.514	6.481
Dimensions	Unit	Height		mm	2,553											
		Width		mm	2,238											
		Depth		mm	5,800	6,880		7,960	9,040			10,120	11,200		12,280	13,360
Weight	Unit			kg	5,323	5,414		6,151	6,633		6,722	7,203	8,091	8,760	9,242	9,723
	Operation weight			kg	5,408	5,504	5,509	6,256	6,743	6,748	6,847	7,338	8,241	8,925	9,417	9,913
Air heat exchanger	Type				Microchannel											
Compressor	Type				Screw compressor											
	Quantity				1	2										
Fan	Type				Direct propeller											
	Quantity				10	12		14	16			18	20		22	24
	Air flow rate	Cooling	Nom.	l/s	56,540	67,860		79,170	90,480			101,772	113,080		124,388	135,696
Sound power level	Cooling	Nom.		dBA	100.5	98.1	100.1	100.9	101.5	102.8	105.1	106.8	104.7	102.7	103.6	104.5
Sound pressure level	Cooling	Nom.		dBA	79.81	76.91	78.9	79.3	79.61	80.92	83.2	84.61	82.17	80.14	80.78	81.43
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46											
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge			kg	85	90	95	105	110	115	125	135	150	165	175	190
	Circuits	Quantity			1	2										
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm	168.3mm		219.1mm					273mm			
Unit	Starting current	Max		A	0											
	Running current	Cooling	Nom.	A	353.5	388.6	428.2	445.5	457.9	493.4	530.6	575.7	623.9	651.9	708.1	768.7
		Max		A	491	472	517	527	579	618	655	702	787	902	992	1,090
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400											

Inverter screw with GOLD efficiency. Reduced sound.

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- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,363 kW
- New single screw compressor geometry allowing performance optimisation
- Refrigerant cooled inverter mounted on compressor all across the range
- Premium energy efficiency both at full and part load conditions
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EWA*~TZ D2 with option 76b

EWAH-TZXRD					220	230	275	300	350	400	465	470	515	540	545	600
SEER					5.404	5.363	5.942	5.775	6.188	6.026	6.02	6.284	6.103	5.588	6.133	6.042
Cooling capacity	Nom.			kW	216.3	228.3	271.7	295.3	345.2	393.5	467.2	461.6	497.8	528	537.6	594.3
Power input	Cooling	Nom.		kW	68.5	75.92	81.59	92.45	98.6	122.2	132.7	139.1	159.9	153.8	153.6	178.3
Capacity control	Method				VFD											
	Minimum capacity			%	22	20	18	16	25	22	10	19	17	30	10	
EER					3.157	3.007	3.33	3.194	3.501	3.219	3.52	3.319	3.112	3.434	3.494	3.334
IPLV					6.058	6.007	6.144	6.065	6.641	6.619	6.273	6.667	6.49	5.796	6.414	6.301
Dimensions	Unit	Height		mm	2,553											
		Width		mm	2,238											
		Depth		mm	2,680		3,760		4,840		7,000	5,920			7,000	
Weight	Unit			kg	2,851		3,362		4,143		5,006	4,689		5,443	5,225	5,277
	Operation weight			kg	2,761		3,277	3,282	4,068	4,078	4,951	4,634	4,639	5,398	5,180	5,242
Air heat exchanger	Type				Microchannel											
Compressor	Type				Screw compressor											
	Quantity				1						2	1			2	
Fan	Type				Direct propeller											
	Quantity				4		6		8		12	10			12	
	Air flow rate	Cooling	Nom.	l/s	18,890		28,330		37,770		56,660	47,213			56,660	
Sound power level	Cooling	Nom.		dBA	86.7	86.9	89.3	89.9	87.9	89.4	90.5	93.3	91.1	89.2	90.8	94.2
Sound pressure level	Cooling	Nom.		dBA	67.62	67.78	69.6	70.14	67.59	69.17	69.38	72.53	70.32	68.42	69.59	73.07
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46											
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge			kg	30		35	40	45	55	65		70	75		85
	Circuits	Quantity			1						2	1			2	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm				139.7mm						168.3mm	
Unit	Starting current	Max		A	0											
	Running current	Cooling	Nom.	A	150.2	163.3	180.6	199.6	216.9	249.8	305.9	283.6	314.9	306.1	343.5	386.6
		Max		A	172	183	214	236	269	310	364	357	394	414	406	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400											

EWAH-TZXRD					620	645	700	750	790	840	900	975	H10	H11	H12	H13
SEER					5.467	6.207	6.095	6.392	6.417	6.318	6.216	6.252	6.226	5.875	5.942	5.987
Cooling capacity	Nom.			kW	607.1	632.8	687.3	743.4	780.8	831.9	886	959.8	1,066	1,167	1,257	1,363
Power input	Cooling	Nom.		kW	194.4	186.7	211.1	220	225.2	250.2	276	301.6	327.9	351.2	384.5	419.4
Capacity control	Method				VFD											
	Minimum capacity			%	25	14	13	12		11	10			14	13	12
EER					3.123	3.389	3.255	3.379	3.467	3.325	3.21	3.182	3.251	3.323	3.268	3.251
IPLV					5.64	6.46	6.317	6.633	6.648	6.52	6.407	6.445	6.447	6.498	6.388	6.435
Dimensions	Unit	Height		mm	2,553											
		Width		mm	2,238											
		Depth		mm	5,920		7,000	8,080		9,160		10,240	11,320		12,400	13,480
Weight	Unit			kg	5,443		5,534	6,271		6,753	6,842	7,323	8,211	8,880	9,362	9,843
	Operation weight			kg	5,408	5,504	5,509	6,256	6,743	6,748	6,847	7,338	8,241	8,925	9,417	9,913
Air heat exchanger	Type				Microchannel											
Compressor	Type				Screw compressor											
	Quantity				1	2										
Fan	Type				Direct propeller											
	Quantity				10		12	14		16		18	20		22	24
	Air flow rate	Cooling	Nom.	l/s	47,213		56,660	66,098		75,540		84,983	94,425		103,868	113,320
Sound power level	Cooling	Nom.		dBA	90.2	89.1	90.2	91	91.6	92.4	94.1	95.6	94.1	92.7	93.4	94.2
Sound pressure level	Cooling	Nom.		dBA	69.5	67.94	69.04	69.4	69.68	70.53	72.22	73.4	71.53	70.14	70.59	71.07
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46											
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge			kg	85	90	95	105	110	115	125	135	150	165	175	190
	Circuits	Quantity			1	2										
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm	168.3mm		219.1mm					273mm			
Unit	Starting current	Max		A	0											
	Running current	Cooling	Nom.	A	366.7	401.1	433.8	454.5	470	507.6	547.1	592.9	642.8	675.5	732.6	793.9
		Max		A	491	472	517	527	579	618	655	702	787	902	992	1,090
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400											

Inverter screw with PLATINUM efficiency. Standard sound.

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- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,163 kW
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EWA*~TZ D2 with option 76b

EWAH-TZPSD					225	265	295	340	395	420	490	500	540	545	615
SEER					6.234	6.353	6.334	6.977	6.709	6.849	6.786	6.44	6.576	6.09	6.865
Cooling capacity	Nom.			kW	227.3	266.6	293.6	336.7	392	421.5	848.9	502.6	538.7	541.2	612.4
Power input	Cooling	Nom.		kW	61.76	71.25	81.63	84.16	105.1	113.2	133.4	132.3	141.6	143.6	156.8
Capacity control	Method				VFD										
	Minimum capacity			%	22	19	17	28	23	22	19	10		30	15
EER					3.6	3.618	3.499	3.853	3.651	3.612	3.561	3.737	3.721	3.736	3.843
IPLV					6.688	6.689	6.595	7.437	7.042	7.251	7.093	6.797	6.932	6.385	7.155
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	3,640	4,720		5,800		6,880			7,960	6,880	7,960
Weight	Unit			kg	3,212	3,724		4,569		5,050	5,136	5,157	5,639	5,805	6,151
	Operation weight			kg	3,242	3,759	3,764	4,614	4,624	5,110	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				6	8		10		12			14	12	14
	Air flow rate	Cooling	Nom.	l/s	33,930	45,240		56,540		67,848			79,170	67,848	79,170
Sound power level	Cooling	Nom.		dBA	97.5	98.1	102.6	95.7	98.7	100.1	104.6	100.6	100.9	99	96.6
Sound pressure level	Cooling	Nom.		dBA	77.74	77.83	82.3	75	77.94	78.89	83.39	79.43	79.35	77.82	75.06
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46										
Refrigerant	Type/GWP				R-1234(ze)/7										
	Charge			kg	30	35	40	45	55	60	65	70	75		85
	Circuits	Quantity			1							2		1	2
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm				168.3mm		139.7mm	219.1mm
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	142.3	166.7	184.7	196.1	230.8	248	278	298.6	322.3	290.8	347.4
		Max		A	183	214	235	258	301	330	367	375	406	425	432
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

EWAH-TZPSD					645	700	770	845	900	960	C10	H10	H11	C12
SEER					6.816	6.672	6.656	6.712	6.595	6.596	6.52	6.564	6.262	6.327
Cooling capacity	Nom.			kW	640.9	697.3	768.3	847.6	901.3	958.2	1,006	1,068	1,163	1,216
Power input	Cooling	Nom.		kW	167.4	190.8	209.2	230.4	254.6	268.9	289.6	305.9	315.5	327.6
Capacity control	Method				VFD									
	Minimum capacity			%	14	13	12	11	10				14	
EER					3.782	3.642	3.648		3.528	3.54	3.462	3.469	3.7	3.712
IPLV					7.157	6.992	6.965	7.134	6.932	6.912	6.746	6.815	6.562	7.068
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	7,960		9,040	10,120		11,200		12,280		13,360
Weight	Unit			kg	6,151		6,722	7,256		8,050		8,573	9,242	9,723
	Operation weight			kg	6,241	6,246	6,827	7,371	7,381	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				14		16	18		20		22		24
	Air flow rate	Cooling	Nom.	l/s	79,170		90,480	101,780		113,089		140,200		152,945
Sound power level	Cooling	Nom.		dBA	97.5	99.3	101	102.3	104.2	106.5	106.9	105.5	102.4	102.8
Sound pressure level	Cooling	Nom.		dBA	75.95	77.76	79.04	80.05	81.92	83.96	84.32	82.67	79.52	79.71
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46									
Refrigerant	Type/GWP				R-1234(ze)/7									
	Charge			kg	90	95	105	115	125	130	140	150	160	170
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm					273mm				
Unit	Starting current	Max		A	0									
	Running current	Cooling	Nom.	A	365	403.1	437.5	473.2	507.8	539.6	569.4	603	612	638.1
		Max		A	458	505	558	609	647	694	731	779	875	923
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400									

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EWA*~TZ D2 with option 76b

EWAH-TZPRD					225	265	295	340	395	420	490	500	540	545	615
SEER					6.176	6.335	6.289	7.018	6.627	6.824	6.728	6.458	6.426	6.091	6.484
Cooling capacity	Nom.			kW	225.2	264.6	291.2	333.9	389.2	419.1	481.2	497.4	533.5	536.5	604.9
Power input	Cooling	Nom.		kW	61.76	71.25	81.63	84.16	105.1	113.2	133.4	132.3	141.6	143.6	156.8
Capacity control	Method				VFD										
	Minimum capacity			%	22	19	17	28	23	22	19	10		30	15
EER					3.647	3.713	3.567	3.967	3.705	3.703	3.606	3.76	3.768	3.736	3.858
IPLV					6.699	6.688	6.583	7.472	7.129	7.273	7.127	6.826	6.955	6.407	7.285
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	3,760	4,840		5,920		7,000			8,080	7,000	8,080
Weight	Unit			kg	3,332	3,844		4,689		5,170	5,256	5,277	5,759	5,925	6,271
	Operation weight			kg	3,242	3,759	3,764	4,614	4,624	5,110	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				6	8		10		12			14	12	14
	Air flow rate	Cooling	Nom.	l/s	28,330	37,770		47,213		56,660			66,098	56,660	66,098
Sound power level	Cooling	Nom.		dBA	87.5	88.3	91.5	87.6	89.1	90.2	93.4	90.5	91	89.6	88.9
Sound pressure level	Cooling	Nom.		dBA	67.73	68.06	71.23	66.88	68.33	69.04	72.28	69.38	69.43	68.42	67.29
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46										
Refrigerant	Type/GWP				R-1234(ze)/7										
	Charge			kg	30	35	40	45	55	60	65	70	75		85
	Circuits	Quantity			1							2		1	2
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm				168.3mm		139.7mm	219.1mm
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	145.5	169.8	188.1	199.8	235.9	252.3	283.4	305.9	329.8	298.5	355.9
		Max		A	183	214	235	258	301	330	367	375	406	425	432
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

EWAH-TZPRD					645	700	770	845	900	960	C10	H10	H11	C12
SEER					6.833	6.649	6.674	6.722	6.613	6.665	6.53	6.577	6.262	6.255
Cooling capacity	Nom.			kW	633.1	689	760.6	839.9	892.3	949.1	994.9	1,056	1,150	1,204
Power input	Cooling	Nom.		kW	167.4	190.8	209.2	230.4	254.6	268.9	289.6	305.9	315.5	327.6
Capacity control	Method				VFD									
	Minimum capacity			%	14	13	12	11	10				14	
EER					3.783	3.612	3.636	3.646	3.504	3.53	3.435	3.452	3.644	3.675
IPLV					7.162	7.001	6.458	7.118	6.974	6.918	6.794	6.863	6.451	6.947
Dimensions	Unit	Height		mm	2,553									
		Width		mm	2,238									
		Depth		mm	8,080		9,160	10,240		11,320		12,400		13,480
Weight	Unit			kg	6,271		6,842	7,376		8,170		8,693	9,362	9,843
	Operation weight			kg	6,241	6,246	6,827	7,371	7,381	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				14		16	18		20		22		24
	Air flow rate	Cooling	Nom.	l/s	66,098		75,540	84,983		94,425		103,868		113,320
Sound power level	Cooling	Nom.		dBA	89.2	90.1	91.2	92.3	93.5	95.4	95.7	94.8	92.6	93.1
Sound pressure level	Cooling	Nom.		dBA	67.65	68.52	69.33	70.02	71.3	72.9	73.2	71.92	69.81	69.96
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~46									
Refrigerant	Type/GWP				R-1234(ze)/7									
	Charge			kg	90	95	105	115	125	130	140	150	160	170
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm					273mm				
Unit	Starting current	Max		A	0									
	Running current	Cooling	Nom.	A	374.4	414.8	449.1	484.8	521.2	552.9	584.1	617.4	631.3	656.9
		Max		A	458	505	558	609	647	694	731	779	875	923
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400									

Inverter screw cooling only with BLU efficiency. Standard sound.

- Refrigerant **HFO/HFC** R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,868 kW
- New single screw compressor geometry allowing performance optimisation
- 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

EWA*~TZ D2 with option 76b

EWAS-TZBSD					275	320	345	400	470	525	580	625	755	830	915
SEER					4.3	4.4			4.6		4.7		4.6		4.7
Cooling capacity	Nom.			kW	258.8	310.6	338.2	405.8	451.2	505.5	554.9	597.4	734	800.1	884.2
Power input	Cooling			kW	97.8	106.4	122.7	145.2	170.8	178.3	210.4	244.8	246.3	284.8	319.3
Capacity control	Method				VFD										
	Minimum capacity			%	22	19	17	22	23	22	19	17	13	11	13
EER					2.646	2.919	2.756	2.795	2.642	2.835	2.637	2.44	2.98	2.809	2.769
IPLV					4.3	4.5	4.4	4.7	4.6		4.5		4.8	4.7	
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	2,560	3,640				4,720			6,880		
Weight	Unit			kg	2,602	3,084		3,486		4,032			5,670		6,142
	Operation weight			kg	2,677	3,169		3,583.7	3,593.7	4,160.1	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				4	6				8			12		
	Air flow rate	Cooling	Nom.	l/s	25,490	38,235				50,990			76,470		
Sound power level	Cooling	Nom.		dBA	97.4	97.9	100	97.3	96.7	97.7	98.1	100.5	99	100	99
Sound pressure level	Cooling	Nom.		dBA	78.3	78.2	80.3	77.6	77	77.4	77.8	80.3	77.8	78.8	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~42										
Refrigerant	Type/GWP				R-513A/630										
	Charge			kg	35	45		55	65	70	80	85	105	115	125
	Circuits	Quantity			1								2		
Piping connections	Evaporator water inlet/outlet (OD)					88.9mm			139.7mm				168.3mm		219.1mm
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	190.1	207.1	228.7	262	300.2	315.2	362.8	413.9	457.4	515.3	568.4
		Max		A	220	262	284	346	362	400	457	464	600	668	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

EWAS-TZBSD					C10	H10	H11	C12	C13	C14	C15	H16	H17	H18	H19
SEER					4.7					4.6		4.9	4.8	4.7	4.8
Cooling capacity	Nom.			kW	953.9	1,050	1,127	1,197	1,293	1,359.6	1,483.5	1,606	1,688	1,799.6	1,868
Power input	Cooling			kW	371.96	393.3	411.8	434.6	472.69	519.9	558.77	581.2	647.2	699.02	775.2
Capacity control	Method				VFD										
	Minimum capacity			%	11	10						13	12	11	10
EER					2.565	2.67	2.737	2.754	2.735	2.615	2.655	2.763	2.608	2.574	2.41
IPLV					4.7	4.8		4.7	4.6			5.2		5.1	
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	6,880	7,960	9,040	10,120	11,200		12,280			13,360	
Weight	Unit			kg	6,142	6,816	7,297	7,779	8,260	8,581	9,920	10,323		10,805	
	Operation weight			kg	6,763	7,523	8,014	8,506	9,002	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				12	14	16	18	20		22			24	
	Air flow rate	Cooling	Nom.	l/s	76,470	89,233	101,980	114,705	127,450		140,195			152,940	
Sound power level	Cooling	Nom.		dBA	100	100.7	101	101.8	103.7	104.8	106.2	104.1	104.9	105.8	106.6
Sound pressure level	Cooling	Nom.		dBA	78.8	79.1		79.6	81.2	82.3	83.4	81.2	82	82.7	83.5
Operation range	Air side	Cooling	Min.~Max.	°CDB	5 ~42										
Refrigerant	Type/GWP				R-513A/630										
	Charge			kg	140	150	160	170	185	195	215	230	245	260	270
	Circuits	Quantity			2										
Piping connections	Evaporator water inlet/outlet (OD)						219.1mm				273mm				
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	647.2	681.9	711.6	748.1	807.1	876.6	940.2	972.2	1,069	1,148	1,261
		Max		A	751	817	884	930	948	1,120	1,200	1,227	1,340	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

Inverter screw with SILVER efficiency. Standard sound.

- Refrigerant **HFO/HFC** R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,905 kW
- New single screw compressor geometry allowing performance optimisation
- 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

EWA*~TZ D2 with option 76b

EWAS-TZSSD					285	325	380	430	495	520	535	555	585	595	645	650	705	760
SEER					5.2	5.4	5.5	5.2	5.1	4.9	5.3	5	4.9	5.2	5	5.2	4.9	5
Cooling capacity	Nom.			kW	284.9	329.3	374.3	426.2	487.5	522	529.7	553.9	583.2	585.6	645.1	635.1	702.3	758.2
Power input	Cooling	Nom.		kW	89.25	103.6	120.5	138.8	161.5	172.1	170.5	188.8	206.6	200.1	214.8	231	249.4	239.4
Capacity control	Method				VFD													
	Minimum capacity			%	22	19	17	22	23	11	22	10		19	10	17	10	13
EER					3.192	3.179	3.106	3.071	3.019	3.033	3.107	2.934	2.823	2.927	3.003	2.749	2.816	3.167
IPLV					5.5	5.6	5.7	5.8	5.6	5.2	5.7	5.1		5.6	5.2	5.5	5.1	5.7
Dimensions	Unit	Height		mm	2,553													
		Width		mm	2,238													
		Depth		mm	3,640	4,720				5,800					6,880	5,800	6,880	7,960
Weight	Unit			kg	3,084	3,604		3,968	4,032	4,693	4,513	4,693		4,513	5,177	4,513	5,177	6,151
	Operation weight			kg	3,164	3,697	3,702	4,070.7	4,155.1	5,033	4,646.1	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				1					2	1	2		1	2	1	2	
Fan	Type				Direct propeller													
	Quantity				6	8				10					12	10	12	14
	Air flow rate	Cooling	Nom.	l/s	38,240	50,990				63,733					76,480	63,733	76,480	89,233
Sound power level	Cooling	Nom.		dBA	97.8	98.3	100.2	97.7	97.1	99.3	98	99.5	100.7	98.4	100.9	100.7	103	99.2
Sound pressure level	Cooling	Nom.		dBA	78		80	77.4	76.9	78.6	77.3	78.7	79.9	77.7	79.8	80	81.9	77.7
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42													
Refrigerant	Type/GWP				R-513A/630													
	Charge			kg	40	45	50	60	65	70	75		80		90		95	105
	Circuits	Quantity			1					2	1	2		1	2	1	2	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm	168.3mm		139.7mm	168.3mm	139.7mm	168.3mm	
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	378.9	409.6	358.4	427.8	404.3	472.9	461.3
		Max		A	231	272	294	357	372	421	411	450	481	467	523	474	566	610
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

EWAS-TZSSD					835	960	C10	H10	H11	H12	H13	H14	H15	H16	H17	H18	H19
SEER					5.2	5.3	5.2		5.3	5.4		5.2	5.5	5.4		5.3	5.1
Cooling capacity	Nom.			kW	832.7	948.8	1,001	1,043	1,149	1,268	1,359	1,465	1,542	1,638	1,756	1,837	
Power input	Cooling	Nom.		kW	274.7	321.4	354.4	375	408.9	436.8	477.3	526.1	516.5	577.2	627.5	695.5	
Capacity control	Method				VFD												
	Minimum capacity			%	11	12	11		10				14	13	12	11	10
EER					3.031	2.952	2.824	2.781	2.81	2.903	2.847	2.785	2.985	2.838	2.798	2.641	
IPLV					5.6	5.5	5.4	5.5	5.4	5.5		5.4	6.1	5.9	5.8	5.7	5.5
Dimensions	Unit	Height		mm	2,553												
		Width		mm	2,238												
		Depth		mm	7,960				9,040	11,200	12,280				13,360		
Weight	Unit			kg	6,151	6,623		6,816	7,297	8,260	8,742	9,920	10,323		10,805		
	Operation weight			kg	6,546	7,239	7,244	7,518	8,014	8,992	9,489	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				14				16	20	22				24		
	Air flow rate	Cooling	Nom.	l/s	89,233				101,908	127,467	140,213				152,960		
Sound power level	Cooling	Nom.		dBA	100.2	99.6	100.2	100.5	101	102.5	104.2	105.3	103.3	104.1	104.9	105.8	106.6
Sound pressure level	Cooling	Nom.		dBA	78.7	78	78.7	78.9	79.1	79.9	81.3	82.5	80.5	81.2	81.8	82.7	83.5
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42												
Refrigerant	Type/GWP				R-513A/630												
	Charge			kg	115	135	140	145	160	175	190	205	215	230	250	260	270
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm	219.1mm						273mm					
Unit	Starting current	Max		A	0												
	Running current	Cooling	Nom.	A	514.3	585.7	635	666.1	720.5	770.5	834.6	910.1	894.9	984.4	1,062	1,163	
		Max		A	679	706	761	789	884	948	1,187	1,156	1,124	1,227	1,351	1,475	1,608
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Inverter screw with GOLD efficiency. Standard sound.

- Refrigerant **HFO/HFC** R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,758 kW
- New single screw compressor geometry allowing performance optimisation
- 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
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- Performance monitoring
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EWA*~TZ D2 with option 76b

EWAS-TZXSD					295	345	380	440	515	525	565	565	610	635	670	705	725	760
SEER					5.2	5.4	5.5	5.2	5.1	5	5.3	4.9	5	5.2	4.9	5.2	5	4.9
Cooling capacity	Nom.			kW	293.5	344.9	377.1	435.9	506.6	524.4	560.5		610.4	626.7	665.8	696.1	719.7	749.1
Power input	Cooling			kW	94.89	108.5	124.1	127.6	159.3	155	171.5		187.8	202.4	214.2	220.6	233.6	248.3
Capacity control	Method				VFD													
	Minimum capacity			%	22	19	17	28	23	13	22	12	11	19	10	30	10	28
EER					3.093	3.179	3.039	3.416	3.18	3.383	3.268		3.25	3.096	3.108	3.155	3.081	3.017
IPLV					5.8	6.1	5.9	6.3	6.1	6	6.5	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	3,640	4,720		5,800		6,880			7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit			kg	3,255	3,775		4,569		5,348	5,136	5,348	5,829	5,136	5,829	5,805	5,946	5,805
	Operation weight			kg	3,335	3,868	3,873	4,687.1	4,697.1	5,673	5,287.3	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				1					2	1	2	1	2	1	2	1	
Fan	Type				Direct propeller													
	Quantity				6	8		10		12			14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s	33,930	45,240		56,540		67,860	68,280	67,860	79,170	68,280	79,170	68,280	79,170	68,280
Sound power level	Cooling	Nom.		dBA	97.5	98.1	102.6	95.7	97.5	100.1		100.3	100.6	104.6	100.9	99	102.3	99.8
Sound pressure level	Cooling	Nom.		dBA	79.9	81.8	82.8	74.6	75.8	78.9	76.2	80.2	81.2	76.6	83.3	77.8	83.8	78.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42													
Refrigerant	Type/GWP				R-513A/630													
	Charge			kg	40	45	50	60	70		75	80	85		90	95	100	105
	Circuits	Quantity			1					2	1	2	1	2	1	2	1	
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm		168.3mm	139.7mm	168.3mm	139.7mm	168.3mm	139.7mm	168.3mm	139.7mm	
Unit	Starting current	Max		A	0													
	Running current	Cooling	Nom.	A	198.1	227.3	247	258.3	305.8	334.1	331		397.7	377.1	443.2	403.7	464.7	444.5
		Max		A	224	261	289	314	342	389	404	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

EWAS-TZXSD					805	880	950	C10	H10	H11	C12	H12	H13	H14	H15	H16	H17
SEER					5.2	5.3	5.2		5.3	5.4		5.2	5.5	5.4		5.3	5.1
Cooling capacity	Nom.			kW	794.9	873.2	941.6	988.1	1,052	1,122	1,183	1,267.2	1,344	1,442	1,551	1,645	1,734
Power input	Cooling			kW	246.2	266.2	300.2	310.7	346.2	357.9	393.7	426.7	452.1	446.3	503.1	562.8	628.6
Capacity control	Method				VFD												
	Minimum capacity			%	10	14	13	12	11		10		15	14	13	12	
EER					3.229	3.28	3.137	3.18	3.039	3.135	3.005	2.97	2.973	3.231	3.083	2.923	2.759
IPLV					6	6.4	6.2	6.3	6.1	6.3	6.1	6		6.1	6.2	6.1	5.9
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	6,904	7,160		7,642		8,316			9,655	10,805			
	Operation weight			kg	7,495	7,761	7,771	8,258	8,268	9,028	9,038	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				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	104.6	98.4	100.3	101	102.3	102.9	105.2	107.5	106.1	102	102.8	103.7	104.5
Sound pressure level	Cooling	Nom.		dBA	83.9	76.1	76.5	76.8	77.5	77.6	77.9	78	79.1	78.9	79.7	80.5	81.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42												
Refrigerant	Type/GWP				R-513A/630												
	Charge			kg	110	120	130	135	145	155	165	180	190	200	215	230	245
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm								273mm				
Unit	Starting current	Max		A	0												
	Running current	Cooling	Nom.	A	466.5	520.3	571.1	592.9	645.8	669.5	722.6	744.2	817.8	814.6	898.5	986.3	1,083
		Max		A	573	626	683	720	782	744	803	851	899	997	1,103	1,217	1,330
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Inverter screw with GOLD efficiency. Reduced sound.

- Refrigerant **HFO/HFC** R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,680 kW
- New single screw compressor geometry allowing performance optimisation
- 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

EWA*~TZ D2 with option 76b

EWAS~TZXRD					295	345	380	440	515	525	565	565	610	635	670	705	725	760
SEER					5.2	5.7	5.7	5.8	5.6	5.8	5.8	5.7	5.8	5.7	5.7	5.2	5.7	5.2
Cooling capacity	Nom.			kW	288.5	340.2	370.6	430.5	499.2	517.0	553.3	555.8	601.5	617.1	655.1	682.7	707.0	732.6
Power input	Cooling	Nom.		kW	95.0	107.5	118.9	125.9	159.3	153.1	170.4	172.3	186.0	203.0	213.8	223.6	234.3	252.9
Capacity control	Method				VFD													
	Minimum capacity			%	22	19	17	28	23	13	22	12	11	19	10	30	10	28
EER					3.038	3.165	3.117	3.419	3.134	3.377	3.247	3.226	3.234	3.040	3.064	3.053	3.017	2.897
SEPR					6.8	6.9	6.7	7.8	7.2	7.3	7.3	7.1	7.2	6.9	7.0	7.7	6.9	7.0
Dimensions	Unit	Height		mm	2,553													
		Width		mm	2,238													
		Depth		mm	3,640	4,720		5,800		6,880			7,960	6,880	7,960	6,880	7,960	6,880
Weight	Unit			kg	3,375	3,895		4,689		5,468	5,256	5,468	5,949	5,256	5,949	5,925	6,066	5,925
	Operation weight			kg	3,455	3,988	3,993	4,807.1	4,817.1	5,793	5,407.3	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				1					2	1	2		1	2	1	2	1
Fan	Type				Direct propeller													
	Quantity				6	8		10		12			14	12	14	12	14	12
	Air flow rate	Cooling	Nom.	l/s	28,330	37,770		47,213		56,660			66,098	56,660	66,098	56,660	66,098	56,660
Sound power level	Cooling	Nom.		dBA	87.5	88.3	91.5	87.6	88.4	90.2		90.3	90.8	93.4	91	89.6	91.9	90.1
Sound pressure level	Cooling	Nom.		dBA	67.7	68.1	71.2	66.9	67.7	69		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-513A/630													
	Charge			kg	40	45	50	60	70		75	80	85		90	95	100	105
	Circuits	Quantity			1					2	1	2		1	2	1	2	1
Piping connections	Evaporator water inlet/outlet (OD)			mm	88.9			139.7		168.3	139.7	168.3		139.7	168.3	139.7	168.3	139.7
Unit	Starting current	Max		A	0													
	Running current	Max		A	224	261	289	314	342	389	404	429	457	452	498	520	535	568
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

EWAS~TZXRD					805	880	950	C10	H10	H11	C12	H12	H13	H14	H15	H16	H17
SEER					5.9	6.0	5.9	6.1	5.9	6.0	5.9	5.8	5.9	5.1	5.7	5.5	5.3
Cooling capacity	Nom.			kW	769.0	859.3	924.9	972.4	1034.0	1104.0	1162.0	1273.0	1319.0	1414.0	1514.0	1607.0	1680.0
Power input	Cooling	Nom.		kW	255.8	267.2	303.2	312.4	350.0	360.5	398.3	452.7	458.7	453.3	512.9	576.7	644.5
Capacity control	Method				VFD												
	Minimum capacity			%	10	14	13	12	11		10		15	14	13	12		
EER					3.006	3.216	3.050	3.113	2.954	3.062	2.917	2.812	2.876	3.119	2.952	2.787	2.607	
SEPR					6.9	7.6	7.2	7.3	6.9	7.0	6.8	6.6	6.7	7.9	7.0	6.8	6.7	
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	7,024	7,280		7,762		8,436			9,775	10,925				
	Operation weight			kg	7,615	7,881	7,891	8,378	8,388	9,148	9,158	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				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	93.7	89.9	90.9	91.5	92.3	92.8	94.4	96.3	95.2	92.6	93.1	93.6	94.2	
Sound pressure level	Cooling	Nom.		dBA	71.8	68	69	69.3	70	70.3	71.9	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-513A/630													
	Charge			kg	110	120	130	135	145	155	165	180	190	200	215	230	245	
	Circuits	Quantity			2													
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm								273mm					
Unit	Starting current	Max		A	0													
	Running current	Max		A	573	626	683	720	782	744	803	851	899	997	1,103	1,217	1,330	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

Inverter screw with PLATINUM efficiency. Standard sound.

- Refrigerant **HFO/HFC** R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,569 kW
- New single screw compressor geometry allowing performance optimisation
- 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

EWA*~TZ D2 with option 76b

				EWAS-TZPSD	285	330	370	405	450	490	530	575	615	675	735
SEER					5.9	6	5.9	6.3	6.2		6	5.9		5.8	
Cooling capacity	Nom.			kW	287.6	333.2	370.2	405.1	450.1	488.4	531.7	573.6	620.2	677.1	732.9
Power input	Cooling	Nom.		kW	81.89	96.83	111.6	110.6	123.5	137.5	150.8	167.7	180.9	205.7	223.4
Capacity control	Method				VFD										
	Minimum capacity			%	23	20	18	30	28	25	13	12	11	10	
EER					3.512	3.441	3.317	3.663	3.645	3.552	3.526	3.42	3.428	3.292	3.281
IPLV					6.5		6.4	7	7.3	7.2	6.4	6.3		6.1	6.2
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	4,720	5,800		6,880			7,960		9,040		
Weight	Unit			kg	3,775	4,256		5,050	5,136		5,829		6,311		6,427
	Operation weight			kg	3,863	4,349	4,354	5,163.1	5,272.3	5,277.3	6,159	6,164	6,651	6,661	6,825
Air heat exchanger	Type				Microchannel										
Compressor	Type				Screw compressor										
	Quantity				1						2				
Fan	Type				Direct propeller										
	Quantity				8	10		12			14		16		
	Air flow rate	Cooling	Nom.	l/s	45,240	56,540		67,848			79,170		90,480		
Sound power level	Cooling	Nom.		dBA	97.5	98.1	100.4	94.7	96	97.7	100.2	100.4	100.7	101	102.3
Sound pressure level	Cooling	Nom.		dBA	78.2	81	81.9	74.2	74.5	74.9	78.6	79.9	80.9	83	83.4
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42										
Refrigerant	Type/GWP				R-513A/630										
	Charge			kg	40	45	50	55	60	65	75	80	85	95	100
	Circuits	Quantity			1						2				
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm			168.3mm				
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	181.1	212.7	238.2	242	258.8	280	332	361.5	391.2	434	459.1
		Max		A	220	258	285	293	352	404	399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

				EWAS-TZPSD	810	890	960	C10	H10	H11	C12	H12	H13	H14	H15
SEER					6.1	6.3	6.1	6.2	6.1		6	6.1	6	5.9	5.7
Cooling capacity	Nom.			kW	810	884.2	954	1,001	1,067	1,110	1,197	1,288	1,363	1,443	1,552
Power input	Cooling	Nom.		kW	238.8	256.7	288.7	298.9	331.9	343.6	434.6	410.7	433.6	435.6	492.1
Capacity control	Method				VFD										
	Minimum capacity			%	10	14	13	12	11		10		15	14	
EER					3.392	3.444	3.304	3.349	3.215	3.231	2.754	3.136	3.143	3.313	3.154
IPLV					6.5	6.8	6.6		6.3	6.5	6.4	6.3	6.4	6.3	6.4
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	10,120			11,200		12,280			13,360		
Weight	Unit			kg	7,385	7,642		8,123		8,798		9,655	10,136	10,805	
	Operation weight			kg	7,976	8,243	8,253	8,744	8,754	9,515	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				18			20		22			24		
	Air flow rate	Cooling	Nom.	l/s	101,772			113,080		140,200			152,945		
Sound power level	Cooling	Nom.		dBA	104.6	98.6	100.4	101.1	102.4	103	105.2	107.5	106.2	102	102.8
Sound pressure level	Cooling	Nom.		dBA	83.6	75.9	76.3	76.6	77.3	77.4	77.7	77.9	78.9		79.7
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42										
Refrigerant	Type/GWP				R-513A/630										
	Charge			kg	110	120	130	140	150	160	165	180	190	205	220
	Circuits	Quantity			2										
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm							273mm			
Unit	Starting current	Max		A	0										
	Running current	Cooling	Nom.	A	485.2	511.9	559.9	581.2	630.4	653.8	748.1	756.2	796.3	798.5	882
		Max		A	573	616	672	709	761	796	845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

Inverter screw with PLATINUM efficiency. Reduced sound.

- Refrigerant **HFO/HFC** R-513A
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1,516 kW
- New single screw compressor geometry allowing performance optimisation
- 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

EWA*~TZ D2 with option 76b

EWAS~TZPRD					285	330	370	405	450	490	530	575	615	675	735
SEER					6.0	6.1	6.1	6.3	6.2	6.2	6.2	6.1	6.1	5.9	6.0
Cooling capacity	Nom.			kW	284.8	330.0	366.0	401.2	445.5	483.2	525.3	565.5	612.9	668.3	722.5
Power input	Cooling	Nom.		kW	79.7	93.8	109.3	106.6	120.2	134.9	147.2	164.9	177.2	203.1	221.8
Capacity control	Method				VFD										
	Minimum capacity			%	23	20	18	30	28	25	13	12	11	10	
EER					3.575	3.519	3.349	3.764	3.706	3.582	3.569	3.429	3.459	3.290	3.257
SEPR					7.7	7.6	7.3	8.4	8.3	8.1	7.7	7.4	7.5	7.3	7.2
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	4,720	5,800		6,880			7,960		9,040		
Weight	Unit			kg	3,895	4,376		5,170	5,256		5,949		6,431		6,547
	Operation weight			kg	3,983	4,469	4,474	5,283.1	5,392.3	5,397.3	6,279	6,284	6,771	6,781	6,945
Air heat exchanger	Type				Microchannel										
Compressor	Type				Screw compressor										
	Quantity				1						2				
Fan	Type				Direct propeller										
	Quantity				8	10		12			14		16		
	Air flow rate	Cooling	Nom.	l/s	37,770	47,213		56,660			66,098		75,540		
Sound power level	Cooling	Nom.		dBA	88	88.7	90.1	87.8	88.2	88.9	90.6	90.7	91.1	91.3	92.1
Sound pressure level	Cooling	Nom.		dBA	67.7	68	69.4	66.6	67	67.8	69	69.1	69.2	69.4	70.2
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42										
Refrigerant	Type/GWP				R-513A/630										
	Charge			kg	40	45	50	55	60	65	75	80	85	95	100
	Circuits	Quantity			1						2				
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm			139.7mm			168.3mm				
Unit	Starting current	Max		A	0										
	Running current	Max		A	220	258	285	293	352	404	399	429	468	508	535
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

EWAS~TZPRD					810	890	960	C10	H10	H11	C12	H12	H13	H14	H15
SEER					6.2	6.5	6.3	6.4	6.2	6.3	6.2	6.2	6.1	5.3	5.8
Cooling capacity	Nom.			kW	798.9	871.8	939.5	987.2	1051.0	1095.0	1178.0	1266.0	1340.0	1416.0	1516.0
Power input	Cooling	Nom.		kW	236.2	255.4	289.2	298.1	333.0	343.4	381.2	414.7	436.6	441.9	501.3
Capacity control	Method				VFD										
	Minimum capacity			%	10	14	13	12	11		10			15	14
EER					3.382	3.413	3.249	3.312	3.156	3.189	3.090	3.053	3.069	3.204	3.024
SEPR					7.4	8.0	7.6	7.6	7.3	7	7.2	7.0	6.9	8.1	7.2
Dimensions	Unit	Height		mm	2,553										
		Width		mm	2,238										
		Depth		mm	10,120			11,200			12,280			13,360	
Weight	Unit			kg	7,505	7,762		8,243		8,918		9,775	10,256	10,925	
	Operation weight			kg	8,096	8,363	8,373	8,864	8,874	9,635	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				18			20			22			24	
	Air flow rate	Cooling	Nom.	l/s	84,983			94,425			103,868			113,320	
Sound power level	Cooling	Nom.		dBA	93.9	90.3	91.2	91.8	92.5	93	94.5	96.4	95.4	92.6	93.1
Sound pressure level	Cooling	Nom.		dBA	71.6	68.1	68.9	69.2	69.9	70.2	71.7	73.5	72.2	69.5	70
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~42										
Refrigerant	Type/GWP				R-513A/630										
	Charge			kg	110	120	130	140	150	160	165	180	190	205	220
	Circuits	Quantity			2										
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm							273mm			
Unit	Starting current	Max		A	0										
	Running current	Max		A	573	616	672	709	761	796	845	893	951	1,039	1,135
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400										

Air cooled mini inverter heat pump

- Choosing an R32 product reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Inverter chiller
- Hermetically sealed swing inverter compressor
- New casing for the outdoor units
- Separate MMI-2 controller for indoor installation

EW(A-Y)A004-008DV3P

EWAA-EWYA-D

Model			EWYA004 DV3P-H-	EWYA006 DV3P-H-	EWYA008 DV3P-H-	EWYA009 DV3P-H-	EWYA011 DV3P-H-	EWYA014 DV3P-H-	EWYA016 DV3P-H-	EWYA009 DW1P-H-	EWYA011 DW1P-H-	EWYA014 DW1P-H-	EWYA016 DW1P-H-
Cooling capacity	Nom.	kW	4.52	5.09	5.44	9.4	11.6	12.8	14.0	9.4	11.6	12.8	14.0
Power input	Cooling Nom.	kW	1.36	1.55	1.73	2.8	3.6	4.1	4.6	2.8	3.6	4.1	4.6
Heating capacity	Nom.	kW	4.6	5.9	7.8	9.4	10.6	12.0	16.0	9.4	10.6	12.0	16.0
Power input	Heating Nom.	kW	1.26	1.69	2.23	1.91	2.18	2.46	3.53	1.91	2.18	2.46	3.53
Capacity control	Method		Variable (Inverter)										
EER			3.32	3.28	3.14	3.35	3.26	3.16	3.06	3.35	3.26	3.16	3.06
SEER			-	-	-	5.62	5.79	5.71	5.59	5.62	5.79	5.71	5.59
COP			3.65	3.5	3.5	4.91	4.83	4.87	4.53	4.91	4.83	4.87	4.53
Dimensions	Height x Width x Depth	mm	770 x 1250 x 362			870 x 1380 x 460							
Operating weight		kg	88			147							
Water heat exchanger	Type		Brazed Plate										
Water flow rate	Cooling Nom.	l/s	0.21	0.25	0.27	0.45	0.55	0.61	0.67	0.45	0.55	0.61	0.67
	Heating Nom.	l/s	0.21	0.28	0.37	0.45	0.51	0.57	0.77	0.45	0.51	0.57	0.77
Pump	Available Head - Cooling	kPa	73.0	72.0	71.0	106.6	99.2	94.1	88.4	106.6	99.2	94.1	88.4
	Available Head - Heating	kPa	73.0	68.0	63.0	107.5	105.2	95.7	76.7	107.5	105.2	95.7	76.7
Air heat exchanger	Type		Cu/Al - High efficiency fin and tube type with integral subcooler										
Compressor	Type		Hermetically sealed swing inverter compressor										
	Quantity		1										
Fan	Type		Direct Propeller										
	Quantity		1										
Sound power level	Cooling Nom.	dBA	61	62	62	65.5	67.0	69.0	69.0	65.5	67.0	69.0	69.0
Sound pressure level	Cooling Nom.	dBA	48	49	50	44.0	47.7	50.8	51.0	44.0	47.7	50.8	51.0
Refrigerant	Type/GWP		R32/675										
	Total charge	kg	1.35			3.8							
	Quantity of circuits		1										
Piping connections	Evaporator water inlet/outlet (OD)	inch	1										
Electrical data	Voltage/Phase/Frequency	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50	400/3/50

Notes:

i) Please contact your local sales office for further information on these products – Download information from www.daikin.co.uk

ii) Nominal cooling capacities are based on 35°C ambient, chilled water @12/7°C

iii) Nominal heating capacities are based on 7°C db/6°C wb ambient, water @ 40/45°C

iv) EWYA-DV/DW series only operate in cooling mode down to ambient temperatures of +10°C

Air Cooled Water Chiller Inverter Scroll Compressor - Heat Pump

- R-32 refrigerant product with GWP of 675 reduces the environmental impact by 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- As a single component refrigerant, R-32 is also easier to recycle and reuse
- Daikin inverter scroll compressors on all stages with possibility for MAX mode to increase capacity output
- Available in air cooled cooling only and air source heat pump versions

EWYT-CZ

			Single Circuit Models									
Model			**EWYT016CZNBA1**		**EWYT021CZNBA1**		**EWYT025CZNBA1**		**EWYT032CZNBA1**		**EWYT040CZNBA1**	
Operating Mode			**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**
Cooling capacity	Nom./Max.	kW	15.87	18.30	20.87	25.00	25.57	29.30	32.38	38.60	39.58	45.20
Power input	Cooling Nom.	kW	5.5	6.8	6.6	8.5	8.5	10.7	9.3	13.5	12.4	16.7
Heating capacity	Nom./Max.	kW	15.87	18.29	20.87	24.29	25.57	28.67	32.38	36.50	39.58	44.72
Power input	Heating Nom.	kW	5.5	6.8	6.6	8.5	8.5	10.7	9.3	13.5	12.4	16.7
Capacity control	Method		Variable (Inverter)									
	Minimum capacity	%	18		14		12		19		15	
EER	Nom.		2.90	2.69	3.16	2.94	3.00	2.74	3.13	2.87	2.95	2.71
SEER			5.00		5.00		5.06		5.21		5.09	
IPLV			5.82		6.30		6.04		6.24		5.86	
COP			3.41		3.45		3.33		3.45		3.33	
SCOP			3.89		4.00		4.07		4.06		4.07	
Dimensions	Height x Width x Depth	mm	1878 x 1152 x 810						1878 x 1753 x 810			
Unit weight		kg	280		280		280		424		424	
Operating weight		kg	281		282		282		426		426	
Water heat exchanger	Type		Brazed plate									
Water flow rate	Cooling Nom.	l/s	0.76	0.90	1.00	1.20	1.22	1.40	1.55	1.80	1.89	2.20
	Heating Nom.	l/s	0.76	0.87	0.97	1.16	1.19	1.37	1.55	1.74	1.88	2.14
Water pressure drop	Cooling Nom.	kPa	19.8	25.5	11.3	15.6	16.3	20.7	19.2	26.3	27.6	35.0
	Heating Nom.	kPa	19.6	25.3	10.6	14.7	15.4	19.8	19.1	23.7	27.1	34.1
Air heat exchanger	Type		Cu/Al - Copper tube Aluminium fin exchanger									
Compressor	Type		Hermetically Sealed Scroll Compressor									
	Quantity		1		1		1		1		1	
Fan	Type		Axial/VFD									
	Quantity		1		1		1		2		2	
	Total Air Flow	l/s	3228		3122		3524		5080		6701	
Sound power level	Cooling Nom.	dBA	76		76		78		79		80	
Sound pressure level @1m	Cooling Nom.	dBA	60		60		62		62		63	
Refrigerant	Type/GWP		R32/675									
	Total charge	kg	3.0		5.5		5.5		7.0		8.0	
	Quantity of circuits		1		1		1		1		1	
Piping connections	Evaporator water inlet/outlet (OD)	mm	1 1/4" (Female)		1 1/4" (Female)		1 1/4" (Female)		1 1/4" (Female)		1 1/4" (Female)	
Electrical data	Running current - Cooling	A	13.8	15.0	15.5	18.0	18.1	21.0	25.3	29.0	28.6	32.0
	Running current Max	A	18.8	19.0	23.1	23.0	25.8	26.0	37.4	37.0	41.8	42.0
	Voltage / Phase / Frequency	V/Ph/Hz	400/3/50									

Model with options

Base Unit + Op.191 (Evaporator Trace Heater)		**EWAT016CZNBA1**	**EWAT021CZNBA1**	**EWAT025CZNBA1**	**EWAT032CZNBA1**	**EWAT040CZNBA1**
Base Unit + Low Head Pump + Op.191 (Evaporator Trace Heater)		**EWAT016CZPBA1**	**EWAT021CZPBA1**	**EWAT025CZPBA1**	**EWAT032CZPBA1**	**EWAT040CZPBA1**
Available Pump Head @ Nominal Flow Rate	kPa	240	230	200	180	160
Base Unit + High Head Pump + Op.191 (Evaporator Trace Heater)		**EWAT016CZHBA1**	**EWAT021CZHBA1**	**EWAT025CZHBA1**	**EWAT032CZHBA1**	**EWAT040CZHBA1**
Available Pump Head @ Nominal Flow Rate	kPa	470	460	420	400	370
Base Unit + Op.218 (Partial Heat Recovery)		**EWAT016CZNCA1**	**EWAT021CZNCA1**	**EWAT025CZNCA1**	**EWAT032CZNCA1**	**EWAT040CZNCA1**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	3.1	4.1	5.0	6.3	7.7
Base Unit + Low Head Pump + Op.218 (Partial Heat Recovery)		**EWAT016CZPCA1**	**EWAT021CZPCA1**	**EWAT025CZPCA1**	**EWAT032CZPCA1**	**EWAT040CZPCA1**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	3.1	4.1	5.0	6.3	7.7
Base Unit + High Head Pump + Op.218 (Partial Heat Recovery)		**EWAT016CZHCA1**	**EWAT021CZHCA1**	**EWAT025CZHCA1**	**EWAT032CZHCA1**	**EWAT040CZHCA1**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	3.1	4.1	5.0	6.3	7.7

Accessories:

Accessory Ref	Description
EKRSCTMS	Temperature sensor for master/slave configuration
EKRSCIO	IO Extension for VPF, domestic hot water, demand limit, setpoint reset, low noise
EKRSCBMS	External BMS Communication (Modbus RTU/TCP, Bacnet MSTP/IP)
EKRSCSM	DoS Router c/w Antenna & M2M Sim Card
EKRSCDP	Differential Pressure Transducer for VPF

Notes:

i) Please contact your local sales office for further information on these products – Download information from www.daikin.co.uk

ii) Nominal cooling capacities are based on 35°C ambient, chilled water @12/7°C

iii) EWAT-CZ series can operate in cooling down to ambient temperatures of -15°C as standard

iv) The EWAT064 & 090 do not include offloading to kerbside with tail lift. Additional costs for delivery with a Hi-Ab are available on request

Air Cooled Water Chiller Inverter Scroll Compressor - Heat Pump

- Possibility for 60°C Condenser Leaving Water Temperature
- Inverter driven propeller type AXIAL fan
- High efficiency copper fin and aluminium tube type outdoor exchanger with integral sub-cooler and anti-corrosion treatment
- New modern casing design
- Possibility for inverter drive on-board hydronic pump in standard or high lift
- Possibility to include Partial Heat Recovery option
- New MicroTech 4 controller allowing full compatibility with optional Daikin on-site, cloud-based monitoring

EWYT-CZ

			Dual Circuit Models							
Model			**EWYT040CZNBA2**		**EWYT050CZNBA2**		**EWYT064CZNBA2**		**EWYT090CZNBA2**	
Operating Mode			**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**	**Normal**	**Max**
Cooling capacity	Nom./Max.	kW	41.37	49.60	50.75	58.20	63.95	72.70	88.26	98.30
Power input	Cooling Nom.	kW	13.2	17.3	17.0	21.3	21.8	27.4	31.0	38.2
Heating capacity	Nom./Max.	kW	41.37	48.73	50.75	57.26	63.95	69.24	88.26	94.63
Power input	Heating Nom.	kW	13.2	17.3	17.0	21.3	21.8	27.4	31.0	38.2
Capacity control	Method		Variable (Inverter)							
	Minimum capacity	%	14		12		15		14	
EER	Nom.		3.12	2.87	2.98	2.73	2.93	2.65	2.84	2.57
SEER			5.41		5.33		5.21		5.03	
IPLV			6.37		5.93		5.87		5.60	
COP			3.38		3.23		3.23		3.16	
SCOP			4.02		4.00		3.98		4.00	
Dimensions	Height x Width x Depth	mm	1878 x 2304 x 810				1878 x 2905 x 810		1878 x 3506 x 810	
Unit weight		kg	560		560		704		848	
Operating weight		kg	565		565		709		856	
Water heat exchanger	Type		Brazed plate							
Water flow rate	Cooling Nom.	l/s	1.97	2.40	2.42	2.80	3.05	3.50	4.21	4.70
	Heating Nom.	l/s	1.93	2.33	2.38	2.74	2.96	3.31	4.10	4.52
Water pressure drop	Cooling Nom.	kPa	9.9	13.7	14.3	18.3	21.7	27.4	20.1	24.4
	Heating Nom.	kPa	9.4	13.3	13.8	17.7	20.4	24.9	19.1	22.6
Air heat exchanger	Type		Cu/Al - Copper tube Aluminium fin exchanger							
Compressor	Type		Hermetically Sealed Scroll Compressor							
	Quantity		2		2		2		2	
Fan	Type		Axial/VFD							
	Quantity		2		2		3		4	
	Total Air Flow	l/s	5444		7048		8967		13402	
Sound power level	Cooling Nom.	dBA	80		81		83		85	
Sound pressure level @1m	Cooling Nom.	dBA	63		64		65		67	
Refrigerant	Type/GWP		R32/675							
	Total charge	kg	12.0		12.0		13.0		16.0	
	Quantity of circuits		2		2		2		2	
Piping connections	Evaporator water inlet/outlet (OD)	mm	2" (Female)		2" (Female)		2" (Female)		2" (Female)	
Electrical data	Running current - Cooling	A	29.5	34.0	34.2	40.0	45.8	53.0	61.7	70.0
	Running current Max	A	45.2	45.0	50.7	51.0	66.7	67.0	91.4	91.0
	Voltage / Phase / Frequency	V/Ph/Hz	400/3/50							

Model with options

Base Unit + Op.191 (Evaporator Trace Heater)		**EWAT040CZNBA2**	**EWAT050CZNBA2**	**EWAT064CZNBA2**	**EWAT090CZNBA2**
Base Unit + Low Head Pump + Op.191 (Evaporator Trace Heater)		**EWAT040CZPBA2**	**EWAT050CZPBA2**	**EWAT064CZPBA2**	**EWAT090CZPBA2**
Available Pump Head @ Nominal Flow Rate	kPa	190	160	210	170
Base Unit + High Head Pump + Op.191 (Evaporator Trace Heater)		**EWAT040CZHBA2**	**EWAT050CZHBA2**	**EWAT064CZHBA2**	**EWAT090CZHBA2**
Available Pump Head @ Nominal Flow Rate	kPa	400	360	325	280
Base Unit + Op.218 (Partial Heat Recovery)		**EWAT040CZNCA2**	**EWAT050CZNCA2**	**EWAT064CZNCA2**	**EWAT090CZNCA2**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	8.1	9.9	12.6	17.4
Base Unit + Low Head Pump + Op.218 (Partial Heat Recovery)		**EWAT040CZPCA2**	**EWAT050CZPCA2**	**EWAT064CZPCA2**	**EWAT090CZPCA2**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	8.1	9.9	12.6	17.4
Base Unit + High Head Pump + Op.218 (Partial Heat Recovery)		**EWAT040CZHCA2**	**EWAT050CZHCA2**	**EWAT064CZHCA2**	**EWAT090CZHCA2**
Partial Heat Recovery Capacity @ Nominal Conditions	kW	8.1	9.9	12.6	17.4

Accessories:

Accessory Ref	**Description**
EKRSCTMS	Temperature sensor for master/slave configuration
EKRSCIO	IO Extension for VPF, domestic hot water, demand limit, setpoint reset, low noise
EKRSCBMS	External BMS Communication (Modbus RTU/TCP, Bacnet MSTP/IP)
EKRSCSM	DoS Router c/w Antenna & M2M Sim Card
EKRSCDP	Differential Pressure Transducer for VPF

Notes:

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iv) The EWAT064 & 090 do not include offloading to kerbside with tail lift. Additional costs for delivery with a Hi-Ab are available on request

EWYT-CZI

Air cooled scroll inverter heat pump, split version

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

EWYT-CZI

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

EWYT-CZO

Air cooled scroll inverter heat pump, split version

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

EWYT-CZO

Outdoor Unit				EWYT	021CZO-A1	032CZO-A1	040CZO-A1	064CZO-A2
Dimensions	Unit	HeightxWidthxDepth	mm		1,878x1,152x802	1,878x1,752x802		1,878x2,906x814
Weight	Unit		kg		265	357		620
Compressor	Quantity				1			2
	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			

EWYT-B

Multi scroll heat pumps with R-32 refrigerant

- Top class efficiency, SEER up to 4.92 and SCOP up to 4.06
- Low environmental impact thanks to R-32 refrigerant
- Dedicated Scroll Compressors for hot water production up 60°C
- The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410
- The low GWP R-32 refrigerant falls into category class A2L in ISO817 and it can be safely used in many applications including chilled water systems
- As a single component refrigerant, R-32 is also easier to recycle and reuse – another environmental plus in its favour
- Wide capacity range: 80 – 650 kW
- Optimised Copper -Aluminium Coils improving performances and de-frosting operation
- Silver and Gold efficiency versions
- 3 sound configurations
- 2 different layouts: Parallel Coil and Double V Coil
- One or Two independent refrigerant circuits
- Full compatibility with Daikin on Site
- Extensive option lists
- Fan speed modulation option (VFD)

Connectivity

Daikin on Site

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

› Remote monitoring
› System optimisation
› 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 customisation 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

Layout and range overview

Parallel coils

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

Double-V coils

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

Special Execution

Back-to-back EWYT~B- version is available as a special execution starting from size 350B-X*. Contact your Daikin UK Applied Sales Engineer for more details. Up to 1231 kW nominal heating capacity can be achieved with 2x EWYT650B-XSA2 connected Back-to-Back..

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

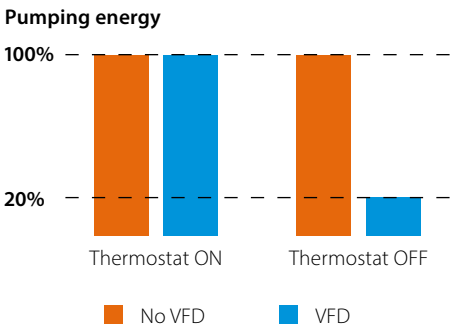
- Variable pump speed control via extenral 0-10 volt signal
- "Thermostat on" and "thermostat off" pump speed management
- Variable primary flow control

Master/Slave supplied as standard

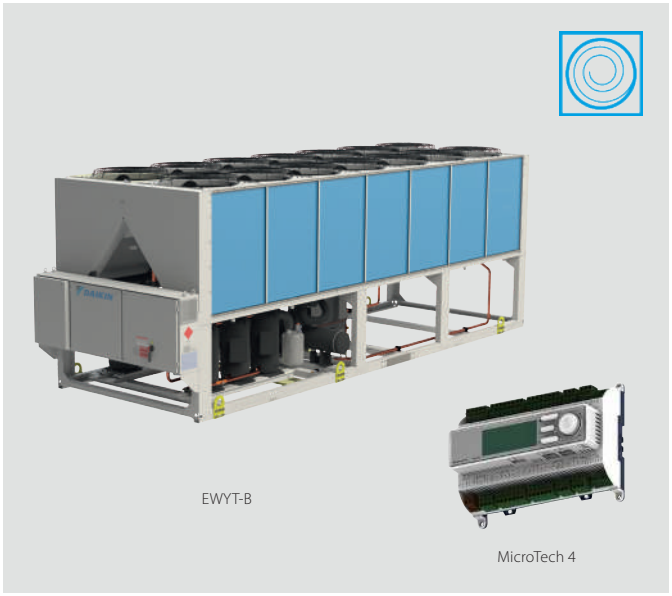
Master/Slave functionality allowing to manage up to 4 units on the same system without the need of external control devices.

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.



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

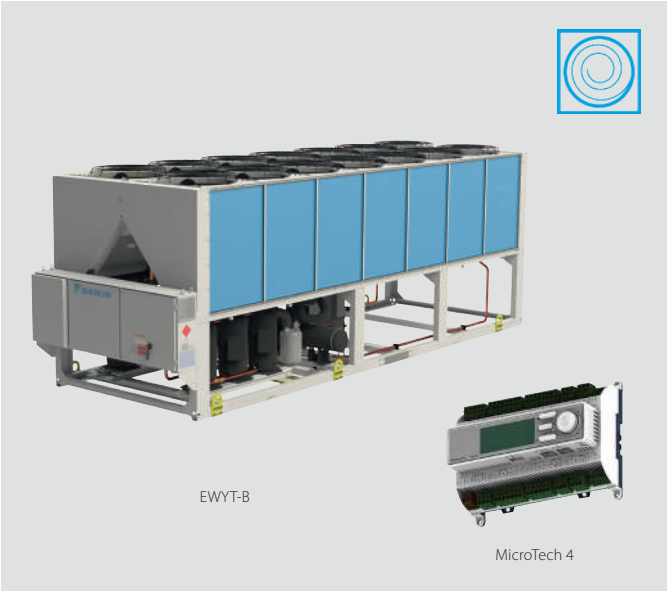


- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing an R32 product reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding 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 optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised 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 minimise the overall chiller power input

Heating & Cooling				EWYT-B-SS/SL	085	105	135	175	205	215	235	255	300	340	390	430	490	540	590	630	300-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	72.1	78.7	86.4	102	117	132	147	171	192	206	219	102	117	133	147	171	192	207	219
	Heating	Nom.		kW	28.16	36.5	45.26	58.94	72.36	73.82	82.07	86.96	104.12	116.23	135.61	150.48	166.78	185.15	201.91	214.4	104.41	116.59	136.09	150.96	167.26	185.62	202.51	215
Capacity control	Method				Step																							
	Minimum capacity			%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17	22	19	17	25	22	19	18	17
EER					2.69	2.68	2.7	2.65	2.66	2.67	2.69	2.67	2.65	2.69	2.63	2.55	2.54	2.51	2.57	2.6	2.64	2.69	2.62	2.54	2.53	2.5	2.56	2.59
COP					2.921	2.911	2.922	2.881	2.892	2.89	2.877	2.945	2.882	2.949	2.875	2.876	2.92	2.925	2.928	2.927	2.873	2.94	2.865	2.867	2.911	2.917	2.92	2.918
IPLV					4.43	4.4	4.32	4.28	4.33	4.36	4.31	4.35	4.2	4.31	4.2	4.31	4.46	4.52	4.44	4.53	4.35	4.67	4.45	4.54	4.68	4.71	4.73	4.8
Dimensions	Unit	Height		mm	1,800								2,514															
		Width		mm	1,195								2,282															
		Length		mm	2,225	2,825	3,425		4,350	4,025	4,950		3,225		4,125				5,025		3,225		4,125				5,025	
Weight (SS)	Unit			kg	955	1,065	1,165	1,320	1,500		1,800	1,825	2,100	2,250	3,180	3,190	3,180	3,370	4,267		2,100	2,250	3,180	3,190	3,180	3,370	4,267	
	Operation weight			kg	962	1,072	1,172	1,327	1,511		1,811	1,839	2,114	2,270	3,200	3,210	3,207	3,397	4,302	4,308	2,114	2,270	3,200	3,209.71	3,207.27	3,397.27	4,302.37	4,308.08
Weight (SL)	Unit			kg	985	1,095	1,195	1,350	1,530		1,830	1,855	2,260	2,410	3,340	3,350	3,340	3,530	4,427		2,260	2,410	3,340	3,190	3,180	3,370	4,267	
	Operation weight			kg	992	1,102	1,202	1,357	1,541		1,841	1,869	2,274	2,430	3,360	3,370	3,367	3,557	4,462	4,468	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 (SS)			kg	12.7	15.8	18.5	26	34	34.8	37.2	41.4	41.7	48	47.1	48.6	60.3	70	78.5	87	41.7	48	47.1	48.6	60.3	70	78.5	87
	Charge (SL)			kg	12.7	15.8	18.5	26	34	34.8	37.2	41.4	39.9	48	48.1	48.6	50	70	78.5	80	39.9	48	48.1	48.6	50	70	78.5	80
	Circuits	Quantity			1			2	1										2									
Piping connections	Evaporator water inlet/outlet (OD)				88.9														114.3		88.9						114.3	
Unit	Starting current	Max		A	211.0	327.0	343.0	464.0	408.0	495.0	425.0	439.0	564.0	598.0	636.0	666.0	712.0	757.0	795.0	825.0	564	598	636	666	712	757	795	825
	Running current	Cooling	Nom.	A	54.0	66.0	76.0	99.0	125.0	123.0	133.0	146.0	174.0	198.0	227.0	253.0	291.0	328.0	353.0	372.0	175	198	228	253	292	329	354	373
Unit	Running current	Max		A	68.0	85.0	101.0	131.0	166.0	163.0	183.0	197.0	232.0	266.0	304.0	334.0	379.0	425.0	463.0	493.0	232	266	304	334	379	425	463	493
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																							

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

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing an R32 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 optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised 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 minimise the overall chiller power input



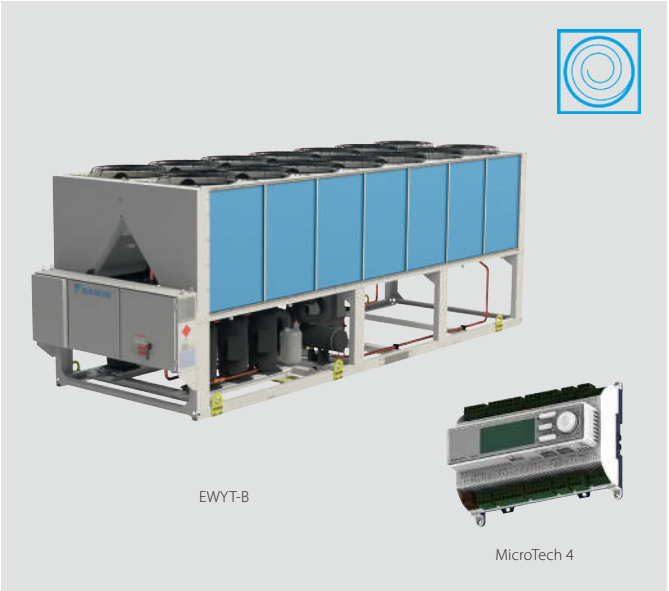
EWYT-B

MicroTech 4

Heating & Cooling				EWYT-B-SR	085	105	135	175	205	215	235	255	300	340	390	430	490	540	590	630
SEER					3.82	3.93	3.87	3.96	3.92	3.82	3.83	3.84	4.18	4.37	4.21	4.19	4.49		4.46	4.52
Space heating	Average climate water outlet 35°C	General	SCOP		3.35	3.40	3.37	3.42	3.44	3.43	3.32	3.33	3.42	3.49		3.57	3.65	3.60	3.67	3.66
			Seasonal space heating eff. class		A+		-													
Cooling capacity	Nom.			kW	74	96	119	150	186	189	209	226	265	311	344	368	424	470	519	557
Heating capacity	Nom.			kW	80.91	105.24	131.02	167.11	207.27	209.99	233.05	251.28	295.81	335.24	384.62	426.79	477.49	528.73	581.03	615.34
Power input	Cooling	Nom.		kW	28.7	37.4	45.5	59.5	73.2	74.3	80.7	88.8	102	117	131	147	172	195	207	221
	Heating	Nom.		kW	27.99	36.24	44.84	58.45	71.9	73.28	81.39	86.29	102.09	113.54	132.02	144.34	160.28	178.33	194.13	206.57
Capacity control	Method				Step															
	Minimum capacity			%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17
EER					2.56	2.58	2.61	2.53	2.54	2.55	2.59	2.55	2.59	2.64	2.61	2.5	2.46	2.41	2.5	2.51
COP					2.891	2.904	2.922	2.859	2.883	2.866	2.863	2.912	2.898	2.953	2.913	2.957	2.979	2.965	2.993	2.979
IPLV					4.36	4.24	4.3	4.38	4.29		4.28	4.26	4.29	4.69	4.58	4.61	4.78	4.89	4.82	4.91
Dimensions	Unit	Height		mm	1,800								2,514							
		Width		mm	1,195								2,282							
		Length		mm	2,225	2,825	3,425		4,350	4,025	4,950		3,225		4,125				5,025	
Weight	Unit			kg	985	1,095	1,195	1,350	1,530		1,830	1,855	2,260	2,410	3,340	3,350	3,340	3,530	4,427	
	Operation weight			kg	992	1,102	1,202	1,357	1,541		1,841	1,869	2,274	2,430	3,360	3,370	3,367	3,557	4,462	4,468
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	58.5	68.8	77.6	82
	Circuits	Quantity			1				2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)				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															

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

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing an R32 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 optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised 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 minimise the overall chiller power input



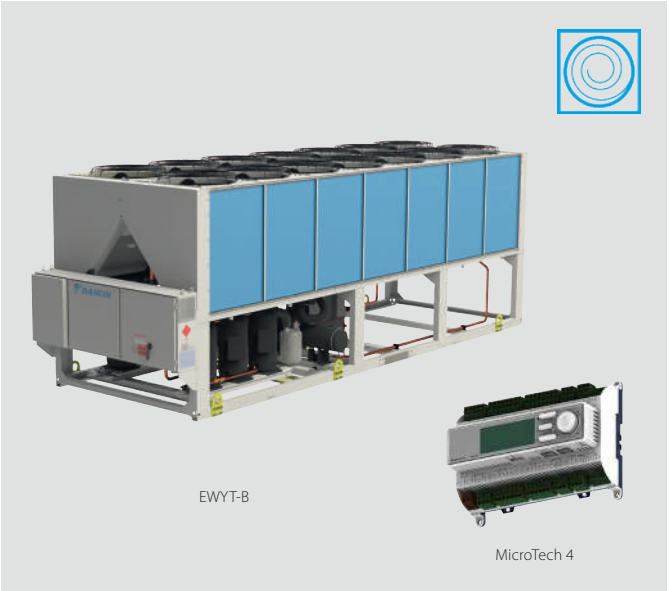
EWYT-B

MicroTech 4

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	1,800								2,514																	
		Width		mm	1,195								2,282																	
		Length		mm	2,825	3,425		4,025	5,550	4,625	6,150		4,125		5,025		5,925		6,825			4,125		5,025		5,925		6,825		
Weight (XS)	Unit			kg	1,080	1,140	1,220	1,400	2,000	1,600	2,300	2,350	2,830	3,080	3,650	3,750	4,206	4,296	4,760	4,860		2,830	3,080	3,650	3,750	4,206	4,296	4,760	4,860	
	Operation weight			kg	1,091	1,151	1,231	1,416	2,035	1,616	2,335	2,385	2,865	3,115	3,685	3,812	4,268	4,366	4,830	4,930		2,865	3,115	3,685.37	3,811.88	4,267.88	4,366.2	4,830.2	4,930.2	
Weight (XL)	Unit			kg	1,110	1,170	1,250	1,430	2,030	1,610	2,330	2,380	3,140	3,240	3,810	3,910	4,366	4,456	4,920	5,020		3,140	3,240	3,650	3,750	4,206	4,296	4,760	4,860	
	Operation weight			kg	1,121	1,181	1,261	1,446	2,065	1,626	2,365	2,415	3,175	3,275	3,845	3,972	4,428	4,526	4,990	5,090		3,175	3,275	3,685.37	3,811.88	4,267.88	4,366.2	4,830.2	4,930.2	
Water heat exchanger	Type				Plate heat exchanger																									
	Water volume			l	11		16	35	16	35			62		70							35		62		70				
	Water flow rate	Cooling	Nom.	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 (XS)			kg	17.7	18.3	22	33.7	42.4	51.6	48.6	46	52.4	60.4	70.5	84	87.5	92	114	100	113	52.4	60.4	70.5	84	87.5	92	114	100	113
	Charge (XL)			kg	17.7	18.3	22	33.7	42.4	51.6	48.6	46	52.4	63	68.5	78	88.5	93	108	104	113	52.4	63	68.5	78	88.5	93	108	104	113
	Circuits	Quantity			1			2	1	2																				
Piping connections	Evaporator water inlet/outlet (OD)				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																									

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

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing an R32 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 optimise the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimised 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 minimise the overall chiller power input



EWYT-B

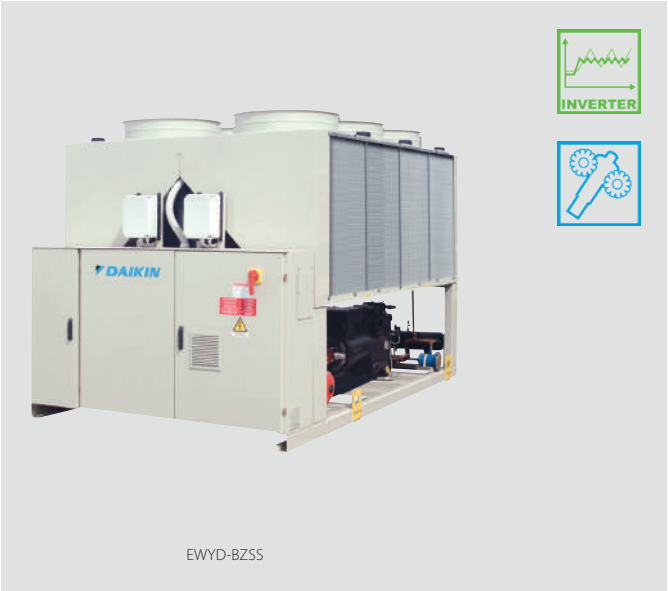
MicroTech 4

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	109	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	86.32	99.1	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	3.487	3.479	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	1,800								2,514								
		Width		mm	1,195								2,282								
		Length		mm	2,825	3,425		4,025	4,625	5,550	6,150		4,125		5,025		5,925		6,825		
Weight	Unit			kg	1,110	1,170	1,250	1,430	1,610	2,030	2,330	2,380	3,140	3,240	3,810	3,910	4,366	4,456	4,920	5,020	
	Operation weight			kg	1,121	1,181	1,261	1,446	1,626	2,065	2,365	2,415	3,175	3,275	3,845	3,972	4,428	4,526	4,990	5,090	
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	89	93	103.4	106	109
	Circuits	Quantity			1					2											
Piping connections	Evaporator water inlet/outlet (OD)				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																

INVERTER

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

- Ideal solution for commercial comfort cooling and/or heating applications
- Optimum ESEER values
- 2-3 truly independent refrigerant circuits
- Low starting current
- DX shell and tube evaporator – one pass refrigerant side to minimise pressure drops
- Standard electronic expansion valve
- Optimised defrost cycles
- Partial and total heat recovery option available
- Power factor up to 0.95
- PID microprocessor control



EWYD-BZSS

Heating & Cooling				EWYD-BZSS	250	270	290	320	340	370	380	410	440	460	510	530	570
SEER					-										4.57		4.55
Space heating	Average climate water outlet 35°C	General	SCOP		3.21		3.20		3.21				3.20		-		
Cooling capacity	Nom.			kW	253	272	291	323	337	363	380	411	433	455	515	533	569
Heating capacity	Nom.			kW	271	298	325	334	350	380	412	445	465	477	532.86	560.55	618.33
Power input	Cooling	Nom.		kW	91.3	101	110	117	125	135	144	154	165	163	183	189	217
	Heating	Nom.		kW	91.4	100	108	118	126	133	143	157	167	165	177.37	184.84	208.14
Capacity control	Method				VFD												
	Minimum capacity			%	13.0									9.0	9		
EER					2.77	2.70	2.65	2.75	2.69	2.68	2.63	2.66	2.62	2.79	2.81		2.62
ESEER					3.93	3.92	3.89	3.95	3.89	3.90	3.82	3.91	3.89	4.18	-		
COP					2.96	2.97	3.00	2.82	2.78	2.85	2.88	2.83	2.79	2.88	3.004	3.033	2.971
IPLV					4.58	4.62		4.75	4.64	4.71	4.67	4.73	4.69	4.85	4.89	4.85	4.77
Dimensions	Unit	Height		mm	2,335									2,280	2,280		
		Width		mm	2,254										2,254		
		Length		mm	3,547			4,428				5,329		6,659	6,659		
Weight	Unit			kg	3,410	3,455	3,500	3,870		3,940	4,010	4,390		5,015	5,495	5,735	
	Operation weight			kg	3,550	3,595	3,640	4,010		4,068	4,138	4,518		5,255	5,724	5,964	5,953
Water heat exchanger	Type				Single pass shell & tube										Shell and tube		
	Water volume			l	138			133		128				240	229		218
	Water flow rate	Cooling	Nom.	l/s	12.1	13.0	13.9	15.5	16.2	17.4	18.2	19.7	20.8	21.8	24.7	25.5	27.3
		Heating	Nom.	l/s	13.1	14.4	15.7	16.1	16.9	18.3	19.8	21.4	22.4	23.0	-		
	Water pressure drop	Cooling	Nom.	kPa	40	46	44	50	55	60	65	74	80	47	68.4	46.5	52.4
		Heating	Nom.	kPa	30	35	52	37	40	45	51	59	64	42	-		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										High efficiency fin and tube type		
Compressor	Type				Single screw compressor												
	Quantity				2									3	3		
Fan	Type				Direct propeller												
	Quantity				6			8				10		12	12		
	Air flow rate	Nom.		l/s	31,729	31,422	31,115	42,306		42,337	41,487	52,882		63,458	62,640	61,652	48,191
	Speed			rpm	900										900		
Sound power level	Cooling	Nom.		dBA	101							102		104	103.6		
Sound pressure level	Cooling	Nom.		dBA	82							83		84	83.7		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45										-~-		
		Heating	Min.~Max.	°CDB	-10~20										-~-		
	Water side	Cooling	Min.~Max.	°CDB	-8~15										-~-		
		Heating	Min.~Max.	°CDB	35~55										-~-		
Refrigerant	Type/GWP				R-134a/1,430										R-134a/-		
	Charge			kg	-										141		147
	Circuits	Quantity			2									3	3		
Refrigerant charge	Per circuit			kg	43.0	44.0	43.0	46.0	46.5		47.0	50.0		47.0	-		
	Per circuit			TCO2Eq	61.5	62.9	61.5	65.8	66.5		67.2	71.5		67.2	-		
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm									219.1mm			
Unit	Starting current	Max		A	150			181	204			224	238	245	327	355	344
	Running current	Cooling	Nom.	A	137	150	164	176	188	202	214	229	244	246	298	310	349
		Max		A	211		212	254	288			316	336	329	433	474	458
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										3~/50 /400		

INVERTER

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

- Ideal solution for commercial comfort cooling and/or heating applications
- Optimum ESEER values
- 2-3 truly independent refrigerant circuits
- Low starting current
- DX shell and tube evaporator – one pass refrigerant side to minimise pressure drops
- Standard electronic expansion valve
- Optimised defrost cycles
- Partial and total heat recovery option available
- Power factor up to 0.95
- PID microprocessor control

EWYD-BZ

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				VFD												
	Minimum capacity			%	13.0									9.0	9		
EER					2.76	2.66	2.62	2.75	2.68	2.64	2.57	2.66	2.59	2.83	2.82	2.8	2.62
ESEER					4.06	4.04	4.03	4.17	4.09	4.04	4.01	4.06	4.02	4.18	-		
COP					2.96	2.97	3.00	2.82	2.78	2.85	2.88	2.83	2.79	2.88	3.004	3.033	2.971
IPLV					4.90	4.96	4.91	5.17	5.08	5.12	5.06	5.22	5.13	5.07	5.03	4.99	4.89
Dimensions	Unit	Height		mm	2,335									2,280	2,280		
		Width		mm	2,254										2,254		
		Length		mm	3,547			4,428				5,329		6,659	6,659		
Weight	Unit			kg	3,750	3,795	3,840	4,210		4,280	4,350	4,730		5,525	6,005	6,245	
	Operation weight			kg	3,888	3,933	3,978	4,343		4,408	4,478	4,858		5,765	6,234	6,474	6,463
Water heat exchanger	Type				Single pass shell & tube										Shell and tube		
	Water volume			l	138			133		128				240	229		218
	Water flow rate	Cooling	Nom.	l/s	11.8	12.7	13.9	15.1	15.8	16.9	17.7	19.2	20.3	21.4	24.1	24.9	27.3
		Heating	Nom.	l/s	13.1	14.4	15.7	16.1	16.9	18.3	19.8	21.4	22.4	23.0	-		
	Water pressure drop	Cooling	Nom.	kPa	38	44	42	48	53	57	62	71	77	45	65.5	44.4	52.4
		Heating	Nom.	kPa	30	35	52	37	40	45	51	59	64	42	-		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										High efficiency fin and tube type		
Compressor	Type				Single screw compressor												
	Quantity				2									3	3		
Fan	Type				Direct propeller												
	Quantity				6			8				10		12	12		
	Air flow rate	Nom.		l/s	-										48,415	47,732	48,191
		Cooling	Nom.	l/s	24,432	24,264	24,095	32,576		32,628	32,127	40,720		48,863	-		
	Speed			rpm	700										900		
Sound power level	Cooling	Nom.		dBA	94			95						97	97		
Sound pressure level	Cooling	Nom.		dBA	76									77	77.2		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45										-~-		
		Heating	Min.~Max.	°CDB	-10~20										-~-		
	Water side	Cooling	Min.~Max.	°CDB	-8~15										-~-		
Operation range	Water side	Heating	Min.~Max.	°CDB	35~55										-~-		
Refrigerant	Type/GWP				R-134a/1,430										R-134a/-		
	Charge			kg	-										141		147
	Circuits	Quantity			2									3	3		
Refrigerant charge	Per circuit			kg	43.0	44.0	43.0	46.0	46.5		47.0	50.0		47.0	-		
	Per circuit			TCO2Eq	61.5	62.9	61.5	65.8	66.5		67.2	71.5		67.2	-		
Piping connections	Evaporator water inlet/outlet (OD)				139.7mm									219.1mm			
Unit	Starting current	Max		A	145	146		176	199			217	231	234	316	344	
	Running current	Cooling	Nom.	A	134	148	163	171	184	199	212	224	240	238	291	305	349
		Max		A	202	203		243	277			302	322	313	416	458	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										3~/50 /400		

EWYS-4Z
Polyvalent unit

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

Top class efficiency

Total Energy Ratio up to 7.9

Full inverter technology: the best choice for every application

Best solution for simultaneous cooling and heating

Ideal solution for decarbonisation of commercial and industrial sites

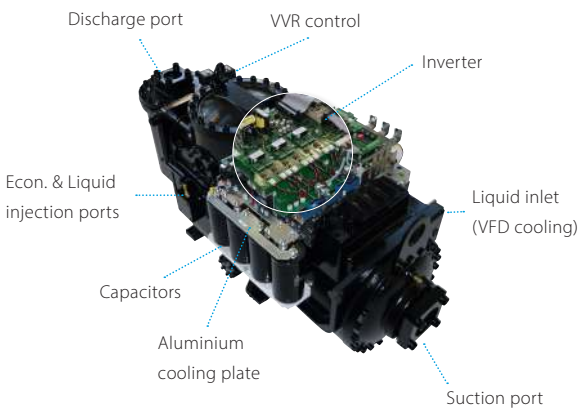
Daikin single screw compressor with integrated inverter and Variable Volume Ratio Technology

The inverter integrated in the compressor is refrigerant cooled:

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

The volume ratio will change by moving the sliding valves. **VVR** changes the point at which the gas leaves the compressor, and therefore changes the pressures at discharge which will be optimal at any condition.

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



NEW

INVERTER

EWYS-4ZXSB2

Polyvalent unit, high efficiency, standard sound

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

EWYD-4ZXSB2

MicroTech 4

AVAILBLE July 1st 2024

R-513A

Polyvalent Unit (4 Pipe) High Efficiency, Standard Sound			EWYS~4ZXSB2		400	450	500	550	600	650	700	800
Air to water - cooling only (1)	Nominal Rated Capacity			kW	393	441	495	532	585	644	683	766
	EER - Net				2.90	2.91	2.97	2.81	2.97	2.91	3.08	2.99
SEER (Indicative purposes only)					4.55	4.55	4.85	4.71	4.91	5.01	5.14	5.11
Air to water - heating only (2)	Nominal Rated Capacity			kW	403	443	506	536	588	650	680	790
	COP - Net				3.18	3.25	3.29	3.27	3.29	3.23	3.37	3.35
SCOP (Indicative purposes only)					3.21	3.24	3.40	3.31	3.46	3.30	3.36	3.49
Water to Water - cooling + heating (3)	Nominal Rated Heating Capacity			kW	403	443	506	536	588	650	680	790
	Nominal Rated Cooling Capacity			kW	307	345	386	422	470	506	542	622
	TER - Net (Cooling + Heating Efficiency)				7.22	7.1	7.43	7.26	7.59	7.57	7.64	7.88
Compressor	Type				Single screw compressor with integrated fully inverter							
	Quantity				2							
Capacity control	Method				VFD & VVR							
	Minimum capacity cooling only mode (Nom. indicative)			%	17	15	15	13	13	12	11	10
Dimensions	Unit	Height		mm	2,465							
		Width		mm	2,285							
		Length		mm	5,825		6,725		7,625	8,525		
Weight	Unit			kg	6,075	6,095	6,870	6,870	7,850	8,435	9,405	9,430
	Operation weight			kg	6,540	6,560	7,560	7,560	8,935	9,540	10,785	10,820
Sound power level	Cooling	Nom.		dBA	99	98	99		100		102	
Sound pressure level	Cooling	Nom.		dBA	78	77		78		79	80	
Air heat exchanger	Type				High efficiency fin and tube type							
Water heat exchangers Cold side	Water volume			l	126	126	214	214	369	361	468	468
	Water flow rate (1)			l/s	18.8	21.1	23.7	25.5	28.0	30.8	32.7	36.6
	Water pressure drop (1)			kPa	37.6	46.0	38.6	43.8	43.9	31.5	39.1	33.9
Hot side	Water volume			l	126	126	214	214	369	361	468	468
	Water flow rate (2)			l/s	19.4	21.3	24.4	25.8	28.4	31.4	32.8	38.1
	Water pressure drop (2)			kPa	38.2	45.2	34.4	38.2	36.1	26.5	31.1	29.9
Fan	Type				Brushless, EC motor - Direct propeller							
	Quantity			n	10	10	12	12	14	16	16	16
	Air flow (1) Cooling only	Nom. Rate		l/s	56,550		67,860		79,170	90,480		
Operation range	Air side Cooling only	Min.~Max.		°CDB	-18 ~ 46							
Refrigerant	Type/GWP				R-513A/630							
	Charge			kg	198	207	200	219	247	260	328	354
	Circuits Quantity			n	2							
Piping connections	Evaporator connection size (OD)			mm	219.1							
	Water connection type				Victaulic							
Unit current data	Starting current			A	0 (Inverter)							
	Running current	Nom.		A	236	272	293	332	343	378	395	454
	Max. running current			A	335	375	396	451	473	524	550	656
	Max. current for wire sizing			A	369	411	436	496	520	576	605	722
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400							

Fluid: Water; Fouling factor = 0

(1) Operation in Air to water "Cooling only" mode rated at 35°C ambient temperature, 50% R.H.; Entering water temperature 12°C, Outlet water temperature 7°C.
(2) Operation in Air to water "Heating only" mode rated at 7°C ambient temperature, 85% R.H; Entering water temperature 40°C, Outlet water temperature 45°C.
(3) Operation in Water to water "Cooling + Heating" mode rated with water flowing on cold and hot heat exchangers determined respectively at conditions (1) and (2) - Chilled water outlet temperature 7°C, Hot water outlet temperature 45°C.
(4) Sound power level are referred to Cooling mode condition. The data are measured in accordance with ISO 9614 and Eurovent 8/1 for Eurovent certified units. The certification refers only to the overall sound power level.
(5) Sound pressure is calculated from the sound power level and it is for information only and not considered binding.

All the above data refers to standard units without options and are subject to change without notice.
Contact your Daikin UK Sales Engineer for reduced sound version.

Air cooled screw condensing unit, standard efficiency, standard sound

› One refrigerant circuit with single screw compressor
› Compact design
› Large operation range (ambient temperature down to -18°C)
› Extensive option list (heat recovery option available)

ERAD-E-SS/SL

MicroTech 4

Cooling only				ERAD-E-SS	120	140	170	200	220	250	310	370	440	490
Cooling capacity	Nom.			kW	121	144	165	196	219	251	309	370	435	488
Power input	Cooling	Nom.		kW	42.1	51.2	57.7	65.6	74.2	77.0	93.8	123	148	161
Capacity control	Method				Stepless									
	Minimum capacity			%	25.0									
EER					2.88	2.82	2.86	2.99	2.95	3.27	3.30	3.02	2.95	3.02
Dimensions	Unit	Height		mm	2,273						2,223			
		Width		mm	1,292						2,236			
		Length		mm	2,165		3,065		3,965		3,070			
Weight	Unit			kg	1,584		1,741		1,936		2,679			
	Operation weight			kg	1,617		1,781		1,981		2,756			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Single screw compressor									
	Quantity				1									
Fan	Type				Direct propeller									
	Air flow rate	Nom.		l/s	10,924	10,576	16,386	15,865	21,848	21,153	32,772		31,729	
	Quantity				2		3		4		6			
	Speed	Cooling	Nom.	rpm	900									
Sound power level	Cooling	Nom.		dBA	92.0				93.0	94.0		95.0		
Sound pressure level	Cooling	Nom.		dBA	74.0					75.0				76.0
Operation range	Saturated suction temp.			°C	-9~12									
	Condenser inlet temp.			°C	-18~48									
Refrigerant	Type / GWP				R-134a / 1,430									
	Circuits	Quantity			1									
Piping connections	Evaporator water inlet/outlet (OD)				76mm							139.7mm		
Unit	Maximum starting current			A	151		195		288		330	410		
	Nominal running current (RLA)	Cooling		A	72	88	98	110	125	129	158	204	244	266
	Maximum running current			A	86	103	119	132	157	164	198	242	284	298
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

Air cooled screw condensing unit, standard efficiency, low sound

› One refrigerant circuit with single screw compressor
› Compact design
› Large operation range (ambient temperature down to -18°C)
› Extensive option list (heat recovery option available)

ERAD-E-SS/SL

MicroTech 4

Cooling only				ERAD-E-SL	120	140	160	190	210	240	300	350	410	460
Cooling capacity	Nom.			kW	116	137	159	187	209	243	298	352	409	462
Power input	Cooling	Nom.		kW	42.4	52.5	57.7	66.3	73.9	78.1	91.9	122	150	167
Capacity control	Method				Stepless									
	Minimum capacity			%	25.0									
EER					2.74	2.61	2.75	2.83		3.11	3.24	2.88	2.73	2.76
Dimensions	Unit	Height		mm	2,273						2,223			
		Width		mm	1,292						2,236			
		Length		mm	2,165		3,065		3,965		3,070			
Weight	Unit			kg	1,684		1,841		2,036		2,789			
	Operation weight			kg	1,717		1,881		2,081		2,886			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Single screw compressor									
	Quantity				1									
Fan	Type				Direct propeller									
	Air flow rate	Nom.		l/s	8,373	8,144	12,560	12,216	16,747	16,288	25,120		24,432	
	Quantity				2		3		4		6			
	Speed	Cooling	Nom.	rpm	700									
Sound power level	Cooling	Nom.		dBA	89.0		90.0		91.0	92.0				93.0
Sound pressure level	Cooling	Nom.		dBA	71.0					73.0				74.0
Operation range	Saturated suction temp			°C	-9~12									
	Condenser inlet temp			°C	-18~48									
Refrigerant	Type / GWP				R-134a / 1,430									
	Circuits	Quantity			1									
Piping connections	Evaporator water inlet/outlet (OD)				76mm							139.7mm		
Unit	Maximum starting current			A	151		195		288		330	410		
	Nominal running current (RLA)	Cooling		A	73	90	98	112	125	131	155	204	249	275
	Maximum running current			A	83	100	115	128	151	158	189	234	276	290
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

Water cooled scroll heat pump

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

EWWQ-KC

Model			EWWQ014KCW1N	EWWQ025KCW1N	EWWQ033KCW1N	EWWQ049KCW1N	EWWQ064KCW1N
Cooling Capacity	Nom.	kW	13.0	24.0	30.0	47.0	61.0
Power input	Nom.	kW	3.2	5.7	7.3	11.4	14.6
Heating capacity	Nom.	kW	15.0	27.0	35.0	54.0	70.0
Power input	Nom.	kW	3.9	7.1	8.7	14.4	17.5
Capacity control	Method		On/Off				
	Minimum capacity	%	100			50	
EER			4.20	4.18	4.16	4.13	4.18
SEER			4.02	4.23	3.63	4.48	3.88
COP			3.84	3.84	3.98	3.77	3.98
SCOP			3.64	3.63	3.71	3.58	3.87
Dimensions	Height	mm	600				
	Width	mm	600				
	Depth	mm	600	600	600	1200	1200
Unit Weight		kg	68	132	141	257	265
Operating weight		kg	74	136	145	266	282
Heat exchanger - Evaporator	Type		Brazed Plate				
Water flow rate		l/s	0.63	1.14	1.45	2.25	2.91
Water pressure drop		kPa	11.7	28.7	21.3	27.6	44.8
Heat exchanger - Condenser	Type		Brazed Plate				
Water flow rate		l/s	0.79	1.43	1.82	2.82	3.64
Water pressure drop		kPa	18.7	27.8	43.7	45.9	48.1
Compressor	Type		Scroll				
	Quantity		1	1	1	2	2
Sound power level		dBA	69	69	76	72	79
Sound pressure level		dBA	55.2	55.2	62.1	57.6	64.6
Refrigerant	Type/GWP		R410a/2088				
	Total charge	kg	1.3	1.9	2.7	4.6	6.8
	Quantity of circuits		1	1	1	2	2
Piping connections	Evaporator water inlet/outlet (OD)	mm	25.4	25.4	25.4	38.1	38.1
	Condenser water inlet/outlet (OD)	mm	25.4	25.4	25.4	38.1	38.1
Electrical data	Max inrush current	A	57.4	109.3	124.3	124.9	143.7
	Running current Nom.	A	6	9	13	19	26
	Running current Max	A	9.16	15.53	19.33	31.05	42.95
	Voltage/Phase/Frequency	V/Ph/Hz	400/3/50				

	2 Module Combination			3 Module Combination			
	Capacity Class			Capacity Class			
Model No.	98	113	128	147	162	177	192
EWWQ049KCW1N	2	1		3	2	1	
EWWQ064KCW1N		1	2		1	2	3

Accessories:

Accessory Ref	Description
EKRSCWI	Water Inlet Temperature Sensor
EKRSCTMS	Temperature sensor for master/slave configuration
EKRSCBMS	Connectivity for external BMS communication (Modbus TCP, Bacnet MSTP/IP)
EKDOSMWO	Daikin on Site Modem without M2M card
EKRSCLK	Lifting kit for stacked installation
EKRSCPCS	Local/remote display external HMI
EKLS2	Low noise kit 025-064 Models only (049 & 064 models require 2 kits)

Notes:

i) Please contact your local sales office for further information on these products - Download information from www.daikin.co.uk

ii) Nominal cooling capacities are based on chilled water @12/7°C, condenser water @ 30/35°C.

Water cooled multi-scroll chiller reversing on refrigerant side, standard efficiency, standard sound

EWHQ-G-SS

MicroTech 4

- Single refrigerant circuit (2 scroll compressors) with single evaporator
- Heat pump version with reversibility on refrigerant side available, ideal for geothermal applications
- Compact design to allow easy indoor installation or retrofit operations
- Conceived for stacked installation of two single circuit units to reduce the footprint
- High efficiency and reliable scroll compressor
- High flexibility for a wide variety of applications
- Allows sequencing control (up to 4 units) without any external device
- Stainless steel plate heat exchanger
- Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser
- MicroTech 4 controller with superior control logic and easy interface

Heating & Cooling				EWHQ-G-SS	100	120	130	150	160	190	210	240	270	340	400
Cooling capacity	Nom.			kW	87.3	100.0	111	127	141	160	181	208	232	291	352
Heating capacity	Nom.			kW	112	128	144	162	179	205	233	266	299	375	454
Capacity control	Method				Step										
	Minimum capacity			%	50.0	43.0	50.0	44.0	50.0	45.0	50.0	43.0	50.0	40.0	50.0
Power input	Cooling	Nom.		kW	22.4	25.3	28.5	32.0	35.6	41.1	46.0	53.3	59.1	73.7	88.4
	Heating	Nom.		kW	27.0	30.9	35.2	39.3	43.6	50.4	56.6	64.7	72.2	90.3	109
EER					3.90	3.95	3.91	3.96	3.95	3.90	3.93	3.90	3.92	3.95	3.98
COP					4.15	4.16	4.09	4.12	4.11	4.07	4.11	4.10	4.14	4.16	4.18
ESEER					4.70	4.84	4.65	4.86	4.80	4.89	4.86	4.83	4.79	4.90	4.83
IPLV					6.02	6.14	5.66	5.84	5.73	5.84	5.81	5.87	5.71	5.86	5.79
Dimensions	Unit	HeightxWidthxLength		mm	1,066x928x2,432		1,066x928x2,264			1,066x928x2,432				1,186x928x2,432	
Weight	Unit			kg	519	608	728	770	808	838	880	930	941	1,090	1,203
	Operation weight			kg	558	654	782	830	873	908	995	1,019	1,031	1,202	1,334
Water heat exchanger - evaporator	Type				Plate heat exchanger										
	Water flow rate	Cooling	Nom.	l/s	4.2	4.8	5.3	6.1	6.7	7.7	8.7	10.0	11.1	13.9	16.9
		Heating	Nom.	l/s	4.1	4.7	5.2	5.9	6.5	7.4	8.5	9.6	10.9	13.7	16.6
	Water pressure drop	Cooling	Nom.	kPa	44		35	30	29	31	33	31	38	42	43
		Heating	Nom.	kPa	42		33	28	27	29	32	29	37	41	42
Water heat exchanger - condenser	Type				Plate heat exchanger										
	Water volume			l	6	8		10	12	13	15	17		27	34
	Water flow rate	Cooling	Nom.	l/s	5.2	6.0	6.7	7.7	8.5	9.7	10.9	13.7	13.9	17.4	21.1
		Heating	Nom.	l/s	5.4	6.2	7.0	7.8	8.7	9.9	11.2	12.5	14.3	18.0	21.8
	Water pressure drop	Cooling	Nom.	kPa	69		55	49	48	51	54	32	39	66	69
		Heating	Nom.	kPa	73		59	51	50	53	57	33	42	70	73
Compressor	Type				Scroll compressor										
	Quantity				2										
Sound power level	Cooling	Nom.		dBA	80.0	83.0	85.0	87.0	88.0			90.0	92.0	93.0	
Sound pressure level	Cooling	Nom.		dBA	64.0	67.0	69.0	70.0	72.0			74.0	76.0		77.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-8~15										
		Heating	Min.~Max.	°CDB	-8~15										
	Condenser	Cooling	Min.~Max.	°CDB	25~55										
		Heating	Min.~Max.	°CDB	25~55										
Refrigerant	Type/GWP				R-410A/2,087.5										
	Circuits	Quantity			1										
Refrigerant charge				kg/TCO2Eq	9.0/18.8		10.0/20.9		13.0/27.1	11.0/23.0	13.0/27.1	15.0/31.3		19.0/39.7	
Piping connections	Evaporator water inlet/outlet (OD)				1" 1/2		2" 1/2							3"	
	Condenser water inlet/outlet (OD)				1" 1/2		2" 1/2							3"	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										
Unit	Starting current	Max		A	204	255	261	308	316	354	368	466	481	640	677
	Running current	Cooling	Nom.	A	43	46	50	56	63	71	78	88	97	123	148
		Max		A	59	66	72	80	88	102	116	131	145	183	221

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

- Single refrigerant circuit (2 scroll compressors) with single evaporator
- Heat pump version available
- Compact design to allow easy indoor installation or retrofit operations
- Conceived for stacked installation of two single circuit units to reduce the footprint
- High efficiency and reliable scroll compressor
- High flexibility for a wide variety of applications
- Allows sequencing control (up to 4 units) without any external device
- Stainless steel plate heat exchanger
- Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser
- MicroTech 4 controller with superior control logic and easy interface

EWWQ-G-SS

MicroTech 4

Cooling Only					EWWQ-G-SS	090	100	120	130	150	170	190	210	240	300	360
Space cooling	A Condition 35°C	Pdc		kW		93.7	105.6	119	135.9	150	172.1	193.8	220.7	246.1	314.3	370.4
	ηs,c			%		209.08	215.32	233.52	227.68	233.04	233.36	220.32	235.56	231.84	236.64	211.36
SEER						5.427	5.583	6.038	5.892	6.026	6.034	5.708	6.089	5.996	6.116	5.484
Cooling capacity	Nom.			kW		93.7	105.6	119	135.9	150	172.1	193.8	220.7	246.1	314.3	370.4
Power input	Cooling	Nom.		kW		21.3	24	26.9	30.5	33.9	38.9	43.8	50.74	56.1	70.2	84
Capacity control	Method					Step										
	Minimum capacity			%		50	43	50	44	50	45	50	43	50	40	50
EER						4.399	4.4	4.424	4.456	4.425	4.424	4.425	4.349	4.387	4.477	4.41
ESEER						5.51	5.52	5.51	5.53	5.51	5.53	5.52				
IPLV						6.71	6.79	6.22	6.36	6.22	6.32	6.3	6.31	6.1	6.28	6.16
Dimensions	Unit	Height		mm		1,066									1,186	
		Width		mm		928										
		Length		mm		2,432		2,264			2,432					
Weight	Unit			kg		516	606	728	762	795	832	871	921	934	1,083	1,181
	Operation weight			kg		554.9	652.4	781.6	821.4	859	901.4	945.9	1,009.6	1,023.2	1,194.7	1,311.1
Water heat exchanger - evaporator	Type					Plate heat exchanger										
	Water volume			l		6	8		10	12	13	15	17		27	34
	Water flow rate	Nom.		l/s		4.5	5.07	5.7	6.51	7.18	8.24	9.28	10.57	11.79	15.06	17.74
	Water pressure drop	Cooling	Nom.	kPa		48.8	49	39.1	33	32.6	34.5	36.7	33.8	41.8	46.8	
Water heat exchanger - condenser	Type					Plate heat exchanger										
	Water volume			l		6	8		10	12	13	15	17		27	34
	Water flow rate	Nom.		l/s		5.52	6.23	7.05	8.04	8.87	10.17	11.43	13.02	14.53	18.46	21.81
	Water pressure drop	Cooling	Nom.	kPa		72	73	60	50		52	56	46	57	69	71
Compressor	Type					Driven vapour compression										
	Quantity					2										
Sound power level	Cooling	Nom.		dBA		80.0	83.0	85.0	87.0	88.0			90.0	92.0	93.0	
Sound pressure level	Cooling	Nom.		dBA		64.0	67.0	69.0	70.0	72.0			74.0	76.0		77.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB		-10~15										
		Heating	Min.~Max.	°CDB		-10~15										
	Condenser	Cooling	Min.~Max.	°CDB		25~55										
		Heating	Min.~Max.	°CDB		25~55										
Refrigerant	Type/GWP					R-410A/2,087.5										
	Charge			kg		10		11		12		15	16	17	19	20
	Circuits	Quantity				1										
Refrigerant charge				TCO2Eq		20.88		22.96		25.05		31.31	33.40	35.49	39.66	41.75
Piping connections	Evaporator water inlet/outlet (OD)					1" 1/2		2" 1/2							3"	
	Condenser water inlet/outlet (OD)					1" 1/2		2" 1/2							3"	
Unit	Starting current	Max		A		204	255	261	308	316	354	368	466	481	640	677
	Running current	Cooling	Nom.	A		42	45	48	54	61	68	76	86	95	118	143
		Max		A		59	66	72	80	88	102	116	131	145	183	221
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400										

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

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

EWWQ-L-SS

MicroTech 4

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

performances according to CSS software 10.27

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

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

EWWD-J-SS

Microtech 4

Cooling & Heating					EWWD-J-SS	120	140	150	180	210	250	280
Space heating	Average climate water outlet 55°C	General	SCOP			4.03	4.11	4.16	4.17	4.17	4.23	3.83
Cooling capacity	Nom.			kW		119.7	145.7	154.3	177.3	207.3	255.3	284.1
Heating capacity	Nom.			kW		144.2	175.4	189.8	217.8	252.2	308.4	347.4
Power input	Cooling	Nom.		kW		28.0	34.0	39.5	45.3	50.4	59.9	70.0
Capacity control	Method					Stepless						
	Minimum capacity			%		25.0						
EER						4.28	4.28	3.91	3.92	4.11	4.26	4.06
COP						5.20		4.84	4.85	5.04	5.17	4.98
IPLV						5.18	5.06		5.05	5.16	5.70	4.88
Dimensions	Unit	Height		mm		1,020						
		Width		mm		913						
		Length		mm		2,684						
Weight	Unit			kg		1,177	1,233	1,334	1,366	1,416	1,600	1,607
	Operation weight			kg		1,211	1,276	1,378	1,415	1,473	1,663	1,675
Water heat exchanger - evaporator	Type					Plate heat exchanger						
	Water volume			l		14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s		5.7	7.0	7.4	8.5	9.9	12.2	13.6
	Water flow rate	Heating	Nom.	l/s		9.3	11.3	12	13.8	16.1	19.8	22.1
	Water pressure drop	Cooling	Nom.	kPa		15	14	43	40	35	28	34
		Heating	Nom.	kPa		36	34	103	96	85	68	82
Water heat exchanger - condenser	Type					Single pass shell and tube						
	Water volume			l		20		23	25	29		32
	Water flow rate	Cooling	Nom.	l/s		7.1	8.64	9.32	10.7	12.4	15.2	17.0
	Water flow rate	Heating	Nom.	l/s		6.93	8.44	9.13	10.5	12.1	14.8	16.7
	Water pressure drop	Cooling	Nom.	kPa		20	13	11		15	17	27
		Heating	Nom.	kPa		19	12	11		15	16	26
Compressor	Type					Single screw compressor						
	Quantity					1						
Sound power level	Cooling	Nom.		dBA		89						
Sound pressure level	Cooling	Nom.		dBA		79						
Operation range	Evaporator	Cooling	Min.~Max.	°CDB		-10~15						
	Condenser	Cooling	Min.~Max.	°CDB		23~60						
Refrigerant	Type/GWP					R-134a/1,430						
	Circuits	Quantity				1						
Refrigerant charge	Per circuit			kg/TCO2Eq		18.0/25.7	35.0/50.1	34.0/48.6	37.0/52.9		38.0/54.3	
Piping connections				mm		76.2						
Piping connections	Condenser water inlet/outlet (OD)					2" 1/2	4"					
Unit	Starting current	Max		A		153		197			290	
	Running current	Cooling	Nom.	A		48	57	67	74	83	97	109
		Max		A		85	103	114	130	154	178	201
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400						

performances according to CSS software 10.34
Fluid: Water; Fouling factor = 0 m2°C/W
Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.

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

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

EWW*~J-

Microtech 4

					EWWH-J-SS	090	110	120	130	150	180	200
Space heating	Average climate water outlet 55°C	General	SCOP			3.91	3.92	3.78	3.77	3.80	3.90	3.84
Cooling capacity	Nom.			kW		88.77	107.1	115.1	133.5	150.1	181.6	200.6
Heating capacity	Nom.			kW		107.2	129.2	140.9	162.3	182.2	220.5	245
Power input	Cooling	Nom.		kW		30	36.3	41.7	47.8	54.2	65.7	74.4
Capacity control	Method					Stepless						
	Minimum capacity			%		25						
EER						3.85	3.75	3.72	3.78	3.82	3.67	3.66
COP						4.69	4.57	4.52	4.59	4.67	4.46	4.46
IPLV						4.1	4.11	4.09	4.11	4.12	4.64	4.59
Dimensions	Unit	Height		mm		1,020						
		Width		mm		913						
		Length		mm		2,684						
Weight	Unit			kg		1,177	1,233	1,334	1,366	1,416	1,600	1,607
	Operation weight			kg		1,211	1,276	1,378	1,415	1,473	1,663	1,675
Water heat exchanger - evaporator	Type					Plate heat exchanger						
	Water volume			l		14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s		4.24	5.11	5.49	6.37	7.16	8.66	9.57
		Heating	Nom.	l/s		6.8	8.3	8.9	10.2	11.8	13.9	15.4
	Water pressure drop	Cooling	Nom.	kPa		10.7	10.9	19.3	19.3	17.8	16.8	20.1
		Heating	Nom.	kPa		24.9	25.9	45.6	44.9	43.7	39.2	47.4
Water heat exchanger - condenser	Type					Single pass shell and tube						
	Water volume			l		20	20	23	25	29		32
	Water flow rate	Cooling	Nom.	l/s		5.18	6.31	6.79	7.84	9.1	10.7	11.9
		Heating	Nom.	l/s		6.77	8.27	8.86	10.2	11.8	13.9	15.4
	Water pressure drop	Cooling	Nom.	kPa		9.1	9.7	8.7	9.1	9.3	12.3	12.1
		Heating	Nom.	kPa		24.9	25.9	45.6	44.9	43.7	39.2	47.4
Compressor	Type					Single screw compressor						
	Quantity					1						
Sound power level	Cooling	Nom.		dBA		89						
Sound pressure level	Cooling	Nom.		dBA		79						
Refrigerant	Type					R-1234(ze)						
	Charge			kg		18	35	34	37		38	
	Circuits	Quantity				1						
Piping connections				mm		76.2						
	Condenser water inlet/outlet			inch		2" 1/2	4					
Unit	Starting current	Max		A		153		197			290	
	Running current	Cooling	Nom.	A		39	44	55	60	65	76	84
		Max		A		75	90	100	114	143	158	178
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

performances according to CSS software 10.34
Fluid: Water; Fouling factor = 0 m2°C/W
Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.

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

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

EWW*~J-

Microtech 4

					EWWS-J-SS	120	140	150	180	210	240	270
Space heating	Average climate water outlet 55°C	General	SCOP			3.63	3.54	3.56	3.59	3.62	3.54	3.58
Cooling capacity	Nom.			kW		115.2	136.3	154.7	180.6	207.3	241	272.2
Heating capacity	Nom.			kW		141.7	167.5	191.3	223	256.9	297.	338.2
Power input	Cooling	Nom.		kW		30	36.3	41.7	47.8	54.2	65.7	74.4
Capacity control	Method					Stepless						
	Minimum capacity			%		25						
EER						3.85	3.75	3.72	3.78	3.82	3.67	3.66
COP						4.69	4.57	4.52	4.59	4.67	4.46	
IPLV						4.1	4.11	4.09	4.11	4.12	4.64	4.59
Dimensions	Unit	Height		mm		1,020						
		Width		mm		913						
		Length		mm		2,684						
Weight	Unit			kg		1,177	1,233	1,334	1,366	1,416	1,600	1,607
	Operation weight			kg		1,211	1,276	1,378	1,415	1,473	1,663	1,675
Water heat exchanger - evaporator	Type					Plate heat exchanger						
	Water volume			l		14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s		5.5	6.5	7.38	8.62	9.89	11.5	13
		Heating	Nom.	l/s		8.8	10.8	12.1	13.8	15.5	19	21.1
	Water pressure drop	Cooling	Nom.	kPa		17.1	16.8	32.8	33.4	31.8	27.9	34.8
		Heating	Nom.	kPa		40.1	41.7	79.4	78.1	71.5	68.9	83.3
Water heat exchanger - condenser	Type					Single pass shell and tube						
	Water volume			l		20	20	23	25	29		32
	Water flow rate	Cooling	Nom.	l/s		6.87	8.38	9.39	10.8	12.1	14.8	16.5
		Heating	Nom.	l/s		6.72	8.2	9.2	10.6	11.9	14.5	16.2
	Water pressure drop	Cooling	Nom.	kPa		15	16.1	15.4	15.9	15.4	22	21.6
		Heating	Nom.	kPa		14.4	15.5	14.8	15.3	14.8	21.2	20.8
Compressor	Type					Single screw compressor						
	Quantity					1						
Sound power level	Cooling	Nom.		dBA		89						
Sound pressure level	Cooling	Nom.		dBA		79						
Refrigerant	Type					R-513A						
	Charge			kg		18	35	34	37		38	
	Circuits	Quantity				1						
Piping connections				mm		76.2						
Piping connections	Condenser water inlet/outlet			inch		2" 1/2	4					
Unit	Starting current	Max		A		154		198			291	
	Running current	Cooling	Nom.	A		50	60	70	78	87	104	117
		Max		A		81	96	108	122	141	164	185
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

performances according to CSS software 10.34
Fluid: Water; Fouling factor = 0 m2°C/W
Cooling performances: evaporator 12.0/7.0°C, condenser 30.0/35.0°C; Heating performances (Low temperature application): evaporator 10.0/7.0°C, condenser 30.0/35.0°C.

The highest peak in chiller technology

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

Single compressor

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

Dual compressor & dual circuit unit

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

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

VZ CHILLER SERIES

Full inverter water cooled chiller

INVERTER

New condenser design with integral oil separator

Highly efficient flooded heat exchangers

Highest efficiency in the market in its category

TOP CLASS EFFICIENCY

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.

Why choose EWW(H)(D)(S)-VZ chiller series?

1 Top class efficiency

Thanks to:

› New generation Daikin inverter screw compressors
› New generation high efficiency heat exchangers
› Variable volume ratio technology
› Optimised refrigerant circuit design

2 Compact unit: 40% footprint reduction

Thanks to:

› New single pass condenser technology
› New integrated oil separator technology
› Optional knock down panel which reduces the unit width

3 Application flexibility: widest operating envelope in its range

4 Connectivity: Daikin on site cloud platform

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

Supporting tools

Product video

Check on YouTube
www.youtube.com/DaikinUK

Water cooled screw inverter chiller, standard efficiency, standard sound

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- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 65°C hot water production)
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EWWD-VZSS

Microtech 4

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

performances according to CSS software 10.33

Water cooled screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
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- Heat pump version with reversibility on water side (up to 65°C hot water production)
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EWWD-VZXS

Microtech 4

Cooling only/Heating only				EWWD-VZXS	450	500	610	710	800	900	C11	C12	C13	C14	C16	C17	C19	C21
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	448.83	500.51	612.77	713.11	793.52	901.21	1,053.02	1,194.03	1,305.01	1,406.98	1,593.03	1,748.03	1,912.01	2,074.02
	ηs,c			%	324.8	329.2	347.2	350	345.6	337.6	344.4	347.6	342.4	348	347.2	347.6	337.2	344.4
SEER					8.32	8.43	8.88	8.95	8.84	8.64	8.81	8.89	8.76	8.9	8.88	8.89	8.63	8.81
Cooling capacity	Nom.			kW	449	501	613	713	794	901	1,053	1,194	1,305	1,407	1,593	1,748	1,912	2,074
Power input	Cooling	Nom.		kW	81.2	89.7	108	128	146	159	192	221	244	262	296	329	365	394
Capacity control	Method				Variable													
	Minimum capacity			%	20							10						
EER					5.53	5.58	5.64	5.54	5.43	5.67	5.46	5.38	5.34	5.36	5.38	5.31	5.23	5.25
IPLV					9.42	9.59	9.52	9.66	9.64	9.48	9.58	9.66	9.67	9.76	9.74	9.82	9.68	9.7
Dimensions	Unit	Height		mm	2,135		2,123	2,235		2,487		2,296		2,301	2,350	2,500	2,469	2,493
		Width		mm	1,178		1,179	1,189		1,303		1,484	1,639	1,579	1,580	1,610	1,704	1,769
		Length		mm	3,722		3,750	3,690		3,822		4,792		4,508		4,750	4,874	
Weight	Unit			kg	2,968	2,911	3,102	3,470	3,451	4,257	4,552	5,860	6,240	6,520	6,920	7,530	7,790	8,670
	Operation weight			kg	3,098	3,006	3,274	3,648	3,611	4,518	4,860	6,370	6,760	7,130	7,530	8,300	8,560	9,630
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume			l	70	88	136	134		168	199	270		320		380	480	
	Water flow rate	Cooling	Nom.	l/s	21.5	24	29.3	34.1	38	43.2	50.4	57.1	62.5	67.3	76.3	83.6	91.4	99.2
	Water pressure drop	Cooling	Nom.	kPa	89	63	59	63	55	67	59	52	62	52	67	58	49	58
Water heat exchanger - condenser	Type				Shell and tube													
	Water volume			l	81	92	126	145	126	217	241	240	250	290		390	290	480
	Water flow rate	Cooling	Nom.	l/s	26.4	29.4	35.3	41.2	46.1	52	61	69.8	76.3	82.2	93.2	102	112	121
	Water pressure drop	Cooling	Nom.	kPa	31	28	22	20	24	25		28		21	32	27	37	28
Compressor	Type				Driven vapour compressor													
	Quantity				1							2						
Sound power level	Cooling	Nom.		dBA	97	99	101	105			107	106		107		108	109	110
Sound pressure level	Cooling	Nom.		dBA	78	80	82	86			88	87		88		89		90
Operation range	Evaporator		Min.~Max.	°CDB	-12~20													
	Condenser		Min.~Max.	°CDB	19~65													
Refrigerant	Type/GWP				R-134a/1,430													
	Charge			kg	110		125	140	160	200	185	270	260	230	290	290	320	370
	Circuits	Quantity			1							2						
Piping connections				mm	139.7			168.3			219.1						273	
	Condenser water inlet/outlet (OD)				168.3mm		219.1mm					168.3 / 219.1 mm		219.1 / 219.1 mm				
	Running current	Cooling	Nom.	A	126	140	171	201	229	249	299	340	372	400	450	498	554	596
Unit	Running current	Max		A	172	191	235	280	316	342	417	470	513	559	621	696	758	834
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

performances according to CSS software 10.33

Water cooled screw inverter chiller, premium efficiency, standard sound

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EWWD-VZ

Microtech 4

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

performances according to CSS software 10.33

Water cooled screw inverter chiller, standard efficiency, standard sound

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EWWH-VZSS

Microtech 4

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

performances according to CSS software 10.33

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EWWH-VZXS

Microtech 4

Cooling only/Heating only				EWWH-VZXS	335	365	450	525	580	670	800	875	950	C11	C12	C13	C14	C15
Space cooling	A Condition (35°C - 27/19) Pdc			kW	329.01	364.52	448	520.61	579.19	665.41	788.2	877.36	952.01	1,028.81	1,169.3	1,288.48	1,421.75	1,540.03
	ηs,c			%	296	307.2	343.6	347.2	343.2	356	354.4	326	334	346.8			358	356.8
SEER					7.6	7.88	8.79	8.88	8.78	9.1	9.06	8.35	8.55	8.87			9.15	9.12
Cooling capacity	Nom.			kW	329	365	448	521	579	665	788	877	952	1,029	1,169	1,288	1,422	1,540
Power input	Cooling	Nom.		kW	60.5	66.6	81	96	109	121	147	168	185	198	224	248	276	298
Capacity control	Method				Variable													
	Minimum capacity			%	20							10						
EER					5.44	5.48	5.53	5.42	5.29	5.49	5.37	5.23	5.16	5.19	5.22	5.19	5.16	
IPLV					8.51	8.79	9.46	9.51	9.47	9.63	9.65	9.19	9.27	9.46	9.37	9.52	9.23	9.5
Dimensions	Unit	Height		mm	2,135		2,123	2,235		2,487		2,296		2,301	2,350	2,500	2,469	2,493
		Width		mm	1,178		1,179	1,189		1,303		1,484	1,639	1,579	1,580	1,610	1,704	1,769
		Length		mm	3,722		3,750	3,690		3,822		4,792		4,508		4,750	4,874	
Weight	Unit			kg	2,968	2,911	3,102	3,470	3,451	4,257	4,552	5,860	6,240	6,520	6,920	7,530	7,790	8,670
	Operation weight			kg	3,098	3,006	3,274	3,648	3,611	4,518	4,860	6,370	6,760	7,130	7,530	8,300	8,560	9,630
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume			l	70	88	136	134		168	199	270		320		380	480	
	Water flow rate	Cooling	Nom.	l/s	15.8	17.5	21.4	24.9	27.7	31.8	37.7	41.9	45.5	49.1	55.9	61.6	67.9	73.6
	Water pressure drop	Cooling	Nom.	kPa	54	38	35	37	31	39	36	29	34	28	37	32	28	33
Water heat exchanger - condenser	Water volume			l	81	92	126	145	126	217	241	240	250	290		390	290	480
	Water flow rate	Cooling	Nom.	l/s	18.9	20.9	25.7	30	33.5	38.4	45.7	50.7	55.1	59.6	67.6	74.6	82.3	89.3
	Water pressure drop	Cooling	Nom.	kPa	19	16	13	12	15	13	16			13	19	16	23	16
Compressor	Type				Driven vapour compression													
	Quantity				1							2						
Sound power level	Cooling	Nom.		dBA	97	99	101	105			107	106		107		108	109	110
Sound pressure level	Cooling	Nom.		dBA	78	80	82	86			88	87		88		89		90
Refrigerant	Type/GWP				R-1234(ze)/7													
	Charge			kg	124	110	125	140	130	200	185	250	220	270	255	305	320	346
	Circuits	Quantity			1							2						
Piping connections				mm	139.7			168.3		219.1							273	
	Condenser water inlet/outlet (OD)				168.3mm		219.1mm					168.3 / 219.1 mm		219.1 / 219.1 mm				
Unit	Running current	Cooling	Nom.	A	96.0	106.0	129.0	151.0	173.0	187.0	226.0	259.0	284.0	304.0	341.0	379.0	421.0	454.0
		Max		A	134	149	183	226	247	268	324	374	402	451	493	549	591	647
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

performances according to CSS software 10.33

Water cooled screw inverter chiller, premium efficiency, standard sound

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

EWWH-VZPS

Microtech 4

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

performances according to CSS software 10.33

INVERTER

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

- Optimised energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 60°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- High efficient flooded type heat exchanger allowing maximum unit performances
- One or two truly independent refrigerant circuits for outstanding reliability

EWWS-VZ

Microtech 4

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

performances according to CSS software 10.33

INVERTER

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

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

EWWS-VZ

Microtech 4

Cooling only/Heating only				EWWS-VZXS	450	490	600	700	780	890	C10	C12	C13	C14	C16	C17	C19	C20
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		441.23	493.3	605.32	704.66	783.15	888.89	1,038.67	1,178.53	1,287.26	1,390.42	1,570.18	1,725.3	1,876.17	2,045.66
	ηs,c		%		306.4	313.6	328.4	329.2	328	328.4	328.8	331.2	326.4	329.2	331.2	326.4	323.2	326.8
SEER					7.86	8.04	8.41	8.43	8.4	8.41	8.42	8.48	8.36	8.43	8.48	8.36	8.28	8.37
Cooling capacity	Nom.		kW		441	493	605	705	783	889	1,039	1,179	1,287	1,390	1,570	1,725	1,876	2,046
Power input	Cooling	Nom.	kW		87.8	96.8	116.8	138.6	157.7	171.3	207.8	239.2	263.6	282.6	319.6	354.3	396.6	425.5
Capacity control	Method				Variable													
	Minimum capacity		%		20							10						
EER					5.02	5.1	5.18	5.09	4.97	5.19	5	4.93	4.88	4.92	4.91	4.87	4.73	4.81
IPLV					8.87	9.01	9.29	9.43	9.39	8.96	9.27	9.24	9.48	9.43	9.39	9.29	9.15	
Dimensions	Unit	Height	mm		2,135		2,123	2,235		2,487		2,296		2,301	2,350	2,500	2,469	2,493
		Width	mm		1,178		1,179	1,189		1,303		1,484	1,639	1,579	1,580	1,610	1,704	1,769
		Depth	mm		3,722		3,750	3,690		3,822		4,792		4,508		4,750	4,874	
Weight	Unit		kg		2,968	2,911	3,102	3,470	3,451	4,257	4,552	5,860	6,240	6,520	6,920	7,530	7,790	8,670
	Operation weight		kg		3,098	3,006	3,274	3,648	3,611	4,518	4,860	6,370	6,760	7,130	7,530	8,300	8,560	9,630
Water heat exchanger - evaporator	Type				Flooded shell and tube													
	Water volume		l		70	88	136	134		168	199	270		320		380	480	
	Water flow rate	Cooling Nom.	l/s		21.2	23.6	29	33.7	37.5	42.6	49.7	56.4	61.6	66.5	75.2	82.6	89.7	97.9
	Water pressure drop	Cooling Nom.	kPa		91	64	61	65	57	69	60	53	64	53	68	59	50	60
Water heat exchanger - condenser	Type				Flooded Shell & Tube													
	Water volume		l		81	92	126	145	126	217	241	240	250	290		390	290	480
	Water flow rate	Cooling Nom.	l/s		25.8	28.7	34.5	40.4	45.1	50.8	59.8	68	74.4	80.2	90.7	99.8	108	118
	Water pressure drop	Cooling Nom.	kPa		31	27	22	20	24	25		28		21	32	27	36	27
Compressor	Type				Driven vapour compressor													
	Quantity				1							2						
Sound power level	Cooling	Nom.	dBA		97	99	101	105			107	106		107		108	109	110
Sound pressure level	Cooling	Nom.	dBA		78	80	82	86			88	87		88		89		90
Refrigerant	Type/GWP				R-513A/631													
	Charge		kg		95		130	110	170	210	185	250	260	290		320		350
	Circuits	Quantity			1							2						
Piping connections			mm		139.7			168.3				219.1					273	
			mm		168.3			219.1				168.3 /219.1		219.1				

performances according to CSS software 10.33

INVERTER

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

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

EWWS-VZ

Microtech 4

Cooling only/Heating only				EWWS-VZPS	500	710	900	C12	C16	C17
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	500.08	710.08	898.24	1,187.65	1,585.78	1,735.47
	ηs,c			%	321.6	334	335.2	336.4		330
SEER					8.24	8.55	8.58	8.61		8.45
Cooling capacity	Nom.			kW	500	710	898	1,188	1,586	1,735
Power input	Cooling	Nom.		kW	91.3	133.8	165.1	235.4	313.7	350.7
Capacity control	Method				Variable					
	Minimum capacity			%	20			10		
EER					5.48	5.31	5.44	5.05		4.95
IPLV					9.13	9.48	9.17	9.36	9.48	9.4
Dimensions	Unit	Height		mm	2,108	2,430	2,487	2,302	2,500	2,493
		Width		mm	1,179	1,287	1,303	1,579	1,610	1,769
		Depth		mm	3,750	3,822		4,508	4,750	4,874
Weight	Unit			kg	3,247	4,082	4,346	6,310	7,530	8,250
	Operation weight			kg	3,375	4,349	4,660	6,900	8,300	9,200
Water heat exchanger - evaporator	Type				Flooded shell and tube					
	Water volume			l	96	168	199	320	380	480
	Water flow rate	Cooling	Nom.	l/s	23.9	34	43	56.8	75.8	83
	Water pressure drop	Cooling	Nom.	kPa	57	44	46	39	50	42
Water heat exchanger - condenser	Type				Flooded Shell & Tube					
	Water volume			l	126	217	241	270	390	470
	Water flow rate	Cooling	Nom.	l/s	28.9	40.6	51.1	68.3	91.1	100
	Water pressure drop	Cooling	Nom.	kPa	16	17	19	21		27
Compressor	Type				Driven vapour compressor					
	Quantity				1			2		
Sound power level	Cooling	Nom.		dBA	99	105		106	107	109
Sound pressure level	Cooling	Nom.		dBA	80	86		87	88	89
Refrigerant	Type/GWP				R-513A/631					
	Charge			kg	130	180		190	320	350
	Circuits	Quantity			1			2		
Piping connections				mm	139.7	219.1				273
				mm	219.1					

performances according to CSS software 10.33

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

R-32
BLUEVOLUTION

Water to Water Heat Pump and Condenserless Chiller

- Multiple combinations will provide flexibility for comfort cooling, comfort heating, Brine and Heat Recovery Applications.

Stacked arrays

EW(W)(H)(L)T~Q-A at a glance

For cooling and heating application

- Modules available in three versions:
  - Water to water version (mode change over on waterside) - 100, 125 & 160 kW modules.
  - Water to water heat pump version (mode change over on refrigerant side) - 100 kW module only
  - Condenserless version (cooling only) - 100, 125 & 160 kW modules)
- The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is one third of R-410A refrigerant
- Maximum flexibility with the possibility to combine up to 8 modules (4+4) offering a total Nominal CC of 1328 kW
- New compact design fitted with Daikin DOL scroll compressors
- Truly modular design with control and hydraulic modularity (pre-fabricated plug and play manifold module)
- VFD pump kit module and Accessory for single electrical supply for up to 4 BASE modules are available
- Two sound level versions: Standard for indoor installation and Reduced which is suitable for outdoor installation
- Hot water production up to 60°C (Corresponding to max 30°C evaporator leaving temperature
- Possibility to include Motorised 2-way shut-off valve Accessory
- Full compatibility with Daikin on-site cloud-based monitoring platform

Standard sound version
Suitable for indoor installation

Reduced sound version
Suitable for indoor and outdoor installation

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

The modular design is flexible and optimises the available footprint, simplifying handling and transportation of the unit. Additionally, it allows for the construction of a larger unit, providing high reliability and easy maintenance. The modules can be combined in array (max four side by side) or stacked (max two one on top of the other).

This design is easily scalable, allowing for capacity increases over time. This reduces initial investment costs by adding new modules to the system as building occupancy increases.

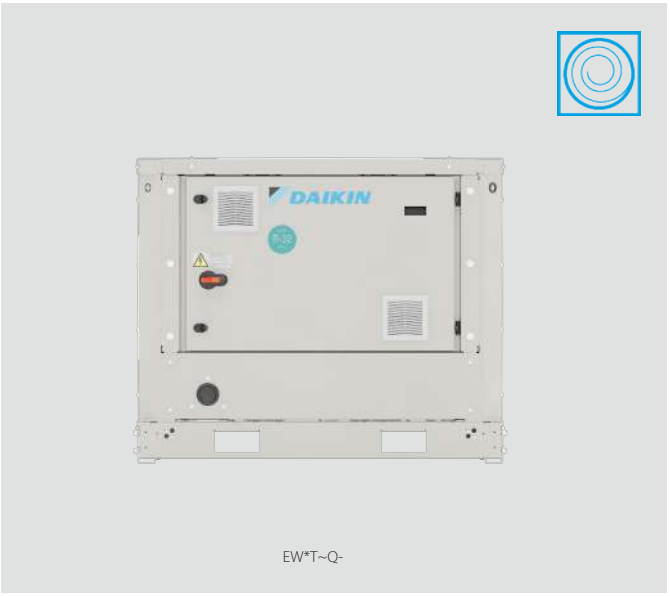
Real redundancy

Accessory manifold module customisable with options

On board pump module

Modular Chillers

- › Modules available in three versions:
  - Water to water version (mode change over on waterside) - 100, 125 & 160 kW modules.
  - Water to water heat pump version (mode change over on refrigerant side) - 100 kW module only
  - Condenserless version (cooling only) - 100, 125 & 160 kW modules)
- › The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is one third of R-410A refrigerant
- › New compact design fitted with Daikin DOL scroll compressors
- › Truly modular design with control and hydraulic modularity (pre-fabricated plug and play manifold module)
- › Two sound level versions: Standard for indoor installation and Reduced which is suitable for outdoor installation
- › Full compatibility with Daikin on-site cloud-based monitoring platform

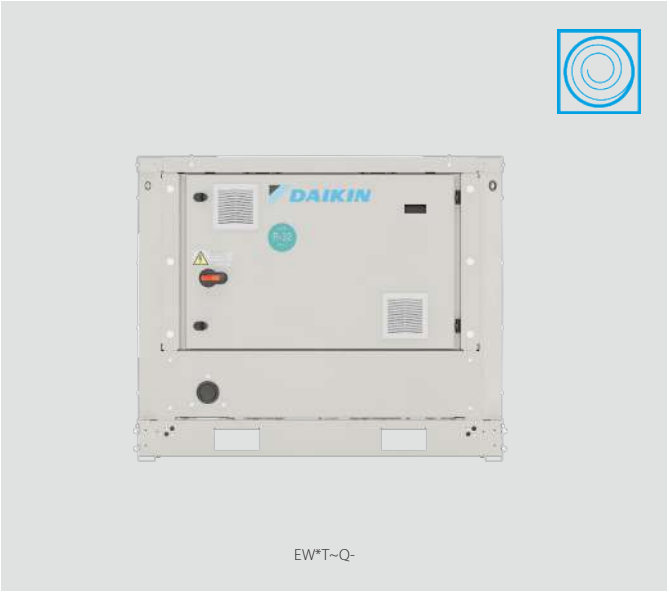


EW*T~Q-

Water to Water & Condenserless MODULAR Ranges High Efficiency, Standard Sound			EW(W/H/L)T~		EWWT100Q-XSA1	EWWT125Q-XSA1	EWWT160Q-XSA1	EWHT100Q-XSA1	EWLT100Q-XSA1	EWLT125Q-XSA1	EWLT160Q-XSA1
Module Type / Operation					Water to Water / Heat, Cool Mode change on water side			Water to Water / Heat, Cool mode change on refrigerant side	Condenserless / Cooling only operation		
Capacity	Cooling	Nom.		kW	96.36	124.40	166.00	91.60	90.20	116.90	155.00
	Heating	Nom.		kW	110.20	142.80	186.70	106.00	N/A	N/A	N/A
Power Input	Cooling	Nom.		kW	21.0	28.0	34.4	21.2	23.7	31.1	38.6
	Heating	Nom.		kW	26.1	34.5	42.5	26.3	N/A	N/A	N/A
EER					4.590	4.450	4.820	4.320	3.810	3.760	4.020
COP					4.220	4.140	4.390	4.030	N/A		
SEER - Seasonal Energy Efficiency Ratio (EN14825)					6.400	6.540	6.490	5.980			
SEPR - Seasonal Energy Performance Ratio(EN14825)					7.990	8.360	8.720	7.470			
Seasonal Coefficient Of Performance Low Temp. - SCOP LT (EN14825)					5.980	6.080	6.310	5.780			
Seasonal Coefficient Of Performance High Temp. - SCOP HT (EN14825)					4.720	4.810	4.940	4.550			
IPLV					7.150	7.120	7.410	6.660			
Capacity control	Method				Step						
	Minimum capacity			%	50	50	50	50	50	50	50
Dimensions	Unit		Height	mm	1,000						
			Width	mm	1,204						
			Depth	mm	1,333						
Weight	Unit			kg	419	469	532	431	372	417	467
	Operation weight			kg	439	491	561	451	382	428	482
Water heat exchanger - evaporator	Type				Brazed Plate Heat Exchanger						
	Water flow rate			l/s	4.60	5.93	7.92	4.37	4.30	5.58	7.39
	Water pressure drop			kPa	19.35	20.00	22.10	17.70	17.16	17.93	19.55
Water heat exchanger - condenser	Type				Brazed Plate Heat Exchanger				N/A		
	Water flow rate			l/s	5.60	7.26	9.55	6.38			
	Water pressure drop			kPa	27.81	28.00	33.60	35.4			
Compressor	Type				Scroll compressor						
	Quantity				2						
	Acoustic enclosure panels				No						
Sound power level	Nom.			dBA	81.0	84.0	86.0	81.0	81.0	84.0	86.0
Sound pressure level	Nom. @1m			dBA	65.4	68.6	70.4	65.4	65.4	68.6	70.4
Operation range (LWT)	Water side Cooling Min.~Max. / Heating Min.~Max.			°C	-15~30 / 20~60				-15~30 / --~--		
Refrigerant	Type/GWP				R-32/675						
	Charge			kg	6.0	7.1	9.1	7.0	Refrigerant supplied and charged by installer		
	Circuits Quantity				1						
Water piping connections	Victaulic water connections inlet/ outlet (OD)			mm	88.9/88.9						
Unit	Starting Max current (DOL)			A	221	345	363	221	221	345	363
	Running current		Cooling Nom.	A	36.6	44.2	52.6	36.9	42.1	50	60.7
			Max	A	62	80	97	62	62	80	97
Power supply	Phase/Frequency/ Voltage			Hz/V	3~/50 /400						

Modular Chillers

› Modules available in three versions:
  - Water to water version (mode change over on waterside) - 100, 125 & 160 kW modules.
  - Water to water heat pump version (mode change over on refrigerant side) - 100 kW module only
  - Condenserless version (cooling only) - 100, 125 & 160 kW modules)
› The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is one third of R-410A refrigerant
› New compact design fitted with Daikin DOL scroll compressors
› Truly modular design with control and hydraulic modularity (pre-fabricated plug and play manifold module)
› Two sound level versions: Standard for indoor installation and Reduced which is suitable for outdoor installation
› Full compatibility with Daikin on-site cloud-based monitoring platform



EW*T~Q-

Water to Water & Condenserless MODULAR Ranges High Efficiency, Reduced Sound			EW(W/H/L)T~B-X(S/R)A1		EWWT100Q-XRA1	EWWT125Q-XRA1	EWWT160Q-XRA1	EWHT100Q-XRA1	EWLT100Q-XRA1	EWLT125Q-XRA1	EWLT160Q-XRA1
Module Type / Operation					Water to Water / Heat, Cool Mode change on water side			Water to Water / Heat, Cool mode change on refrigerant side	Condenserless / Cooling only operation		
Capacity	Cooling	Nom.		kW	96.36	124.40	166.00	91.60	90.20	116.90	155.00
	Heating	Nom.		kW	110.20	142.80	186.70	106.00	N/A	N/A	N/A
Power Input	Cooling	Nom.		kW	21.0	28.0	34.4	21.2	23.7	31.1	38.6
	Heating	Nom.		kW	26.1	34.5	42.5	26.3	N/A	N/A	N/A
EER					4.590	4.450	4.820	4.320	3.810	3.760	4.020
COP					4.220	4.140	4.390	4.030	N/A		
SEER - Seasonal Energy Efficiency Ratio (EN14825)					6.400	6.540	6.490	5.980			
SEPR - Seasonal Energy Performance Ratio(EN14825)					7.990	8.360	8.720	7.470			
Seasonal Coefficient Of Performance Low Temp. - SCOP LT (EN14825)					5.980	6.080	6.310	5.780			
Seasonal Coefficient Of Performance High Temp. - SCOP HT (EN14825)					4.720	4.810	4.940	4.550			
IPLV					7.150	7.120	7.410	6.660			
Capacity control	Method				Step						
	Minimum capacity			%	50	50	50	50	50	50	50
Dimensions	Unit		Height	mm	1,000						
			Width	mm	1,204						
			Depth	mm	1,333						
Weight	Unit			kg	470	520	582	482	423	468	518
	Operation weight			kg	490	542	612	502	433	479	533
Water heat exchanger - evaporator	Type				Brazed Plate Heat Exchanger						
	Water flow rate			l/s	4.60	5.93	7.92	4.37	4.30	5.58	7.39
	Water pressure drop			kPa	19.35	20.00	22.10	17.70	17.16	17.93	19.55
Water heat exchanger - condenser	Type				Brazed Plate Heat Exchanger				N/A		
	Water flow rate			l/s	5.60	7.26	9.55	6.38			
	Water pressure drop			kPa	27.81	28.00	33.60	35.4			
Compressor	Type				Scroll compressor						
	Quantity				2						
	Acoustic enclosure panels				Yes						
Sound power level	Nom.			dBA	75.0	78.0	80.0	75.0	75.0	78.0	80.0
Sound pressure level	Nom. @1m			dBA	59.4	62.6	64.4	59.4	59.4	62.6	64.4
Operation range (LWT)	Water side Cooling Min.~Max. / Heating Min.~Max.			°C	-15~30 / 20~60				-15~30 / --~--		
Refrigerant	Type/GWP				R-32/675						
	Charge			kg	6.0	7.1	9.1	7.0	Refrigerant supplied and charged by installer		
	Circuits Quantity				1						
Water piping connections	Victaulic water connections inlet/ outlet (OD)			mm	88.9/88.9						
Unit	Starting Max current (DOL)			A	221	345	363	221	221	345	363
	Running current		Cooling Nom.	A	36.6	44.2	52.6	36.9	42.1	50	60.7
			Max	A	62	80	97	62	62	80	97
Power supply	Phase/Frequency/ Voltage			Hz/V	3~/50 /400						

Condenserless scroll chiller

- One of the most compact units on the market: 600mm x 600mm x 600mm
- Low energy consumption
- Low operating sound level
- Easy installation and maintenance
- Stainless steel plate heat exchanger
- Low refrigerant volume
- Standard integrated: pressure ports, flow switch, filter, shut-off valves and air purge
- Advanced µC²SE controller for direct connection to a Modbus based BMS or to a remote user interface

EWLQ-KC

Model			EWLQ014KBW1N	EWLQ025KBW1N	EWLQ033KBW1N	EWLQ049KBW1N	EWLQ064KBW1N
Cooling capacity	Nom.	kW	12.0	19.9	28.9	39.4	57.8
Power input	Cooling Nom.	kW	3.74	6.11	8.43	12.03	16.41
Capacity control	Method		On/Off				
	Minimum capacity	%	100	100	100	50	50
EER			3.24	3.25	3.43	3.27	3.52
Dimensions	Height	mm	600				
	Width	mm	600				
	Depth	mm	600	600	600	1200	1200
Unit weight		kg	62	124	130	238	249
Operating weight		kg	70	129	135	247	258
Heat exchanger - Evaporator	Type		Brazed Plate				
Water flow rate	Cooling Nom.	l/s	0.58	0.95	1.38	1.88	2.76
Water pressure drop	Cooling Nom.	kPa	9.7	16.4	21.6	20.5	34.8
Compressor	Type		Scroll				
	Quantity		1	1	1	2	2
Sound power level	Cooling Nom.	dBA	69	69	76	72	79
Sound pressure level	Cooling Nom.	dBA	55.2	55.2	62.1	57.6	64.6
Refrigerant	Type/GWP		R410a/2088				
	Total charge	kg	-	-	-	-	-
	Quantity of circuits		1	1	1	2	2
Piping connections	Evaporator water inlet/outlet (OD)	mm	25.4	25.4	25.4	38.1	38.1
	Condenser water inlet/outlet (OD)	mm	25.4	25.4	25.4	38.1	38.1
Electrical data	Max inrush current	A	57.4	109.3	124.3	124.8	143.6
	Running current Nom.	A	6.6	10.5	14.1	20.9	28.1
	Running current Max	A	9.2	15.5	19.3	31.0	38.7
	Voltage/Phase/Frequency	V/Ph/Hz	400/3/50				

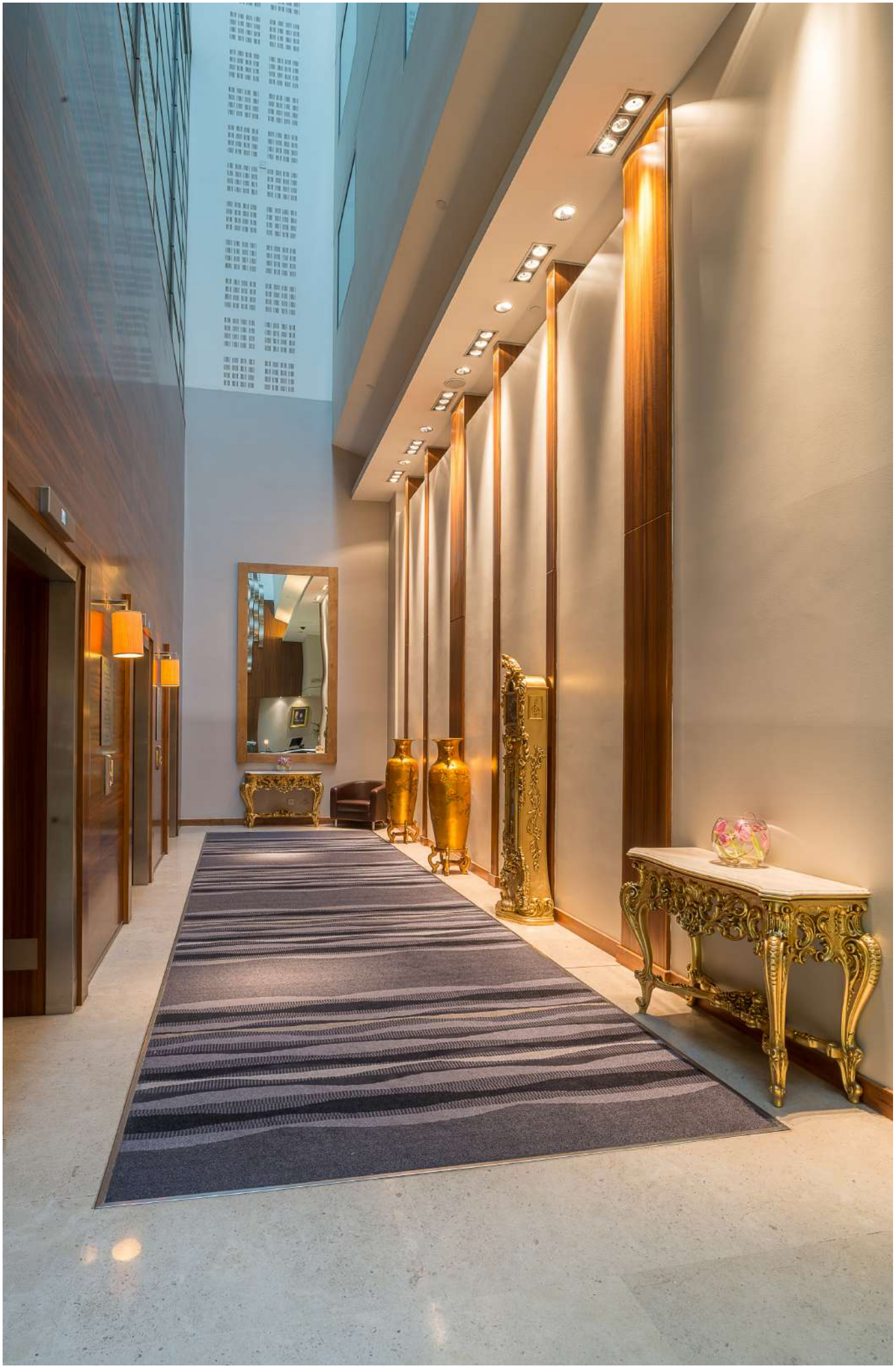
Notes:

i) Please contact your local sales office for further information on these products - Download information from www.daikin.co.uk

ii) Nominal cooling capacities are based on chilled water @12/7°C condensing temperature @45°C, liquid temperature 40°C.

Accessories:

Accessory Ref	Description
EKRSCWI	Water Inlet Temperature Sensor
EKRSCTMS	Temperature sensor for master/slave configuration
EKRSCBMS	Connectivity for external BMS communication (Modbus TCP, Bacnet MSTP/IP)
EKDOSMWO	Daikin on Site Modem without M2M card
EKRSCLK	Lifting kit for stacked installation
EKLS2	Low noise kit 025-064 Models only (049 & 064 models require 2 kits)



Condenserless multi-scroll chiller, standard efficiency, standard sound

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

EWLQ-G-SS

Microtech 4

Cooling only				EWLQ-G-SS	090	100	120	130	150	170	190	210	240	300	360
Cooling capacity	Nom.			kW	86.5	98.4	110	125	139	160	181	206	231	290	346
Power input	Cooling	Nom.		kW	22.4	25.8	29.2	33.0	36.8	42.0	47.0	54.2	59.9	75.6	91.8
Capacity control	Method				Step										
	Minimum capacity			%	50.0	43.0	50.0	44.0	50.0	45.0	50.0	43.0	50.0	40.0	50.0
EER					3.86	3.81	3.78	3.79		3.80	3.86	3.80	3.85	3.84	3.77
Dimensions	Unit	Height		mm	1,066									1,186	
		Width		mm	928										
		Length		mm	2,743										
Weight	Unit			kg	494	578	686	714	742	773	807	838	852	967	1,046
	Operation weight			kg	525	615	729	760	791	826	863	901	916	1,044	1,134
Water heat exchanger - evaporator	Type				Plate heat exchanger										
	Water volume			l	6	8		10	12	13	15	17		27	34
	Water flow rate	Nom.		l/s	4.2	4.7	5.3	6.0	6.7	7.7	8.7	9.8	11.1	13.9	16.6
	Water pressure drop	Cooling	Nom.	kPa	44		35	29		31	33	30	38	41	
Compressor	Type				Scroll compressor										
	Quantity				2										
Sound power level	Cooling	Nom.		dBA	80.0	83.0	85.0	87.0	88.0			90.0	92.0	93.0	
Sound pressure level	Cooling	Nom.		dBA	64.0	67.0	69.0	70.0	72.0			74.0	76.0		77.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15										
	Condenser	Cooling	Min.~Max.	°CDB	30~60										
Refrigerant	Type / GWP				R-410A / 2,087										
	Circuits	Quantity			1										
Piping connections	Evaporator water inlet/outlet (OD)				1" 1/2		2" 1/2							3"	
Unit	Starting current	Max		A	204	255	261	308	316	354	368	466	481.0	640	677
	Running current	Cooling	Nom.	A	39	42	45	51	57	64	70	81	88	111	135
		Max		A	59	66	72	80	88	102	116	131	145	183	221
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

Condenserless multi-scroll chiller, standard efficiency, standard sound

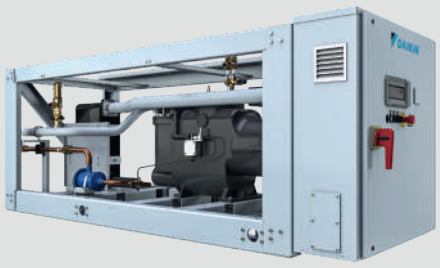
- Dual refrigerant circuit (4 scroll compressors) with single evaporator
- For chilled water production, to be combined with a remote condensing unit
- Compact design to allow easy indoor installation or retrofit operations
- High efficiency and reliable scroll compressor
- Stainless steel plate heat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

EWLQ-L-SS Microtech 4

Cooling only				EWLQ-L-SS	180	205	230	260	290	330	380	430	480	540	600	660	720
Cooling capacity	Nom.			kW	173	197	224	249	279	317	361	409	459	511	571	624	676
Power input	Cooling	Nom.		kW	44.3	51.1	57.9	65.6	73.2	83.8	93.5	108	119	135	152	168	184
Capacity control	Method				Step												
	Minimum capacity			%	25.0	21.0	25.0	22.0	25.0	23.0	25.0	21.0	25.0	22.0	20.0	18.0	25.0
EER					3.91	3.86	3.87	3.79	3.81	3.78	3.86	3.79	3.84	3.78	3.76	3.71	3.67
Dimensions	Unit	Height		mm	1,970									2,090	2,210		
		Width		mm	928												
		Length		mm	2,801												
Weight	Unit			kg	832	1,007	1,202	1,252	1,333	1,380	1,432	1,511	1,560	1,609	1,694	1,833	1,957
	Operation weight			kg	894	1,081	1,292	1,345	1,436	1,486	1,547	1,638	1,690	1,741	1,844	1,990	2,120
Water heat exchanger - evaporator	Type				Plate heat exchanger												
	Water volume			l	19	22	29		35		41	49			62		
	Water flow rate	Nom.		l/s	8.3	9.5	10.7	11.9	13.4	15.2	17.3	19.6	21.9	24.5	27.3	29.9	32.4
	Water pressure drop	Cooling	Nom.	kPa	25		20	25	22	29			36	45	44	52	62
Compressor	Type				Scroll compressor												
	Quantity				4												
Sound power level	Cooling	Nom.		dBA	83.0	86.0	88.0	90.0	91.0			93.0	95.0			96.0	
Sound pressure level	Cooling	Nom.		dBA	65.0	68.0	70.0	72.0	74.0		73.0	76.0	77.0		78.0		
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15												
	Condenser	Cooling	Min.~Max.	°CDB	30~60												
Refrigerant	Type / GWP				R-410A / 2,087												
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				3"												
Unit	Starting current	Max		A	263	320	333	388	403	456	484	597	626	785	822	860	898
	Running current	Cooling	Nom.	A	78	84	90	102	114	128	141	161	176	199	223	246	269
		Max		A	118	131	144	160	175	205	232	262	290	328	366	403	441
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

Condenserless screw chiller, standard efficiency, standard sound

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



EWL*~J-

Microtech 4

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

performances according to CSS software 10.34

Condenserless screw chiller, standard efficiency, standard sound

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

EWL*~J-

Microtech 4

				EWLH-J-SS	080	100	110	130	140	170	190
Cooling capacity	Nom.			kW	84	102	109	127	143	174	193
Power input	Cooling	Nom.		kW	23.3	28.1	31.8	37	41.5	49.6	56.3
Capacity control	Method				Stepless						
	Minimum capacity			%	25						
EER					3.62		3.43	3.42	3.43	3.51	3.43
Dimensions	Unit	Height		mm	1,020						
		Width		mm	913						
		Length		mm	2,684						
Weight	Unit			kg	1,124	1,141	1,237	1,263	1,305	1,489	
	Operation weight			kg	1,138	1,159	1,253	1,281	1,327	1,518	
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	14	18	14	17	20	26	
	Water flow rate	Cooling	Nom.	l/s	4	4.9	5.2	6	6.8	8.3	9.2
	Water pressure drop	Cooling	Nom.	kPa	9.7	9.9	17.5	17.6	16.2	15.5	18.7
Compressor	Type				Single screw compressor						
	Quantity				1						
Sound power level	Cooling	Nom.		dBA	88.9						
Sound pressure level	Cooling	Nom.		dBA	79						
Refrigerant	Type				R-1234(ze)						
	Circuits	Quantity			1						
Piping connections				mm	76.2						
Unit	Starting current	Max		A	153		197			290	
	Running current	Cooling	Nom.	A	42	48	59	65	72	84	92
		Max		A	75	90	100	114	143	158	178
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400						

performances according to CSS software 10.34

Condenserless screw chiller, standard efficiency, standard sound

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

E_EWLS-J

Microtech 4

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

performances according to CSS software 10.34

Condenserless screw chiller, standard efficiency, standard sound

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

EWLD-I-SS

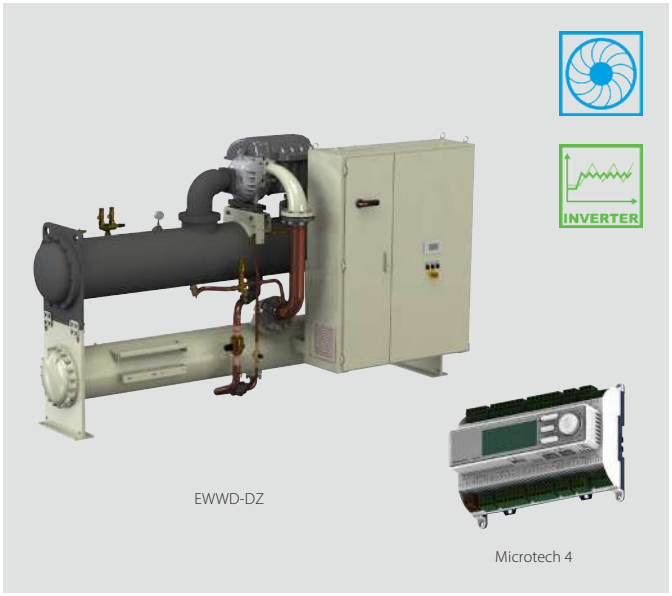
Microtech 4

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

INVERTER

Water cooled centrifugal chiller, high efficiency, standard sound

- No friction loss, no oil contamination, no additional oil management systems and an increased equipment life thanks to the magnetic bearing technology
- Excellent part load efficiency
- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
- Compact footprint through stacked heat exchanger lay-out
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller with superior control logic and easy interface
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design
- Optimised for highly efficient R134a refrigerant and compatible with next generation refrigerants



EWWD-DZ

Microtech 4

Cooling Only					EWWD-DZXS	320	440	530	610	640	700	880	C10	C13	C14	C15	C21
Space cooling	A Condition (35°C - 27/19)	Pdc		kW		320.01	443.01	528	610.02	638.01	699.97	883.01	1,056	1,325.26	1,402	1,564.57	2,070.42
	ηs,c			%		334	314	324	344	349	342	350	363	349.8	362	360.6	365.4
SEER						8.72	8.65	9.08	8.91	8.95	8.79	8.99	9.31	8.86	9.32	9.13	9.28
Cooling capacity	Nom.			kW		320	443	528	610	638	700	883	1,056	1,325	1,402	1,565	2,070
Power input	Cooling	Nom.		kW		66.5	88.5	102	124.7	131	126	176	205	272	256	310	391
Capacity control	Method					Variable											
	Minimum capacity			%		30	21		16	15	18	11		7	9	8	6
EER						4.81	5	5.14	4.89	4.85	5.53	5.01	5.15	4.88	5.46	5.04	5.3
ESEER						7.94	7.92	8.2	7.78	8.16	8.08	8.09	8.39	-	8.29	-	
IPLV						9.38	9.33	9.7	9.41	9.5	9.86	9.52	9.91	9.18	10.1	9.5	9.42
Dimensions	Unit	Height		mm		1,865			1,985				2,200	2,083	2,200	2,225	2,290
		Width		mm		1,055			1,160				1,270	1,510	1,270	1,510	
		Length		mm		3,625				3,585			3,580	4,793	3,580	4,768	4,812
Weight	Unit			kg		1,700	1,900	2,000	2,850		2,600	2,900	3,600	4,350	3,800	4,750	5,500
	Operation weight			kg		1,973	2,216	2,347	3,197	3,344	3,102	3,458	4,292	5,020	4,579	5,540	6,570
Water heat exchanger - evaporator	Type					Flooded shell and tube											
	Water volume			l		70	96	107		134		156	199	271.8	229	317.4	444.3
	Water flow rate	Nom.		l/s		15.3	21.2	25.3	29.1	30.5	33.5	42.3	50.6	-	67.2	-	
		Cooling	Nom.	l/s		-								63.4	-	74.9	99.1
	Water pressure drop	Cooling	Nom.	kPa		47.4	40.6	45	59.1	51	61.3	64	60.4	60.1	74	61.1	71.9
Water heat exchanger - condenser	Type					Shell and tube								Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	
	Water volume			l		83	100	120		170	188	211	263	359.9	320	442.6	603.6
	Water flow rate	Nom.		l/s		18.3	25.3	30.1	35.1	36.7	39.4	50.5	60.1	-	79.1	-	
		Cooling	Nom.	l/s		-								76.1	-	89.5	117
	Water pressure drop	Cooling	Nom.	kPa		49.2	59.5	54.5	74	46.2	41.6	50.9	50.3	56	52.9	43	57
Compressor	Type					Driven vapour compressor											
	Quantity					1			2		1	2		3	2	3	
Sound power level	Cooling	Nom.		dBA		87.9	88.9	89.9	91.1	91	91.1	92	93.3	99	94.3	100	101
Sound pressure level	Cooling	Nom.		dBA		69.6	70.6	71.6	72.6			73.6	74.6	80	75.6	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB		4~20											
	Condenser	Cooling	Min.~Max.	°CDB		20~55		20~42	20~55		20~42	20~55	20~42	20~55	20~42		
Refrigerant	Type/GWP					R-134a/1,430											
	Charge			kg		120				180			230	320	230	340	390
	Circuits	Quantity				1											
Refrigerant charge				TCO2Eq		172				257			329	-	329	-	
Piping connections				mm		139.7				168.3					219.1		
Piping connections				mm		139.7					168.3					219.1	
Unit	Running current	Cooling	Nom.	A		100.55	138.22	155.23	203.41	200.56	190.23	274.86	309.17	445	383.87	471.7	588
		Max		A		134	208	166	267		196	417	331	631	392	511	589
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400											

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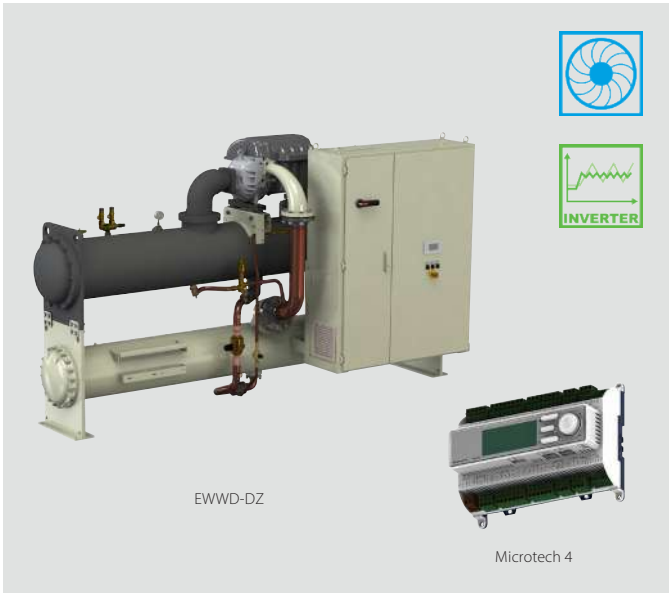

EWWD-DZ

Microtech 4

Cooling Only				EWWD-DZXE	340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition (35°C - 27/19)	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					8.67	8.7	9.14	8.89	8.99	8.9	9.06	8.83	9.39	8.91	9.43	9.14	9.41
Cooling capacity	Nom.			kW	341	474	566	670	682	742	946	1,038	1,130	1,437	1,478	1,685	2,173
Power input	Cooling	Nom.		kW	69.9	93.5	108	138.4	138	131	186	210	216	288	263	329	393
Capacity control	Method				Variable												
	Minimum capacity			%	29	20		15		17	10			7	9	7	6
EER					4.88	5.07	5.22	4.84	4.91	5.65	5.08	4.94	5.23	4.98	5.6	5.12	5.53
ESEER					7.81	7.83	8.11	7.52	8	8.09	7.96	-	8.26	-	8.22	-	
IPLV					9.29	9.3	9.71	9.22	9.37	9.9	9.46	9.33	9.86	9.2	10.1	9.49	9.52
Dimensions	Unit	Height		mm	1,865			1,985				2,082	2,200	2,083	2,200	2,225	2,290
		Width		mm	1,055			1,160				1,510	1,270	1,510	1,270	1,510	
		Length		mm	3,625				3,585			4,688	3,580	4,793	3,580	4,768	4,812
Weight	Unit			kg	1,750	1,950	2,050	2,850		2,650	3,000	4,400	3,700	4,700	3,900	5,100	5,900
	Operation weight			kg	2,033	2,276	2,407	3,197	3,354	3,162	3,568	4,970	4,412	5,370	4,699	5,890	6,920
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume			l	70	96	107		134		156	207.3	199	317.4	229	317.4	444.3
	Water flow rate	Nom.		l/s	16.4	22.7	27.1	32	32.7	35.6	45.3	-	54.1	-	70.9	-	
		Cooling	Nom.	l/s	-							49.1	-	68	-	80.4	103
	Water pressure drop	Cooling	Nom.	kPa	54.2	46.5	51.5	71.4	58.3	68.7	73.2	61.4	68.9	70.7	82	70.7	78.9
Water heat exchanger - condenser	Type				Shell and tube							Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	Shell and tube	Flooded Shell & Tube	
	Water volume			l	83	100	120		170	188	211	326.4	263	359.9	320	442.6	603.6
	Water flow rate	Nom.		l/s	19.6	27	32.1	38.6	39.1	41.6	53.9	-	64.1	-	83	-	
		Cooling	Nom.	l/s	-							58.9	-	81.4	-	95.8	121
	Water pressure drop	Cooling	Nom.	kPa	56.4	68.4	62.4	90	52.9	46.7	58.3	44	57.6	66	58.5	50	62
Compressor	Type				Driven vapour compressor												
	Quantity				1			2		1	2	3	2	3	2	3	
Sound power level	Cooling	Nom.		dBA	87.9	88.9	89.9	91.1	91	91.1	92	98	93.3	99	94.3	100	101
Sound pressure level	Cooling	Nom.		dBA	69.6	70.6	71.6	72.6			73.6	79	74.6	80	75.6	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20												
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55		20~42	20~55		20~42	20~55	20~42		
Refrigerant	Type/GWP				R-134a/1,430												
	Charge			kg	130			120	200	190	200	350	250	400	250	420	470
	Circuits	Quantity			1												
Refrigerant charge				TCO2Eq	186			172	286	272	286	-	358	-	358	-	
Piping connections				mm	139.7				168.3					219.1			
Piping connections				mm	139.7				168.3						219.1		
Unit	Running current	Cooling	Nom.	A	105.42	144.7	162.48	212.9	210.15	196	287.44	318.3	323.53	425.9	392	496	588
		Max		A	134	208	166	267		196	417	406	331	631	392	511	589
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

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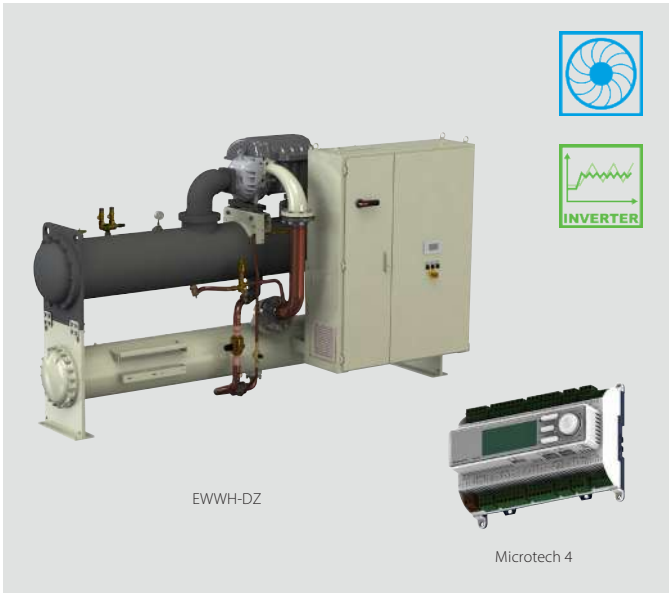

EWWH-DZ

Microtech 4

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

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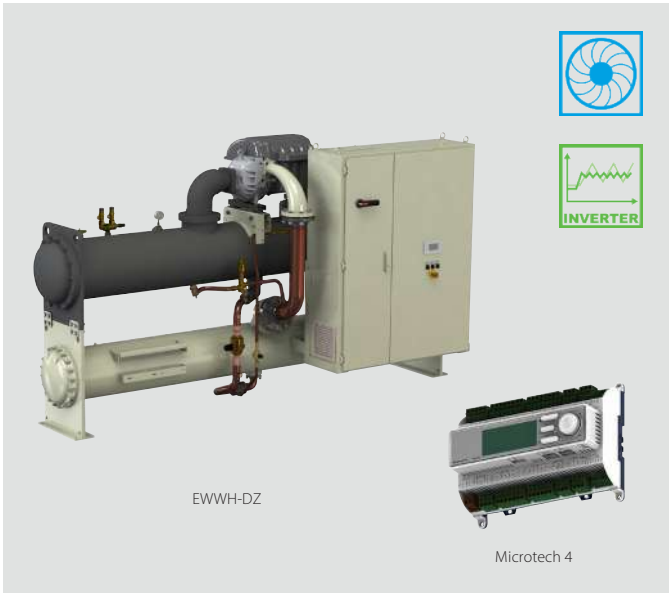

EWWH-DZ

Microtech 4

Cooling Only				EWWH-DZXE	245	345	405	470	480	490	685	740	810	955	C10	C12	C14
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	241.98	339.33	401.93	460.88	483.83	486.57	678.69	741	802.77	944.73	1,033	1,226	2,172.91
	ηs,c			%	331	350		335	345	344	356	344.6	358	356	364.2		371.8
SEER					8.85	8.75	8.79	8.94	8.4	8.9	9.18	8.8	9.22	9.15	9.17		9.35
Cooling capacity	Nom.			kW	242	339	402	487	474	484	679	741	803	945	1,033	1,226	1,417
Power input	Cooling	Nom.		kW	47.9	63.4	75.1	98.7	79.5	95.1	126.3	144.6	149.4	159.2	192.9	229.5	238.3
Capacity control	Method				Variable							Stepless	Variable		Stepless		
	Minimum capacity			%	24	20	19	12	20	12	10	12	9	10	11		17
EER					5.05	5.35		4.93	5.97	5.09	5.37	5.13	5.37	5.93	5.35	5.34	5.94
ESEER					7.78	8.02	8	7.75	7.83	8.04	8.22	-	8.27	8.23	-		
IPLV					9.33	9.54	9.58	9.36	9.56	9.43	9.74	9.44	9.79	9.8	9.62	9.65	9.72
Dimensions	Unit	Height		mm	1,865			1,985				2,082	2,200		2,083	2,225	2,290
		Width		mm	1,055			1,160				1,510	1,270		1,510		
		Length		mm	3,625				3,585			4,688	3,580		4,793	4,768	4,812
Weight	Unit			kg	1,750	1,950	2,050	2,850	2,650	2,850	3,000	4,400	3,700	3,900	4,700	5,100	5,900
	Operation weight			kg	2,033	2,276	2,407	3,197	3,162	3,354	3,568	4,970	4,412	4,699	5,370	5,890	6,920
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume			l	70	96	107		134		156	207.3	199	229	317.4		444.3
	Water flow rate	Cooling	Nom.	l/s	11.6	16.2	19.2	22.4	22.6	23.1	32.4	34.9	38.4	45.2	48.7	57.9	67
	Water pressure drop	Cooling	Nom.	kPa	29.7	28.4		37.8	30.8	32	41.3	31	38.1	36.9	37	38	33
Water heat exchanger - condenser	Type				Shell and tube							Flooded Shell & Tube	Shell and tube		Flooded Shell & Tube		
	Water volume			l	83	100	120		188	170	211	326.4	263	320	359.9	442.6	603.6
	Water flow rate	Cooling	Nom.	l/s	13.9	19.2	22.8	26.7	26.4	27.7	38.5	41.8	45.5	52.8	57.8	68.8	78.4
	Water pressure drop	Cooling	Nom.	kPa	28	34	31	42	18	26	29	21	28	23	33	30	26
Compressor	Type				Driven vapour compressor												
	Quantity				1			2	1	2		3	2		3		
Sound power level	Cooling	Nom.		dBA	87.9	88.9	89.9	91.1		91	92	98	93.3	94.3	99	100	101
Sound pressure level	Cooling	Nom.		dBA	69.6	70.6	71.6	72.6			73.6	79	74.6	75.6	80	81	82
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	4~20												
	Condenser	Cooling	Min.~Max.	°CDB	20~55		20~42	20~55	20~42	20~55			20~42		20~55	20~42	
Refrigerant	Type/GWP				R-1234(ze)/7												
	Charge			kg	130			120	190	200		350	250		400	420	470
	Circuits	Quantity			1												
Refrigerant charge				TCO2Eq	1							-	2		-		
Piping connections				mm	139.7				168.3				219.1				
				mm	139.7				168.3					219.1	168.3	219.1	
Unit	Running current	Cooling	Nom.	A	75	103	117	142	125	150	205	277	232	249	311	249	
Unit	Running current	Max		A	95	150	123	190	142	190	300	286	246	284	451	370	448
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

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EWWS-DZ

Microtech 4

Cooling Only				EWWS-DZXS	320	440	530	610	640	700	880	C10	C13	C14	C15	C21
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		315.85	438.98	520.21	629.71	630.64	694.46	875.77	1,043.15	1,304.67	1,390.46	1,549.85	2,027.16
	ηs,c		%		3.416	3.376	3.54	3.448	3.508	3.428	3.508	3.636	3.448	3.624	3.552	3.608
SEER					8.74	8.64	9.05	8.82	8.97	8.77	8.97	9.29	8.82	9.26	9.08	9.22
Cooling capacity	Nom.		kW		316	439	520	609	631	694	876	1,043	1,305	1,390	1,550	2,027
Power input	Cooling	Nom.	kW		67.1	90	103	126	132	127	177	205	270	257	312	384
Capacity control	Method				Variable											
	Minimum capacity		%		30	21		16	15	18	11		7	9	8	6
EER					4.71	4.88	5.05	4.82	4.77	5.44	4.92	5.08	4.82	5.4	4.96	5.27
IPLV					9.31	9.25	9.61	9.29	9.44	9.77	9.45	9.83	9.1	9.96	9.38	9.34
Dimensions	Unit	Height	mm		1,865			1,985				2,200	2,083	2,200	2,225	2,290
		Width	mm		1,055			1,160				1,270	1,510	1,270	1,510	
		Depth	mm		3,625				3,585			3,580	4,793	3,580	4,768	4,812
Weight	Unit		kg		1,700	1,900	2,000	2,850		2,600	2,900	3,600	4,350	3,800	4,750	5,500
	Operation weight		kg		1,973	2,216	2,347	3,197	3,344	3,102	3,458	4,292	5,020	4,579	5,540	6,570
Water heat exchanger - evaporator	Type				Flooded shell and tube											
	Water volume		l		70	96	107		134		156	199	272	229	317	444
	Water flow rate	Cooling Nom.	l/s		15.3	21.3	25.2	29.1	30.6	33.7	42.5	50.5	63.1	67.4	75	98.1
	Water pressure drop	Cooling Nom.	kPa		47.3	40.9	44.8	59.1	51.1	61.7	64.5	59.3	59.5	74.4	61.3	70.4
Water heat exchanger - condenser	Type				Flooded Shell & Tube											
	Water volume		l		83	100	120		170	188	211	263	360	320	443	604
	Water flow rate	Cooling Nom.	l/s		18.4	25.4	30.1	34.9	36.8	39.6	50.8	60.2	75.9	79.5	89.9	116
	Water pressure drop	Cooling Nom.	kPa		49.4	60.4	54.5	74.2	46.5	42.1	51.5	50.4	56.1	53.4	43.7	55.7
Compressor	Type				Driven vapour compressor											
	Quantity				1			2		1	2		3	2	3	
Sound power level	Cooling	Nom.	dBA		87.9	88.9	89.9	91.1	91.0	91.1	92.0	93.3	93.5	94.3	94.8	95.8
Sound pressure level	Cooling	Nom.	dBA		69.6	70.6	71.6	72.6			73.6	74.6	73.9	75.6	75.2	76.2
Refrigerant	Type/GWP				R-513A/631											
	Charge		kg		120	150	120	140	190	180	200	230	240	230	270	
	Circuits	Quantity			1											
Piping connections			mm		139.7				168.3			219.1				
			mm		139.7				168.3					219.1		

INVERTER

Water cooled centrifugal chiller, high efficiency, standard sound

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

EWWS-DZ

Microtech 4

Cooling Only				EWWS-DZXE	340	470	570	670	680	740	950	C10	C11	C14	C15	C17	C22
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		336.72	471.24	558.03	676.76	674.49	728.69	941.72	1,024.55	1,117.07	1,419.67	1,450.66	1,652.82	2,128.56
	ηs,c		%		3.428	3.396	3.568	3.452	3.52	3.464	3.532	3.444	3.664	3.464	3.668	3.556	3.656
SEER					8.77	8.69	9.12	8.83	9	8.86	9.03	8.81	9.36	8.86	9.37	9.09	9.34
Cooling capacity	Nom.		kW		337	471	558	671	674	729	942	1,025	1,117	1,420	1,451	1,653	2,129
Power input	Cooling	Nom.	kW		70.2	95.1	108	139		129	188	209	215	287	259	324	385
Capacity control	Method				Variable												
	Minimum capacity		%		29	20		15		17	10			7	9	7	6
EER					4.8	4.96	5.15	4.8	4.85	5.61	5.01	4.89	5.18	4.94	5.6	5.1	5.52
IPLV					9.22	9.2	9.59	9.11	9.31	9.78	9.38	9.25	9.81	9.12	9.98	9.4	9.41
Dimensions	Unit	Height	mm		1,865			1,985				2,082	2,200	2,083	2,200	2,225	2,290
		Width	mm		1,055			1,160				1,510	1,270	1,510	1,270	1,510	
		Depth	mm		3,625				3,585			4,688	3,580	4,793	3,580	4,768	4,812
Weight	Unit		kg		1,750	1,950	2,050	2,850		2,650	3,000	4,400	3,700	4,700	3,900	5,100	5,900
	Operation weight		kg		2,033	2,276	2,407	3,197	3,354	3,162	3,568	4,970	4,412	5,370	4,699	5,890	6,920
Water heat exchanger - evaporator	Type				Flooded shell and tube												
	Water volume		l		70	96	107		134		156	207	199	272	229	317	444
	Water flow rate	Cooling Nom.	l/s		16.3	22.9	27	32	32.7	35.3	45.6	49.6	54.1	68.8	70.3	80.1	102
	Water pressure drop	Cooling Nom.	kPa		54.1	47.2	51.3	71.4	58.3	67.8	74.1	61.2	67.7	70.6	80.8	69.7	77.4
Water heat exchanger - condenser	Type				Flooded Shell & Tube												
	Water volume		l		83	100	120		170	188	211	326	263	360	320	443	604
	Water flow rate	Cooling Nom.	l/s		19.6	27.3	32.1	38.4	39.2	41.4	54.4	59.5	64.2	82.3	82.5	95.5	121
	Water pressure drop	Cooling Nom.	kPa		56.5	69.8	62.4	90.8	53.2	46.1	59.4	43.6	57.7	66.4	57.7	49.5	60.7
Compressor	Type				Driven vapour compressor												
	Quantity				1			2		1	2	3	2	3	2	3	
Sound power level	Cooling	Nom.	dBA		87.9	88.9	89.9	91.1	91.0	91.1	92.0	92.6	93.3	93.5	94.3	94.8	95.8
Sound pressure level	Cooling	Nom.	dBA		69.6	70.6	71.6	72.6			73.6	73	74.6	73.9	75.6	75.2	76.2
Refrigerant	Type/GWP				R-513A/631												
	Charge		kg		160	130		200		190	200	270	250	270	250	300	355
	Circuits	Quantity			1												
Piping connections			mm		139.7				168.3				219.1				
			mm		139.7				168.3						219.1		

		Air Cooled Chillers						
Panels & Temperature Sensors		**EWAA~DA EWYA~DA**	**EWAT~CZ**	**EWYT~CZ**	**EWYT~CZ Split Version**	**EWYD~BZ**	**EWYS~4Z (B)**	**EWYT~B-**
EKRSCWI	Temperature sensor water inlet							
EKRSCTMS	Temperature sensor for master/slave configuration (CZ & KC)		●	●				
EKTSMS	Temperature sensor for master/slave configuration						● (x2)	●
EKDIPM05	INTELLIGENT PUMP MAGER FOR ICM 5 PUMPS				●		●	●
EKDIPM10	INTELLIGENT PUMP MAGER FOR ICM 10 PUMPS						●	●
EKDICT (a)	INTELLIGENT COOLING TOWER MAGER FOR ICM							
EKDISM	INTELLIGENT SECONDARY MAGER FOR ICM						●	●

		Air Cooled Chillers						
Serial Cards & Communication Modules		**EWAA~DA EWYA~DA**	**EWAT~CZ**	**EWYT~CZ**	**EWYT~CZ Split Version**	**EWYD~BZ**	**EWYS~4Z (B)**	**EWYT~B-**
EKRSCIO	IO extension for VPF, domestic hot water, demand limit, setpoint reset, low noise		●	●				
EKRSCIOH	IO EXTENSION FOR HEATING APPLICATION			●				
EKRSCTDH	TEMPERATURE SENSOR FOR DHW APPLICATION			●				
EKRSCBMS	Connectivity for exterl BMS communication (Modbus TCP, Bacnet MSTP/IP)		●	●	●			
EKRSCSM	Kit DoS router with antenna		●	●	●			
EKRSCDP	Differential pressure trasduced for VPF		●	●	●			
EKAC200J	Serial Card RS485/Modbus (Carel Controller)					●		
EKACBAC	Ethernet Card BACnet (Carel Controller)					●		
EKACLONP	Serial Card LON FTT 10 (Carel Controller)					●		
EKACRS232	Serial Card RS232 Modem Interface (single unit only) (Carel Controller)					●		
EKACWEB	Web Server Card (Carel Controller)					●		
EKACBACMSTP	Serial Card BACnet MSTP (Carel Controller)					●		
EKCM200J	ModBus RTU communication module						●	●
EKCMBACMSTP	BACnet/MSTP communication module						●	●
EKCMBACIP	BACnet/IP communication module						●	●
EKDOSMWO	Daikin on Site Modem without M2M card						●	●

		Air Cooled Chillers						
Other Systems, Accessories & Pressure Sensors		**EWAA~DA EWYA~DA**	**EWAT~CZ**	**EWYT~CZ**	**EWYT~CZ Split Version**	**EWYD~BZ**	**EWYS~4Z (B)**	**EWYT~B-**
EKCON	Converter RS485 to RS232 (Carel Controller)					●		
EKCONUSB	Converter RS485 to USB (Carel Controller)					●		
EKMODEM	Fixed modem (Carel Controller)					●		
EKGSMOD	GSM modem (Carel Controller)					●		
EKRUPCJ	Remote display kit (Carel Controller)					●		
EKRSCPCS	Local/remote display exterl HMI							
EKRUPCS	Local/remote display HMI						●	●
EKPWPROEXT	PlantWatchPro I/O extension module for hardwiring and retrofit (Carel Controller)					●		
EKGWWEB	Gateway web (Ethernet LAN SNMP) (Carel Controller)					●		
EKGWMODEM	Gateway for modem (Carel Controller)					●		
EKAC10C	Address card for connection to BMS or Remote user interface							
EKRUMCA	Remote installed user interface							
EKLS2 (b)	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 additiol units in the same container					●	●	●
EKRSCLK	Lifting kit for stacked installation							

Notes:
(a) n cooling towers + 1 for iPM connection
(b) For 45/55/65 Hp-units 2 pieces are needed
(x2) = 2 accessories are required

						Water Cooled & Condenserless chillers					WC Turbocor Centrifs
EWAH~TZ (B & C)	EWAD~TZ (B & C)	EWAD~T- (C)	ERAD~E-	EWAT~B- (B)	EWAD~CF		EW(W/H/L)Q~G EW(W/L)Q~L	EWLD~I-	EW(W/L) (D/H/S)~J-	EWW(D/H/S)~VZ	EWW(D/H/S)~DZ
						●					
						●					
●	●	●	●	●	●		● (2)	● (2)	● (2)	● (2)	● (2)
●	●	●	●	●	●		●	●	●	●	●
●	●	●	●	●	●		●	●	●	●	●
							●		●	●	●
●	●	●	●	●	●		●	●	●	●	●

						Water Cooled & Condenserless chillers					WC Turbocor Centrifs
EWAH~TZ (B & C)	EWAD~TZ (B & C)	EWAD~T- (C)	ERAD~E-	EWAT~B- (B)	EWAD~CF		EW(W/H/L)Q~G EW(W/L)Q~L	EWLD~I-	EW(W/L) (D/H/S)~J-	EWW(D/H/S)~VZ	EWW(D/H/S)~DZ
						●					
●	●	●	●	●	●		●	●	●	●	●
●	●	●	●	●	●		●	●	●	●	●
●	●	●	●	●	●		●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●

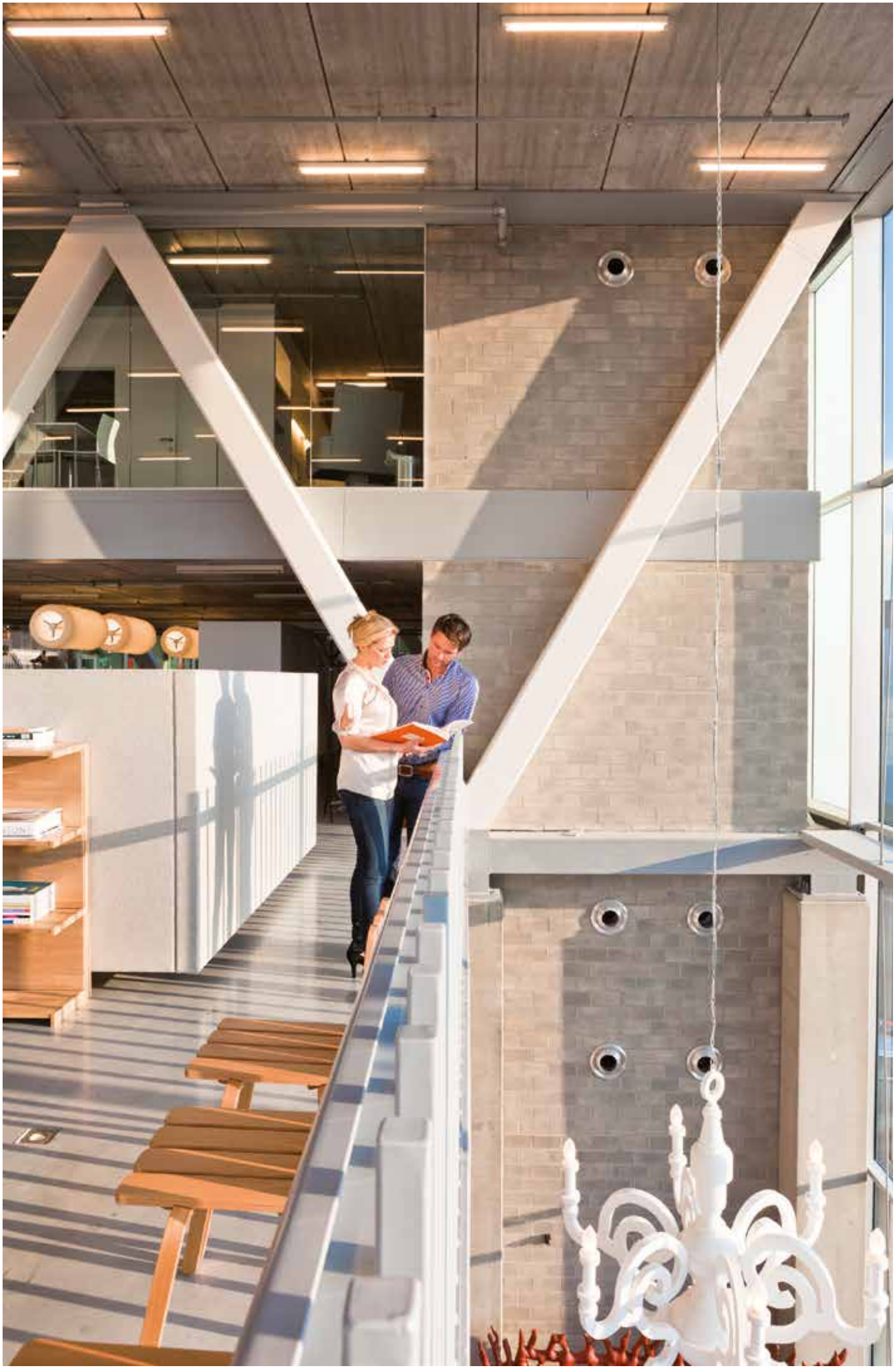
						Water Cooled & Condenserless chillers					WC Turbocor Centrifs
EWAH~TZ (B & C)	EWAD~TZ (B & C)	EWAD~T- (C)	ERAD~E-	EWAT~B- (B)	EWAD~CF		EW(W/H/L)Q~G EW(W/L)Q~L	EWLD~I-	EW(W/L) (D/H/S)~J-	EWW(D/H/S)~VZ	EWW(D/H/S)~DZ
						●					
●	●	●	●	●	●		●	●	●	●	●
						●					
●	●	●	●	●	●		●	●	●	●	●
●	●	●	●	●	●		●	●	●	●	●
						●					

Accessories - Chillers

		Water to Water		Condenserless Chillers
Accessories for MODULAR Ranges		**EWWT~Q-**	**EWHT'Q-**	**EWLT~Q-**
EKTSMS	Temperature sensor for master/slave configuration	● (2)	● (2)	●
EKCBMS	Connectivity for external BMS communication (Modbus TCP, Bacnet MSTP/IP) (MTO)	●	●	●
EKSCDP	Differential pressure trasduced for VPF (MTO)	●	●	●
EKDOSMWO	Daikin on Site Modem without M2M card	●	●	●
EKRSCPCS	Local/remote display external HMI	●	●	●
EKRUPCS	Local/remote display HMI	●	●	●
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	●	●	●

Notes:
(x2) = 2 accessories are required


DAIKIN



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Air handling units

Daikin air handling units

Why choose Daikin air handling units?

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

Certifications

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

The unique quality of Daikin AHU is accomplished by:

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

Gasket
› Liquid gasket technology drastically reduces unit air leakage

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

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

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


D-AHU MODULAR R
INSTALLATION


HEAT RECOVERY
WHEEL AND FILTER


COMFORTABLE
INDOOR CLIMATE


SMART CONTROLS


DAMPER AND EC FAN

Products overview

Centralised ventilation

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

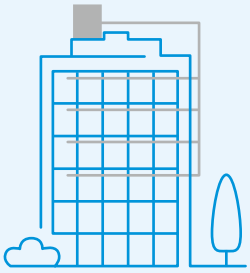
D-AHU Modular P

- 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

Centralised ventilation

Modular R | Modular P



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

Decentralised ventilation

Modular L

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

Pro Version

Smart Version

150 m³/h
up to 3,400 m³/h

Modular T

- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- Small footprint
- Compact design
- High efficiency aluminium counter flow PHE
- Top connected unit

Pro Version

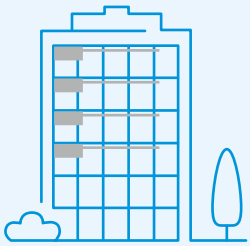
Smart Version

200 m³/h
up to 4,200 m³/h

Decentralised ventilation

Modular T

Modular L



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

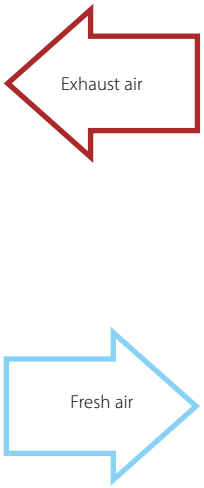
› Premium efficiency filters with factory-mounted differencial pressure manometer

› Heat recovery system (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



Fans
› EC plug fan
› Plug fan

Exchangers
› Water coils
› Direct expansion coil
› Electric coils

Humidifiers
› Steam humidifier with local distributor

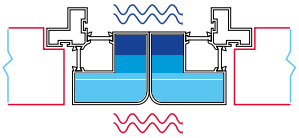
Plug and Play control solution

› 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

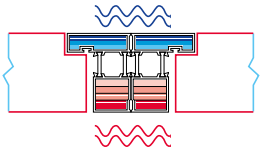
Unique section to section thermal break profile

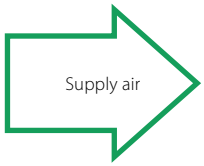
› Thermal bridge free for the entire AHU
› Smooth interior surface with improved IAQ (Indoor Air Quality)

Conventional design



Daikin design





Return side

› Premium efficiency filters with factory-mounted differencial pressure manometer
› Exhaust air fan, EC technology
› Mixing box with damper and factory-mounted actuators
› Heat recovery system (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
› Counter flow plate heat exchangers

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

Filters
› Synthetic pleated filter
› Rigid bag filter
› High efficiency filter
› Carbon deodorizing filter

Accessories
› Frost protection
› Manometers
› Internal lighting
› BMS Communication
› Weather proofing for outdoor installation
› …

Modular L

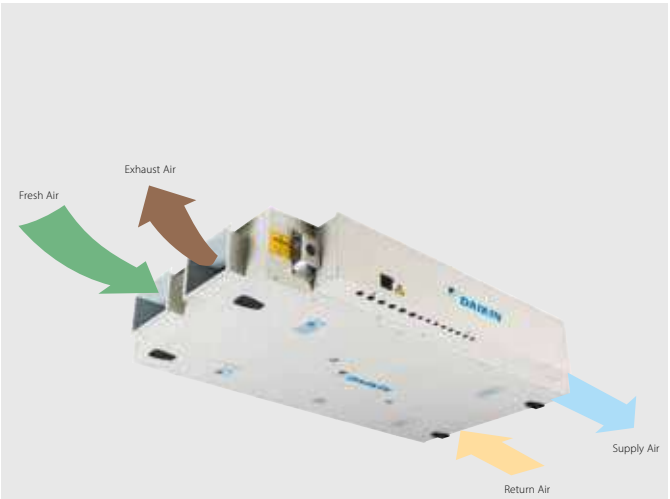
False ceiling heat recovery unit

Highlights

- Six predefined sizes
- Plug & Play control solution
- Compact unit from 280 mm height (for air flow up to 550 m³/h)
- Wide air flow coverage from 150 to 3,400 m³/h
- Right and left configuration
- Pro (open control platform) and Smart (Daikin control platform) version
- Excellent indoor air quality (IAQ). Up to ePM1 80% (F9) filtration level with possibility to have a prefilter up to ePM1 50% (F7) for the best IAQ

Simple, quick installation

The Modular series' Plug & 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 & Play makes everyone's life simpler, safer and more economical.



Modular L

			D-AHU Modular L - Base Unit					
	Size		**ALB02*B(S)**	**ALB03*B(S)**	**ALB04*B(S)**	**ALB05*B(S)**	**ALB06*B(S)**	**ALB07*B(S)**
Unit Nominal Performance	Supply/Extract Airflow [m³/s]		0.134	0.293	0.402	0.523	0.764	0.958
	Thermal Efficiency [%]		87.4	87.4	90.1	89.1	90.0	89.1
	Maximum ESP [Pa]		125	115	200	100	220	100
	Nominal Fan Current - Supply and Extract [A]		1.35	2.20	2.20	2.3	2 x 2.2	2 x 2.3
	Nominal Power Input [kW]		0.17	0.50	0.50	0.50	2 x 0.42	2 x 0.43
	SFPv [kW/m³/s]		1.96	2.30	1.98	1.68	2.07	1.72
	Electrical Supply [V-Ph-Hz]		230-1-50					
	Length [mm]		1660	1800	2000	2000	2000	2000
	Width [mm]		920	1100	1600	1600	2000	2000
	Height [mm]		280	350	415	415	500	500
	Weight [kg]		125	180	270	280	355	360
	Duct Connection Size (mm)	Width	250	400	500	500	700	700
		Height	150	200	300	300	400	400
	Sound Power Level - Lw dB(A)[1]		59	65	66	64	69	66
	Sound Pressure Level - Lp dB(A)[2]		52	58	59	57	62	59

* Indicates handing of unit, R=Right Hand, L = Left Hand. (S) Indicates Modular Light Smart. [1] Sound Power Level Breakout (Supply & Return Air Combined). [2] Sound Pressure Level according to EN3744, Surrounding, Directivity (Q=4) at a distance of 1m. [3] Price includes, ePM1 50% (F7) Filter, Mineral wool insulation, Aluzinc internal skin and Aluzinc Pre-Painted external skin. [4] Units require BRC1E53C wired remote controller.

Notes:

Ancillary modules include Silencers, Electric Frost Coils & various Heating/Cooling Coil Modules.
Final pricing will be dependent on actual selection configuration and additional modules required. Above pricing will provide a sufficiently accurate indication for budget purposes.
The SFP figure shown in the above table is based at the nominal airflow and nominal ESP shown.

Modular-L Options & Accessories:

Item	Model
Compact Filters	
ISO Coarse 55% (G4)	ALF**G4A
ePM10 55% (M5)	ALF**M5A
ePM1 50% (F7)	ALF**F7A
ePM1 80% (F9)	ALF**F9A
Coil Modules* **	
Electric Pre-heating (Mod L Smart)	ALD**HEFB
Electric pre -heating (Mod L Pro)	ALD**HEFA
Electric post - heating***	ALD**HESA
Water cooling (post - heating)***	ALD**CWSA
Water heating (pre/post - heating)***	ALD**HWUA

Item	Model
Valves* **	
2-way water heating	ALV**HW2A
3-way water heating	ALV**HW3A
2-way water cooling	ALV**CW2A
3-way water cooling	ALV**CW3A
Mechanical accessories	
900mm Silencer	ALS**90A
Sliding Rail Access Doors	ALA**RLA
Rectangular to circular duct connection	ALA**RCA

Item	Model
Controls* **	
Module Bacnet Pol 908	ALC00908A
Module Modbus Pol 902	ALC00902A
Pol 822 Room Unit	ALC00822A
Module Pol 895 (Commissioning)	ALC00895A
Electrical accessories* **	
Modulating Actuator	ALE00AMVA
Sensors* **	
CO2	ALP00COA
Humidity (%RH)	ALP00HUA
Temperature	ALP00TEA

Notes: ** Denotes model size number - Where accessories are common across model sizes the larger model dictates accessory code, Example G4 Compact Filter for ALB06 & ALB07 = ALF07G4A
*** These accessories are not compatible with the Modular L Smart Series

Modular T

Top connected heat recovery unit

Highlights

- Five 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
- Right and left configuration
- Pro (open control platform) and Smart (Daikin control platform) version
- Excellent indoor air quality (IAQ). Up to three filtration stages up to ePM1 80% (F9)
- DX and water coil available as option
- Recirculation mixing damper (option)

Simple, quick installation

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

Modular T

D-AHU Modular T - Base Unit						
Unit Nominal Performance	**Size**	**ATB03*A(S)**	**ATB04*A(S)**	**SB.ATB05*A(S)**	**SB.ATB06*A(S)**	**SB.ATB07*A(S)**
	Supply/Extract Airflow [m³/s]	0.222	0.458	0.639	0.750	1.080
	Thermal Efficiency [%]	89.3	88.3	85.1	85.5	90.8
	Maximum ESP [Pa]	100	100	100	100	100
	Nominal Fan Current - Supply and Extract [A]	1.7	3.39	4.61	5.17	7.87
	Nominal Power Input [kW]	0.39	0.78	1.06	1.19	1.81
	SFPv [kW/m³/s]	1.47	1.50	1.49	1.41	1.50
	Electrical Supply [V-Ph-Hz]	230-1-50				
	Length [mm]	1580	1650	2170	2620	2950
	Width [mm]	550	790	790	790	890
	Height [mm]	1600	1600	1900	1850	2050
	Weight [kg]	200	250	400	500	620
	Duct Connection Size (mm) Diameter	4 x 250	4 x 315	4 x 355	4 x 400	4 x 500
	Sound Power Level - Lw dB(A)(1)	57	52	55	55	58
	Sound Pressure Level - Lp dB(A)(2)	50	45	48	48	51

* Indicates handing of unit, R=Right Hand, L = Left Hand. (S) Indicates Modular Light Smart. (1) Sound Power Level Breakout (Supply & Return Air Combined). (2) Sound Pressure Level according to EN3744, Surrounding, Directivity (Q=4) at a distance of 1m. (3) Price includes, ePM1 50% (F7) Filter, Mineral wool insulation, Aluzinc internal skin and Aluzinc Pre-Painted external skin. (4) Units require BRC1E53C wired remote controller.

Notes: Ancillary modules include Silencers, Electric Frost Coils & various Heating/Cooling Coil Modules.
Final pricing will be dependent on actual selection configuration and additional modules required. Above pricing will provide a sufficiently accurate indication for budget purposes.
The SFP figure shown in the above table is based at the nominal airflow and nominal ESP shown.

Modular-T Options & Accessories:

	Item	Model
Compact Filters	ISO Coarse 55% (G4)	ATF**G4A
	ePM10 55% (M5)	ATF**M5A
	ePM1 50% (F7)	ATF**F7A
	ePM1 80% (F9)	ATF**F9A
Coil Modules* **	DX Coil Right Handed	ATD**UDSAR
	DX Coil Left Handed	ATD**UDSAL
	Water Coil Right Handed	ATD**UWSAR
	Water Coil Left Handed	ATD**UWSAL
	Electric Preheating	ATD**HEFAU
	Electric Preheating (Smart Version)	ATD**HEFBU
	Water Pre-Heating	ATD**HWFAU
	Water Post Heating Right Handed	ATD**HWSAR
	Water Post Heating Left Handed	ATD**HWSAL
	Electric Post Heating	ATD**HESAU

	Item	Model
Valves* **	2 Way Water Cooling	ATV**CW2A
	3 Way Water Cooling	ATV**CW3A
	2 Way Water Heating	ATV**HW2A
	3 Way Water Heating	ATV**HW3A
Mechanical accessories	600mm Silencer	ATA**60A
	Mixing Damper***	ATA**MDA
	External Damper***	ATA**EDA
Controls* **	Module Bacnet Pol 908	ALC00908A
	Module Modbus Pol 902	ALC00902A
	Pol 822 Room unit	ALC00822A
	Module Pol 895 (Commissioning)	ALC00895A
Electrical accessories* **	Frost Switch	ATE00FSUA
	Modulating Actuator For Dampers	ATE00AMVA
	Modulating Actuator For Valves	ATE00AMDA
	Digital PCB For External Accessories	ATE00DPUA
Sensors* **	CO2	ALP00COA
	Humidity (%RH)	ALP00HUA
	Temperature	ALP00TEA

Notes: ** Denotes model size number -
*** These accessories are not compatible with the Modular T Smart Series

Modular P

Side connected plate heat recovery air handling unit

MADE IN BRITAIN

Highlights

- Ten predefined sizes
- IE4 premium efficiency motor
- High efficiency plate heat exchanger for heat recovery, all aluminium construction eliminates cross contamination of air flows
- Compact design
- Advanced control features
- Easy installation
- Indoor air quality compliant with VDI 6022 hygiene guideline
- Operating limits from -25 °C, -40 °C with electric heaters, up to +46 °C ambient temperature
- VRV IV and ERQ coupling capability
- Indoor and outdoor versions
- Free cooling capability
- Economy and Night mode operation
- Bacnet & Modbus modules available as an option

Modular P

D-AHU Modular P - Base Unit c/w Plate Heat Exchanger & DX Module											
	Size	**ADT01ECD1**	**ADT02ECD1**	**ADT03ECD1**	**ADT04ECD1**	**ADT05ECD1**	**ADT06ECD1**	**ADT07ECD1**	**ADT08ECD1**	**ADT09ECD1**	**ADT10ECD1**
Unit Nominal Performance	Supply/Extract Airflow [m³/s]	0.50	0.61	0.98	1.31	1.67	1.89	2.33	3.51	4.02	5.28
	Temp Efficiency Winter [%]	91.70	91.90	91.30	91.10	90.80	91.30	91.10	91.10	91.40	91.10
	Temp Efficiency Summer [%]	82.70	83.10	82.10	81.80	81.50	82.10	81.80	81.90	82.30	82.90
	ESP Nominal [Pa]	250	250	250	250	250	250	250	250	250	250
	Nominal Fan Current - Supply/Extract [A]	3.3/3.3	3.1/3.1	1.9/1.9	3.0/3.0	3.8/3.8	4.0/4.0	5.3/5.3	7.7/7.7	4.0/4.0	5.3/5.3
	Power Input Supply, Nominal [kW]	0.5	0.65	1.01	1.4	1.75	2.02	2.44	3.71	2 x 2.15	2 x 2.77
	Power Input Extract, Nominal [kW]	0.52	0.67	1.06	1.47	1.86	2.1	2.55	3.88	2 x 2.24	2 x 2.92
	SFPv [kW/m³/s]	1.88	1.98	1.94	2.00	2.00	2.00	1.98	2.00	2.00	1.99
	Electrical Supply [V-Ph-Hz]	230-1-50	230-1-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
	Length [mm]	2730	2900	3310	3360	3500	3910	4040	4540	4760	4890
	Depth [mm]	720	820	990	1200	1400	1400	1600	1940	1940	2300
	Height (Including Base Frame) [mm]	1320	1320	1540	1740	1740	1920	1920	2180	2460	2570
	Weight [kg]	402	421	591	695	882	956	1082	1618	1894	2305
	DX Total Cooling Capacity [kW]	5.0	6.2	10.0	13.6	17.4	19.6	24.4	36.8	42.3	55.00
	Outdoor Unit Nominal Cooling Power Input [kW]	-	-	-	3.51	4.53	5.22	5.22	2 x 5.22	2 x 5.22	2 x 7.42
	Sound Power Level - Lw dB(A)	72	77	74	77	77	77	78	81	81	82
Matched Air Cooled Condensing Unit	Model	-	-	ERQ100AV1	ERQ125AV1	ERQ200AW1	ERQ200AW1	ERQ250AW1	2 x ERQ200AW1	2 x ERQ200AW1	2 x ERQ250AW1

D-AHU Modular P - Base Unit c/w Plate Heat Exchanger & CHW Module											
	Size	**ADT01ECW1**	**ADT02ECW1**	**ADT03ECW1**	**ADT04ECW1**	**ADT05ECW1**	**ADT06ECW1**	**ADT07ECW1**	**ADT08ECW1**	**ADT09ECW1**	**ADT10ECW1**
Unit Nominal Performance	Supply/Extract Airflow [m³/s]	0.50	0.60	0.98	1.29	1.67	1.89	2.33	3.51	4.26	5.28
	Temp Efficiency Winter [%]	91.70	92.00	91.30	91.10	90.80	91.30	91.10	91.10	91.20	91.10
	Temp Efficiency Summer [%]	82.70	83.20	82.10	81.90	81.50	82.10	81.80	81.90	82.00	81.80
	ESP nominal [Pa]	250	250	250	250	250	250	250	250	250	250
	Nominal Fan Current - Supply/Extract [A]	3.3/3.3	3.1/3.1	4.6/4.6	3.0/3.0	3.8/3.8	4.0/4.0	5.3/5.3	7.7/7.7	4.5/4.5	5.3/5.3
	Power Input Supply, Nominal [kW]	0.52	0.66	1.12	1.42	1.82	2.1	2.54	3.85	2 x 2.36	2 x 2.90
	Power Input Extract, Nominal [kW]	0.52	0.65	1.11	1.44	1.86	2.1	2.55	3.88	2 x 2.36	2 x 2.92
	SFPv [kW/m³/s]	1.90	1.95	2.00	2.00	2.00	2.00	1.98	2.00	2.00	2.00
	Electrical Supply [V-Ph-Hz]	230-1-50	230-1-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
	Length [mm]	2730	2900	3310	3360	3500	3910	4040	4540	4760	4890
	Depth [mm]	720	820	990	1200	1400	1400	1600	1940	1940	2300
	Height (Including Base Frame) [mm]	1320	1320	1540	1740	1740	1920	1920	2180	2460	2570
	Weight [kg]	401	420	591	696	885	961	1086	1616	1893	2308
	Total Cooling Capacity [kW]	3.9	4.8	8.0	10.9	14.0	16.0	19.3	29.2	35.4	43.3
	Outdoor Unit Nominal Cooling Power Input [kW]	1.27	1.61	2.57	3.9	5.8	5.8	7.59	13.5	13.5	15.4
	Sound Power Level - Lw dB(A)	73	77	77	77	78	77	78	81	81	83
Matched Air Cooled Reverse Cycle Chiller	Model	EWYA004 DV3P-H-	EWYA006 DV3P-H-	EWYA008 DV3P-H-	EWYA011 DW1P-H-	EWYT016CZ	EWYT016CZ	EWYT021CZ	EWYT032CZ	EWYT032CZ	EWYT040CZ

Notes:

Sound Power Level - Supply Air Unit Outlet.
Data sheets for above selections are available on request.
Ancillary modules include Dual or Single Silencers, Electric or LPHW Frost Coils, Humidifier & various Heating/Cooling Coil Modules.
Selections in tables above are for units with EC Fan, for plug fan, an average increase in length is seen at 400mm. Full selections available from your Daikin Sales Engineer.
Final pricing will be dependent on actual selection configuration and additional modules required. Above pricing will provide a sufficiently accurate indication for budget purposes.

Modular R

Side connected rotary heat recovery air handling unit

MADE IN BRITAIN

Highlights

- Ten predefined sizes
- IE4 premium efficiency motor
- High efficiency heat wheel (heat recovery)
- Compact design
- Advanced control features
- Easy installation
- Indoor air quality compliant with VDI 6022 hygiene guideline
- Operating limits from -25 °C, -40 °C with electric heaters, up to +46 °C ambient temperature
- VRV IV and ERQ coupling capability
- Indoor and outdoor versions
- Free cooling capability
- Economy and Night mode operation
- Bacnet & Modbus modules available as an option

Modular R

D-AHU Modular R - Base Unit c/w Thermal Wheel & DX Module											
	Size	**ADT01FCD1**	**ADT02FCD1**	**ADT03FCD1**	**ADT04FCD1**	**ADT05FCD1**	**ADT06FCD1**	**ADT07FCD1**	**ADT08FCD1**	**ADT09FCD1**	**ADT10FCD1**
Unit Nominal Performance	Supply/Extract Airflow [m³/s]	0.42	0.52	0.97	1.43	1.86	2.05	2.80	3.63	4.07	5.83
	Temp Efficiency Winter [%]	80.50	81.90	80.30	80.90	80.60	81.00	80.40	79.60	80.70	80.00
	Temp Efficiency Summer [%]	79.90	81.20	79.70	80.30	80.00	80.40	79.70	79.00	80.10	79.40
	ESP nominal [Pa]	250	250	250	250	250	250	250	250	250	250
	Nominal Fan Current - Supply/Extract [A]	3.3/3.3	3.1/3.1	1.9/1.9	4.1/4.1	3.8/3.8	4.0/4.0	9.0/9.0	7.7/7.7	4.0/4.0	9.0/9.0
	Power Input Supply, Nominal [kW]	0.46	0.58	1.06	1.59	1.99	2.26	3.06	3.88	2 x 2.25	2 x 3.18
	Power Input Extract, Nominal [kW]	0.45	0.56	1.02	1.54	1.93	2.18	2.94	3.74	2 x 2.18	2 x 3.05
	SFPv [kW/m³/s]	2.00	2.00	1.97	2.00	1.94	1.99	1.97	1.94	1.99	1.97
	Electrical Supply [V-Ph-Hz]	230-1-50	230-1-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
	Length [mm]	2400	2400	2500	2620	2780	2980	3100	3150	2980	3100
	Depth [mm]	720	820	990	1200	1400	1400	1600	1940	1940	2300
	Height (Including Base Frame) [mm]	1320	1320	1540	1740	1740	1920	1920	2180	2460	2570
	Weight [kg]	385	414	555	667	848	895	1070	1501	1606	1986
	DX Total Cooling Capacity [kW]	3.9	4.6	8.7	13.0	16.9	18.6	25.4	34.1	37.8	52.9
	Outdoor Unit Nominal Cooling Power Input [kW]	-	-	-	3.51	4.53	5.22	7.42	2 x 4.53	2 x 5.22	2 x 7.42
	Sound Power Level - Lw dB(A)	73	76	74	78	79	79	84	81	81	88
Matched Air Cooled Condensing Unit	Model	-	-	-	ERQ125AV1	ERQ140AV1	ERQ200AW1	ERQ250AW1	2 x ERQ200AW1	2 x ERQ200AW1	2 x ERQ250AW1

D-AHU Modular R - Base Unit c/w Thermal Wheel & CHW Module											
	Size	**ADT01FCW1**	**ADT02FCW1**	**ADT03FCW1**	**ADT04FCW1**	**ADT05FCW1**	**ADT06FCW1**	**ADT07FCW1**	**ADT08FCW1**	**ADT09FCW1**	**ADT10FCW1**
Unit Nominal Performance	Supply/Extract Airflow [m³/s]	0.42	0.51	0.96	1.42	1.86	2.04	2.81	3.63	4.06	5.83
	Temp Efficiency Winter [%]	80.70	82.00	80.40	81.00	80.60	81.10	80.40	79.60	80.80	80.00
	Temp Efficiency Summer [%]	80.10	81.30	79.80	80.30	80.00	80.40	79.70	79.00	80.10	79.40
	ESP nominal [Pa]	250	250	250	250	250	250	250	250	250	250
	Nominal Fan Current - Supply/Extract [A]	3.3/3.3	3.1/3.1	4.6/4.6	4.1/4.1	3.8/3.8	4.0/4.0	9.0/9.0	7.7/7.7	4.0/4.0	9.0/9.0
	Power Input Supply, Nominal [kW]	0.46	0.58	1.11	1.59	2.02	2.29	3.13	3.95	2 x 2.28	2 x 3.25
	Power Input Extract, Nominal [kW]	0.44	0.55	1.05	1.52	1.93	2.17	2.95	3.74	2 x 2.17	2 x 3.05
	SFPv [kW/m³/s]	2.00	1.99	2.00	2.00	1.94	1.99	1.98	1.94	2.00	1.97
	Electrical Supply [V-Ph-Hz]	230-1-50	230-1-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
	Length [mm]	2400	2400	2500	2620	2780	2980	3100	3150	2980	3100
	Depth [mm]	720	820	990	1200	1400	1400	1600	1940	1940	2300
	Height (Including Base Frame) [mm]	1320	1320	1540	1740	1740	1920	1920	2180	2460	2570
	Weight [kg]	383	413	555	668	850	900	1074	1499	1601	1988
	Total Cooling Capacity [kW]	3.0	3.6	6.8	10.2	13.3	14.7	19.8	26.5	29.2	41.5
	Outdoor Unit Nominal Cooling Power Input [kW]	-	-	2.56	3.9	5.52	5.8	7.47	9.45	12.7	15.1
	Sound Power Level - Lw dB(A)	74	76	77	78	79	79	85	81	81	88
Matched Air Cooled Reverse Cycle Chiller	Model	EWYA004 DV3P-H-	EWYA004 DV3P-H-	EWYA008 DV3P-H-	EWYA011 DW1P-H-	EWYA014 DW1P-H-	EWYT016CZ	EWYT021CZ	EWYT025CZ	EWYT032CZ	EWYT040CZ

Notes:

Sound Power Level - Supply Air Unit Outlet.
Data sheets for above selections are available on request.
Ancillary modules include Dual or Single Silencers, Electric or LPHW Frost Coils, Humidifier & various Heating/Cooling Coil Modules.
Selections in tables above are for units with EC Fan, for plug fan, an average increase in length is seen at 400mm. Full selections available from your Daikin Sales Engineer.
Final pricing will be dependent on actual selection configuration and additional modules required. Above pricing will provide a sufficiently accurate indication for budget purposes.

Daikin fresh air package

Plug and play connection of AHU to Daikin VRV and ERQ

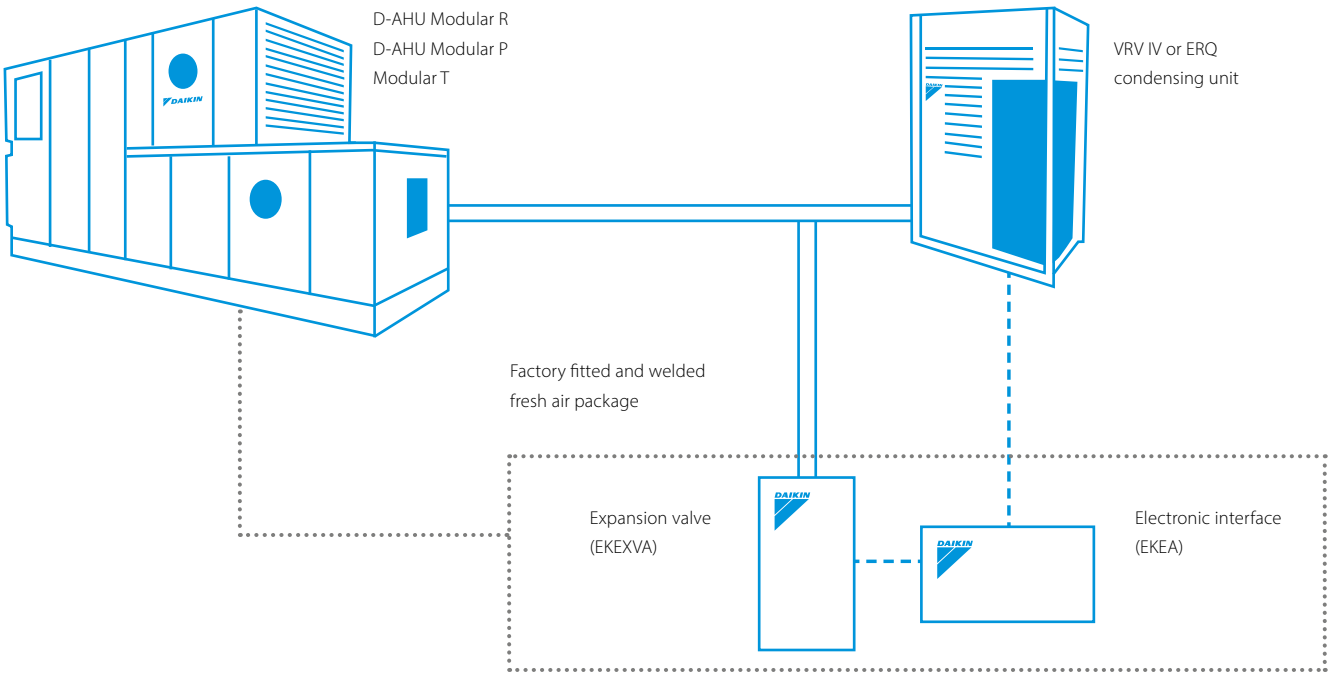
The Daikin fresh air package provides a complete solution, including all unit controls (expansion valve, control box and AHU controller) and sensors factory mounted and configured.

Higher efficiency

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

High comfort levels

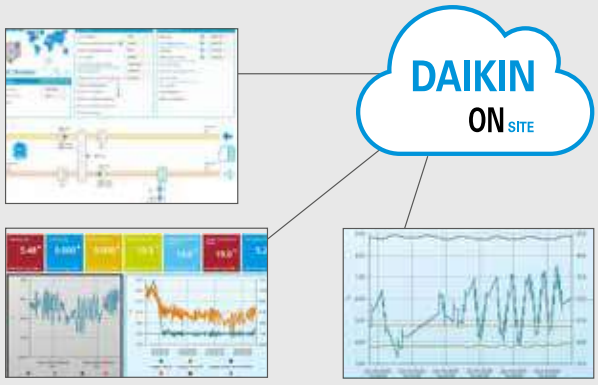
Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resulting in high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.



Daikin On Site

Control everywhere

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



Fan Coil Units are a highly efficient means of providing a comfortable environment for both commercial and residential applications. Daikin offers a wide range of Fan Coil Units for both concealed and exposed applications, ideal for use in offices, hotels and at home.

Table of contents

Fan coil units

High-efficiency BLDC Fan Coil units for comfort cooling / heating

Benefits for the installer

› Reduced amount of sizes: less stock space needed
› Easy integration to BMS systems via modbus protocol

Benefits for the consultant

› Comprehensive range with single source of supply for all configurations
› Efficient BLDC fan motors for comfort and low sound levels

Benefits for the end user

› High comfort level
› Up to 70% savings on running costs
› Controller with timer programmed operating mode

Higher efficiency than AC (Alternative Current) motor

› Up to 70% energy savings
› No heat generation
› No power losses
› Higher efficiency than AC motors to reach set point
› Increased life expectancy >10,000 hours

High comfort level

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

Low sound levels

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

Fan Coil Units

WHITE BLACK GREY

FWECSA Electronic Fan Coil Unit Controller

Main features:

- Management of BLDC fan motor using 0-10V/DC
- Management of on/off or proportional valves
- Management of electric heater
- Relative humidity control
- Cooling/heating mode switching based on air or water temperature
- Contact for remote activation (window contact or remote on/off)
- Weekly timer programmed operation
- Configurable digital output
- Master slave system on serial RS485
- Master slave system using conveyed waves (CW)
- BMS supervision system using Modbus RS485

FWTOUCH additional features:

- Available in three different colours (White, Black, Grey)
- Full capacitive 2.8" color touchscreen with intuitive layout
- Embedded user manual

Product overview

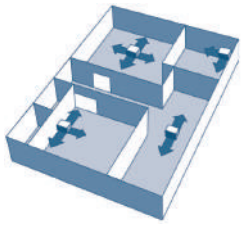
Type	Model	Product name		Fan motor type	Capacity	
Floor standing unit	Floor standing unit - For vertical mounting - Continuous air flow regulation and fan speed modulation - Up to 70% energy savings - Low sound levels	FWZ-AT/AF		BLDC	Cooling: 0.60 - 10.08 kW Heating: 0.69 - 11.18 kW	
Flexi type unit	Flexi type unit - For horizontal or vertical mounting - Continuous air flow regulation and fan speed modulation - Up to 70% energy savings - Low sound levels	FWR-AT/AF		BLDC	Cooling: 0.60 - 10.08 kW Heating: 0.69 - 11.18 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: 0.60 - 10.08 kW Heating: 0.69 - 11.18 kW	FWECSA Controller Recommended
Ducted unit	Concealed ceiling unit with medium ESP - For horizontal concealed mounting - Instant adjustment to temperature and relative humidity changes - Available static pressure up to 50 Pa - Low sound levels	FWP-CAT/CAF		BLDC	Cooling: 1.76 - 7.68 kW Heating: 1.81 - 7.84 kW	
	Concealed ceiling unit with high ESP - For horizontal or vertical concealed mounting - Available static pressure up to 120 Pa - Easy maintenance	FWN-AT/AF		BLDC	Cooling: 2.82 - 18.6kW Heating: 3.23 - 19.2kW	
Ceiling mounted cassette	4-way blow ceiling mounted cassette - 600 x 600 cassette - Integrated fresh air intake - Horizontal auto swing - Easy installation in corners - Standard drain pump with 750 mm lift	FWF-BT/BF		AC	Cooling: 1.4 - 5.2 kW Heating: 2.3 - 6.7 kW	
	Round flow cassette - 900 x 900 cassette - 360° air discharge ensures uniform air flow - Integrated fresh air intake - Easy installation in corners - Standard drain pump with 850 mm lift	FWC-BT/BF		BLDC	Cooling: 4.0 - 8.7 kW Heating: 5.5 -12.1 kW	
Wall mounted unit	Wall mounted unit - High aesthetic cabinet design - Optimum air distribution - Easy installation - 3-speed fan motor	FWT-GT		AC	Cooling: 2.11 - 5.28 kW Heating: 2.49 - 6.01 kW	

ROUND FLOW

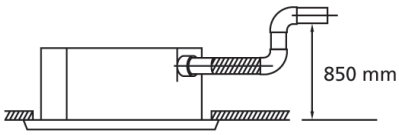
Round flow cassette

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

› 360° air discharge ensures uniform air flow and temperature distribution
› Modern style decoration panel in white (RAL9010)
› Optional fresh air intake
› Comfortable horizontal air discharge ensures draught-free 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

BRC315D

Cassette Type 2-pipe			FWC06BT	FWC07BT	FWC08BT	FWC09BT
Capacity	UK Total Cooling	kW	3.30	4.10	4.30	4.80
	Nominal Cooling	kW	5.80	6.80	7.70	8.70
	Nominal Heating	kW	8.00	8.90	10.60	12.10
Dimensions	Height	mm	288	288	288	288
	Width	mm	840	840	840	840
	Depth	mm	840	840	840	840
Weight		kg	26	26	26	26
Sound Power	High / Low	dBA	43/31	47/33	53/36	57/40
Sound Pressure	High / Low	dBA	29/21	33/22	39/24	43/28
Air Flow Rate	High	m^3/min	17.7	20.6	25.4	30.8
Water Connections		inch	3/4" BSP Female			
Electrical Data	Power Supply		1 ph			

Cassette Type 4-pipe			FWC06BF	FWC07BF	FWC08BF	FWC09BF
Capacity	UK Total Cooling	kW	3.30	4.00	4.30	4.80
	Nominal Cooling	kW	5.80	6.60	7.60	8.70
	Nominal Heating	kW	7.50	8.40	9.70	11.00
Dimensions	Height	mm	288	288	288	288
	Width	mm	840	840	840	840
	Depth	mm	840	840	840	840
Weight		kg	29	29	29	29
Sound Power	High / Low	dBA	43/31	47/33	53/36	57/40
Sound Pressure	High / Low	dBA	29/21	33/22	39/24	43/28
Air Flow Rate	High	m^3/min	17.1	19.9	24.6	29
Water Connections		inch	3/4" BSP Female			
Electrical Data	Power Supply		1 ph			

FWC Accessories

Accessory Ref	
Remote wired controller	BRC315D
Wireless remote control cooling only	BRC7F533F
Wireless remote control heat pump	BRC7F532F
Remote air sensor	KRCS01-4
Unit/Group adapter pcb	KRP4A53
Optional pcb for connection to ModBus	EKFCMBCB
Remote on/off control interface kit	EKRORO
3-Way 230V on/off valve kit	EKMV3C09B
Valve control PCB	EKRP1C11
Installation box for EKRP1C11 valve PCB	KRP1H98A

Notes:

i) It is not possible to combine both VRV and water based fan coils on the same F1/F2 line

FWC Valve control requirements
2 pipe unit: 1 x valve kit EKMV3C09B
+ 1 x installation box for PCB KRP1H98A
+ 1 x valve control PCB EKRP1C11

4 pipe unit: 2 x valve kit EKMV3C09B
+ 1 x installation box for PCB KRP1H98A
+ 1 x valve control PCB EKRP1C11

4-way blow ceiling mounted cassette

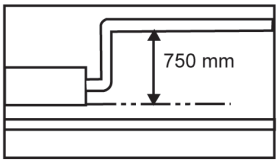
AC fan motor unit for ceiling mounting. Possibility to shut 1 or 2 flaps

- Modern style decoration panel in white (RAL9010)
- Compact casing (570mm in width and Length) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- Comfortable horizontal auto swing ensures draught-free 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

BRC315D



600sq Cassette Type 2-pipe			FWF02BT	FWF03BT	FWF04BT	FWF05BT
Capacity	UK Total Cooling	kW	1.20	1.90	2.50	3.10
	Nominal Cooling	kW	2.00	3.20	4.20	5.20
	Nominal Heating	kW	2.90	4.00	5.40	6.70
Dimensions	Height	mm	260	260	260	260
	Width	mm	575	575	575	575
	Depth	mm	575	575	575	575
Weight		kg	19	19	19	19
Sound Power	High / Low	dBA	44/36	44/36	50/36	55/42
Sound Pressure	High / Low	dBA	31/26	31/26	40/26	45/30
Air Flow Rate	High	m^3/min	7.9	7.9	11.2	14.9
Water Connections		inch	3/4" BSP Female			
Electrical Data	Power Supply		1 ph			

600sq Cassette Type 4-pipe			FWF02BF	FWF03BF	FWF04BF	FWF05BF
Capacity	UK Total Cooling	kW	1.10	1.60	2.00	2.50
	Nominal Cooling	kW	2.00	2.70	3.50	4.50
	Nominal Heating	kW	3.90	3.80	4.90	6.10
Dimensions	Height	mm	260	260	260	260
	Width	mm	575	575	575	575
	Depth	mm	575	575	575	575
Weight		kg	19	20	20	20
Sound Power	High / Low	dBA	44/36	44/36	50/36	55/42
Sound Pressure	High / Low	dBA	31/26	31/26	40/26	45/30
Air Flow Rate	High	m^3/min	7.9	7.2	10.4	13.9
Water Connections		inch	3/4" BSP Female			
Electrical Data	Power Supply		1 ph			

FWF Accessories

Accessory Ref	
Remote wired controller	BRC315D
Wireless remote control cooling only	BRC7E531
Wireless remote control heat pump	BRC7F530W
Remote air sensor	KRCS01-1
Unit/Group adapter pcb	KRP4A53
Optional pcb for connection to ModBus	EKFCMBCB
3-Way 230V on/off valve kit	EKMV3C09B
Valve control PCB	EKRP1C11
Installation box for EKRP1C11 valve PCB	KRP1BB101

Notes:

i) It is not possible to combine both VRV and water based fan coils on the same F1/F2 line

FWF Valve control requirements
2 pipe unit: 1 x valve kit EKMV3C09B
+ 1 x installation box for PCB KRP1BB101
+ 1 x valve control PCB EKRP1C11

4 pipe unit: 2 x valve kit EKMV3C09B
+ 1 x installation box for PCB KRP1BB101
+ 1 x valve control PCB EKRP1C11

Floor standing unit

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

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

FWZ-AT/AF

FWEC3A

FWECSA

FWTOUCH

Cased Low Wall Mount Type 2-pipe			FWZ02AT	FWZ03AT	FWZ06AT	FWZ08AT
Capacity	UK Total Cooling	kW	1.39	2.57	3.23	5.11
	Nominal Cooling	kW	2.64	4.96	6.32	10.08
	Nominal Heating	kW	3.47	6.40	7.51	11.18
Dimensions	Height x Width x Depth	mm	226 x 774 x 564	226 x 987 x 564	226 x 1194 x 564	251 x 1404 x 564
Weight		kg	20	25	31	41
Sound Power	High/Low	dBA	62/28	70/28	64/28	71/28
Sound Pressure	High/Low	dBA	54/20	62/20	56/20	63/20
Air Flow Rate	High	m^3/min	9.33	15.00	20.00	27.66
Water Connections		inch	1/2	1/2	1/2	3/4
Electrical Data	Power Supply		1ph			

Cased Low Wall Mount Type 4-pipe			FWZ02AF	FWZ03AF	FWZ06AF	FWZ08AF
Capacity	UK Total Cooling	kW	1.39	2.57	3.23	5.11
	Nominal Cooling	kW	2.64	4.96	6.32	10.08
	Nominal Heating	kW	2.46	4.19	6.45	10.06
Dimensions	Height x Width x Depth	mm	226 x 774 x 564	226 x 987 x 564	226 x 1194 x 564	251 x 1404 x 564
Weight		kg	21	26	33	44
Sound Power	High/Low	dBA	62/28	70/28	64/28	71/28
Sound Pressure	High/Low	dBA	54/20	62/20	56/20	63/20
Air Flow Rate	High	m^3/min	9.33	15.00	20.00	27.66
Water Connections		inch	1/2	1/2	1/2	3/4
Electrical Data	Power Supply		1ph			

* Alternative valve kits are available to satisfy specific project requirements, please consult Applied Department for further details.

FWZ Accessories

Accessory Ref	02	03	06	08
2-pipe 3-way 230V on/off valve kits c/w lockshields	E2MV03A6			E2MV10A6
4-pipe 3-way 230V on/off valve kits c/w lockshields	E4MV03A6			E4MV10A6
Electric Heater	EEH02A6	EEH03A6	EEH06A6	EEH10A6
Fresh Air Intake	EFA02A6	EFA03A6	EFA06A6	EFA10A6
Rear Panel	ERPV02A6	ERPV03A6	ERPV06A6	ERPV10A6
Support Feet	ESFV06A6			ESFV10A6
Supporting Feet & Grille	ESFVG02A6	ESFVG03A6	ESFVG06A6	ESFVG10A6
Vertical Drainpan	EDPV6			
Condensate Drain Pump - 750mm Lift	CDRP1A			
Split Electronic Controller - Power Control Board	FWECSAP			
Split Electronic Controller - Control Panel	FWECSAC			
Split Electronic Controller - Touch Screen Control Panel (Black)	FWTOUCHB			
Split Electronic Controller - Touch Screen Control Panel (White)	FWTOUCHW			
Split Electronic Controller - Touch Screen Control Panel (Grey)	FWTOUCHG			
Return Air Sensor	FWTSKA			
Humidity Sensor	FWHSKA			

Notes:

i) The FWECSA can operate up to 256 fan coils as master slave control on RS485 network

ii) Factory configured FCU orders with <20pcs results in a longer leadtime. We recommend base units & accessory kits from stock are considered with fitting at site by customer for these smaller quantities

Flexi type unit

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

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

FWR-AT/AF

FWEC3A

FWECSA

FWTOUCH

Cased Flexi Type 2-pipe			FWR02AT	FWR03AT	FWR06AT	FWR08AT
Capacity	UK Total Cooling	kW	1.39	2.57	3.23	5.11
	Nominal Cooling	kW	2.64	4.96	6.32	10.08
	Nominal Heating	kW	3.47	6.40	7.51	11.18
Dimensions	Height x Width x Depth	mm	226 x 774 x 564	226 x 987 x 564	226 x 1194 x 564	251 x 1404 x 564
Weight		kg	21	27	33	44
Sound Power	High/Low	dBA	62/28	70/28	64/28	71/28
Sound Pressure	High/Low	dBA	54/20	62/20	56/20	63/20
Air Flow Rate	High	m^3/min	9.33	15.00	20.00	27.66
Water Connections		inch	1/2	1/2	1/2	3/4
Electrical Data	Power Supply		1ph			

Cased Flexi Type 4-pipe			FWR02AF	FWR03AF	FWR06AF	FWR08AF
Capacity	UK Total Cooling	kW	1.39	2.57	3.23	5.11
	Nominal Cooling	kW	2.64	4.96	6.32	10.08
	Nominal Heating	kW	2.46	4.19	6.45	10.06
Dimensions	Height x Width x Depth	mm	226 x 774 x 564	226 x 987 x 564	226 x 1194 x 564	251 x 1404 x 564
Weight		kg	22	28	35	46
Sound Power	High/Low	dBA	62/28	70/28	64/28	71/28
Sound Pressure	High/Low	dBA	54/20	62/20	56/20	63/20
Air Flow Rate	High	m^3/min	9.33	15.00	20.00	27.66
Water Connections		inch	1/2	1/2	1/2	3/4
Electrical Data	Power Supply		1ph			

* Alternative valve kits are available to satisfy specific project requirements, please consult Applied Department for further details.

FWR Accessories

Accessory Ref	02	03	06	08
2-pipe 3-way 230V on/off valve kits c/w lockshields	E2MV03A6			E2MV10A6
4-pipe 3-way 230V on/off valve kits c/w lockshields	E4MV03A6			E4MV10A6
Electric Heater	EEH02A6	EEH03A6	EEH06A6	EEH10A6
Rear Panel	ERPV02A6	ERPV03A6	ERPV06A6	ERPV10A6
Vertical Drainpan	EDPV6			
Condensate Drain Pump - 750mm Lift	CDRP1A			
Split Electronic Controller - Power Control Board	FWECSAP			
Split Electronic Controller - Control Panel	FWECSAC			
Split Electronic Controller - Touch Screen Control Panel (Black)	FWTOUCHB			
Split Electronic Controller - Touch Screen Control Panel (White)	FWTOUCHW			
Split Electronic Controller - Touch Screen Control Panel (Grey)	FWTOUCHG			
Return Air Sensor	FWTSKA			
Humidity Sensor	FWHSKA			

Notes:

i) The FWECSA can operate up to 256 fan coils as master slave control on RS485 network

ii) Factory configured FCU orders with <20pcs results in a longer leadtime. We recommend base units & accessory kits from stock are considered with fitting at site by customer for these smaller quantities

Concealed flexi type unit

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

- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves
- Available static pressure up to 50Pa at maximum speed

FWS-AT/AF

FWEC3A

FWECSA

FWTOUCH

Concealed Flexi Type 2-pipe			FWS02AT	FWS03AT	FWS06AT	FWS08AT
Capacity	UK Total Cooling	kW	1.08	2.02	2.52	3.99
	Nominal Cooling	kW	2.64	4.96	6.32	10.08
	Nominal Heating	kW	3.47	6.40	7.51	11.18
Dimensions	Height x Width x Depth	mm	224 x 584 x 535	224 x 794 x 535	224 x 1004 x 535	249 x 1214 x 535
Weight		kg	15	19	23	32
Sound Power	High/Low	dBA	62/28	70/28	64/28	71/28
Sound Pressure	High/Low	dBA	54/20	62/20	56/20	63/20
Air Flow Rate	High	m^3/min	9.33	15.00	20.00	27.66
Water Connections		inch	1/2	1/2	1/2	3/4
Electrical Data	Power Supply		1ph			

Concealed Flexi Type 4-pipe			FWS02AF	FWS03AF	FWS06AF	FWS08AF
Capacity	UK Total Cooling	kW	1.08	2.02	2.52	3.99
	Nominal Cooling	kW	2.64	4.96	6.32	10.08
	Nominal Heating	kW	2.46	4.19	6.45	10.06
Dimensions	Height x Width x Depth	mm	224 x 584 x 535	224 x 794 x 535	224 x 1004 x 535	249 x 1214 x 535
Weight		kg	16	20	25	34
Sound Power	High/Low	dBA	62/28	70/28	64/28	71/28
Sound Pressure	High/Low	dBA	54/20	62/20	56/20	63/20
Air Flow Rate	High	m^3/min	9.33	15.00	20.00	27.66
Water Connections		inch	1/2	1/2	1/2	3/4
Electrical Data	Power Supply		1ph			

* Alternative valve kits are available to satisfy specific project requirements, please consult Applied Department for further details.

FWS Accessories

Accessory Ref	02	03	06	08
2-pipe 3-way 230V on/off valve kits c/w lockshields	E2MV03A6			E2MV10A6
4-pipe 3-way 230V on/off valve kits c/w lockshields	E4MV03A6			E4MV10A6
Electric Heater	EEH02A6	EEH03A6	EEH06A6	EEH10A6
Air Intake & Discharge Grille	EAIDF02A6	EAIDF03A6	EAIDF06A6	EAIDF10A6
Support Feet	ESFV06A6			ESFV10A6
Plenum Box With Circular Connections (FWS-A Only)	EPCC02A6	EPCC03A6	EPCC06A6	EPCC10A6
Vertical Drainpan	EDPV6			
Horizontal Drainpan	EDPHB6			
Condensate Drain Pump - 750mm Lift	CDRP1A			
Split Electronic Controller - Power Control Board	FWECSAP			
Split Electronic Controller - Control Panel	FWECSAC			
Split Electronic Controller - Touch Screen Control Panel (Black)	FWTOUCHB			
Split Electronic Controller - Touch Screen Control Panel (White)	FWTOUCHW			
Split Electronic Controller - Touch Screen Control Panel (Grey)	FWTOUCHG			
Return Air Sensor	FWTSKA			
Humidity Sensor	FWHSKA			

Notes:

i) The FWECSA can operate up to 256 fan coils as master slave control on RS485 network

ii) Factory configured FCU orders with <20pcs results in a longer leadtime. We recommend base units & accessory kits from stock are considered with fitting at site by customer for these smaller quantities

Concealed ceiling unit with medium ESP

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

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

FWP-CT/CF

FWEC3A

FWECSA

FWTOUCH

Concealed Ducted Type 2-pipe			FWP04CT	FWP05CT	FWP06CT	FWP08CT	FWP10CT	FWP11CT	FWP15CT	FWP17CT
Capacity	Nominal Cooling	kW	1.76	1.95	2.75	3.27	4.35	4.91	6.85	7.68
Dimensions	Height x Width x Depth	mm	252 x 758 x 603		253 x 968 x 603		282 x 1177 x 713			
Weight		kg	19	20	25	28	33	33	39	39
Sound Power	High/Low	dBA	52/32	55/37	58/39	60/39	59/39		69/60	
Air Flow Rate	Med	m³/min	4.10	4.58	6.00	8.87	11.45	11.45	19.50	19.50
Water Connections		inch	1/2 (Female)	1/2 (Female)	1/2 (Female)	1/2 (Female)	3/4 (Female)	3/4 (Female)	3/4 (Female)	3/4 (Female)
Electrical Data	Power Supply		1ph							

Concealed Ducted Type 4-pipe				FWP05CF	FWP06CF	FWP08CF	FWP10CF	FWP11CF	FWP15CF	FWP17CF
Capacity	Nominal Cooling	kW	1.76	1.95	2.75	3.27	4.35	4.91	6.85	7.68
	Nominal Heating	kW	1.81	1.98	2.8	3.7	4.75	5.03	7.76	7.84
Dimensions	Height x Width x Depth	mm	252 x 758 x 603		253 x 968 x 603		282 x 1177 x 713			
Weight		kg	19	20	25	28	33	33	39	39
Sound Power	High/Low	dBA	52/32	55/37	58/39	60/39	59/39		69/60	
Air Flow Rate	Med	m³/min	4.10	4.58	6.00	8.87	11.45	11.45	19.50	19.50
Water Connections		inch	1/2 (Female)	1/2 (Female)	1/2 (Female)	1/2 (Female)	3/4 (Female)	3/4 (Female)	3/4 (Female)	3/4 (Female)
Electrical Data	Power Supply		1ph							

* Alternative valve kits are available to satisfy specific project requirements, please consult Applied Department for further details.

FWP Accessories

Accessory Ref	04	05	06	08	10	11	15	17
3-way 230V on/off valve kits c/w lockshields	E4V2N05OV3WA		E4V2N08OV3WA		E2MV10A6			
3-way 230V on/off valve add.h/e	E4VHN08OV3WA				E4VHN17OV3WA			
Pressure Independent Control Valve (2 Pipe Units)	FWBPVPIC2V15			FWBPVPIC2V20		FWBPVPIC2V25		
Pressure Independent Control Valve (4 Pipe Units)	FWBPVPIC2V1015		FWBPVPIC2V1515	FWBPVPIC2V2015		FWBPVPIC2V2515		
Electric Heater	EH060V3A		EH100V36A		EH200V36A			
Horizontal Drainpan	EDPD7				EDPD9			
G4 Filter Kit	FG4T1AA		FG4T2AA		FG4T3AA			
Plenum Box (Un-insulated) with circular connections	PLT1NAA		PLT2NAA		PLT3NAA			
Plenum Box (insulated) with circular connections	PLT1CAA		PLT2CAA		PLT3CAA			
Condensate Drain Pump - 750mm Lift	CDRP1A							
Split Electronic Controller - Power Control Board	FWECSAP							
Split Electronic Controller - Control Panel	FWECSAC							
Split Electronic Controller - Touch Screen Control Panel (Black/White/Grey)	FWTOUCHB/W/G							
Return Air Sensor	FWTSKA							
Humidity Sensor	FWHSKA							

Notes:

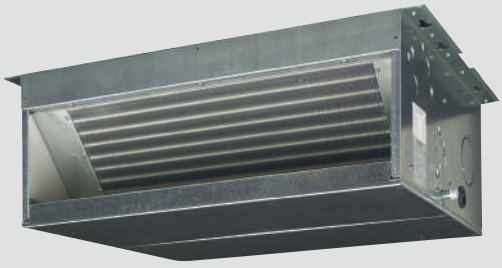
i) The FWECSA can operate up to 256 fan coils as master slave control on RS485 network

ii) Factory configured FCU orders with <20pcs results in a longer leadtime. We recommend base units & accessory kits from stock are considered with fitting at site by customer for these smaller quantities

Concealed ceiling unit with high ESP

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

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



FWN-AT/AF

FWEC3A

FWECSA

FWTOUCH

Concealed Ducted Type 2-pipe			FWN04ATN	FWN05ATN	FWN06ATN	FWN07ATN	FWN08ATN	FWN10ATN	FWN12ATN	FWN16ATN	FWN18ATN
Capacity	UK Total Cooling	kW	1.95	2.37	3.07	3.36	3.81	4.19	6.18	8.32	9.25
	Nominal Cooling	kW	3.80	4.65	6.02	6.66	7.58	8.50	12.20	16.80	18.60
	Nominal Heating	kW	4.05	4.83	6.42	7.26	7.88	8.93	12.70	17.30	19.10
Dimensions	Height x Width x Depth	mm	280 x 754 x 559		280 x 964 x 559		280 x 1174 x 559		353 x 1174 x 718	353 x 1384 x 718	
Weight		kg	32.5	33.3	40.6	41.7	47.3	48.7	65.3	77.0	79.5
Sound Power	High / Med / Low	dBA	66 / 61 / 54	66 / 61 / 54	69 / 63 / 59	69 / 63 / 61	72 / 67 / 62	72 / 67 / 62	74/67/60	78/73/69	78/73/69
Sound Pressure	High / Med / Low	dBA	59 / 51 / 46	59 / 51 / 46	55 / 55 / 53	55 / 55 / 53	64 / 58 / 55	64 / 58 / 55	67/60/53	69/66/61	69/65/61
Air Flow Rate	High	m^3/min	13.43	13.18	20.63	20.05	26.77	26.35	39.60	53.45	52.90
Water Connections		inch	3/4"						1"		
Electrical Data	Power Supply		1ph								

Concealed Ducted Type 4-pipe			FWN04AFN	FWN05AFN	FWN06AFN	FWN07AFN	FWN08AFN	FWN10AFN	FWN12AFN	FWN16AFN	FWN18AFN
Capacity	UK Total Cooling	kW	1.93	2.36	3.01	3.31	3.75	4.12	6.1	8.28	9.2
	Nominal Cooling	kW	3.76	4.61	5.91	6.55	7.46	8.35	12.1	16.6	18.6
	Nominal Heating	kW	3.91	3.89	5.72	5.65	7.99	7.94	14.4	19.3	19.2
Dimensions	Height x Width x Depth	mm	280 x 754 x 559		280 x 964 x 559		280 x 1174 x 559		353 x 1174 x 718	353 x 1384 x 718	
Weight		kg	34.7	35.5	43.2	44.3	50.3	51.7	71.0	83.0	86.0
Sound Power	High / Med / Low	dBA	66 / 61 / 54	66 / 61 / 54	69 / 63 / 59	69 / 63 / 61	72 / 67 / 62	72 / 67 / 62	74/67/60	78/73/69	78/73/69
Sound Pressure	High / Med / Low	dBA	59 / 51 / 46	59 / 51 / 46	58 / 55 / 53	58 / 55 / 53	64 / 58 / 55	64 / 58 / 55	67/60/53	69/66/61	69/65/61
Air Flow Rate	High	m^3/min	13.23	13.07	20.17	19.65	26.22	25.83	38.86	53.11	52.56
Water Connections		inch	3/4"						1"		
Electrical Data	Power Supply		1ph								

* Alternative valve kits are available to satisfy specific project requirements, please consult Applied Department for further details.

FWN Accessories

Accessory Ref	04-05	06-07	08-10	12	16-18
2-pipe 3-way 230V on/off valve kits c/w lockshields	ED2MV04A6	ED2MV10A6		ED2MV18A6*	
4-pipe 3-way 230V on/off valve kits c/w lockshields	ED4MV04A6	ED4MV10A6		2 x ED2MV18A6*	
Pressure Independent 2 Way Valves - 2 Pipe Units	FWDNVPIC2V20		FWDNVPIC2V25	FWDNVPIC2V32	
Pressure Independent 2 Way Valves - 4 Pipe Units	FWDNVPIC2V2015		FWDNVPIC2V2520	FWDNVPIC2V3220	
Electric Heater (Standard)	EDEH04A6	EDEHS06A6	EDEHS10A6	EDEHS12A6	EDEHS18A6
Fresh Air intake Kit	EDMFA04A6	EDMFA06A6	EDMFA10A6	EDMFA12A6	EDMFA18A6
G4 Filter Kit	FSDG404A	FSDG406A	FSDG408A	FSDG412A	FSDG416A
Vertical Drain Pan	EDDPV10A6			EDDPV18A6	
Horizontal Drain Pan	EDDPH10A6			EDDPH18A6	

Condensate Drain Pump - 750mm Lift	CDRP1A
Split Electronic Controller - Power Control Board	FWECSAP
Split Electronic Controller - Control Panel	FWECSAC
Split Electronic Controller - Touch Screen Control Panel (Black)	FWTOUCHB
Split Electronic Controller - Touch Screen Control Panel (White)	FWTOUCHW
Split Electronic Controller - Touch Screen Control Panel (Grey)	FWTOUCHG
Return Air Sensor	FWTSKA
Humidity Sensor	FWHSKA

* Only valve and actuator are supplied.

Notes:

i) The FWECSA can operate up to 256 fan coils as master slave control on RS485 network

ii) Factory configured FCU orders with <20pcs results in a longer leadtime. We recommend base units & accessory kits from stock are considered with fitting at site by customer for these smaller quantities

Wall mounted unit

AC fan motor unit for wall mounting

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

FWT-GT

MERCA

WRC-HPC

Cased High Wall Mount Type 2-pipe			FWT02GT	FWT03GT	FWT04GT	FWT05GT	FWT06GT
Capacity	UK Total Cooling	kW	1.59	1.67	2.10	2.90	3.41
	Nominal Cooling	kW	2.43	2.70	3.31	4.54	5.28
	Nominal Heating	kW	3.22	3.52	4.40	6.01	7.33
Dimensions	Height	mm	288	288	288	310	310
	Width	mm	800	800	800	1065	1065
	Depth	mm	206	206	206	224	224
Weight		kg	10	10	10	15	15
Sound Power	High / Low	dBA	45/36	48/39	55/45	55/47	59/51
Sound Pressure	High / Low	dBA	34/25	35/25	42/32	42/34	42/39
Air Flow Rate	High	m^3/min	7.36	7.93	10.48	14.43	17.55
Water Connections		inch	1/2	1/2	1/2	1/2	1/2
Electrical Data	Power Supply		1ph				

FWT Accessories

Accessory Ref	02-06
Standard wired remote controller	MERCA
Wireless remote controller (Heat Pump)	WRC-HPC

Notes:

i) FWT fan coils are optimised for valveless control in cooling. We would recommend that a field supplied 4-port 3 way valve with 230V non-modulating on/off actuator be fitted if being used for heating only and for more precise control in cooling. A 230v power supply can be taken from the main PCB.

Options & accessories - Fan coil units: Panels and Controls

INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWZ-AT/AF	FWR-AT/AF	FWS-AT/AF	FWP-CT/CF	FWN-AT/AF	FWT-GT
Panels	Decoration Panel 600 x 600		BYFQ60B						
	Decoration Panel 900 x 900	BYCQ140C							
	Panel spacer for reducing required installation height	KDBQ44B60	KDBQ44B60						
	Sealing member of air discharge outlet	KDBHQ55C140	KDBH44BA60						
	Rear Panel			ERPV02A6 (02) EPRV04A6 (03) EPRV06A6 (06) EPRV10A6 (08)	ERPV02A6 (02) EPRV04A6 (03) EPRV06A6 (06) EPRV10A6 (08)				
	Air Intake & Discharge Grille			EAIDF02A6 (02) EAIDF03A6 (03) EAIDF06A6 (06) EAIDF10A6 (08)	EAIDF02A6 (02) EAIDF03A6 (03) EAIDF06A6 (06) EAIDF10A6 (08)	EAIDF02A6 (02) EAIDF03A6 (03) EAIDF06A6 (06) EAIDF10A6 (08)			
Individual control systems & network	Wired Remote Controller (Standard)	BRC315D	BRC315D						MERCA
	Wired Remote Controller (Avanced Plus)			FWEC3A	FWEC3A				
	Wireless Controller (Heat Pump)	BRC7F532F	BRC7E530						WRC-HPC
	Split Controller - Power Control Board			FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	
	Split Controller - Control Panel			FWECSAC	FWECSAC	FWECSAC	FWECSAC	FWECSAC	
	Split controller - Touch Screen Control Panel			FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)	
	On-board mounting kit for wired remote controller			FWECKA	FWECKA				
	Wall mounting kit for wired remote controller			FWFCKA	FWFCKA				
Sensors	Temperature sensor kit for wired remote controller			FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	
	Temperature sensor kit for wired remote controller			FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	
Wiring Adaptors (PCB's)	Installation box adatptor PCB	KRP1H98A	KRP1BB101						
	Wiring adaptor for optional functions	KRP2A52 KRP4A53	KRP2A52 KRP4A53						
	Rmote On/Off		EKROROA						
	MODBUS PCB	EKFCMBCB	EKFCMBCB						
	Wiring Adaptor PCB for Valve Control	EKRP1C11	EKRP1C11						
Centralised control systems	Central Remote Control	DCS302CA51	DCS302CA51						
	Unified ON/OFF Control	DCS301BA51	DCS301BA51						
	Schedule Timer	DST301BA51	DST301BA51						
Building management system & standard protocol interface	Intelligent Touch Manager	DCM601A5A	DCM601A5A						
	Intelligent Touch Controller	DCS601C51C	DCS601C51C						

Numbers in brackets refer to FCU model size.

Options & accessories - Fan coil units: Valves

INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWZ-AT/AF	FWR-AT/AF	FWS-AT/AF	FWP-CT/CF	FWN-AT/AF	FWT-GT
On/Off Valves 230v	3 Way 230v On/Off Valve Kit (2 Pipe)	EKMV3C09B	EKMV3C09B	E2MV03A6 (02,03,06) E2MV10A6 (08)	E2MV03A6 (02,03,06) E2MV10A6 (08)	E2MV03A6 (02,03,06) E2MV10A6 (08)	E4V2N05OV3WA (04,05) E4V2N08OV3WA (06,08) E2MV10A6 (10-17)	ED2MV04A6 (04,05) ED2MV10A6 (06- 10) ED2MV18A6 (12-18)	
	3 Way 230v On/Off Valve Kit (4 Pipe)	2 No. EKMV3C09B	2 No. EKMV3C09B	E4MV03A6 (02,03,06) E4MV10A6 (08)	E4MV03A6 (02,03,06) E4MV10A6 (08)	E4MV03A6 (02,03,06) E4MV10A6 (08)	E4V2N05OV3WA + E4VHN08OV3WA (04,05) E4V2N08OV3WA + E4VHN08OV3WA (06,08) E2MV10A6 + E4VHN17OV3WA (10-17)	ED4MV04A6 (04,05) ED4MV10A6 (06-10) 2 No. ED2MV18A6 (12-18)	
	2 Way 230v On/Off Valve Kit (2 Pipe)	EKMV2C09B	EKMV2C09B	E2MV2B07A6 (02,03,06) E2MV2B10A6 (08)	E2MV2B07A6 (02,03,06) E2MV2B10A6 (08)	E2MV2B07A6 (02,03,06) E2MV2B10A6 (08)	E2MV2B07A6 (04-08) E2MV2B10A6 (10-17)	ED2MV2B04A6 (04) ED2MV2B10A6 (06-10) ED2MV2B18A6 (12-18)	
	2 Way 230v On/Off Valve Kit (4 Pipe)	2 No. EKMV2C09B	2 No. EKMV2C09B	2 No. E2MV2B07A6 (02,03,06) E2MV2B10A6 + E2MV2B07A6 (08)	2 No. E2MV2B07A6 (02,03,06) E2MV2B10A6 + E2MV2B07A6 (08)	2 No. E2MV2B07A6 (02,03,06) E2MV2B10A6 + E2MV2B07A6 (08)	2 No. E2MV2B07A6 (04-08) E2MV2B10A6 + E2MV2B07A6 (10-17)	ED4MV2B04A6 (04,05) ED4MV2B10A6 (06-10) 2 No. ED2MV2B18A6 (12-18)	
Pressure Independent C ontrol Valves (PICV)	Pressure Independent Control Valves 230v On/Off (2 Pipe)			FWZSVPIC2V15 (02) FWZSVPIC2V20 (03,06) FWZSVPIC2V25 (08)	FWZSVPIC2V15 (02) FWZSVPIC2V20 (03,06) FWZSVPIC2V25 (08)	FWZSVPIC2V15 (02) FWZSVPIC2V20 (03,06) FWZSVPIC2V25 (08)	FWBPVPIC2V15 (04-06) FWBPVPIC2V20 (8,10) FWBPVPIC2V25 (11-17)	FWDNVPIC2V20 (04-07) FWDNVPIC2V25 (08,10) FWDNVPIC2V32 (12-18)	
	Pressure Independent Control Valves 230v On/Off (2 Pipe)			FWZSVPIC2V1515 (02) FWZSVPIC2V2015 (03,06) FWZSVPIC2V2520 (08)	FWZSVPIC2V1515 (02) FWZSVPIC2V2015 (03,06) FWZSVPIC2V2520 (08)	FWZSVPIC2V1515 (02) FWZSVPIC2V2015 (03,06) FWZSVPIC2V2520 (08)	FWBPVPIC2V1515LF (04,05) FWBPVPIC2V1515 (06) FWBPVPIC2V2015 (8,10) FWBPVPIC2V2515 (11-17)	FWDNVPIC2V2015 (04-07) FWDNVPIC2V2520 (08,10) FWDNVPIC2V3220 (12-18)	

Numbers in brackets refer to FCU model size.

Options & accessories - Fan coil units: Others

INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWZ-AT/AF	FWR-AT/AF	FWS-AT/AF	FWP-CT/CF	FWN-AT/AF	FWT-GT
Others	Electric Heater			EEH02A6 (02) EEH03A6 (03) EEH06A6 (06) EEH10A6 (08)	EEH02A6 (02) EEH03A6 (03) EEH06A6 (06) EEH10A6 (08)	EEH02A6 (02) EEH03A6 (03) EEH06A6 (06) EEH10A6 (08)	EH060V3A (04,05) EH100V36A (06,08) EH200V36A (10-17)	EDEH04A6 (04) EDEHS06B6 (06) EDEHS10B6 (08,10) EDEHS12B6 (12) EDEHS18B6 (16,18)	
	Fresh Air Intake Kit	KDDP55C160-1 + KDDP55D160-2	KDDQ44XA60	EFA02A6 (02) EFA03A6 (03) EFA06A6 (06) EFA10A6 (08)	EFA02A6 (02) EFA03A6 (03) EFA06A6 (06) EFA10A6 (08)	EFA02A6 (02) EFA03A6 (03) EFA06A6 (06) EFA10A6 (08)		EDMFA04A6 (04) EDMFA06A6 (06) EDMFA10A6 (08,10) EDMFA12A6 (12) EDMFA18A6 (16,18)	
	Long Life Filter		KAFQ441BA60						
	G4 Filter Kit						FG4T1AA (04,05) FG4T2AA (06,08) FG4T3AA (10-17)	FSDG404A (04) FSDG406A (06) FSDG408A (08,10) FSDG412A (12) FSDG416A (16,18)	
	Supporting Feet			ESFV06A6 (02,03,06) ESFV10A6 (08)	ESFV06A6 (02,03,06) ESFV10A6 (08)	ESFV06A6 (02,03,06) ESFV10A6 (08)			
	Supporting Feet & Grille			ESFVG02A6 (02) ESFVG03A6 (03) ESFVG06A6 (06) ESFVG10A6 (08)	ESFVG02A6 (02) ESFVG03A6 (03) ESFVG06A6 (06) ESFVG10A6 (08)	ESFVG02A6 (02) ESFVG03A6 (03) ESFVG06A6 (06) ESFVG10A6 (08)			
	Front Air Intake					CONV02A6 (02) CONV03A6 (03) CONV06A6 (06) CONV10A6 (08)	EDFAI04A (04,05) EDFAI06A (06,08) EDFAI10A (11-17)		
	Plenum Box With Rectangular Connection							PCIC04A6 (05,05) PCIC06A6 (06,07) PCIC08A6 (08,10)	
	Plenum Box With Circular Spigots							PRD04A6 (04,05) PRD06A6 (06,07) PRD08A6 (08,10)	
	Plenum Box (Un-Insulated) With Circular Spigots (Supply Air)						PLT1NAA (04,05) PLT2NAA (06,08) PLT3NAA (11-17)		
	Plenum Box (Insulated) With Circular Spigots (Supply Air)					EPCC02A6 (02) EPCC03A6 (03) EPCC06A6 (06) EPCC10A6 (10)	PLT1CAA (04,05) PLT2CAA (06,08) PLT3CAA (11-17)		
	Plenum Box (Insulated) With Circular Spigots (Return Air)					EICC02A6 (02) EICC03A6 (03) EICC06A6 (06) EICC10A6 (10)			
	Cover Box For Electrical Connections						FWBOX		
	Vertical Auxiliary Drain Tray			EDPVB6	EDPVB6	EDPVB6		EDDPV10A6 (04-10) EDDPV18A6 (12-18)	
	Horizontal Auxiliary Drain Tray			EDPHB6	EDPHB6	EDPHB6	EDPD7 (04-08) EDPD9 (10-17)	EDDPH10A6 (04-10) EDDPH18A6 (12-18)	
	Condenste Drain Pump	Included	Included	CDRP1A	CDRP1A	CDRP1A	CDRP1A	CDRP1A	

Numbers in brackets refer to FCU model size.


DAIKIN
CORRENTE ELETTRICA

Table of contents

Control Systems

Daikin mAP

Digital interface for your HVAC equipment

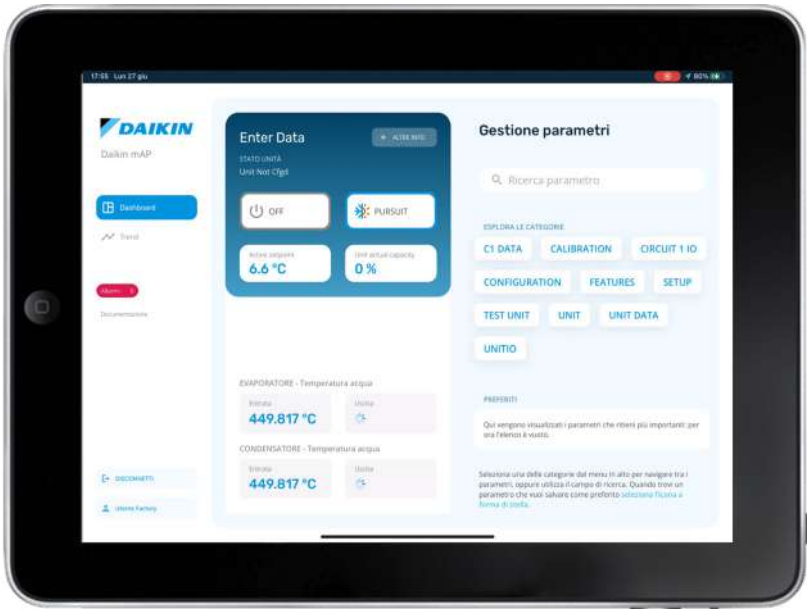
The Daikin mAP is the brand-new Digital HMI solution for all Daikin Applied products, designed to let end-users and technician operate easily and effectively from their smartphone or tablet while performing field activities.

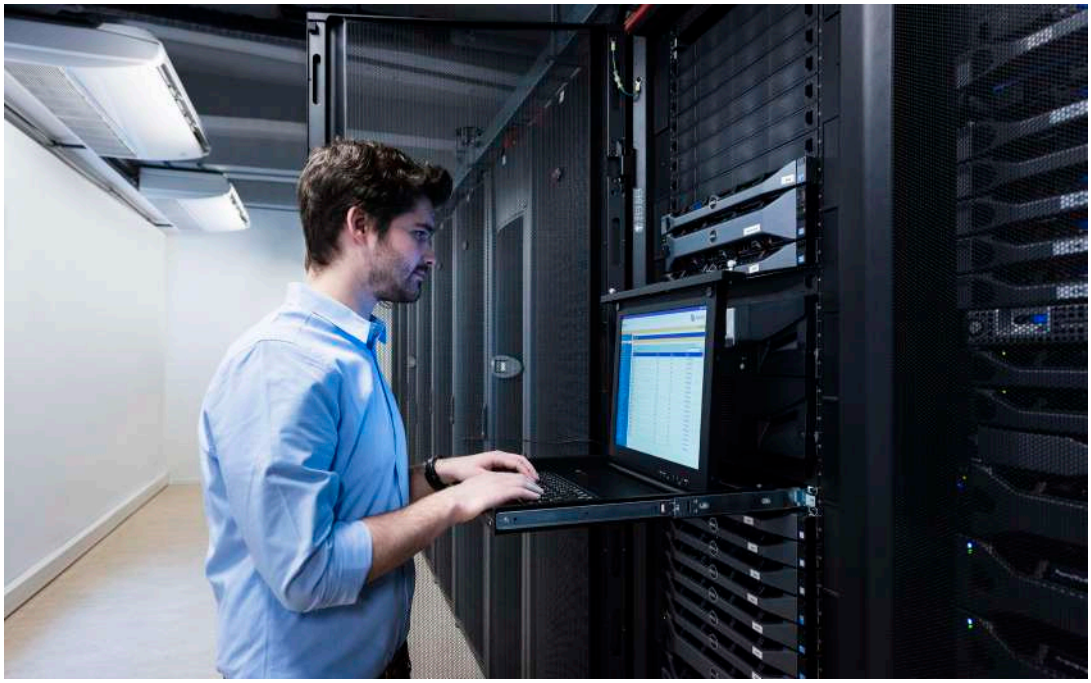
Daikin mAP

NEW

Digital Interface

Our user-friendly digital interface ensures seamless operation on smartphones and tablets. Simplify field activities with intuitive controls and effortless connectivity, all at your fingertips.





Control

Change settings and control parameters with more flexibility.

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

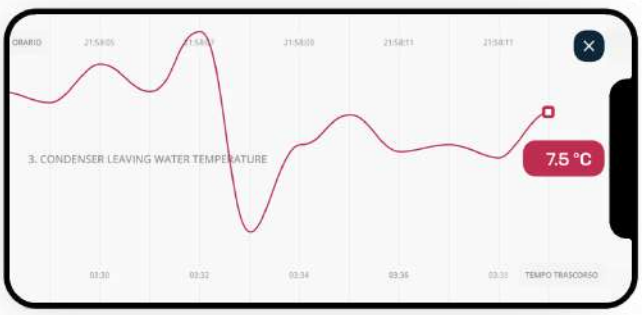
Select

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

intelligent touch Manager

Mini BMS

with full integration across all product pillars

DCM601B51

intelligent touch Manager

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

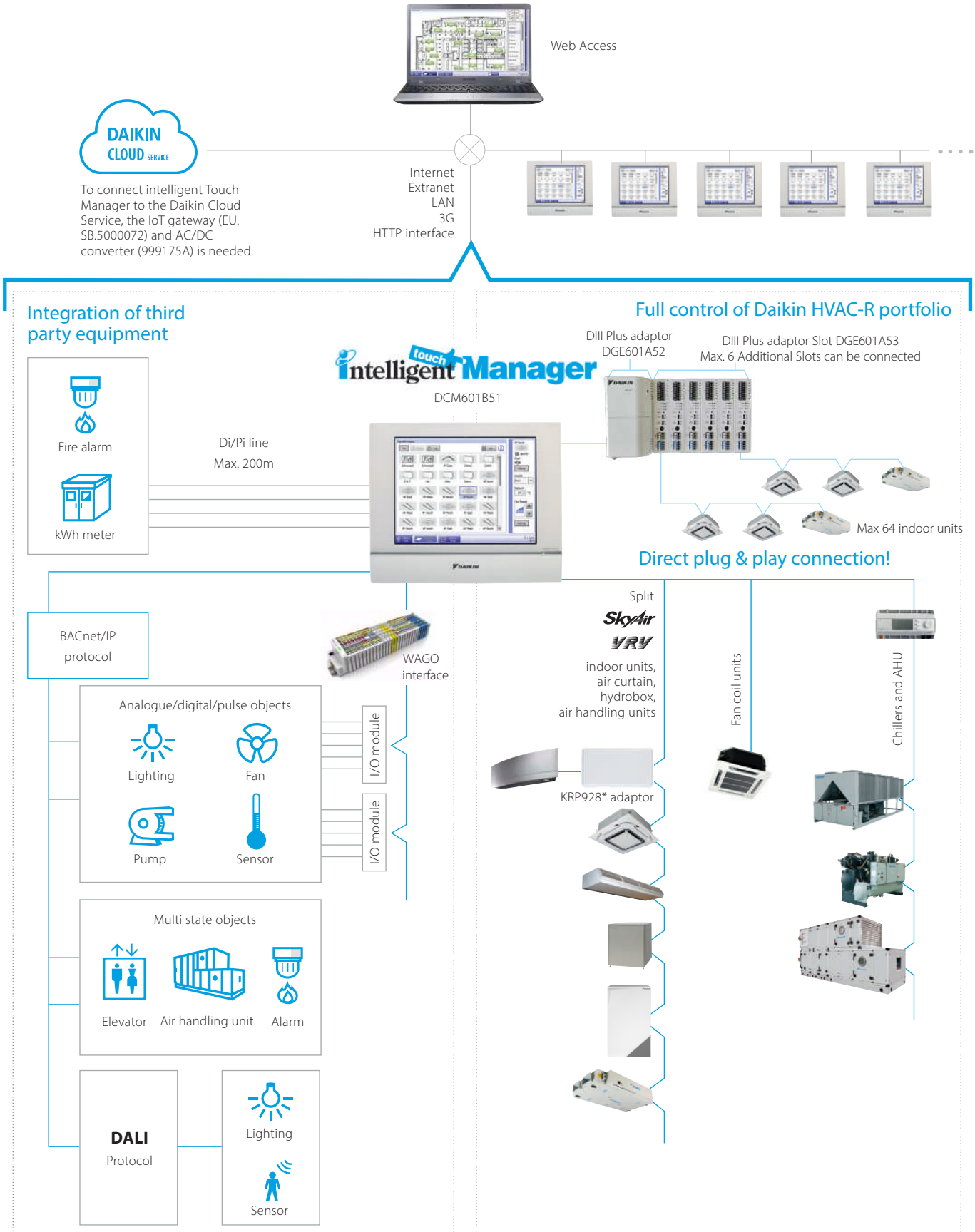
Download the WAGO selection tool from my.daikin.eu

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

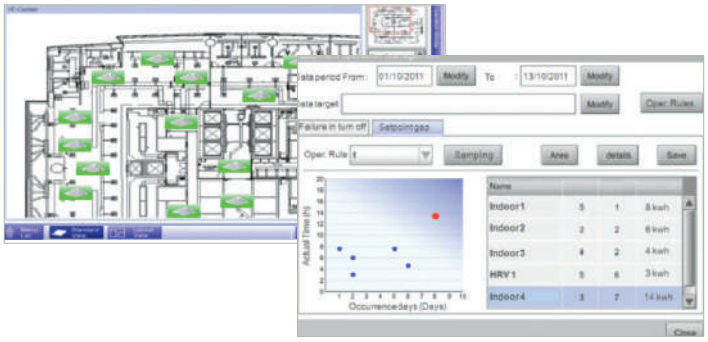
Check on YouTube

https://www.youtube.com/DaikinEurope

System overview



touch intelligent Manager



User friendly

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

Smart energy management

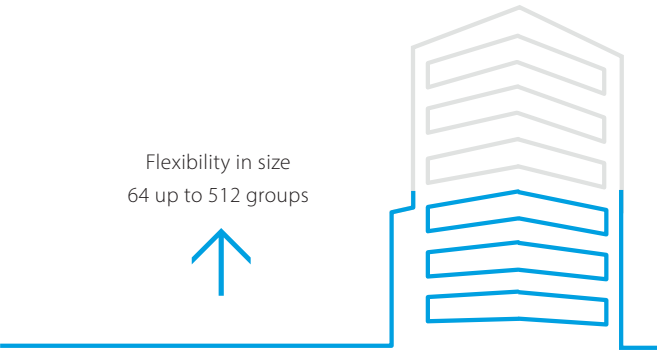
› Monitoring if energy use is according to plan
› Helps to detect origins of energy waste
› Powerful schedules guarantee correct operation throughout the year
› Save energy by interlocking A/C operation with other equipment such as heating
› Peak Power Cut off Control: Activating this feature in schedule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

Flexibility

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

Easy servicing and commissioning

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



Plug & play


Split


SkyAir


VRV

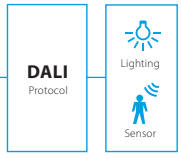

Fan coils

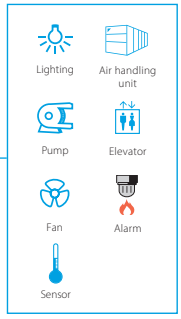

Chillers and AHU

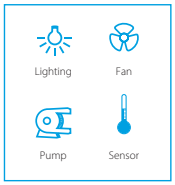

HRV ventilation

BACnet/IP protocol


WAGO I/O







Functions overview

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

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

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

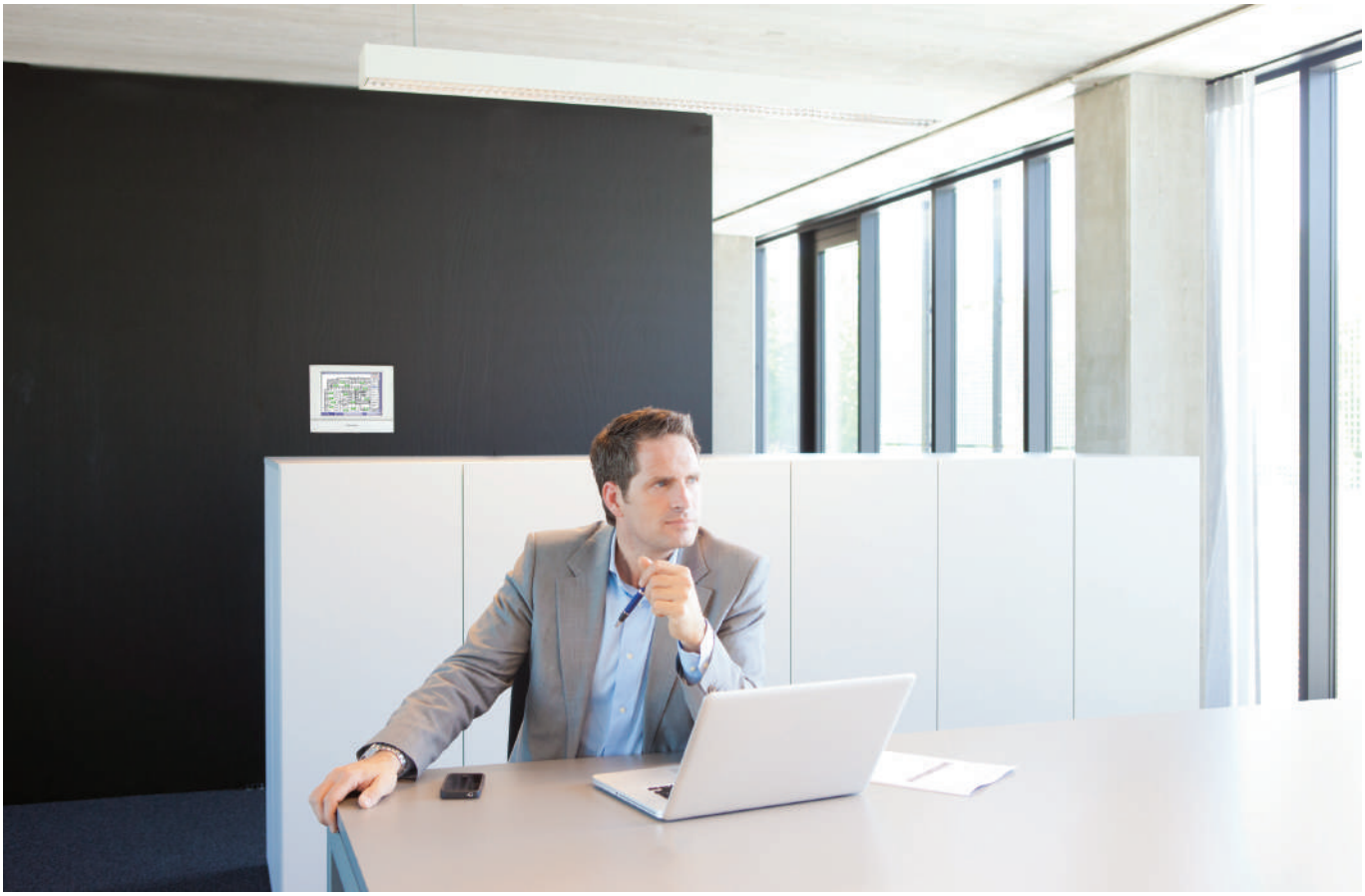
Open http interface
- Communication to any third party controller (domotics, BMS, etc.) is possible via http open interface (http option DCM007A51)

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

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

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

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



Daikin Applied Europe

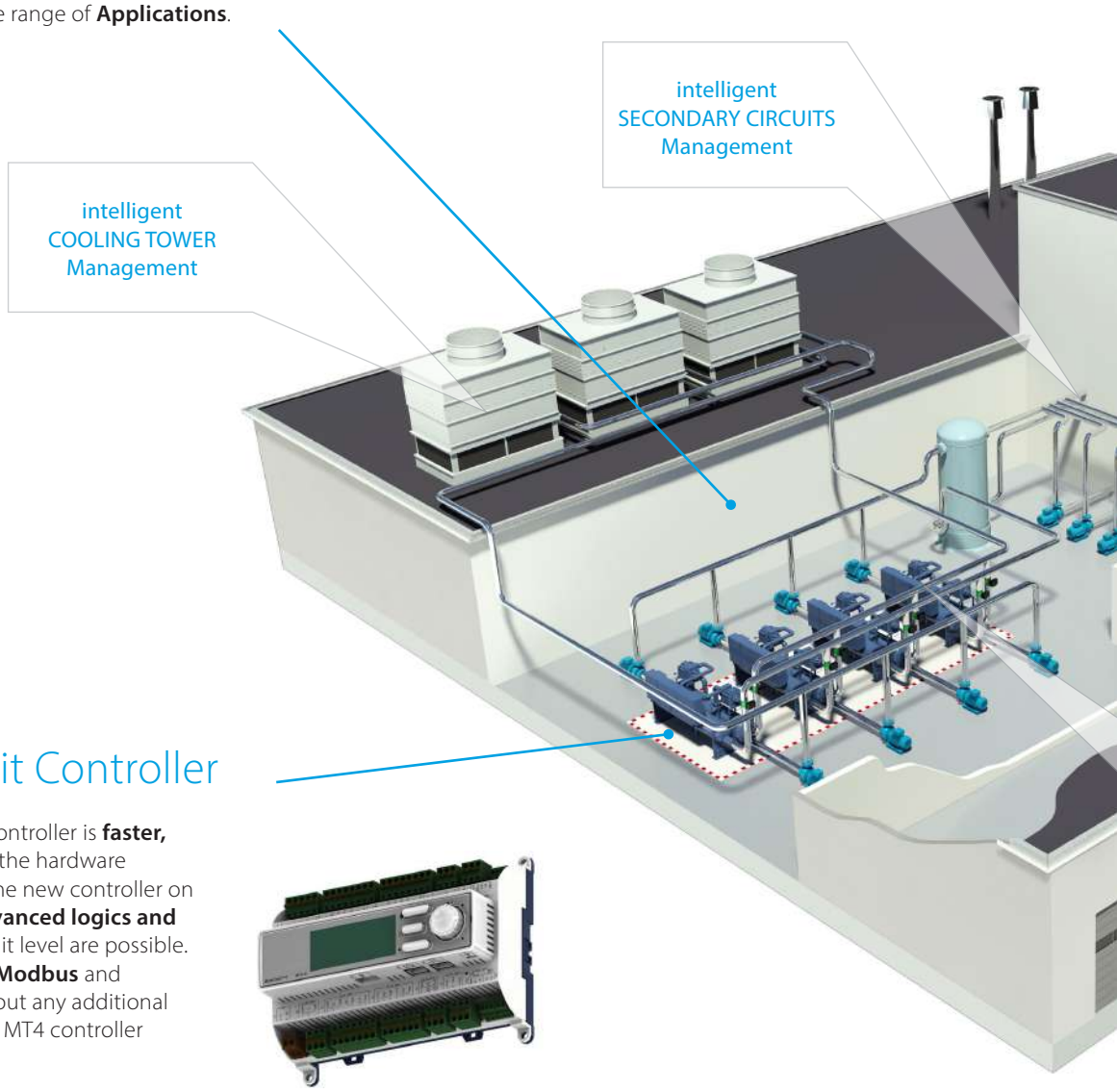
Control Solutions

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 integrates 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**



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.

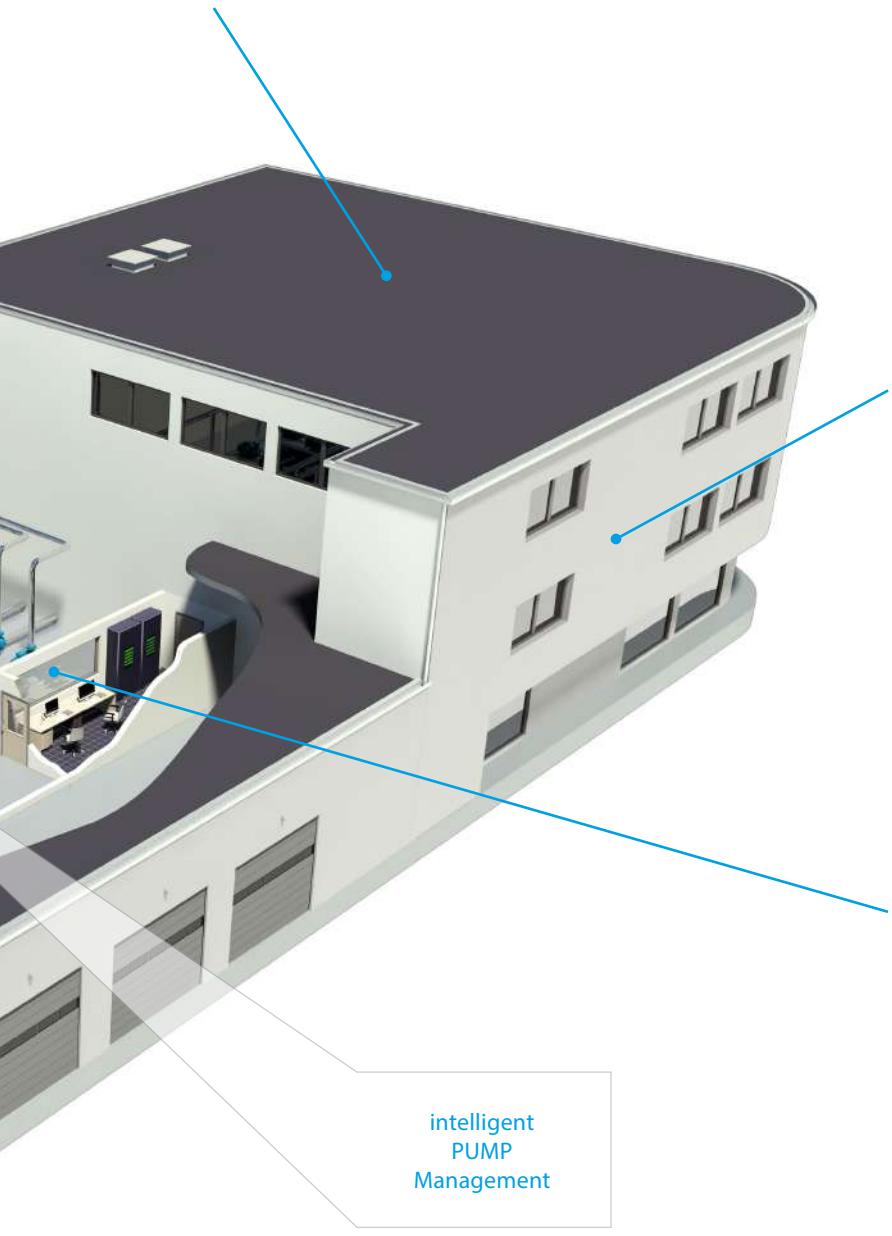
Daikin on Site

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



Building management system Integration

With MT4 unit the communication protocols such as **Modbus** and **BACNet** are available directly from the controller and activated from the 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.**

Chiller Intelligent Manager

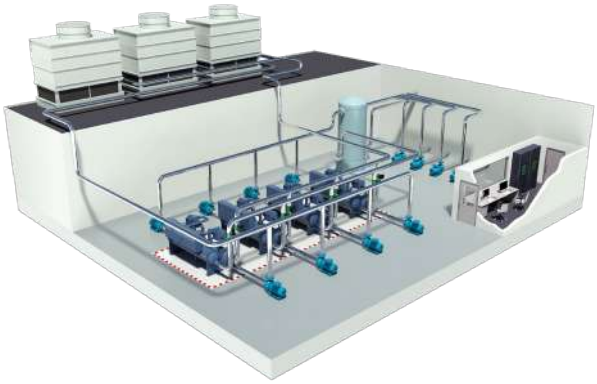
Factory-engineered system control to manage a chiller plant room

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

iCM's main functionalities:

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

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



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

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

Min/Max Operating Chiller Setting
Ensures that the number of operating chillers always **stays within a certain range,** regardless of changes in demand.

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

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

Cooling Tower Optimization
Control and 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.

Why choose iCM?

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

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

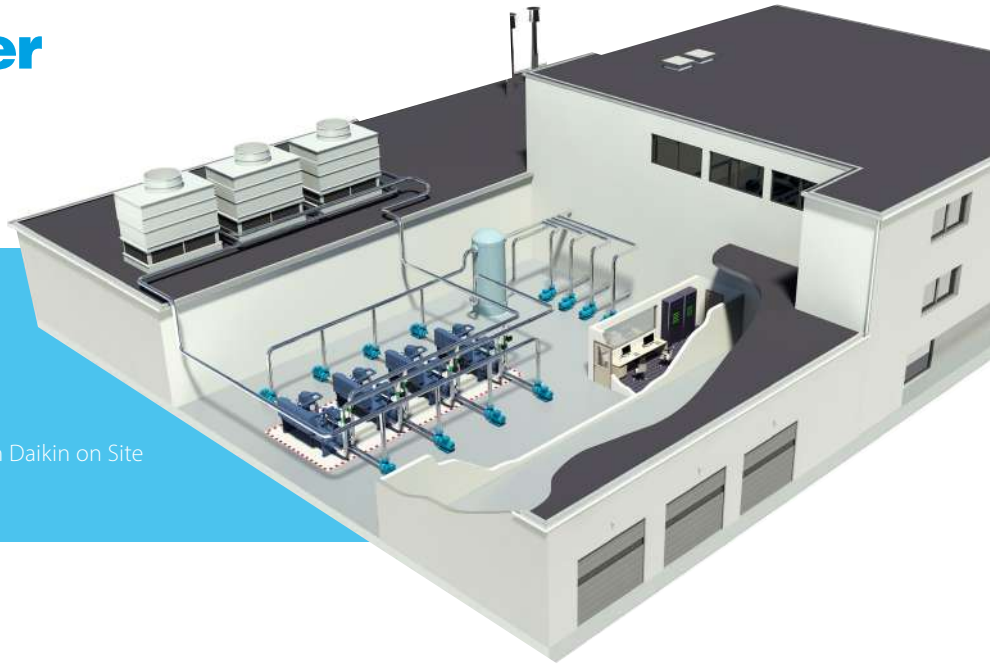
Remote control and monitoring possibilities

(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

Chiller Intelligent Manager



Key Benefits

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

Control strategies

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

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

Control options

iCM can manage:

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

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

For Daikin units 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

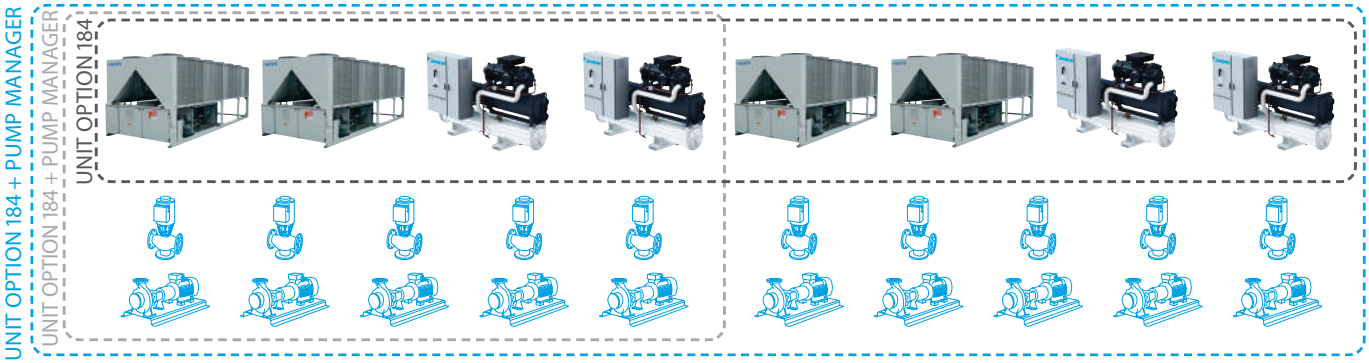
intelligent Chiller Manager

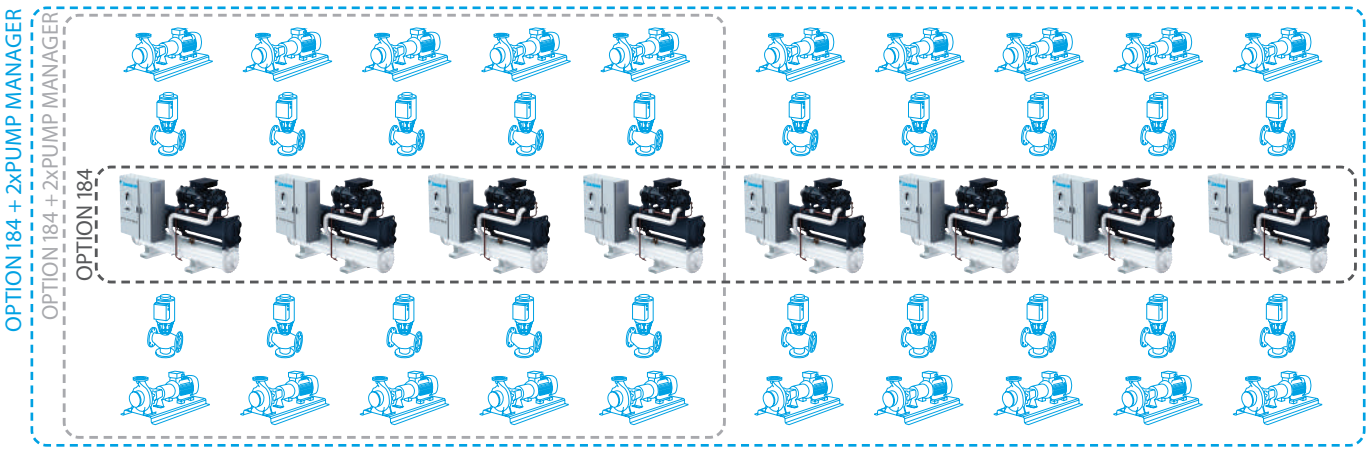
iCM as unit option 184 (up to 16 with iCM expanded kit):
› Up to 8 daikin chillers
› Mixed systems (Chiller + heat pumps or chillers + multipurpose)
› Heating/cooling operating modes
› Heat recovery and Free cooling management
› Units with modulable and step capacity control

Intelligent Pump Manager:
› Up to 5 dedicated or manifolded pumps (evaporator or condenser)
› Up to 10 dedicated or manifolded pumps (evaporator or condenser)

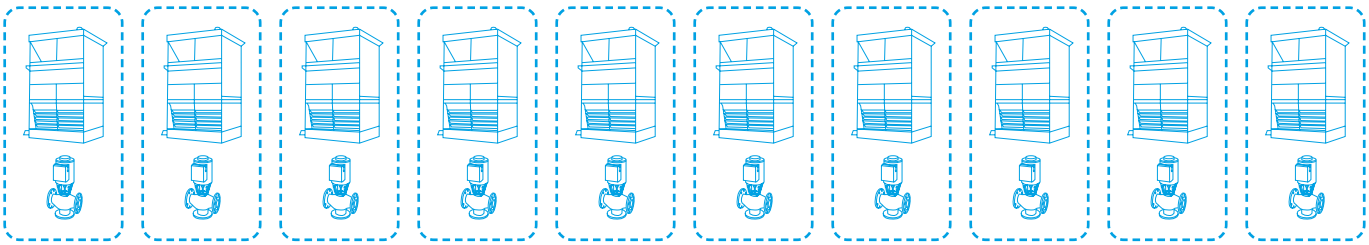
Intelligent Cooling Tower Manager:
› Up to 10 manifolded cooling towers (available with Pump Manager at the condenser side)

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 condensor side)



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

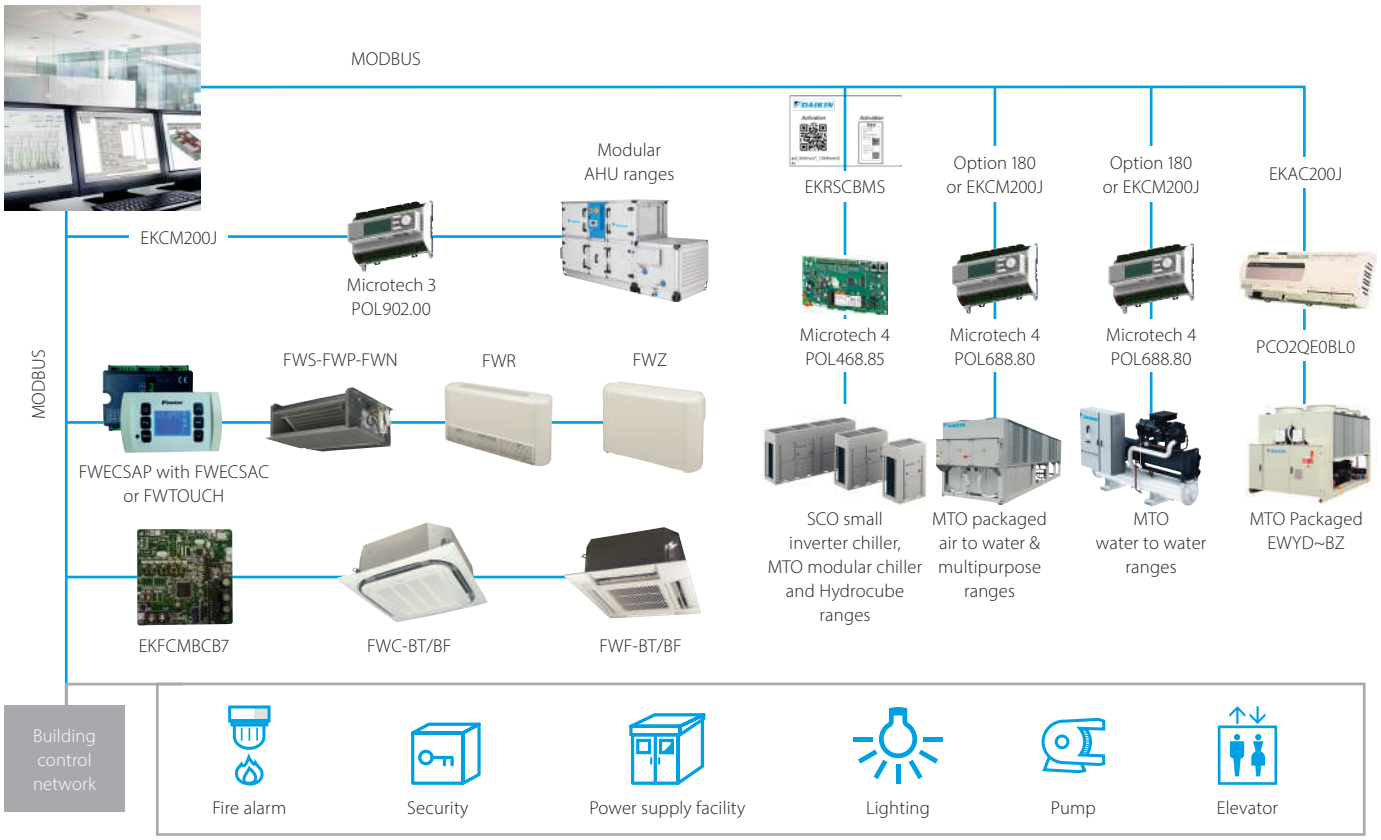

DAIKIN

Modbus interface

EKRSCBMS / EKAC200J / EKCM200J

› Interface for BMS system
› Communication via MODBUS protocol (connection via RS485)
› Easy and fast installation

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

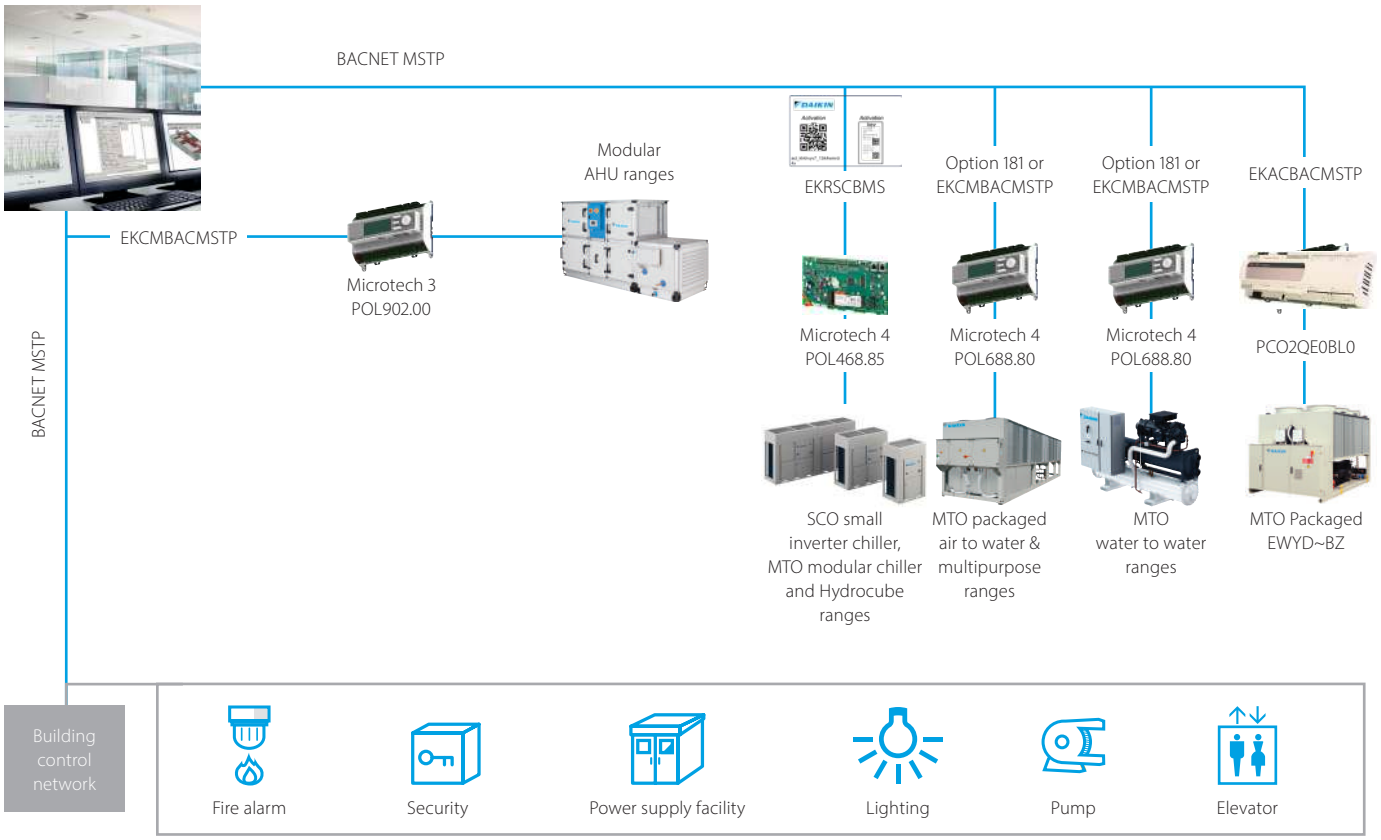


BACNET MSTP interface

EKRSCBMS / EKCMBACMSTP / EKACBACMSTP

› Interface for BMS system
› Communication via BACnet protocol (connection via Ethernet)
› Unlimited site size
› Easy and fast installation

Integrate chillers and air handling units in BMS systems via BACNET MSTP protocol

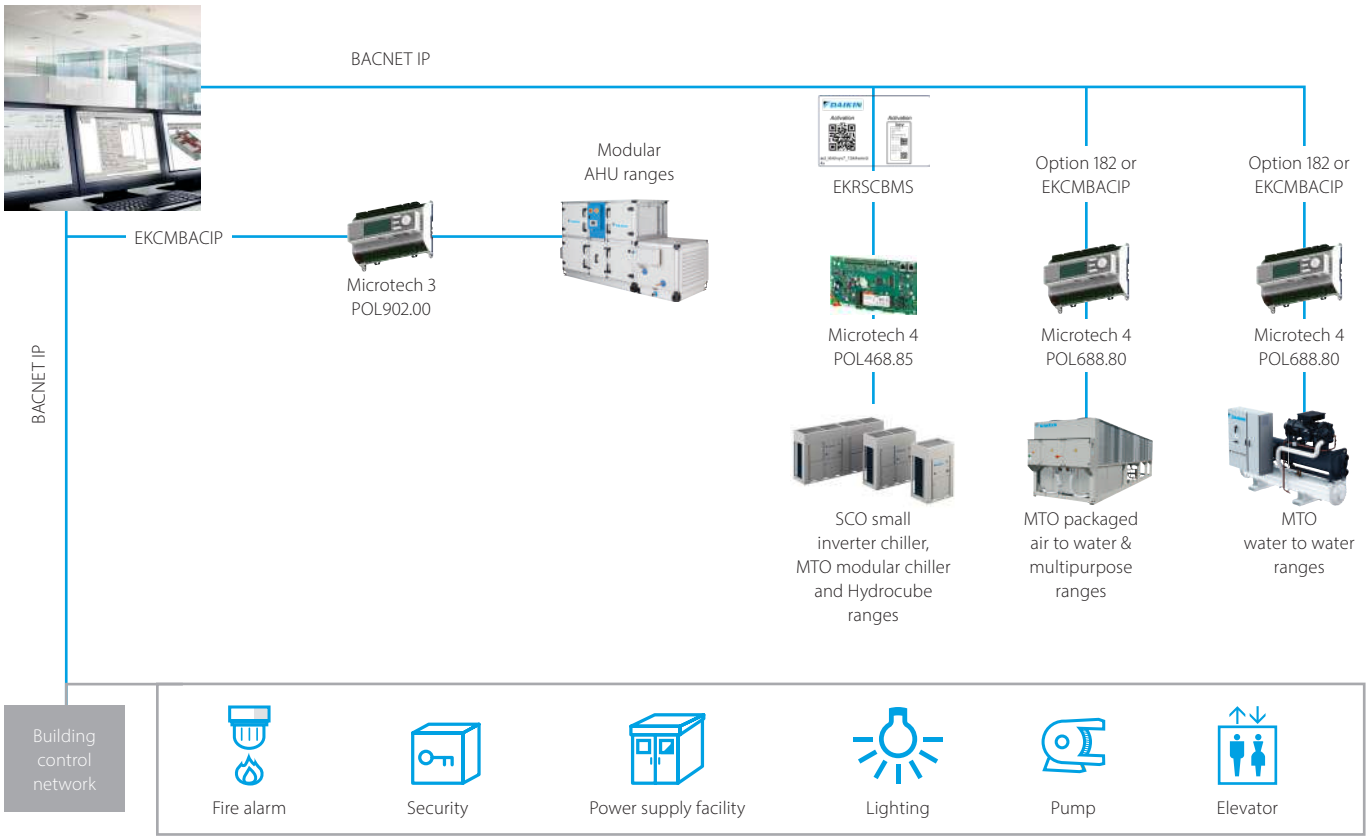


BACNET IP interface

EKRSCBMS / EKCMBACIP

› Interface for BMS system
› Communication via BACnet protocol (connection via Ethernet)
› Unlimited site size
› Easy and fast installation

Integrate chillers and air handling units in BMS systems via BACNET IP protocol



Daikin on Site (DoS)

Remote service levels

Level	Delivery
Alerts and web application	• 24/7/365 automated alarm and event monitoring by customers themselves • Automated notification via email to customers • Access to Daikin on Site web application
Active monitoring	• Remote alarm analysis and diagnostics by Daikin Affiliate Experts • Smart mobilisation of authorised service personnel
Connected Service Plan	• Remote alarm analysis and diagnostics by Daikin Affiliate Experts • Smart mobilisation of authorised service personnel • Complemented with a Daikin Service Plan

	DoS PREMIUM	DoS PARTNER
Access to unit parameters	FULL PARAMETERS	MAIN PARAMETERS
Dashboard and Web graphics	DETAILED UNIT'S WEB GRAPHICS	DASHBOARD INCLUDED
Core features	INCLUDED	INCLUDED
Advanced features	INCLUDED	NOT INCLUDED
Target Market	Daikin Affiliates	Service Companies

Features & Compatibilities

Main Feature List	PARTNER	PREMIUM
Datapoints	up to 200	up to 500
History	1-year	10-years
Reporting	✓	✓
API access	Internal Use	Internal Use
Core Features		
Map & KPI		✓
Remote Alarm Notification	✓	✓
Alarm Dashboard	✓	✓
Datapoint List	✓	✓
Web Graphics		✓
Dashboard	✓	✓
Trend Viewer	✓	✓
Scheduler	✓	✓
Web Access	✓	✓
Advanced features		
Leak Detection		✓
Trend Analysis		✓
Predictive maintenance		✓
Optimization		✓

Quotation and order process

› An monthly access fee is invoiced to affiliates for each connection. For additional info, contact DENV **fqs.servicebusiness@daikineurope.com**
› Invoicing starts as of activation of a connection by the affiliate DoS key-user.
› Dos Partner is based on yearly fee.
› Dos Premium is based on monthly fee.
› Affiliates offer local annual contracts into the market, based on the above proposed levels.
› To access the DEMO PLANT, please contact **fqs.servicebusiness@daikineurope.com**

Benefits

› Peace of mind, with control over operation and maintenance budgets.
› Control and measuring: remote site assessment, relevant dashboards, access to real-time and historical data from anywhere, whenever needed.
› Optimal performance: team-up with Daikin's expertise, quick alarm resolution, remote service and software updates.
› Energy efficiency: enhanced control (remote control and master-slave), energy metering
› Available as standalone (access only) or fully integrated in Daikin's Service Plans.

Suitability

› Daikin on Site is a multi-feature platform. It has the ambition to be a collaborative platform for all people managing the operation and maintenance of the chiller plants and/or AHUs.
› DoS Premium → Direct Service Business for Affiliates
› Include advanced features
› DoS Maint → Service partners or Facility managers
› Specific products for Service Partners

Practicals

› No hardware investment required.
› Easy commissioning.
› Annual access fee per connection (pay per use).
› Unlimited users per connection allowed.
› Different access roles for operators, trained service and Daikin.
› Internet and data privacy secure.

☑ Connectivity

Chillers MT3 & MT4 controlled chillers		
 	› Chiller software is 'DoS ready'. › No extra hardware required.	Find the overall DoS software release planning in the compatibility list on **www.mydaikin.eu**
AHU – MT3 controlled		› New chillers: delivered from factory 'DoS ready'.
	› Uses IP port of controller to connect to LAN or modem.	Installed base: › Chiller software update is required; see compatibility list on **www.mydaikin.eu.**
Chillers MT2 controlled		
	› Unique device for any MTII controlled Unit. › New features, as the possibility to control additional sensors. › Possibility to connect the unit with BMS of the customer.  ALC DC8	ALC DC8 EU.SB.5000081 Unified version of Gateway to connect chillers controlled by MTII (Carel pCO_2-pCO3-pCO5) to DoS. Supersede existing models: EU.SB.5000052 EU.SB.5000001 EU.SB.5000004
iCM embedded – Chiller plant manager		
	› ICM is DoS-ready. › No extra hardware required. › Uses IP port of controller to connect to LAN or modem.	Look for iCM documentation on my.daikin.eu
Measurement and Monitoring kit for targeted energy audit		
	› M&M is DoS-ready. › No extra hardware required. › Uses IP port of controller to connect to LAN or modem.	Look for sales index 'target energy audit'.

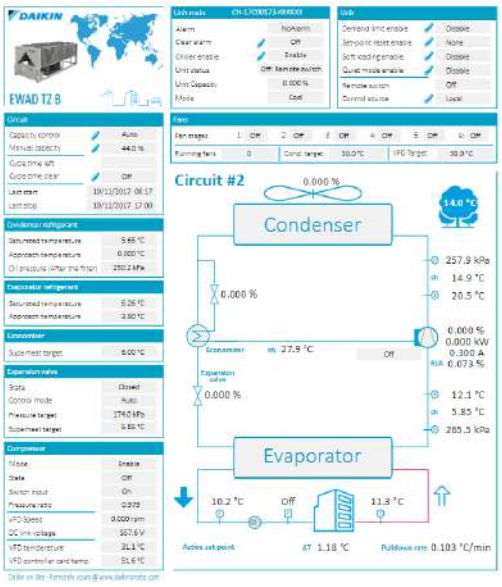
A compatibility table is available on Daikin Extranet.
If you do not find it, then **fqs.servicebusiness@daikineurope.com** and **fqs.technicalsupport@daikineurope.com** will assist you.

The table provides information of required hardware, software and monitoring features for each chiller model.

☑ Roles and access levels

Plant Dashboard	Plant Dashboard	Plant Dashboard	Plant Dashboard
Data points	Data points	Data points	Data points
Alarms	Alarms	Alarms	Alarms
Web graphic	Web access	Web access	Web access
History	Web graphic	Web graphic	Web graphic
Schedulers	History	History	Upgrade
Documentation	Schedulers	Schedulers	Schedulers
	Documentation	Documentation	Tasks
			Documentation
			Plant settings

☑ Few screenshot examples (more on Daikin on Site)

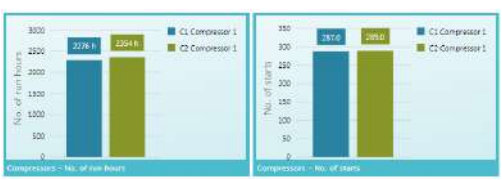


Circuit overview – real-time data

For maintenance check and diagnostics.

Plant overview, with real-time data

Full insight in the plant operation for commissioning and optimization.



Pre-engineered dashboards for each user role.
Easy customizable by each user.

Historical data: select parameters, select period, zoom, …
Full insight in the equipment operation for diagnostics and optimization.

☑ Periodic reports

1

2

3

Heat recovery ventilation unit Modular L – ALB*
1.04 STORAGE

4

- Install with pre-heater ALD07LEPH01 (left) or ALD07REPH01 (right).
- Install with CO2 sensor ALC00UC2S01

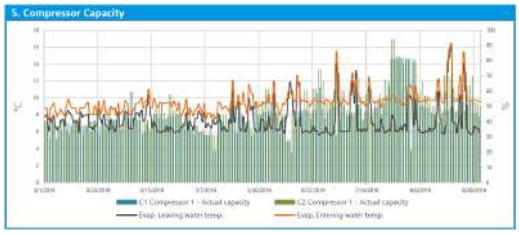
Left connection: ALB-RA

5

6

7

8



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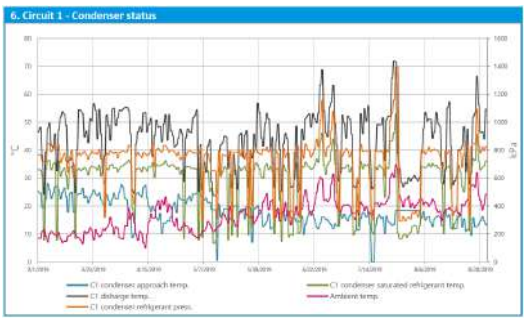

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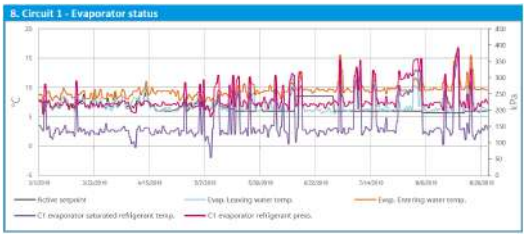

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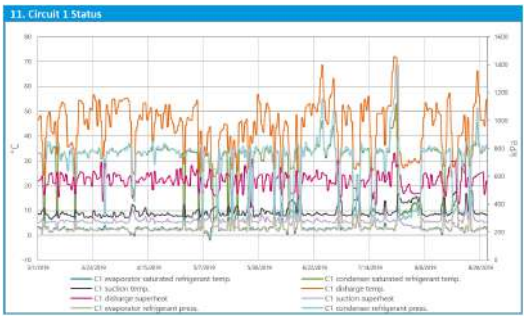

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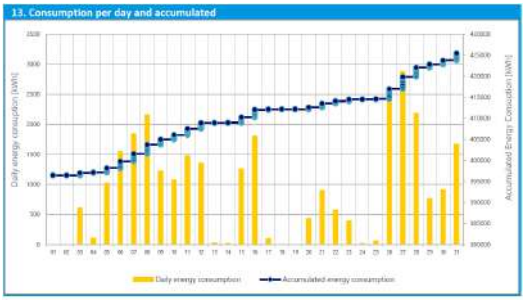


13

Periodic reports on the unit for the last 1 and 6 months.

Data displayed:
1. Overall unit status
2. Component status and recommendations
3. Unit status
4. Compressor running hours
5. Compressor starts
6. Compressor starts and working hours
7. Compressor capacity
8. Condenser status (per circuit)
9. Evaporator status (per circuit)
10. Evaporator pump - Run hours
11. Circuit status
12. Alarm history
13. Energy consumption per day and accumulated

More info on: https://my.daikin.eu/denv/en_US/home/service-and-solutions.html
Sharepoint for Reports download: https://denv.sharepoint.com/sites/DaikinonSiteReporting

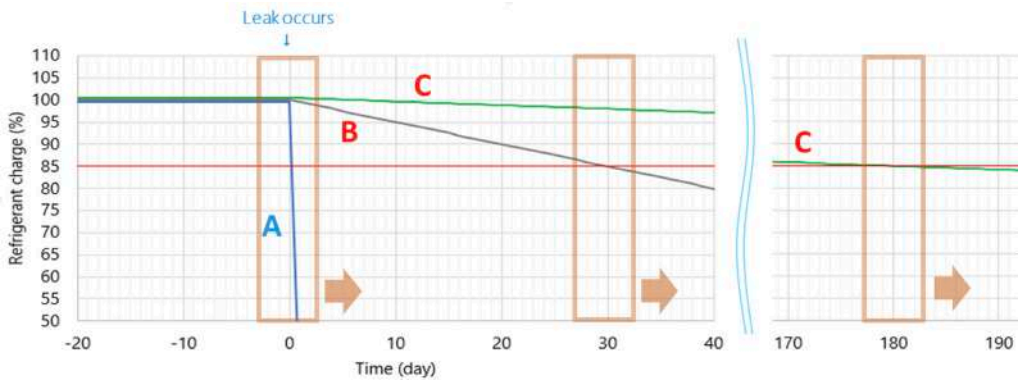
Leak detection function on DoS

☑ Description

Through an extensive analysis of working data of the unit, a Machine Learning algorithm will detect potential gas losses by notifying the Operator. The algorithm can detect losses that are in a range of 0-15% of the total amount of gas.

Automatically available on DoS PREMIUM plants → Tz units equipped with liquid temperature sensor.
In case of potential slow leakages, it notifies the operator raising an Alarm.
Through a dedicated section the Operator can see the status of the Unit and if the probability of a gas leakage.

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

Power supply

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

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

Conversion table refrigerant piping

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

F-gas regulation

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

Measuring conditions

Air conditioning

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

Applied systems

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

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

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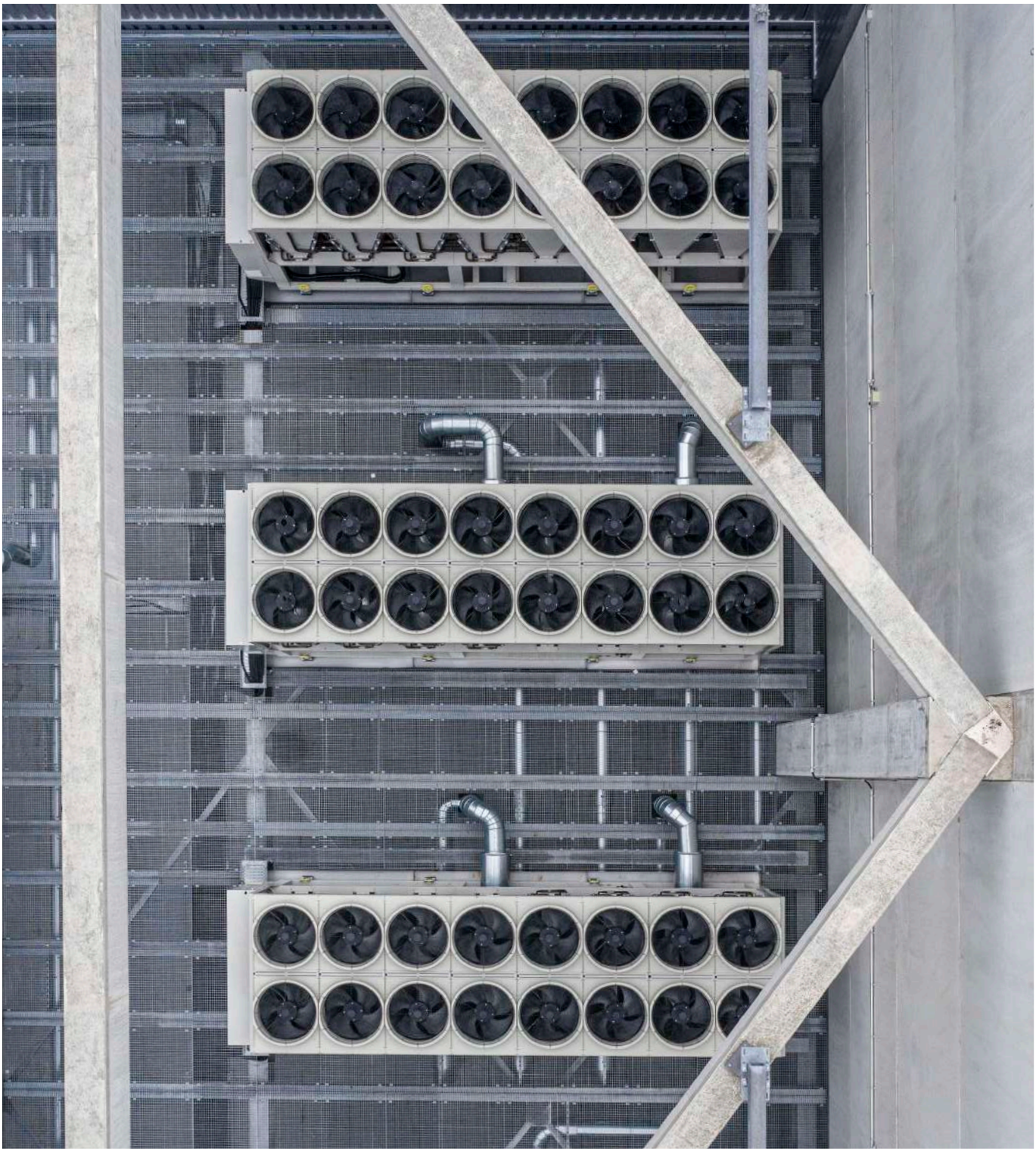

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Daikin Europe N.V participates in the Eurovent Certified Performance programme for Fan Coil Units and Variable Refrigerant Flow systems. Daikin Applied Europe S.p.A participates in the Eurovent Certified Performance programme for Liquid Chilling Packages, Hydronic Heat Pumps and Air Handling Units. Check ongoing validity of certificate: www.eurovent-certification.com

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