DAIKIN

DAIKIN APPLIED (UK) LTD

Technically better...

Applied Systems

Product catalogue 2022

High performance and reliability for comfort and process applications

AHUs

CHILLERS

PROJECTS

SERVICE

LinkedIn

Our promise...

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

We promise to dedicate ourselves to technological excellence, a design focus and the highest quality standards so that our customers can trust and rely on the comfort we deliver.
Our promise to the planet is absolute. Our products are at the forefront of low energy-usage and we will innovate to further reduce the environmental impact of HVAC-R (Heating, Ventilation, Air conditioning, Refrigeration) solutions. We lead where others follow.

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

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

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

Table of content

Daikin, your partner of choice 4
Tools and platforms 5
The best partner for your green project 6
Seasonal efficiency 7
Chiller modernisation 8
Day-to-day reliability and efficiency 10

Daikin chillers, the best choice 12
Why choose Daikin chillers? 14
Why choose Daikin Service? 15

Products overview 18

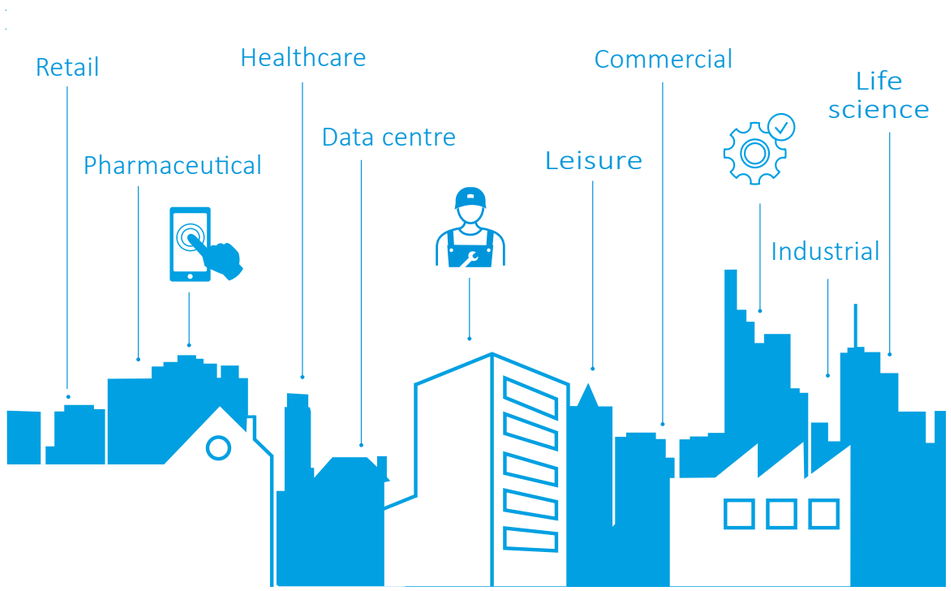
Chillers 22

Air cooled chillers 23
Air cooled chillers (Cooling only) 23
Air cooled chillers (Heat pump) 68
Multipurpose unit 84
Condensing unit 88

Water cooled chillers 90
Condenserless chillers 113
Centrifugal chillers 120
Accessories 128

Air handling units 130

Fan coil units 146



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

A partner of choice

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

The comfort of reliability

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

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

Daikin quality

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

Staff who understands you

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

Daikin Applied Development Center

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

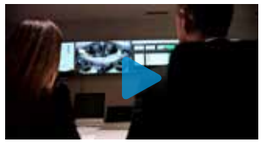
Find out more about the Daikin Applied Europe in the video below:

YouTube
www.youtube.com/
DaikinEurope

Witness Testing Chiller testing facilities Daikin Applied Europe

We are industry leaders in air cooled and water cooled chiller technologies. Our performance in each condition can be shared through witness tests. During witness testing even the toughest design conditions can be simulated. Customers and consultants can appreciate product performance before its delivery, ensuring "peace of mind" chiller integration in the whole project.
We have specific competencies and state of the art testing facilities to pursue these goals.

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



YouTube
www.youtube.com/
DaikinEurope

Tools and platforms

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

Selection software

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

Web-based chiller selection software

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

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

ASTRA Web

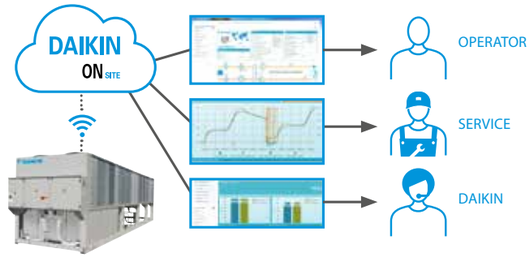
- Quick AHU selection that will save you precious time, drastically reducing selection time through the new software interface.
- Very competitive solution available within the Wizard thanks to pre-uploaded parameters.
- High selection quality, thanks to the intelligence embedded within the software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

Online support

Daikin on Site

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

Using this new tool results in optimum use and costs over the system's entire lifetime:
- enhanced control and measuring
- monitors the system
- reduces risks at the earliest possible moment
- keeps the system running as it was intended to



BREEAM®

Daikin, the best partner for your green project

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

93% percent of developers & investors consider green certification important

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

Property developers are setting high standards

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

HVAC-R systems play an important role

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

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

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

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

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

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

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

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

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

SEASONAL EFFICIENCY
Smart use of energy

Seasonal efficiency,

Smart use of energy

Challenging 20-20-20 environmental targets

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

European action plan 20-20-20

-20%
CO_2 emissions vs. 1990

20%
Share of renewable energy

-20%
Primary energy use vs. Business as usual

By the year 2020

Applied systems: products in scope

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

Our service

Daikin helps it partners to meet their obligations regarding the Ecodesign Directive and energy labelling. Labels, product and technical fiches for each individual product are available as downloads at any time from the Energy Label Generator at **https://www.daikin.eu/**

Chiller modernisation

Be smart – replace components, not systems

Fact: R-22 has been banned in Europe*

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

Our concept

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

Main benefits

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

Benefits for budget and risk management

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

Controller box upgrade

- Soft starter
- Inverter

Compressor upgrade

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

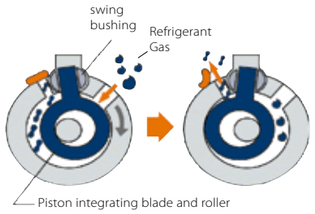
Day-to-day
reliability and efficiency

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

Inhouse development and manufacturing of compressors

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

Swing compressor



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

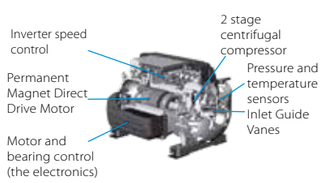
Scroll compressor for controlled capacity

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

Characteristics:

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

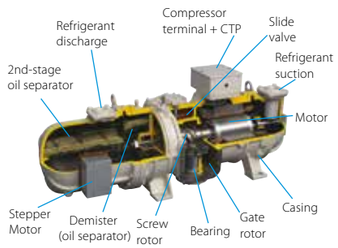
Innovative frictionless centrifugal compressor



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

The single-screw stepless compressor for high capacity

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



Characteristics:

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

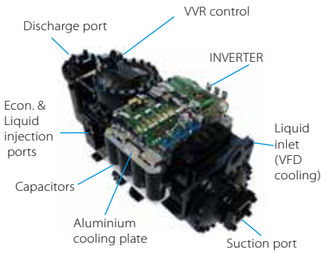
Screw compressor with integrated inverter

Characteristics:

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

Main benefits:

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



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.

Table of content

Chillers

Why choose Daikin chillers 14

Products Overview - Air cooled chillers, condensing units and Multipurpose units 18

Products Overview - Water cooled and condenserless chillers 20

Air cooled chillers cooling only 23
- EWAQ-BVP 23
- EWAA-DV3P 24
- EWAA-DW1P 25
- EWAA-DV3P-H 26
- EWAA-DW1P-H 27
- NEW EWAT-CZ 28
- NEW EWYT-CZ 31
- EWAD-CF 34
- EWAD-TZS 38
- EWAD-TZS 39
- EWAD-TZX 40
- EWAD-TZP 42
- EWAD-TZSSC2/SLC2 44
- EWAD-TZSRC2 45
- EWAD-TZXS 46
- EWAH-TZS 47
- EWAH-TZX 49
- EWAH-TZP 51
- EWAD-TZX 53
- EWAH-TZSSC2/SLC2 54
- EWAH-TZSRC2 55
- EWAH-TZXSC2/XLC2 56
- EWAH-TZXRC2 57
- EWAD-T-SSC/SLC 58
- EWAD-T-XSC/XLC 59
- EWAD-T-XRC 60
- EWAT-B-SSB/SLB 64
- EWAT-B-SRB 65
- EWAT-B-XSB/XLB 66
- EWAT-B-XRB 67

Air cooled chillers Heat pump 68
- EWYA-DV3P 68
- EWYA-DW1P 69
- EWYA-DW1P-H 70
- EWYA-DV3P-H 71
- EWYT-B-SS/SL 74
- EWYT-B-SR 75
- EWYT-B-XS/XL 76
- EWYT-B-XR 77
- EWYQ-BVP 79
- SEHVX-BW/SERHQ-BW1 80
- EWYD-BZSS 82
- EWYD-BZSL 83

Multipurpose unit 84
- EWYD-4ZXSB2 85
- EWYD-4ZXRB2 86

Air cooled condensing unit 88
- ERAD-E-SS 88
- ERAD-E-SL 89

Water cooled chillers 90
- EWWQ-KBW1N 90
- EWHQ-G-SS 92
- EWWQ-G-SS 93
- EWWQ-L-SS 94
- EWWD-J-SS 95
- EWWH-J-SS 96
- EWWS-J-SS 97
- EWWD-VZ 100
- EWWH-VZ 104
- NEW EWWS-VZ 108
- EWLQ-KBW1N 111

Condenserless chillers 113
- EWLQ-G-SS 113
- EWLQ-L-SS 114
- EWLD-J-SS 115
- EWLH-J-SS 116
- EWLS-J-SS 117
- EWLD-I-SS 118

Water cooled centrifugal chillers 120
- EWWD-DZ 120
- EWWH-DZ 122
- EWWS-DZ 124
- DWSC B vintage / DWDC B vintage 126
- NEW DWSC C vintage 127

Accessories 128

Daikin chillers

Why choose Daikin chillers?

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

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

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

The widest and most flexible chiller portfolio

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

Worldwide experience in chiller design and manufacturing

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

The highest efficiency for every installation

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

Quality and reliability

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

Benefits for installers

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

Benefits for consultants

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

Benefits for end users

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

Why choose Daikin Applied Service?

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

Service capabilities

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

Benefits of a maintained system

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

NEW Daikin PROtect

Daikin PROtect is your long term economical and sustainable maintenance solution offering a **three year maintenance package** (option to extend to five years) designed to protect and optimise your HVAC equipment. Because your maintenance is directly from the manufacturer, you can have peace of mind knowing that **your assets are in the hands of the experts.**

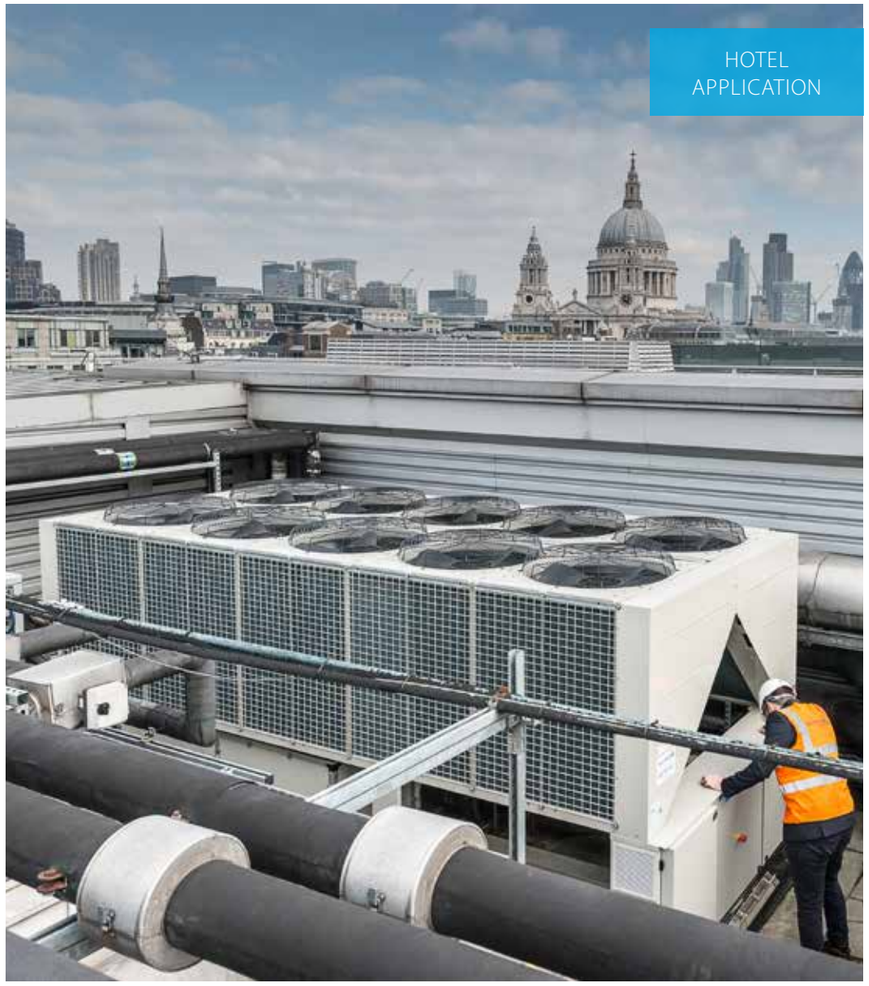
With the Daikin PROtect maintenance package we can offer you:

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

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


DAIKIN
AIR COOLED CHILLER INSTALLATION


OFFICE APPLICATION


HOTEL
APPLICATION


DATA CENTER
APPLICATION


AIR COOLED CHILLER INSTALLATION

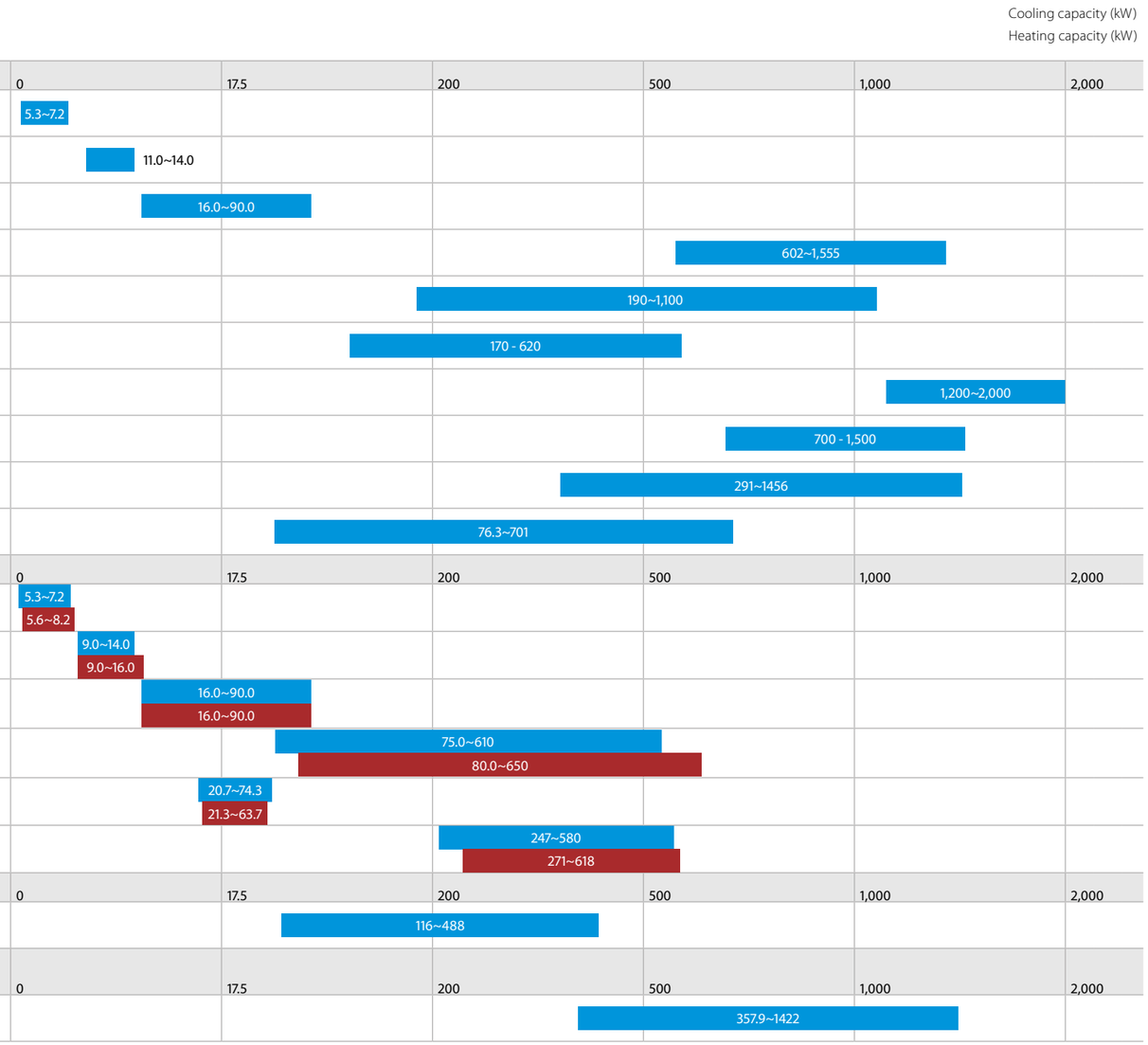

DAIKIN
INDUSTRIAL
APPLICATION


PROCESS COOLING
APPLICATION

Products overview

Air cooled chillers, condensing units and Multipurpose units

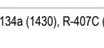
	Refrigerant type *	Refrigerant circuits	Inverter	Free cooling	Compressor: Swing	Compressor: Scroll	Compressor: Screw	Water heat exchanger: Plate **	Water heat exchanger: Single pass shell and tube	Efficiency version: Standard	Efficiency version: High	Efficiency version: Premium	Sound version: Standard	Sound version: Low	Sound version: Reduced
Cooling only															
EWAQ~BVP	R-410A	1	●		●			● BPHE		●			●		
EWAA-DV3P-H/ DW1P-H	R-32	1	●		●			● BPHE		●			●		
EWAT~CZN/P/H NEW	R-32	1-2	●			●		● BPHE		●			●		
EWAD~CF	R-134a	2		●			●		●		●		●	●	●
EWAD-TZ B	R-134a	1-2	●				●	●	●	●	●	●	●	●	●
EWAH-TZ B	R-1234ze(E)	1-2	●				●	●	●	●	●	●	●	●	●
EWAD-TZ C	R-134a	1-2	●				●	●	●	●	●	●	●	●	●
EWAH-TZ C	R-1234ze(E)	1-2	●				●	●	●	●	●	●	●	●	●
EWAD-T-	R-134a	2					●		●	●	●	●	●	●	●
EWAT-B	R-32	1-2				●		●		●	●		●	●	●
Heat pump															
EWYQ~BVP	R-410A	1	●		●			● BPHE		●			●		
EWYA-DV3P-H/ DW1P-H	R-32	1	●		●			● BPHE		●			●		
EWYT~CZN/P/H NEW	R-32	1-2	●			●		● BPHE		●			●		
EWYT-B	R-32	1-2				●		● BPHE		●	●		●	●	●
SEHVX-BW SERHQ-BW1	R-410A	1	●			●		● BPHE		●			●		
EWYD~BZ	R-134a	2-3	●				●		●	●			●	●	
Condensing unit															
ERAD~E-	R-134a	1					●			●			●	●	
Multipurpose unit															
EWYD-4Z	R-134a	2	●				●		●		●		●	●	●



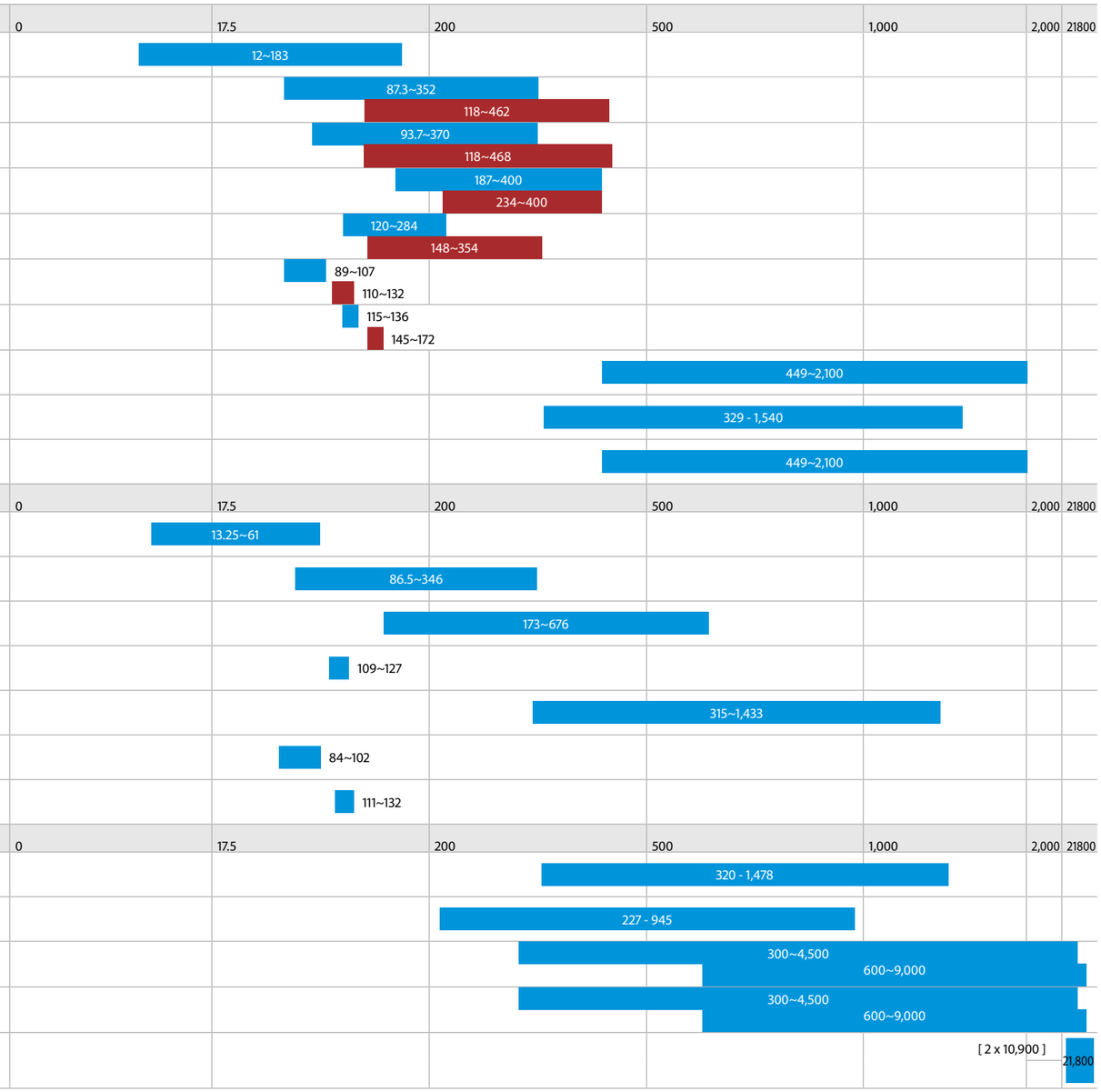
* (GWP) : R-410A (2087.5), R-134a (1430) - ** BPHE: Brazed plate heat exchanger

Products overview

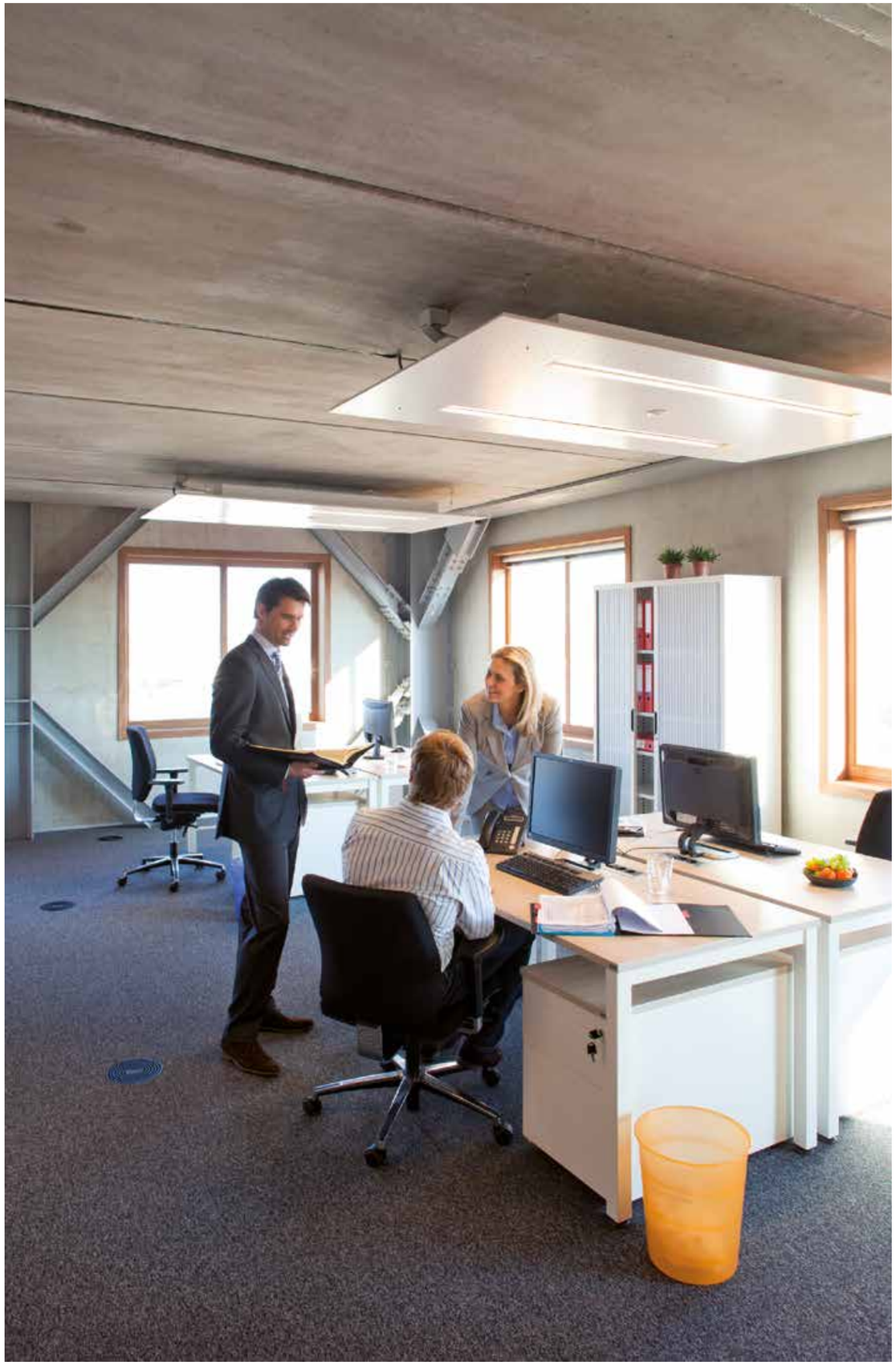
Water cooled and condenserless chillers

		Refrigerant Type *	Refrigerant circuits	Inverter	Compressor: Scroll	Compressor: Screw	Compressor: Centrifugal	Water heat exchanger: Plate **	Water heat exchanger: Single pass shell and tube	Water heat exchanger: Shell and tube	Efficiency version: Standard	Efficiency version: High	Efficiency version: Premium	Sound version: Standard
Water cooled chillers (Cooling only and Heat Pump)														
EWWQ-KBW1N		R-410a	1-2		●			●			●			●
EWHQ~G-		R-410A	1		●			●			●			●
EWWQ~G-		R-410A	1		●			●			●			●
EWWQ~L-		R-410A	2		●			●			●			●
EWWD~J-		R-134a	1			●		●			●			●
EWWH-J-		R1234ze	1			●		●			●			●
EWWS-J-		R-513A	1			●		●			●			●
EWWD-VZ		R-134a	1-2	●		●				● Flooded	●	●	●	●
EWWH-VZ		R-1234ze(E)	1-2	●		●				● Flooded	●	●	●	●
EWWS-VZ NEW		R-513A	1-2	●		●				● Flooded	●	●	●	●
Condenserless chillers														
EWLQ-KBW1N		R-410A	1-2		●			● BPHE			●			●
EWLQ~G-		R-410A	1		●			●			●			●
EWLQ~L-		R-410A	2		●			●			●			●
EWLD~J-		R-134a	1			●		●			●			●
EWLD~I-		R-134a	1-2-3			●			●		●			●
EWLH-J-		R1234ze	1			●		●			●			●
EWLS-J-		R-513A	1			●		●			●			●
Water cooled centrifugal chillers														
EWWD-DZ or EWWS-DZ		R-134a and R-513A	1				●			●		●		●
EWWH-DZ		R-1234ze(E)	1				●			●		●		●
DWSC B / DWDC B vintage		R-134a and R-513A	1	optional			●			● Flooded		●		●
DWSC C vintage NEW		R-134a, R-513A and R-1234ze	1	optional			●			● Flooded		●		●
6,000 RT CENTRIFUGAL		R-134a	2 per chiller				●		● Flooded			●		●

Cooling capacity (kW)
Heating capacity (kW)



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



EWAQ-BVP

Air cooled mini inverter chiller

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

EWAQ-BVP EKRUMCL1

Cooling Only				EWAQ-BVP	004	005	006	008
Space cooling	A Condition 35°C	Pdc		kW	4.00	4.93	5.88	7.95
		ηs,c		%	172	173	174	178
SEER					4.38	4.39	4.42	4.53
Cooling capacity	Nom.			kW	4.00 (1) / 4.01 (2)	4.93 (1) / 5.07 (2)	5.88 (1) / 6.07 (2)	7.95 (1) / 8.23 (2)
Power input	Cooling	Nom.		kW	1.27 (1) / 0.840 (2)	1.61 (1) / 1.12 (2)	1.87 (1) / 1.13 (2)	2.57 (1) / 1.65 (2)
Capacity control	Method				Variable (inverter)			
EER					3.14 (1) / 4.80 (2)	3.06 (1) / 4.51 (2)	3.15 (1) / 5.35 (2)	3.10 (1) / 4.99 (2)
Dimensions	Unit	Height		mm	735		997	
		Width		mm	1,090		1,160	
		Depth		mm	350		380	
Weight	Unit			kg	83		106	
Water heat exchanger	Type				Brazed plate			
	Water volume			l	1		2	
Air heat exchanger	Type				Cross fin coil/Hi-X tubes and chromate coated waffle louvre fins		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins	
Compressor	Type				Hermetically sealed swing compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	53		72 (1)	
Sound power level	Cooling	Nom.		dBA	63 (1)	64 (1)	69 (1)	
Sound pressure level	Cooling	Nom.		dBA	48	49	52	53
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43		10~46	
	Water side	Cooling	Min.~Max.	°CDB	5~22			
Refrigerant	Type/GWP				R-410A/2,088		R-410A/2,087.5	
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	2.10		2.70	
	Per circuit			TCO2Eq	4.4		5.6	
Water circuit	Piping connections diameter			inch	1" MBSP			
Unit	Starting current	Max		A	15.7		19.9	
	Running current	Max		A	15.7		19.9	
Power supply	Phase/Frequency/Voltage			Hz/V	1N~/50/230			

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

EWAA-DV3P

Air cooled mini inverter chiller

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

EWAA

Cooling Only				EWAA	011DV3P	014DV3P	016DV3P
Space cooling	A Condition 35°C	Pdc		kW	11.6	12.8	14.0
		ηs,c		%	229	226	221
SEER					5.79	5.71	5.59
Cooling capacity	Nom.			kW	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Power input	Cooling	Nom.		kW	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
Capacity control	Method				Variable (inverter)		
EER					3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
Dimensions	Unit	Height		mm	870		
		Width		mm	1,380		
		Depth		mm	460		
Weight	Unit			kg	147		
Water heat exchanger	Type				Plate heat exchanger		
	Water volume			l	2		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler		
Compressor	Type				Hermetically sealed swing inverter compressor		
	Quantity				1		
Fan	Type				Propeller fan		
	Quantity				1		
	Air flow rate	Cooling	Nom.	m^3/min	70	85	
Sound power level	Cooling	Nom.		dBA	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43		
	Water side	Cooling	Min.~Max.	°CDB	5~22		
Refrigerant	Type/GWP				R-32/675.0		
	Control				Electronic expansion valve		
	Circuits	Quantity			1		
Refrigerant charge	Per circuit			kg	3.80		
	Per circuit			TCO2Eq	2.6		
Unit	Running current	Max		A	30.8		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230		

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

EWAA-DW1P

Air cooled mini inverter chiller

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

EWAA

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

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

EWAA-DV3P-H

Air cooled mini inverter chiller

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

EWAA

Cooling Only				EWAA	011DV3P-H-	014DV3P-H-	016DV3P-H-
Space cooling	A Condition 35°C	Pdc		kW	11.6	12.8	14.0
		ηs,c		%	229	226	221
SEER					5.79	5.71	5.59
Cooling capacity	Nom.			kW	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Power input	Cooling	Nom.		kW	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
Capacity control	Method				Variable (inverter)		
EER					3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
Dimensions	Unit	Height		mm	870		
		Width		mm	1,380		
		Depth		mm	460		
Weight	Unit			kg	147		
Water heat exchanger	Type				Plate heat exchanger		
	Water volume			l	2		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler		
Compressor	Type				Hermetically sealed swing inverter compressor		
	Quantity				1		
Fan	Type				Propeller fan		
	Quantity				1		
	Air flow rate	Cooling	Nom.	m^3/min	70	85	
Sound power level	Cooling	Nom.		dBA	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43		
	Water side	Cooling	Min.~Max.	°CDB	5~22		
Refrigerant	Type/GWP				R-32/675.0		
	Control				Electronic expansion valve		
	Circuits	Quantity			1		
Refrigerant charge	Per circuit			kg	3.80		
	Per circuit			TCO2Eq	2.6		
Unit	Running current	Max		A	30.8		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230		

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

EWAA-DW1P-H

Air cooled mini inverter chiller

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

EWAA

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

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

EWAT-CZN

INVERTER

Air cooled scroll inverter chiller

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

EWAT-CZ_R

Cooling Only				EWAT	016CZN-A1	021CZN-A1	025CZN-A1	032CZN-A1	040CZN-A1	040CZN-A2	050CZN-A2	064CZN-A2	090CZN-A2
Space cooling	A Condition Pdc 35°C			kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
	ηs,c			%	197		200	205	201	213	210	205	198
SEER					5.00		5.06	5.21	5.09	5.41	5.33	5.21	5.03
Cooling capacity	Nom.			kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
Power input	Cooling	Nom.		kW	5.50	6.60	8.50	10.3	13.4	13.2	17.0	21.8	31.0
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.90	3.16	3.00	3.13	2.95	3.12	2.98	2.93	2.84
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	222	245		340	339	480		574	672
	Operation weight			kg	223	247		343	342	486		580	680
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2					5		8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0		78.0	79.0	80.0		81.0	83.0	85.0
Sound pressure level	Cooling	Nom.		dBA	59.7		61.7	62.2	63.2	62.8	63.8	65.4	67.0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

EWAT-CZP

INVERTER

Air cooled scroll inverter chiller

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

EWAT-CZ_R

Cooling Only				EWAT	016CZP-A1	021CZP-A1	025CZP-A1	032CZP-A1	040CZP-A1	040CZP-A2	050CZP-A2	064CZP-A2	090CZP-A2
Space cooling	A Condition Pdc 35°C			kW	16.0	21.0	25.7	32.6	39.8	41.6	51.0	64.3	88.6
	ηs,c			%	209	213		225	211	228	216	211	204
SEER					5.30	5.41		5.70	5.36	5.76	5.48	5.34	5.18
Cooling capacity	Nom.			kW	16.1	21.1	25.9	32.7	39.9	41.7	51.1	64.4	88.8
Power input	Cooling	Nom.		kW	5.45	6.56	8.48	10.3	13.3	13.2	16.9	21.9	31.1
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.96	3.22	3.05	3.18	3.00	3.17	3.03	2.95	2.85
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	256	278		383	382	531		630	727
	Operation weight			kg	257	280		386	385	537		636	735
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2					5		8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0		78.0	79.0	80.0		81.0	-	
Sound pressure level	Cooling	Nom.		dBA	59.7		61.7	62.2	63.2	62.8	63.8	-	
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

EWAT-CZH

Air cooled scroll inverter chiller

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

EWAT-CZ_R

Cooling Only				EWAT	016CZH-A1	021CZH-A1	025CZH-A1	032CZH-A1	040CZH-A1	040CZH-A2	050CZH-A2	064CZH-A2	090CZH-A2
Space cooling	A Condition 35°C	Pdc		kW	16.1	21.1	25.8	32.7	39.9	41.7	51.1	64.3	88.7
		ηs,c		%	205	210	211	224	210	227	213	208	202
Cooling capacity	Nom.			kW	16.2	21.2	25.9	32.8	40.1	41.8	51.3	64.5	88.9
Power input	Cooling	Nom.		kW	5.60	6.70	8.70	10.4	13.5	13.3	17.0	22.0	31.2
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.89	3.15	2.98	3.14	2.97	3.15	3.02	2.93	2.85
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	256	278		383	382	531		630	727
	Operation weight			kg	257	280		386	385	537		636	735
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.20
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0		78.0	79.0	80.0		81.0	83.0	85.0
Sound pressure level	Cooling	Nom.		dBA	59.7		61.7	62.2	63.2	62.8	63.8	65.4	67.0
Refrigerant	Type/GWP				R-32/675								R-32/675.0
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

EWYT-CZN

Air cooled scroll inverter heat pump

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

EWYT-CZ_R

Heating & Cooling				EWYT	016CZN-A1	021CZN-A1	025CZN-A1	032CZN-A1	040CZN-A1	040CZN-A2	050CZN-A2	064CZN-A2	090CZN-A2
Space cooling	A Condition 35°C	Pdc		kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
		ηs,c		%	197		200	205	201	213	210	205	198
SEER					5.00		5.06	5.21	5.09	5.41	5.33	5.21	5.03
Space heating	Average climate water outlet 35°C	General	SCOP		3.89	4.00	4.07	4.06	4.07	4.02	4.00	3.98	4.00
			Seasonal space heating eff. class		A++								
Cooling capacity	Nom.			kW	15.9	20.9	25.6	32.4	39.6	41.4	50.8	64.0	88.3
Heating capacity	Nom.			kW	15.9	20.2	24.8	32.4	39.4	40.3	49.8	61.9	85.8
Power input	Cooling	Nom.		kW	5.50	6.60	8.50	10.3	13.4	13.2	17.0	21.8	31.0
	Heating	Nom.		kW	4.70	5.80	7.50	9.40	11.8	11.9	15.4	19.1	27.2
Capacity control	Method				Inverter controlled								
	Minimum capacity			%	18	14	12	19	15	14	12	15	14
EER					2.90	3.16	3.00	3.13	2.95	3.12	2.98	2.93	2.84
COP					3.41	3.46	3.33	3.45	3.33	3.38	3.24	3.23	3.16
IPLV					5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm	1,878								
		Width		mm	1,152			1,752		2,306		2,906	3,506
		Depth		mm	802					814			
Weight	Unit			kg	227	252		350	349	494		588	693
	Operation weight			kg	228	254		353	352	500		594	701
Water heat exchanger	Type				Braze plate heat exchanger								
	Water volume			l	1	2				5			8
	Water flow rate	Cooling	Nom.	l/s	0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
		Heating	Nom.	l/s	0.8	1.0	1.2	1.5	1.9		2.4	3.0	4.1
	Water pressure drop	Cooling	Nom.	kPa	20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa	19.6	10.6	15.4	19.1	27.1	9.4	13.8	20.4	19.1
Air heat exchanger	Type				High efficiency fin and tube type – Copper Aluminum								
Compressor	Type				Scroll compressor								
	Quantity				1					2			
Fan	Type				Axial								
	Quantity				1			2				3	4
	Speed			rpm	800		900	700	900	700	900	800	900
Sound power level	Cooling	Nom.		dBA	76.0		78.0	79.0	80.0		81.0	83.0	85.0
Sound pressure level	Cooling	Nom.		dBA	59.7		61.7	62.2	63.2	62.8	63.8	65.4	67.0
Refrigerant	Type/GWP				R-32/675								
	Charge			kg	3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity			1					2			
Piping connections	Evaporator water inlet/outlet (OD)				1"1/4					2"			

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

EWYT-CZP

Air cooled scroll inverter heat pump

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

EWYT-CZ_R

Heating & Cooling					EWYT	016CZP-A1	021CZP-A1	025CZP-A1	032CZP-A1	040CZP-A1	040CZP-A2	050CZP-A2	064CZP-A2	090CZP-A2
Space cooling	A Condition 35°C	Pdc		kW		16.0	21.0	25.7	32.6	39.8	41.6	51.0	64.3	88.6
		ηs,c		%		209	213		225	211	228	216	211	204
SEER						5.30	5.41		5.70	5.36	5.76	5.48	5.34	5.18
Space heating	Average climate water outlet 35°C	General	SCOP			4.03	4.19		4.18		4.19	4.12	4.01	4.04
			Seasonal space heating eff. class			A++								
Cooling capacity	Nom.			kW		16.1	21.1	25.9	32.7	39.9	41.7	51.1	64.4	88.8
Heating capacity	Nom.			kW		15.6	19.9	24.6	32.1	39.0	40.0	49.5	61.4	85.3
Power input	Cooling	Nom.		kW		5.45	6.56	8.48	10.3	13.3	13.2	16.9	21.9	31.1
	Heating	Nom.		kW		4.63	5.81	7.42	9.32	11.7	11.8	15.3	19.2	27.3
Capacity control	Method					Inverter controlled								
	Minimum capacity			%		18	14	12	19	15	14	12	15	14
EER						2.96	3.22	3.05	3.18	3.00	3.17	3.03	2.95	2.85
COP						3.37	3.43	3.31	3.44	3.33	3.38	3.23	3.20	3.13
IPLV						5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61
Dimensions	Unit	Height		mm		1,878								
		Width		mm		1,152			1,752		2,306		2,906	3,506
		Depth		mm		802					814			
Weight	Unit			kg		261	286		393	392	546		644	749
	Operation weight			kg		262	288		396	395	551		650	757
Water heat exchanger	Type					Braze plate heat exchanger								
	Water volume			l		1	2				5			8
	Water flow rate	Cooling	Nom.	l/s		0.8	1.0	1.2	1.6	1.9	2.0	2.4	3.1	4.2
		Heating	Nom.	l/s		0.8	1.0	1.2	1.5	1.9		2.4	3.0	4.1
	Water pressure drop	Cooling	Nom.	kPa		20	11	16	19	28	10	14	22	20
		Heating	Nom.	kPa		19.6	10.6	15.4	19.1	27.1	9.4	13.8	20.4	19.1
Air heat exchanger	Type					High efficiency fin and tube type – Copper Aluminum								
Compressor	Type					Scroll compressor								
	Quantity					1					2			
Fan	Type					Axial								
	Quantity					1			2				3	4
	Speed			rpm		800	900	700	900	700	900		800	900
Sound power level	Cooling	Nom.		dBA		76.0	78.0	79.0	80.0		81.0		83.0	85.0
Sound pressure level	Cooling	Nom.		dBA		59.7	61.7	62.2	63.2		62.8	63.8	65.4	67.0
Refrigerant	Type/GWP					R-32/675								
	Charge			kg		3.00	5.50		7.00	8.00	12.0		13.0	16.0
	Circuits	Quantity				1					2			
Piping connections	Evaporator water inlet/outlet (OD)					1"1/4					2"			

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

EWYT-CZH

Air cooled scroll inverter heat pump

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

EWYT-CZ_R

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

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

EWAD-CFXS/XL

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

- Free cooling chiller for space cooling and industrial processes
- Stepless single-screw compressor
- Greater energy savings and reduced CO_2 emissions during cold season
- Wide operating range: NEW OPTION 187 (high evaporator leaving temperature up to 25°C)
- MicroTech 4 controller with superior control logic and easy interface

EWAD-CFXS/XL/XR

Microtech 4

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

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

EWAD-CFXR

Air cooled screw chiller with free cooling, high efficiency, reduced sound

- Free cooling chiller for space cooling and industrial processes
- Stepless single-screw compressor
- Greater energy savings and reduced CO_2 emissions during cold season
- Wide operating range: NEW OPTION 187 (high evaporator leaving temperature up to 25°C)
- MicroTech 4 controller with superior control logic and easy interface

EWAD-CFXS/XL/XR

Microtech 4

Cooling Only				EWAD-CFXR	600	740	820	870	980	C10	C11	C12	C13	C14	C15
Cooling capacity	Nom.			kW	602 (1) / 374 (2)	739 (1) / 468 (2)	821 (1) / 539 (2)	866 (1) / 562 (2)	981 (1) / 644 (2)	1,034 (1) / 670 (2)	1,229 (1) / 825 (2)	1,302 (1) / 866 (2)	1,374 (1) / 889 (2)	1,424 (1) / 909 (2)	1,476 (1) / 929 (2)
Power input	Cooling	Nom.		kW	263 (1) / 46.6 (2)	278 (1) / 56.2 (2)	299 (1) / 58.5 (2)	334 (1) / 63.1 (2)	368 (1) / 68.5 (2)	412 (1) / 74.4 (2)	403 (1) / 80.0 (2)	450 (1) / 87.5 (2)	466 (1) / 93.4 (2)	511 (1) / 103 (2)	556 (1) / 109 (2)
Capacity control	Method				Stepless										
	Minimum capacity			%	12.5										
EER					2.29 (1) / 12.91 (2)	2.66 (1) / 13.17 (2)	2.75 (1) / 14.04 (2)	2.59 (1) / 13.71 (2)	2.67 (1) / 14.33 (2)	2.51 (1) / 13.89 (2)	3.05 (1) / 15.36 (2)	2.90 (1) / 14.87 (2)	2.95 (1) / 14.7 (2)	2.79 (1) / 13.85 (2)	2.66 (1) / 13.56 (2)
IPLV					4.09	4.15	4.16	4.20	4.10	4.08	4.42	4.37	4.42		4.28
Dimensions	Unit	Height		mm	2,565										
		Width		mm	2,480										
		Depth		mm	6,300	7,200	8,100		9,000		10,800				
Weight	Unit			kg	8,050	8,620	9,190		10,450	10,710	12,190		12,830	12,910	12,960
	Operation weight			kg	8,795	9,390	9,995		11,459	11,719	13,566		14,806	14,886	14,936
Water heat exchanger	Type				Single pass shell & tube										
	Water flow rate	Cooling	Nom.	l/s	26.2 (1) / 26.2 (2)	32.1 (1) / 32.1 (2)	35.7 (1) / 35.7 (2)	37.6 (1) / 37.6 (2)	42.6 (1) / 42.6 (2)	44.9 (1) / 44.9 (2)	53.4 (1) / 53.4 (2)	56.6 (1) / 56.6 (2)	59.7 (1) / 59.7 (2)	61.9 (1) / 61.9 (2)	64.1 (1) / 64.1 (2)
	Water pressure drop	Cooling	Nom.	kPa	76 (1) / 115 (2)	97 (1) / 159 (2)	84 (1) / 167 (2)	93 (1) / 184 (2)	102 (1) / 225 (2)	113 (1) / 248 (2)	92 (1) / 219 (2)	103 (1) / 243 (2)	128 (1) / 282 (2)	137 (1) / 301 (2)	146 (1) / 321 (2)
	Water volume			l	741	771	808		1,012		1,372		1,965		
Air heat exchanger	Type				High efficiency fin and tube type										
Compressor	Type				Asymm single screw										
	Quantity				2										
Fan	Type				Direct propeller										
	Quantity				10	12	14		16		20				
	Air flow rate	Nom.		l/s	38,935	46,722	54,508		62,295		73,011				
	Speed			rpm	715										
Sound power level	Cooling	Nom.		dBA	92				94			95			
Sound pressure level	Cooling	Nom.		dBA	71	72				73	72		73		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20~45										
	Water side	Cooling	Min.~Max.	°CDB	-8~25										
Refrigerant	Type/GWP				R-134a/1,430										
	Circuits	Quantity			2										
Refrigerant charge	Per circuit			kg	64.0	73.0	81.0		91.0		107.0	112.5		124.0	
	Per circuit			TCO2Eq	91.5	104.4	115.8		130.1		153.0	160.9		177.3	
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm				219.1mm				273mm		
Unit	Starting current	Max		A	598	611	648		912	960	1,016			1,059	1,072
	Running current	Cooling	Nom.	A	411	439	473	526	580	647	645	717	738	800	862
		Max		A	462	493	542	585	649	708	783	847		901	954
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

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

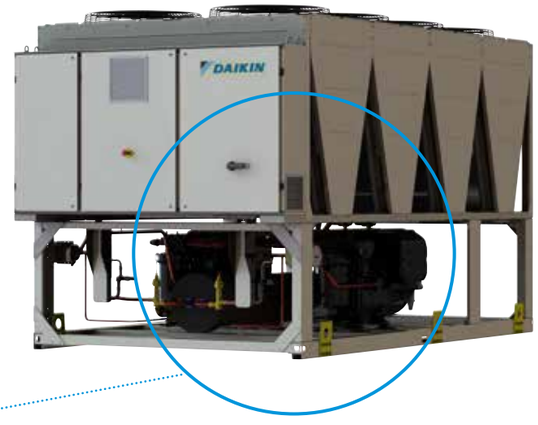
EWA(H)(D)-TZB/C screw inverter chiller High efficiency in comfort and process cooling

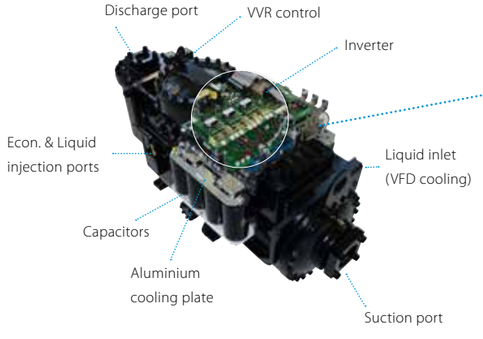
INVERTER

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

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

› Full inverter air cooled chiller
› Capacity range from 190kW to 2000kW for series with R134a
› Capacity range from 170kW to 1500kW for series with R1234ze
› Daikin single screw compressor with integrated inverter
› Best efficiency at full load and part load conditions





Check on YouTube
www.youtube.com/DaikinEurope

› Daikin EWAD-TZB Screw Inverter Chiller

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

High efficiencies both at full load and part load:

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

Rapid return on investment

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

Perfect comfort level

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

Compact design

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

Lowest sound levels

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

Unrivaled and proven reliability

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

Extensive option list

More than 60 different options are available to fit the EWA(H)(D)-TZB/C chiller to fit to your requirements:
› Rapid restart after power failure
› Variable speed water pumps to optimise the working efficiency
› Total heat recovery: 80 to 85% of the total heat rejection of the chiller can be recovered
› Partial heat recovery: 15 to 20% of the total heat rejection of the chiller can be recovered
› Refrigerant leak detection

Performance monitoring

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

(*) For TZ-B units an additional sub-cooling temperature sensor is required.

EWAD-TZSSB/SLB

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

- Optimized energy efficiency both at full and part load conditions
- Inverter stepless single-screw compressor
- Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- Compact design for small footprint and minimized installation space
- Low operating sound levels are achieved by the latest compressor and fan design
- One or two truly independent refrigerant circuits for outstanding reliability

EWAD-TZB Microtech 4

Cooling Only		EWAD-TZSSB/SLB	160	190	240	270	300	360	380	455	500	570	610	660	700	820	900	990	C10	C11
Space cooling	A Condition 35°C Pdc	kW	169.1	200.88	235.29	268.82	305.99	351.41	394.74	455.64	499.81	569.52	612.22	660.72	700.94	815.92	889.95	987.19	1,045.39	1,103.99
	ηs,c	%	168.2	172.6	169.4	175.4	177	183	172.6	171.4	175	180.2	189.8	182.6	185.4	197.4	194.2	200.6	200.2	200.6
SEER			4.28	4.39	4.31	4.46	4.5	4.65	4.39	4.63	4.65	4.58	4.82	4.64	4.71	5.01	4.93	5.09	5.08	5.09
Cooling capacity	Nom.	kW	169.1	200.9	235.3	268.8	306	351.4	394.7	455.6	499.8	569.5	612.2	660.7	700.9	816	890	987	1,045	1,104
Power input	Cooling Nom.	kW	56.48	69.9	82.99	89.94	108.6	118	139.4	163.8	174.6	198.1	217.6	239	249.1	257.9	296.1	321.3	346.4	366.2
Capacity control	Minimum capacity	%	37	31	34	29	25	24	16	17	16	14	13	12				10		
EER			2.995	2.874	2.835	2.989	2.817	2.954	2.832	2.783	2.862	2.876	2.813	2.764	2.813	3.164	3.005	3.072	3.017	3.015
ESEER			4.37	4.46	4.3	4.4	4.42	4.5	4.46	4.44	4.49	4.54	4.59	4.63	4.7	4.43		4.44		4.51
IPLV			5.3	5.27	5.04	5.19	5.37	5.53	5.34	5.3	5.46	5.64	5.62		5.7	5.29	5.26	5.25	5.26	5.27
Dimensions	Unit Height	mm	2,540																	
	Width	mm	2,282																	
	Depth	mm	2,330			3,230			4,130			5,030	5,887		6,786	6,877		7,787	8,687	9,587
Weight (SSB)	Unit	kg	2,066	2,091	2,149	2,375	2,422	2,771	4,044	4,060	4,317	4,603	4,780	4,804	5,074	6,282	6,382	6,777	7,132	7,410
	Operation weight	kg	2,086	2,117	2,187	2,401	2,460	2,821	4,202	4,224	4,475	4,761	5,050	5,059	5,329	6,532	6,632	7,027	7,382	7,660
Weight (SLB)	Unit	kg	2,081	2,106	2,164	2,390	2,437	2,786	4,074	4,090	4,347	4,633	4,810	4,834	5,104	6,282	6,382	6,777	7,132	7,410
	Operation weight	kg	2,101	2,132	2,202	2,416	2,475	2,836	4,232	4,254	4,505	4,791	5,080	5,089	5,359	6,532	6,632	7,027	7,382	7,660
Water heat exchanger	Type		Plate heat exchanger						Shell and tube											
	Water volume	l	20.25	26.1	37.35	26.1	37.35	49.5	158	164	158		270	255		283		485		453
	Water flow rate Cooling Nom.	l/s	8.1	9.6	11.2	12.9	14.6	16.8	18.9	21.8	23.9	27.3	29.3	31.6	33.5	39.1	42.6	47.2	50	52.8
	Water pressure drop Cooling Nom.	kPa	25	19.3	15.4	32.6	25.2	25.9		32.4	44	55.7	38.8	32.3	36	52.6	36.9	42.2	46.6	37.3
Air heat exchanger	Type		Microchannel																	
Compressor	Type		Driven vapour compression																	
	Quantity		1						2											
Fan	Type		Direct propeller																	
	Quantity		4			6			8		10		12			14		16	18	20
	Air flow rate Nom.	l/s	15,109			22,664			30,219		37,774		45,328		52,883	69,177		79,060	88,942	98,825
	Speed	rpm	700													900				
Sound power level (SSB)	Cooling Nom.	dBA	96			97	98		99			100	101	102	105	102			103	
Sound power level (SLB)	Cooling Nom.	dBA	90	91		92	93		94			95	96	97		99			100	
Sound pressure level (SSB)	Cooling Nom.	dBA	77			78			79			80		82	84	81				
Sound pressure level (SLB)	Cooling Nom.	dBA	71	72		73			74				75	76	77	78				
Operation range	Air side Cooling Min.~Max.	°CDB	-18 ~50													-18~45				
	Water side Cooling Min.~Max.	°CDB	-8~18													-15~20				
Refrigerant	Type/GWP		R-134a/1,430																	
	Charge	kg	27	29	33	38	41	52	58	59	68	75	77	83	90	91		104	117	130
	Circuits Quantity		1						2											
Refrigerant charge	Per circuit	TCO2Eq	38.6	41.5	47.2	54.3	58.6	74.4	41.5	42.2	48.6	53.6	55.1	59.3	64.4	65.1		74.4	83.7	93.0
Piping connections	Evaporator water inlet/outlet (OD)		3"			4"			5"				6"			168.3 mm		219.1mm		
Unit	Running current Cooling Nom.	A	102	123	188	177	188	200	246	372	366	361	377	396	414	429	501	528	563	597
	Running current Max	A	130	149	160	187	220	246	298	320	350	374	439	466	486	537	599	652	708	768
Power supply	Phase/Frequency/Voltage	Hz/V	3~/50/400																	

performances according to CSS software 10.27

EWAD-TZSRB

Air cooled screw inverter chiller, standard efficiency, reduced sound

- Optimized energy efficiency both at full and part load conditions
- Inverter stepless single-screw compressor
- Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- Compact design for small footprint and minimized installation space
- Low operating sound levels are achieved by the latest compressor and fan design
- One or two truly independent refrigerant circuits for outstanding reliability

EWAD-TZB Microtech 4

Cooling Only		EWAD-TZSRB	160	190	240	270	300	360	380	455	500	570	610	660	700	820	900	990	C10	C11
Space cooling	A Condition 35°C Pdc	kW	169.1	200.88	235.29	268.82	305.99	351.41	394.01	454.57	499.14	568.6	610.43	658.99	699.87	799.95	894.94	956.14	1,013.27	1,067.02
	ηs,c	%	168.2	172.6	169.4	175.4	177	183	172.2	170.6	174.2	179.4	188.6	181.8	184.6	215	213.4	213.8	216.2	217.8
SEER			4.28	4.39	4.31	4.46	4.5	4.65	4.38	4.63	4.64	4.56	4.79	4.62	4.69	5.45	5.41	5.42	5.48	5.52
Cooling capacity	Nom.	kW	169.1	200.9	235.3	268.8	306	351.4	394	454.6	499.1	568.6	610.4	659	699.9	800	895	956	1,013	1,067
Power input	Cooling Nom.	kW	56.48	69.9	82.99	89.94	108.6	118	140.2	164.8	175.4	199.1	218.4	240.3	250.3	247.8	294.1	316	335.6	358.9
Capacity control	Minimum capacity	%	37	31	34	29	25	24	16	17	16	14	13	12				10		
EER			2.995	2.874	2.835	2.989	2.817	2.954	2.81	2.759	2.846	2.856	2.795	2.742	2.796	3.229	3.043	3.016	3.018	2.973
ESEER			4.37	4.46	4.3	4.4	4.42	4.5	4.44	4.43	4.47	4.53	4.61	4.6	4.68	4.8		4.85	4.83	4.98
IPLV			5.3	5.27	5.04	5.19	5.37	5.53	5.3	5.26	5.43	5.6	5.61	5.6	5.67	5.92	5.74	5.77	5.75	5.86
Dimensions	Unit Height	mm	2,540																	
	Width	mm	2,282																	
	Length	mm	2,330			3,230			4,130			5,030	5,887		6,786	7,787		8,687	9,587	10,488
Weight	Unit	kg	2,166	2,191	2,249	2,475	2,522	2,871	4,244	4,260	4,517	4,803	4,980	5,004	5,274	6,997	7,097	7,452	7,730	8,023
	Operation weight	kg	2,186	2,217	2,287	2,501	2,560	2,921	4,402	4,424	4,675	4,961	5,250	5,259	5,529	7,247	7,347	7,702	7,980	8,273
Water heat exchanger	Type		Plate heat exchanger						Shell and tube											
	Water volume	l	20.25	26.1	37.35	26.1	37.35	49.5	158	164	158		270	255		283		485		453
	Water flow rate Cooling Nom.	l/s	8.1	9.6	11.2	12.9	14.6	16.8	18.8	21.7	23.9	27.2	29.2	31.5	33.5	38.3	42.8	45.7	48.5	51
	Water pressure drop Cooling Nom.	kPa	25	19.3	15.4	32.6	25.2	25.9	25.8	32.2	43.9	55.5	38.6	32.2	35.9	52.1	36.3	41	45.6	36.3
Air heat exchanger	Type		Microchannel																	
Compressor	Type		Driven vapour compression																	
	Quantity		1						2											
Fan	Type		Direct propeller																	
	Quantity		4			6			8		10		12		14		16		18	20	22
	Air flow rate Nom.	l/s	15,109			22,664		30,219	29,650		36,920		44,475		51,745		59,299		66,570	74,124	81,394
	Speed	rpm	700																	
Sound power level	Cooling Nom.	dBA	86	87		88			90				91	92		94		95		
Sound pressure level	Cooling Nom.	dBA	67	68		69			70					71		73				
Operation range	Air side Cooling Min.~Max.	°CDB	-18~50													-18~45				
	Water side Cooling Min.~Max.	°CDB	-8~18													-15~20				
Refrigerant	Type/GWP		R-134a/1,430																	
	Charge	kg	27	29	33	38	41	52	58	59	68	75	77	83	90	104		117	130	143
	Circuits Quantity		1						2											
Refrigerant charge	Per circuit	TCO2Eq	38.6	41.5	47.2	54.3	58.6	74.4	41.5	42.2	48.6	53.6	55.1	59.3	64.4	74.4		83.7	93.0	102.2
Piping connections	Evaporator water inlet/outlet (OD)		3"			4"			5"				6"			168.3 mm		219.1mm		
Unit	Running current Cooling Nom.	A	102	123	188	177	188	200	247	374	368	363	378	398	416	422	496	530	561	599
	Running current Max	A	130	149	160	187	220	246	298	320	350	374	439	466	486	523	585	635	688	745
Power supply	Phase/Frequency/Voltage	Hz/V	3~/50/400																	

performances according to CSS software 10.27

EWAD-TZXSB/XLB

INVERTER

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

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

EWAD-TZB Microtech 4

Cooling Only		EWAD-TZXSB/XLB	190	220	240	290	320	360	420	450	540	570	610	660	680	770	850	910	C10	C11
Space cooling (XSB)	A Condition 35°C Pdc	kW	180.41	211.34	239.54	203	202.6	195.4	198.2	199.8	201	563.39	599.41	639.37	678.22	763.88	850.16	911.93	1,001.2	1,045.43
	ηs,c	%	195	198.6	195.4	5.15	5.14	4.96	5.03	5.07	5.1	198.6	203.8	206.2	205.4	228.6	226.6	233.4	243	237
Space cooling (XLB)	A Condition 35°C Pdc	kW	180.41	211.34	239.54	276.79	313.2	360.56	417.27	472.59	528.99	563.39	599.41	639.37	678.22	763.88	850.16	911.93	1,001.2	1,045.43
	ηs,c	%	195	198.6	195.4	203	202.6	195.4	198.2	199.8	201	198.6	203.8	206.2	205.4	228.6	226.6	233.4	243	237
SEER			4.95	5.04	4.96	5.15	5.14	4.96	5.03	5.07	5.1	5.04	5.17	5.23	5.21	5.79	5.74	5.91	6.15	6
Cooling capacity	Nom.	kW	180.4	211.3	239.5	276.8	313.2	360.6	417.3	472.6	529	563.4	599.4	639.4	678.2	764	850	912	1,001	1,045
Power input	Cooling Nom.	kW	52.13	63.22	72.5	83.87	100.2	109.1	132.2	144.9	163.5	181.1	191.7	202.1	219.8	226.5	266.1	275.8	303.4	320.1
Capacity control	Minimum capacity	%	34	29	34	29	25	17	16	17	16	15	14	13			10			
EER			3.46	3.343	3.304	3.3	3.127	3.304	3.156	3.261	3.236	3.111	3.127	3.164	3.085	3.374	3.195	3.306	3.3	3.265
ESEER			5.11	5.06	4.99	5.09	5.13	5.14	5.09	5	5.07		5.11	5.15		5.09		5.13	5.15	5.22
IPLV			6.26	6.15	6.19	6.17		6.4	6.3	6.22		6.29	6.31	6.25	6.21	6.26	6.08	6.19	6.29	6.24
Dimensions	Unit Height	mm	2,540																	
	Width	mm	2,282																	
	Length	mm	3,230			4,130		5,030		5,887			6,786	7,684		7,787		8,687	9,587	10,488
Weight (XSB)	Unit	kg	2,362	2,409	2,421	2,770		4,292		4,602	4,800		5,072	5,425		6,677	6,777	7,132	7,410	7,703
	Operation weight	kg	2,388	2,447	2,459	2,820		4,450		4,760	5,055		5,327	5,680		6,927	7,027	7,382	7,660	7,953
Weight (XLB)	Unit	kg	2,377	2,424	2,436	2,785		4,322		4,632	4,830		5,102	5,455		6,677	6,777	7,132	7,410	7,703
	Operation weight	kg	2,403	2,462	2,474	2,835		4,480		4,790	5,085		5,357	5,710		6,927	7,027	7,382	7,660	7,953
Water heat exchanger	Type		Plate heat exchanger					Shell and tube												
	Water volume	l	26.1	37.35		49.5		158			255				301		485		453	
	Water flow rate Cooling Nom.	l/s	8.6	10.1	11.5	13.2	15	17.3	20	22.6	25.3	27	28.7	30.6	32.4	36.6	40.7	43.6	47.9	50
	Water pressure drop Cooling Nom.	kPa	16.4	13.2	16.2	17.1	21	34.3	31.2	39.7	36.7	41.1	27.1	30.5	33.3	40.5	33.5	37.5	42.4	34.3
Air heat exchanger	Type		Microchannel																	
Compressor	Type		Driven vapour compression																	
	Quantity		1					2												
Fan	Type		Direct propeller																	
	Quantity		6			8		10		12		14	16				18	20	22	
	Air flow rate Nom.	l/s	22,664			30,219		37,774		45,328		52,883	60,438				67,993	75,547	83,102	
	Speed	rpm	700																	
Sound power level (XSB)	Cooling Nom.	dBA	96	97	96	-					100		101						102	
Sound power level (XLB)	Cooling Nom.	dBA	91	92	91	92	93	94			95		96		97					
Sound pressure level (XSB)	Cooling Nom.	dBA	77			78		79					80			79				
Sound pressure level (XLB)	Cooling Nom.	dBA	72			73	74	73		74			75							
Operation range	Air side Cooling Min.~Max.	°CDB	-18~55										-18~53							
	Water side Cooling Min.~Max.	°CDB	-8~18										-15~20							
Refrigerant	Type/GWP (XSB)		R-134a/1,430			R-134a/-						R-134a/1,430								
	Type/GWP (XLB)		R-134a/1,430																	
	Charge	kg	36	39	40	51		64	74	80	89	96	104			117	130	143		
	Circuits Quantity		1					2												
Refrigerant charge	Per circuit	TCO2Eq	51.5	55.8	57.2	72.9		45.8	52.9	57.2	63.6	68.6	74.4			83.7	93.0	102.2		
Piping connections	Evaporator water inlet/outlet (OD)		3"		4"			5"		6"			168.3 mm	219.1mm						
Unit	Running current Cooling Nom.	A	110	113	186		192	225	231	371.0	383	392	390	387	395	394	451	469	500	537
	Running current Max	A	130	149	166	198	225	256	292	333	358	385	417	450	478	508	562	590	640	694
Power supply	Phase/Frequency/Voltage	Hz/V	3~/50/400																	

performances according to CSS software 10.27

EWAD-TZXRB

INVERTER

Air cooled screw inverter chiller, high efficiency, reduced sound

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

EWAD-TZB Microtech 4

Cooling Only		EWAD-TZXRB	190	220	240	290	320	360	420	450	540	570	610	660	680	770	850	910	C10	C11
Space cooling	A Condition 35°C Pdc	kW	180.41	211.34	239.54	276.79	313.2	360.28	416.8	472.11	528.32	562.28	598.77	638.64	677.38	763.85	850.14	911.93	1,001.2	1,045.41
	ηs,c	%	195	198.6	195.4	203	202.6	194.6	198.2	199	200.2	198.2	202.6	205	204.6	229.8	229.4	233.4	244.2	237.8
SEER			4.95	5.04	4.96	5.15	5.14	4.94	5.03	5.05	5.08	5.03	5.14	5.2	5.19	5.82	5.81	5.91	6.18	6.02
Cooling capacity	Nom.	kW	180.4	211.3	239.5	276.8	313.2	360.3	416.8	472.1	528.3	562.3	598.8	638.6	677.4	764	850	912	1,001	1,045
Power input	Cooling Nom.	kW	52.13	63.22	72.5	83.87	100.2	109.5	132.1	145.6	164.3	181.9	192.5	202	220.9	226.5	266.8	275.4	303.1	320.6
Capacity control	Minimum capacity	%	34	29	34	29	25	17	16	17	16	15	14	13			10			
EER			3.46	3.343	3.304	3.3	3.127	3.29	3.156	3.243	3.215	3.092	3.111	3.146	3.067	3.373	3.186	3.311	3.302	3.26
ESEER			5.11	5.06	4.99	5.09	5.13	5.12	5.09	4.99	5.04	5.05	5.13	5.07		5.09		5.13	5.15	5.22
IPLV			6.26	6.15	6.19	6.17		6.37	6.3	6.2		6.26	6.27	6.24	6.18	6.26	6.08	6.19	6.29	6.24
Dimensions	Unit Height	mm	2,540																	
	Width	mm	2,282																	
	Length	mm	3,230			4,130		5,030		5,887			6,786	7,684		7,787		8,687	9,587	10,488
Weight	Unit	kg	2,462	2,509	2,521	2,870		4,492		4,802	5,000		5,272	5,625		6,997	7,097	7,452	7,730	8,023
	Operation weight	kg	2,488	2,547	2,559	2,920		4,650		4,960	5,255		5,527	5,880		7,247	7,347	7,702	7,980	8,273
Water heat exchanger	Type		Plate heat exchanger					Shell and tube												
	Water volume	l	26.1	37.35		49.5		158			255				301		485		453	
	Water flow rate Cooling Nom.	l/s	8.6	10.1	11.5	13.2	15	17.2	19.9	22.6	25.3	26.9	28.6	30.5	32.4	36.6	40.7	43.6	47.9	50
	Water pressure drop Cooling Nom.	kPa	16.4	13.2	16.2	17.1	21	34.2	31.1	39.7	36.6	41	27.1	30.4	33.2	40.3	33.3	37.3	42.3	34.2
Air heat exchanger	Type		Microchannel																	
Compressor	Type		Driven vapour compression																	
	Quantity		1					2												
Fan	Type		Direct propeller																	
	Quantity		6			8		10		12		14	16				18	20	22	
	Air flow rate Nom.	l/s	22,664			30,219		36,920		44,475		51,745	59,299				66,570	74,124	81,394	
	Speed	rpm	700																	
Sound power level	Cooling Nom.	dBA	88			89		90		91			92		94		95			
Sound pressure level	Cooling Nom.	dBA	68			69		70				71			73					
Operation range	Air side Cooling Min.~Max.	°CDB	-18~55													-18~53				
	Water side Cooling Min.~Max.	°CDB	-8~18													-15~20				
Refrigerant	Type/GWP		R-134a/1,430																	
	Charge	kg	36	39	40	51		64	74	80	89	96	104			117	130	143		
	Circuits Quantity		1					2												
Refrigerant charge	Per circuit	TCO2Eq	51.5	55.8	57.2	72.9		45.8	52.9	57.2	63.6	68.6	74.4			83.7	93.0	102.2		
Piping connections	Evaporator water inlet/outlet (OD)		3"		4"			5"		6"			168.3 mm	219.1mm						
Unit	Running current Cooling Nom.	A	110	113	186		192	226	231	373.0	385	393	391	389	396	395	453	471	502	539
	Running current Max	A	130	149	166	198	225	256	292	333	358	385	417	450	478	508	562	590	640	694
Power supply	Phase/Frequency/Voltage	Hz/V	3~/50/400																	

performances according to CSS software 10.27

EWAD-TZPSB/PLB

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

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

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

performances according to CSS software 10.27

EWAD-TZPRB

Air cooled screw inverter chiller, premium efficiency, reduced sound

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

Cooling Only				EWAD-TZPRB	190	220	240	290	300	350	420	495	550	620	720	820	950
Space cooling	A Condition 35°C	Pdc		kW	187.3	218.24	246.75	279.23	317.21	382.29	436.87	505.48	543.03	620.04	717	832.86	949.86
		ηs,c		%	208.6	212.2	210.6	207	212.2	208.2	210.2	221	218.2	219.8	248.6	249.4	251
SEER					5.29	5.38	5.34	5.25	5.38	5.28	5.33	5.6	5.53	5.57	6.29	6.31	6.35
Cooling capacity	Nom.			kW	187.3	218.2	246.8	279.2	317.2	382.3	436.9	505.5	543	620	717	833	950
Power input	Cooling	Nom.		kW	50.48	60.72	68.74	83.42	95.88	105.1	125.3	139.7	151.3	178.5	182.2	220.2	252.4
Capacity control	Minimum capacity			%	34	29	34	29	27	19	20	17			10		
EER					3.71	3.594	3.59	3.347	3.308	3.637	3.486	3.618	3.59	3.473	3.935	3.783	3.764
ESEER					5.55	5.52	5.27	5.16	5.2	5.32	5.21	5.38	5.5	5.42	5.59	5.54	5.55
IPLV					6.49	6.35	6.23	6.07	6.04	6.3	6.27	6.47	6.53	6.47	6.73	6.6	6.64
Dimensions	Unit	Height		mm	2,540												
		Width		mm	2,282												
		Length		mm	4,130				5,030	5,887	6,786	7,684	8,579	9,480	9,587	10,488	11,387
Weight	Unit			kg	2,858		2,869	2,870	3,120	4,935	5,269	5,277	6,677	6,705	7,970	8,263	8,560
	Operation weight			kg	2,908		2,919	2,920	3,170	5,190	5,524	5,532	6,927	6,955	8,220	8,513	8,810
Water heat exchanger	Type				Plate heat exchanger					Shell and tube							
	Water volume			l	49.5					255			307		485		453
	Water flow rate	Cooling	Nom.	l/s	9	10.4	11.8	13.3	15.2	18.3	20.9	24.2	26	29.6	34.3	39.8	45.4
	Water pressure drop	Cooling	Nom.	kPa	10.6	11	13.4	17.1	21.5	20.4	26.4	33.2	19.8	24.9	24.2	31.7	28.9
Air heat exchanger	Type				Microchannel												
Compressor	Type				Driven vapour compression												
	Quantity				1					2							
Fan	Type				Direct propeller												
	Quantity				8				10	12	14	16	18	20		22	24
	Air flow rate	Nom.		l/s	29,610				37,013	43,369	50,423	57,826	64,879	72,282		79,336	86,738
	Speed			rpm	700												
Sound power level	Cooling	Nom.		dBA	87	88	87	88		89	90		94	95			
Sound pressure level	Cooling	Nom.		dBA	67	68	67	68				69		73			
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~55										-18~53		
	Water side	Cooling	Min.~Max.	°CDB	-8~18										-15~20		
Refrigerant	Type/GWP				R-134a/1,430												
	Charge			kg	49		50	51	58	77	86	94	105	114	130	143	156
	Circuits	Quantity			1					2							
Refrigerant charge	Per circuit			TCO2Eq	70.1		71.5	72.9	82.9	55.1	61.5	67.2	75.1	81.5	93.0	102.2	111.5
Piping connections	Evaporator water inlet/outlet (OD)				3"		4"			6"			168.3 mm		219.1mm		
Unit	Running current	Cooling	Nom.	A	101	104	172	177		209	212	347	259	300	317	377	426
		Max		A	126	144	162	188	218	246	285	324	352	436	437	512	577
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

performances according to CSS software 10.27

EWAD-TZSSC2/SLC2

INVERTER

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

- Optimized energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAD-TZSSC2/SLC2 Microtech 4

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

performances according to CSS software 10.27

EWAD-TZSRC2

INVERTER

Air cooled screw inverter chiller, standard efficiency, reduced sound

- High energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAD-TZSRC2 Microtech 4

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

performances according to CSS software 10.27

EWAD-TZXSC2

INVERTER

Air cooled screw inverter chiller, high efficiency, standard sound

- High energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAD-TZXSC2 Microtech 4

Cooling Only				EWAD-TZXSC2	C11	C12	H12	C14	C15	H16	H17
Space cooling	A Condition 35°C	Pdc	kW		1,124.00	1,280	1,206	1,399	1,539	1,667	1,780
		ηs,c	%		211.5	210.8	211.1	211.9	212.6	214.2	212.6
SEER					5.36	5.35		5.37	5.39	5.43	5.39
Cooling capacity	Nom.		kW		1,124	1,280	1,206	1,399	1,539	1,667	1,780
Power input	Cooling	Nom.	kW		354	401.6	375.9	431.7	478.8	524.7	575.4
Capacity control	Method				Variable						
	Minimum capacity		%		12.5						
EER					3.17	3.19	3.21	3.24	3.22	3.18	3.09
IPLV					5.54		5.58	5.79	5.7	5.66	5.65
Dimensions	Unit	Height	mm		2,540						
		Width	mm		2,282						
		Length	mm		10,510	12,302	11,402		12,302	13,202	14,104
Weight	Unit		kg		9,322	10,515	10,112	10,716	11,134	11,564	12,037
	Operation weight		kg		9,879	11,526	11,123	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube						
	Water volume		l		557	1,011					
	Water pressure drop	Cooling Nom.	kPa		51.6	36.6	32.8	42.9	50.9	58.8	66.1
Air heat exchanger	Type				Microchannel						
Compressor	Type				Inverter driven single screw compressor						
	Quantity				2						
Fan	Type				Direct propeller						
	Quantity				22	26	24		26	28	30
	Air flow rate	Nom.	l/s		83,897	99,151	91,524	122,464	132,670	142,876	153,081
	Speed		rpm		700			900			
Sound power level	Cooling	Nom.	dBA		95	97	96	101		102	
Sound pressure level	Cooling	Nom.	dBA		73	74	73	78		79	
Refrigerant	Type/GWP				R-134a/1,430						
	Charge		kg		175	220	200		220	250	270
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm		273mm				
Unit	Starting current	Max	A		0.0						
	Running current	Cooling Nom.	A		608.8	686.1	647.1	735.8	806.6	874.7	957.5
		Max	A		918	994	939	1,085	1,124	1,218	1,313
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50 /400						

performances according to CSS software 10.27

EWAH-TZSSB/SLB

INVERTER

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

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

EWAH-TZSSB/SLB Microtech 4

Cooling Only				EWAH-TZSSB/SLB	170	200	240	290	330	390	420	490	530	600
Space cooling	A Condition 35°C	Pdc	kW		170.68	199.73	240.35	293.87	326.19	393.7	421.46	490.52	528.28	598.77
		ηs,c	%		166.8	169.44	179.68	186.68	180.56	181.08	180.56	187.04	186.72	190.68
SEER					4.245	4.311	4.567	4.742	4.589	4.602	4.589	4.751	4.743	4.842
Cooling capacity	Nom.		kW		171	200	240	294	326	394	421	491	528	599
Power input	Cooling	Nom.	kW		55.4	69.4	83.3	97.5	115	131	146	170	188	212
Capacity control	Method				Variable									
	Minimum capacity		%		33.4	28.6	23.6	18.7		14.3	13.4	11.8	11.2	10
EER					3.08	2.88	2.89	3.02	2.82	2.99	2.88		2.8	2.82
IPLV					5.19	5.22	5.5	5.73	5.52	5.18	5.16	5.4	5.31	5.41
Dimensions	Unit	Height	mm		2,540									
		Width	mm		2,282									
		Length	mm		2,330		3,230			5,030		5,887		6,009
Weight	Unit		kg		2,160.6	2,170.6	2,449.4	2,559.4		4,170.2		4,634		5,619
	Operation weight		kg		2,186.7	2,207.95	2,486.75	2,608.9		4,329.2	4,323.2	4,890	4,867	5,867
Water heat exchanger	Type				Plate heat exchanger					Shell and tube				
	Water volume		l		26	37		50		159	153	256	233	248
	Water flow rate	Cooling Nom.	l/s		8.2	9.5	11.5	14	15.6	18.8	20.1	23.4	25.2	28.6
	Water pressure drop	Cooling Nom.	kPa		15.1	12.3	17.1	18.2	22	24.4	31.6	33.8	31.1	27.8
Air heat exchanger	Type				Microchannel									
Compressor	Type				Driven vapour compression									
	Quantity				1					2				
Fan	Type				Direct propeller									
	Quantity				4		6			10		12		
	Air flow rate	Nom.	l/s		17,448		26,172			43,620		52,344		
	Speed		rpm		760									
Sound power level (SSB)	Cooling	Nom.	dBA		97.07	97.53	100.19	101.14		100.59	101.02	103.19	105.6	104.14
Sound power level (SLB)					91.73	92.13	94.69	96,44		95.32	97.69		99.9	99.44
Sound pressure level (SSB)	Cooling	Nom.	dBA		78.10	78.60	80.7	81.70		80.2	80.60	82.40	84.8	83.40
Sound pressure level (SLB)					72.78	73.17	75.2	76.96		74.94	75.31	76.92	79.12	78.67
Operation range	Air side	Cooling Min.~Max.	°CDB		-18~50									
	Water side	Cooling Min.~Max.	°CDB		-8~18									
Refrigerant	Type/GWP				R-1234(ze)/7									
	Charge		kg		27.6		41.4			64.2		78		102
	Circuits	Quantity			1					2				
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm		114.3mm			139.7mm		168.3mm		
Unit	Running current	Cooling Nom.	A		93.0	114.0	137.0	158.0	191.0	217.0	243.0	279.0	307.0	343.0
		Max	A		132.0	156.0	217.0	236.0	272.0	312.0	348.0	434.0	500.0	522.0
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400									

EWAH-TZSRB

Air cooled screw inverter chiller, standard efficiency, reduced sound

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

EWAH-TZXSB/XLB

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

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

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

EWAH-TZXRB

Air cooled screw inverter chiller, high efficiency, reduced sound

EWAH-TZXSB/XLB/XRB Microtech III

Cooling Only				EWAH-TZXRB	180	220	270	300	350	390	430	480	580	620
Space cooling	A Condition 35°C	Pdc		kW	180.38	224.67	270.66	300.22	354.75	391.7	427.42	481.53	573.98	619.32
		ηs,c		%	188.68	195.84	194.04	203.08	195.44	195.76	202.72	205.68	213.64	217.16
SEER					4.792	4.971	4.926	5.152	4.961	4.969	5.143	5.217	5.416	5.504
Cooling capacity	Nom.			kW	180	225	271	300	355	392	427	482	574	619
Power input	Cooling	Nom.		kW	51.8	66.3	79	89.6	103	115	125	145	164	182
Capacity control	Method				Variable									
	Minimum capacity			%	33.4	26.7	21.6	18.7	16.7	15.4	14.3	12.5	10.8	10
EER					3.49	3.39	3.43	3.35	3.42	3.41		3.32	3.48	3.39
IPLV					6.05	6.09	5.92	6.2	5.78	5.77	5.88	5.97	5.98	6.17
Dimensions	Unit	Height		mm	2,540									
		Width		mm	2,282									
		Length		mm	3,230	4,130	3,230	4,130	5,887		6,786	7,684	6,877	7,778
Weight	Unit			kg	2,547	2,913	2,717	3,083	4,645.2	4,829.2	5,204.6	5,948.6	6,040	6,684.8
	Operation weight			kg	2,584.35	2,962.5	2,766.5	3,132.5	4,798.2	5,070.2	5,437.6	6,181.6	6,341	6,976.8
Water heat exchanger	Type				Plate heat exchanger				Shell and tube					
	Water volume			l	37	50			153	241	233		301	292
	Water flow rate	Cooling	Nom.	l/s	8.6	10.7	12.9	14.3	16.9	18.7	20.4	23	27.4	29.6
	Water pressure drop	Cooling	Nom.	kPa	10.2	11.2	15.7	18.9	23.2	16.6	34.1	26.3	24.7	31.1
Air heat exchanger	Type				Microchannel									
Compressor	Type				Driven vapour compressor									
	Quantity				1				2					
Fan	Type				Direct propeller									
	Quantity				6	8	6	8	12		14	16	14	16
	Air flow rate	Nom.		l/s	26,172	34,896	26,172	34,896	51,324		59,709	68,433	59,709	68,433
	Speed			rpm	760									
Sound power level	Cooling	Nom.		dBA	88.63	89.73	92.27	92.6	91.63	91.73	92.25	93.09	95.27	95.6
Sound pressure level	Cooling	Nom.		dBA	69.20	69.80	72.80	72.60	70.90	71.00	71.10	71.6	74.5	74.20
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~55									
	Water side	Cooling	Min.~Max.	°CDB	-8~18									
Refrigerant	Type/GWP				R-1234(ze)/7									
	Charge			kg	39	52	39	52	73.2		84.6	97.6	102	116.8
	Circuits	Quantity			1				2					
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm	114.3mm			139.7mm	168.3mm				
Unit	Running current	Cooling	Nom.	A	88.5	113.05	131.55	147.5	176.9	194.09	209.13	244.41	273.41	299.81
		Max		A	134	173	190	233	266	286	311	372	403	465
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

EWAH-TZPSB/PLB

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

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

EWAH-TZPSB/PLB Microtech III

Cooling Only				EWAH-TZPSB/PLB	370	440	530	610
Space cooling	A Condition 35°C	Pdc		kW	371.15	435.24	532.06	606.43
		ηs,c		%	206.56	213.68	220.48	224.96
SEER					5.239	5.417	5.587	5.699
Cooling capacity	Nom.			kW	371	435	532	606
Power input	Cooling	Nom.		kW	102	121	137	163
Capacity control	Method				Variable			
	Minimum capacity			%	16.7	14.3	11.7	10
EER					3.62	3.58	3.86	3.7
IPLV					6.15	6.35	6.36	6.35
Dimensions	Unit	Height		mm	2,540			
		Width		mm	2,282			
		Length		mm	7,684	9,480	7,778	8,687
Weight	Unit			kg	5,741.4	6,722	6,364.8	7,140.2
	Operation weight			kg	5,982.4	7,023	6,656.8	7,636.2
Water heat exchanger	Type				Shell and tube			
	Water volume			l	241	301	292	496
	Water flow rate	Cooling	Nom.	l/s	17.7	20.8	25.4	29
	Water pressure drop	Cooling	Nom.	kPa	24.4	15	15.3	18
Air heat exchanger	Type				Microchannel			
Compressor	Type				Driven vapour compression			
	Quantity				2			
Fan	Type				Direct propeller			
	Quantity				16	20	16	18
	Air flow rate	Nom.		l/s	251,251.0	314,064	251,251.0	282,658.0
	Speed			rpm	760			
Sound power level (PSB)	Cooling	Nom.		dBA	100.3	100.8	103.24	104.21
Sound power level (PLB)	Cooling	Nom.		dBA	95.48	96	98.71	99.63
Sound pressure level (PSB)	Cooling	Nom.		dBA	78.80		81.80	82.40
Sound pressure level (PLB)	Cooling	Nom.		dBA	74.03	73.96	77.25	77.86
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~55			
	Water side	Cooling	Min.~Max.	°CDB	-8~18			
Refrigerant	Type/GWP				R-1234(ze)/7			
	Circuits	Quantity			2			
Refrigerant circuit	Charge			kg	90.4	113	116.8	131.2
Refrigerant charge	Per circuit			kg	316.4	395.5	408.8	459.2
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm			219.1mm
Unit	Running current	Cooling	Nom.	A	175.85	205.4	233.82	272.98
		Max		A	272	319	350	424
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

EWAH-TZPRB

Air cooled screw inverter chiller, premium efficiency, reduced sound

EWAH-TZPSB/PLB/PRB

Microtech III

Cooling Only				EWAH-TZPRB	370	440	530	610
Space cooling	A Condition 35°C	Pdc		kW	370.96	435.06	531.76	606.09
		ηs,c		%	206.04	213.28	219.28	223.8
SEER					5.226	5.407	5.557	5.67
Cooling capacity	Nom.			kW	371	435	532	606
Power input	Cooling	Nom.		kW	102	122	138	164
Capacity control	Method				Variable			
	Minimum capacity			%	16.7	14.3	11.7	10
EER					3.61	3.57	3.84	3.69
IPLV					6.12		6.32	
Dimensions	Unit	Height		mm	2,540			
		Width		mm	2,282			
		Length		mm	7,684	9,480	7,778	8,687
Weight	Unit			kg	5,941.4	6,922	6,684.8	7,460.2
	Operation weight			kg	6,182.4	7,223	6,976.8	7,956.2
Water heat exchanger	Type				Shell and tube			
	Water volume			l	241	301	292	496
	Water flow rate	Cooling	Nom.	l/s	17.7	20.8	25.4	28.9
	Water pressure drop	Cooling	Nom.	kPa	24.4	14.9	15.3	18
Air heat exchanger	Type				Microchannel			
Compressor	Type				Driven vapour compression			
	Quantity				2			
Fan	Type				Direct propeller			
	Quantity				16	20	16	18
	Air flow rate	Nom.		l/s	246,359.0	307,948.0	246,359.0	276,541.0
	Speed			rpm	760			
Sound power level	Cooling	Nom.		dBA	92.37	92.94	94.94	95.73
Sound pressure level	Cooling	Nom.		dBA	70.90		73.50	74.00
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~55			
	Water side	Cooling	Min.~Max.	°CDB	-8~18			
Refrigerant	Type/GWP				R-1234(ze)/7			
	Circuits	Quantity			2			
Refrigerant circuit	Charge			kg	90.4	113	116.8	131.2
Refrigerant charge	Per circuit			kg	316.4	395.5	408.8	459.2
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm			219.1mm
Unit	Running current	Cooling	Nom.	A	176.22	205.83	234.54	273.8
		Max		A	272	319	350	424
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

EWAD-TZXRC2

Air cooled screw inverter chiller, high efficiency, reduced sound

- High energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAD-TZXRC2

Microtech 4

Cooling Only				EWAD-TZXRC2	C11	C12	H12	C14	C15	H16	H17
Space cooling	A Condition 35°C	Pdc		kW	1,122	1,204	1,279	1,362	1,499	1,625	1,735
		ηs,c		%	208.8	210.2	209.8	207.8	209.4	209.3	209.7
SEER					5.30	5.33	5.32	5.27	5.31		5.32
Cooling capacity	Nom.			kW	1,122	1,204	1,279	1,362	1,499	1,625	1,735
Power input	Cooling	Nom.		kW	356.3	377.3	403	450.1	501.4	547.6	598.6
Capacity control	Method				Variable						
	Minimum capacity			%	12.5						
EER					3.15	3.19	3.17	3.03	2.99	2.97	2.90
IPLV					5.51	5.55	5.49	5.64	5.65	5.64	5.6
Dimensions	Unit	Height		mm	2,540						
		Width		mm	2,282						
		Length		mm	10,510	11,402	12,302	11,402	12,302	13,202	14,104
Weight	Unit			kg	9,322	10,112	10,515	10,716	11,134	11,564	12,037
	Operation weight			kg	9,879	11,123	11,526	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube						
	Water volume			l	557	1,011					
	Water pressure drop	Cooling	Nom.	kPa	51.4	32.7	36.5	40.8	48.5	56.1	63.2
Air heat exchanger	Type				Microchannel						
Compressor	Type				Inverter driven single screw compressor						
	Quantity				2						
Fan	Type				Direct propeller						
	Quantity				22	24	26	24	26	28	30
	Air flow rate	Nom.		l/s	81,518	89,145	96,375	89,145	96,375	104,002	111,232
	Speed			rpm	700						
Sound power level	Cooling	Nom.		dBA	92	93	94	93	94	95	
Sound pressure level	Cooling	Nom.		dBA	70		71				72
Refrigerant	Type/GWP				R-134a/1,430						
	Charge			kg	175	200	220	200	220	250	270
	Circuits	Quantity			2						
Piping connections	Evaporator water inlet/outlet (OD)				219.1mm	273mm	219.1mm	273mm			
Unit	Starting current	Max		A	0.0						
	Running current	Cooling	Nom.	A	612.3	651.0	689.6	762.5	834.0	901.3	982.6
		Max		A	918	939	994	1,085	1,124	1,218	1,313
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400						

performances according to CSS software 10.27

EWAH-TZSSC2/SLC2

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

- Optimized energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAH-TZSSC2/SLC2 Microtech 4

Cooling Only				EWAH-TZSSC2/SLC2	710	770	880	940	990	H10	C11	C12	C13	C14	C15	C16
Space cooling	A Condition 35°C	Pdc		kW	712.28	765.6	879.39	942.78	990.5	1,055.51	1,117.22	1,230.93	1,301.55	1,431.96	1,518.61	1,603.34
	ηs,c			%	181.52	183.08	182.16	181.72	182.84	181.4	182.24	179.28	193.88	192.32	190.76	188.92
SEER					4.613	4.652	4.629	4.618	4.646	4.61	4.631	4.557	4.922	4.883	4.844	4.798
Cooling capacity	Nom.			kW	712.3	765.6	879.4	942.8	990.5	1,056	1,117	1,231	1,302	1,432	1,519	1,603
Power input	Cooling	Nom.		kW	230.7	246.6	284.9	303.9	318.9	339.4	357.4	396	418.4	465.3	510.4	567.4
Capacity control	Method				Inverter controlled											
	Minimum capacity			%	12.5											
EER					3.088	3.104	3.087	3.102	3.107	3.11	3.126	3.109	3.111	3.077	2.975	2.826
IPLV					4.79	4.85	4.8	4.74	4.78	4.71	4.73	4.63	5.17	5.08	5.07	4.98
Dimensions	Unit	Height		mm	2,540											
		Width		mm	2,280											
		Length		mm	6,909		7,809	8,709	9,602	10,510	11,402	12,302	11,402	12,302	13,202	14,102
Weight	Unit			kg	7,033		7,660	8,093	8,900	9,288	10,073	10,475	10,716	11,134	11,564	12,037
	Operation weight			kg	7,313		8,152	8,585	9,483	9,871	11,116	11,518	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube											
	Water volume			l	280		492		583		1,043		1,011			
	Water flow rate	Cooling	Nom.	l/s	33.97	36.51	41.94	44.96	47.24	50.34	53.27	58.70	62.06	68.28	72.41	76.45
	Water pressure drop	Cooling	Nom.	kPa	44.6	50.8	59.7	67.7	59.9	67.2	44.3	52.7	38.7	45.9	51	56.3
Air heat exchanger	Type				Microchannel											
Compressor	Type				Inverter driven single screw compressor											
	Quantity				2											
Fan	Type				Direct propeller, on/off fans											
	Quantity				14		16	18	20	22	24	26	24	26	28	30
	Air flow rate	Nom.		l/s	71,438		81,644	91,849	102,054	112,259	122,464	132,670	122,464	132,670	142,876	153,081
	Speed			rpm	900											
Sound power level (SSC2)	Cooling	Nom.		dBA	98		99	100	101		102	103	102		103	104
Sound power level (SLC2)	Cooling	Nom.		dBA	101		102	103	104	105	106	107	105	106	107	108
Sound pressure level (SSC2)	Cooling	Nom.		dBA	77		78		79		80		79		80	
Sound pressure level (SLC2)	Cooling	Nom.		dBA	80		81	82		83	84		83		84	85
Refrigerant	Type/GWP				R-1234(ze)/7											
	Charge			kg	120		130	141	150	175	200	220	200	220	250	270
	Circuits	Quantity			2											
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm		219.1mm				273mm					
Unit	Starting current	Max		A	0											
	Running current	Cooling	Nom.	A	408.6	433.3	493.5	521.5	549.9	579.6	612.7	668.8	718.8	780.9	848.9	934.8
		Max		A	609.0	640.0	717.0	763.0	811.0	869.0	924.0	1,032.0	1,029.0	1,119.0	1,198.0	1,226.0
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

performances according to CSS software 10.27

EWAH-TZSRC2

Air cooled screw inverter chiller, standard efficiency, reduced sound

- Optimized energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

EWAH-TZSRC2 Microtech 4

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

performances according to CSS software 10.27

EWAH-TZXSC2/XLC2

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

- High energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

Cooling Only				EWAH-TZXSC2/XLC2	670	780	840	950	C10	C11	C12	C13	C14	C15
Space cooling	A Condition 35°C	Pdc	kW		669.32	783.42	840.22	947.7	1,014.01	1,119.73	1,236.7	1,347.06	1,442.56	1,526.76
		ηs,c	%		209.96	211.56	212.8	215.88	216.72	213.16	219.2	218.36	217.48	216.32
SEER					5.324	5.364	5.395	5.472	5.493	5.404	5.555	5.534	5.512	5.483
Cooling capacity	Nom.		kW		669.3	783.4	840.2	947.7	1,014	1,120	1,237	1,347	1,443	1,527
Power input	Cooling	Nom.	kW		206	242	260.2	292.4	310.6	351.7	380.1	420.4	460.7	507.5
Capacity control	Method				Inverter controlled									
	Minimum capacity		%		12.5									
EER					3.249	3.237	3.229	3.241	3.264	3.184	3.253	3.204	3.131	3.009
IPLV					5.59		5.6	5.64	5.66	5.53	5.86	5.8	5.76	5.7
Dimensions	Unit	Height	mm		2,540									
		Width	mm		2,280									
		Length	mm		6,909	7,809	8,709	10,510	11,402	12,302	11,402	12,302	13,202	14,102
Weight	Unit		kg		7,033	7,660	8,093	9,288	10,073	10,475	10,716	11,134	11,564	12,037
	Operation weight		kg		7,313	8,152	8,585	9,871	11,116	11,518	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube									
	Water volume		l		280	492		583	1,043		1,011			
	Water flow rate	Cooling	Nom.	l/s	31.92	37.36	40.07	45.20	48.35	53.39	58.97	64.23	68.78	72.80
	Water pressure drop	Cooling	Nom.	kPa	39.9	48.5	54	55.3	37.2	44.5	35.3	41.1	46.5	51.5
Air heat exchanger	Type				Microchannel									
Compressor	Type				Inverter driven single screw compressor									
	Quantity				2									
Fan	Type				Direct propeller, on/off fans									
	Quantity				14	16	18	22	24	26	24	26	28	30
	Air flow rate	Nom.	l/s		53,389	61,016	68,643	83,897	91,524	99,151	122,464	132,670	142,876	153,081
	Speed		rpm		700						900			
Sound power level (XSC2)	Cooling	Nom.	dBA		98	99	100	101	103	105	104	105	106	107
Sound power level (XLC2)	Cooling	Nom.	dBA		93	95		96	98	99	101	102		103
Sound pressure level (XSC2)	Cooling	Nom.	dBA		76	78		79	80		82		83	84
Sound pressure level (XLC2)	Cooling	Nom.	dBA		72	73		74	75	76	79			80
Refrigerant	Type/GWP				R-1234(ze)/7									
	Charge		kg		120	130	141	175	200	220	200	220	250	270
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm	219.1mm			273mm					
Unit	Starting current	Max	A		0									
	Running current	Cooling	Nom.	A	373.9	431.3	459.1	513.1	544.2	604.8	660.3	717.4	778.2	848.9
		Max		A	588.0	625.0	693.0	754.0	836.0	936.0	967.0	1,042.0	1,132.0	1,157.0
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400									

performances according to CSS software 10.27

EWAH-TZXRC2

Air cooled screw inverter chiller, high efficiency, reduced sound

- High energy efficiency both at full and part load conditions
- New single screw compressor geometry allowing performance optimization
- HFO R-1234ze(E) Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
- Refrigerant cooled inverter mounted on compressor all across the range
- New generation of air-cooled inverter series with extension of capacity range: Nominal capacity up to 1600 kW
- Includes new generation Daikin MicroTech 4 controller with higher memory capacity and faster microprocessor
- Microchannel coils

Cooling Only				EWAH-TZXRC2	670	780	840	950	C10	C11	C12	C13	C14	C15
Space cooling	A Condition 35°C	Pdc	kW		669.17	783.17	840	947.47	1,013.69	1,119.41	1,212.9	1,321.24	1,415.52	1,497.21
		ηs,c	%		208.32	211.4	212.68	215.84	216.12	212.64	219.4	220.16	218.84	217.44
SEER					5.283	5.36	5.392	5.471	5.478	5.391	5.56	5.579	5.546	5.511
Cooling capacity	Nom.		kW		669.2	783.2	840	947.5	1,014	1,119	1,213	1,321	1,416	1,497
Power input	Cooling	Nom.	kW		206.2	243.3	261.9	292.6	310.8	351.9	382.2	426	467.4	514.6
Capacity control	Method				Inverter controlled									
	Minimum capacity		%		12.5									
EER					3.246	3.219	3.207	3.238	3.261	3.181	3.174	3.101	3.029	2.91
IPLV					5.58		5.59	5.63	5.65	5.52	5.94	5.86	5.81	5.79
Dimensions	Unit	Height	mm		2,540									
		Width	mm		2,280									
		Length	mm		6,909	7,809	8,709	10,510	11,402	12,302	11,402	12,302	13,202	14,102
Weight	Unit		kg		7,033	7,660	8,093	9,288	10,073	10,475	10,716	11,134	11,564	12,037
	Operation weight		kg		7,313	8,152	8,585	9,871	11,116	11,518	11,727	12,145	12,575	13,048
Water heat exchanger	Type				Shell and tube									
	Water volume		l		280	492		583	1,043			1,011		
	Water flow rate	Cooling	Nom.	l/s	31.91	37.35	40.06	45.19	48.34	53.38	57.83	63.00	67.49	71.39
	Water pressure drop	Cooling	Nom.	kPa	39.9	48.4	54	55.3	37.2	44.4	34.1	39.7	44	49.7
Air heat exchanger	Type				Microchannel									
Compressor	Type				Inverter driven single screw compressor									
	Quantity				2									
Fan	Type				Direct propeller, on/off fans									
	Quantity				14	16	18	22	24	26	24	26	28	30
	Air flow rate	Nom.	l/s		51,803	59,430	66,660	81,518	89,145	96,375	89,145	96,375	104,002	111,232
	Speed		rpm		700									
Sound power level	Cooling	Nom.	dBA		90	91	92	93	94	95	94	95	96	
Sound pressure level	Cooling	Nom.	dBA		69	70		71		72				73
Refrigerant	Type/GWP				R-1234(ze)/7									
	Charge		kg		120	130	141	175	200	220	200	220	250	270
	Circuits	Quantity			2									
Piping connections	Evaporator water inlet/outlet (OD)				168.3mm	219.1mm			273mm					
Unit	Starting current	Max	A		0									
	Running current	Cooling	Nom.	A	374.9	432.6	460.2	514.2	545.4	606.0	670.1	725.0	783.7	853.8
		Max		A	588.0	625.0	693.0	754.0	836.0	936.0	967.0	1,042.0	1,132.0	1,157.0
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400									

performances according to CSS software 10.27

EWAD-T-SSC/SLC

Air Cooled Screw Chiller - fix speed

- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- Extremely wide range from 290kW to over 2 MW
- Units with stepless regulation offer the benefit of following the system energy demand at any time with high efficiency if compared to the units with step regulation. Each unit has infinitely variable capacity control from 100% down to 12,5%
- Advanced compressor and fans design that operate at very low sound levels
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

EWAD-T-SSC/SLC Microtech 4

Cooling Only			EWAD-T-SSC/SLC	290	330	370	510	520	580	700	800	940	C10	C11	C17	C19	C20	C21	H10	H12	H13	H14	H15	H16	H18
Cooling capacity	Nom.		kW	293	335	374	501	525	567	704	810	933	993	1,135	1,760	1,930	2,026	2,103	1,047	1,243	1,346	1,442	1,555	1,684	1,856
Power input	Cooling	Nom.	kW	92.9	113	120	165	170	187	233	269	307	349	395	611	680	706	731	373	443	471	501	533	565	662
Capacity control	Method			Stepless																					
	Minimum capacity		%	12.5																					
SEPR				5.14	5.1	5.16	5.5			5.51	5.56	5.51		5.52	5.51		5.42	5.38	5.51	5.5	5.52	5.5	5.54	5.56	5.5
EER				3.15	2.94	3.1	3.02	3.07	3.03	3.01		3.03	2.85	2.87	2.88	2.84	2.87		2.8		2.85	2.88	2.92	2.98	2.8
IPLV				4.31	4.22	4.35	4.9	4.78	5.04	4.63	4.56	4.63	4.65	4.67	4.6		4.5	4.46	4.57	4.64	4.62	4.63	4.64	4.6	4.63
Dimensions	Unit	Height	mm	2,540																					
		Width	mm	2,282																					
		Length	mm	3,239		4,139		5,039		6,009		6,909		7,809	11,409	12,309	13,209	14,109	6,909	7,809	8,709	9,609	10,510	11,409	
Weight	Unit		kg	3,062		4,104	4,724	4,860		5,316	5,663	5,950		6,468	11,277	11,808	11,999		6,490	7,062	7,362	7,654	10,157	11,277	11,385
	Operation weight		kg	3,162		4,274	4,894	5,030		5,402	5,903	6,240		6,768	12,148	12,761	13,034		7,002	7,554	7,842	8,134	10,657	12,148	12,338
Water heat exchanger	Type			Shell and tube																					
	Water volume		l	89		181	164	170	164	315	240	289		502	871	953	103		518	492	470	461	522	871	953
	Water flow rate	Cooling	Nom. l/s	14	16	17.9	23.9	25	27.1	33.6	38.7	44.5	47.4	54.2	84	92	96.6	100	49.9	59.3	64.2	68.8	74.1	80.3	88.5
	Water pressure drop	Cooling	Nom. kPa	24.5	31.2	45.3	34	51.8	67.2	46.9	34.4	42.9	48	57.1	40.2	43.4	43.9	46.9	44.6	35.3	46.2	56	65.9	37.1	40.4
Air heat exchanger	Type			Microchannel																					
Compressor	Type			Asymm single screw																					
	Quantity			2										3					2				3		
Fan	Type			Direct propeller, on/off fans																					
	Quantity			6		8		10		12		14	16	24	26	28	30		14	16	18	20	22	24	
	Air flow rate	Nom.	l/s	30,245		40,326		50,408		60,490		70,571	80,653	120,981	131,062	141,143	151,224		70,572	80,654	90,735	100,816	110,899	120,981	
	Speed		rpm	900																					
Sound power level (SSC)	Cooling	Nom.	dBA	98						99		100		103					100		101			103	
Sound pressure level (SSC)	Cooling	Nom.	dBA	78								79	78	80					79	78	79			80	
Sound power level (SLC)	Cooling	Nom.	dBA	94		95				96		97	98	100					97		98		99	100	
Sound pressure level (SLC)	Cooling	Nom.	dBA	74		75						76		77					76					77	
Refrigerant	Type			R-134a																					
	Charge		kg	50	55	58	66	67		93.6		109.2		124.8	187	203	218	234	109.2	124.8	140.4	156	172	187	
	Circuits	Quantity		2										3					2				3		
Piping connections	Evaporator water inlet/outlet (OD)			114.3		139.7				168.3			219.1	273mm					219.1mm					273mm	
Unit	Starting current	Max	A	260	320	354	576	583	606	642	694	909	922	1,025	1,515	1,604	1,668	1,732	1,005	1,141	1,160	1,225	1,440	1,446	1,584
	Running current	Cooling Nom.	A	161	189	204	272	278	303	377	418	476	526	602	920	1,019	1,059	1,093	558	660	704	742	812	860	984
		Max	A	226	256	290	364	394	417	519	571	654	712	815	1,260	1,394	1,458	1,522	750	886	950	1,015	1,116	1,191	1,329
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50 /400																					

performances according to CSS software 10.27

EWAD-T-XSC/XLC

Air Cooled Screw Chiller - fix speed

- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- Extremely wide range from 290kW to over 2 MW
- Units with stepless regulation offer the benefit of following the system energy demand at any time with high efficiency if compared to the units with step regulation. Each unit has infinitely variable capacity control from 100% down to 12,5%
- Advanced compressor and fans design that operate at very low sound levels
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

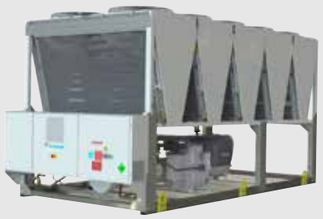
EWAD-T-XSC/XLC Microtech 4

Cooling Only			EWAD-T-XSC/XLC	350	380	400	420	440	490	540	570	730	820	950	C10	C13	C14	C17	C19	C20	H10	H11	H13	H15	H16	H18
Cooling capacity	Nom.		kW	351	379	400	418	438	492	541	560	728	822	943	1,008	1,278	1,447	1,836	2,019	2,076	1,081	1,169	1,371	1,606	1,705	1,947
Power input	Cooling	Nom.	kW	105	115	121	128	138	159	165	175	241	271	299	333	412	482	587	660	700	348	375	439	519	551	621
Capacity control	Method			Stepless																						
	Minimum capacity		%	12.5																						
SEPR				5.18		5.52	5.54	5.51	5.51	5.5		5.55	5.52	5.61	5.52	5.56	5.55	5.59	5.57	5.52	5.56	5.58	5.57	5.57	5.58	5.58
EER				3.32		3.29	3.24	3.16	3.09	3.26	3.19	3.01	3.02	3.15	3.02	3.1	3	3.13	3.05	2.96	3.1	3.11	3.12	3.09		3.14
IPLV				4.15	4.34	4.6	4.77	4.46	4.82	4.88	4.97	4.68	4.54	4.76	4.69	4.56	4.62	4.67	4.6	4.65	4.69	4.7	4.6	4.62		
Dimensions	Unit	Height	mm	2,540																						
		Width	mm	2,282																						
		Length	mm	4,139		5,039			6,009			7,809		9,609	10,510	13,209	14,109	8,709	9,609	10,510	11,409	12,309	14,109			
Weight	Unit		kg	4,064		4,360		4,860	5,398	5,316	5,663	6,376		7,654	8,020	11,581	11,999	7,362	7,392	8,020	11,277	11,684	11,672			
	Operation weight		kg	4,234		4,530		5,030	5,568	5,402	5,903	6,676		8,134	8,470	12,511	13,034	7,842	7,872	8,470	12,148	12,555	12,602			
Water heat exchanger	Type			Shell and tube																						
	Water volume		l	134	129	170		164	170	315	232	289		492	470	522	101	502		481	871		522			
	Water flow rate	Cooling	Nom. l/s	16.7	18.1	19.1	19.9	20.9	23.5	25.8	26.7	34.7	39.2	45	48.1	60.9	69	87.6	96.3	99	51.6	55.8	65.4	76.6	81.3	92.9
	Water pressure drop	Cooling	Nom. kPa	22.3	28.7	19.9	21.6	23.5	46	38.9	36.6	32	38.5	43.7	49.3	37.1	52.6	43	46	48.4	52.3	60.1	45	34.1	37.9	47.7
Air heat exchanger	Type			Microchannel																						
Compressor	Type			Asymm single screw																						
	Quantity			2												3		2		3						
Fan	Type			Direct propeller, on/off fans																						
	Quantity			8		10			12			16		20	22	28	30	18	20	22	24	26	30			
	Air flow rate	Nom.	l/s	40,326		50,408			60,490			80,653		100,816	110,898	141,143	151,224	90,735	100,817	110,898	120,981	131,062	151,224			
	Speed		rpm	900																						
Sound power level (XSC)	Cooling	Nom.	dBA	98							99	100	101		103			100	101		103					
Sound pressure level (XSC)	Cooling	Nom.	dBA	78									79		80	78	79		80	79						
Sound power level (XLC)	Cooling	Nom.	dBA	95				96	97	98		99	100		98	99	100									
Sound pressure level (XLC)	Cooling	Nom.	dBA	75				76				77			76	77										
Refrigerant	Type			R-134a																						
	Charge		kg	52	54	65	66		72	93.6		124.8		156	171.6	218	234	140.4	156	171.6	187	203	234			
	Circuits	Quantity		2												3		2		3						
Piping connections	Evaporator water inlet/outlet (OD)			139.7						168.3				219.1mm		273mm		219.1mm		273mm						
Unit	Starting current	Max	A	296	340	361	454	478	583	589	612	642	694	916	929	1,154	1,231	1,528	1,616	1,674	1,018	1,038	1,173	1,446	1,453	1,603
	Running current	Cooling Nom.	A	181	195	204	216	230	261	271	286	378	419	463	514	634	727	898	997	1,050	537	575	674	799	844	943
		Max	A	262	276	297	321	345	371	400	423	519	571	661	719	899	1,021	1,273	1,406	1,464	763	828	963	1,122	1,198	1,348
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50 /400																						

performances according to CSS software 10.27

Air Cooled Screw Chiller - fix speed

- Optimised for use with R-134a
- Large operation range (ambient temperature down to -18°C)
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- 2 or 3 independent refrigerant circuits for outstanding reliability and maximum safety for maintenance
- Extremely wide range from 290kW to over 2 MW
- Units with stepless regulation offer the benefit of following the system energy demand at any time with high efficiency if compared to the units with step regulation. Each unit has infinitely variable capacity control from 100% down to 12,5%
- Advanced compressor and fans design that operate at very low sound levels
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions

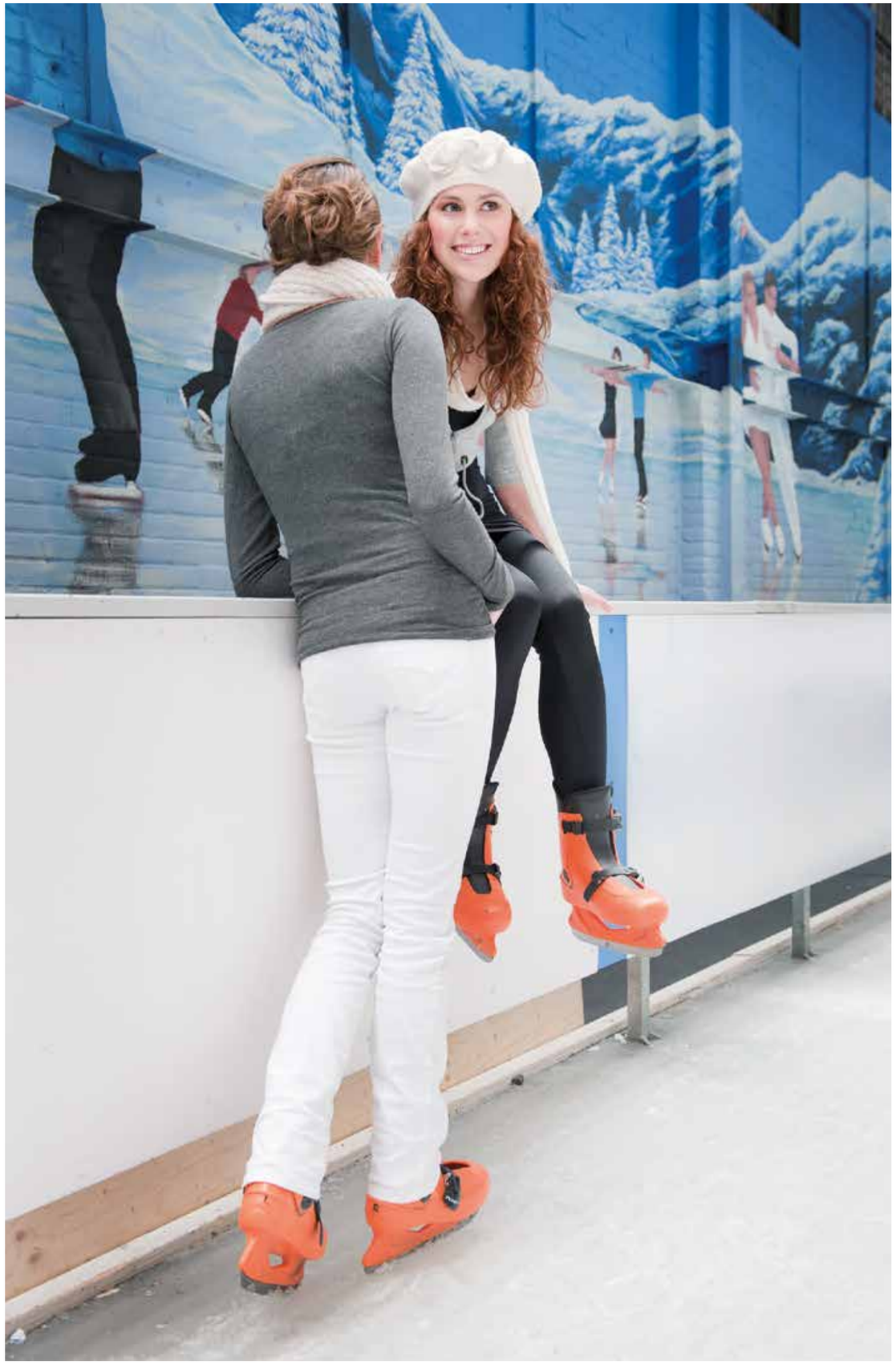


EWAD-T-XSC/XLC/XRC

Microtech 4

Cooling Only				EWAD-T-XRC	350	380	400	420	440	490	540	570	730	820	950	C10	C13	C17	C19	C20	H10	H11	H13	H15	H16	H18
Cooling capacity	Nom.			kW	342	369	390	407	427	480	527	546	708	784	912	971	1,233	1,781	1,941	1,987	1,064	1,144	1,319	1,555	1,648	1,881
Power input	Cooling	Nom.		kW	107	116	122	130	140	161	167	177	251	281	309	350	427	607	688	739	364	390	455	541	568	638
Capacity control	Method				Stepless																					
	Minimum capacity			%	12.5																					
SEPR					5,16	5,14	5,51	5,52	5,5	5,5	5,5	5,5	5,5	5,52	5,52	5,5	5,52	5,55	5,56	5,5	5,55	5,56	5,53	5,53	5,54	5,55
EER					3.19	3.17		3.12	3.04	2.96	3.14	3.07	2.81	2.79	2.95	2.77	2.89	2.93	2.82	2.69	2.92	2.93	2.89	2.87	2.9	2.95
IPLV					4.25	4.3	4.93	4.73	4.75	4.97	5.06	4.98	4.53	4.64	4.65	4.63	4.54	4.72	4.66	4.68	4.56	4.65	4.52	4.64	4.61	4.7
Dimensions	Unit	Height		mm	2,540																					
		Width		mm	2,282																					
		Length		mm	4,139		5,039				6,009				7,809		9,609	13,209	14,109		8,709	9,609	10,510	11,409	12,309	14,109
Weight	Unit			kg	4,344		4,640			5,140	5,678		5,596	5,943	6,616		7,894	12,238	12,432		7,602	7,632	8,260	11,652	12,059	12,047
	Operation weight			kg	4,514		4,810			5,310	5,848		5,682	6,183	6,916		8,374	13,168	13,467		8,082	8,112	8,710	12,523	12,930	12,977
Water heat exchanger	Type				Shell and tube																					
	Water volume			l	134	129		170			164	170	315	232	289		492	522	101		502		481	871		522
	Water flow rate	Cooling	Nom.	l/s	16.3	17.6	18.6	19.4	20.4	22.9	25.1	26.1	33.8	37.4	43.5	46.3	58.8	84.9	92.6	94.7	50.7	54.5	62.9	74.1	78.6	89.7
	Water pressure drop	Cooling	Nom.	kPa	21.3	27.4	19.1	20.6	22.4	44.1	37.2	35	30.4	35.4	41.1	46	34.8	40.6	42.8	44.7	50.8	57.8	42	32.1	35.7	44.9
Air heat exchanger	Type				Microchannel																					
Compressor	Type				Asymm single screw																					
	Quantity				2												3				2			3		
Fan	Type				Direct propeller, on/off fans																					
	Quantity				8		10				12			16		20	28	30			18	20	22	24	26	30
	Air flow rate	Nom.		l/s	29,963		37,275				44,943				59,568	59,213	74,906	105,581	113,250		67,237	74,550	82,219	90,600	98,269	113,250
	Speed			rpm	700																					
Sound power level	Cooling	Nom.		dBA	89		90				91			92		93		95			92		93		94	95
Sound pressure level	Cooling	Nom.		dBA		69					70					71		72			70		71		72	71
Refrigerant	Type				R-134a																					
	Charge			kg	52	54	65	66			72		93.6		124.8	156	218	234			140.4	156	171.6	187	203	234
	Circuits	Quantity			2												3				2			3		
Piping connections	Evaporator water inlet/outlet (OD)				139.7								168.3			219.1	273mm				219.1mm			273mm		
Unit	Starting current	Max		A	296	340	361	454	478	583	589	612	642	694	916	929	1,154	1,528	1,616	1,674	1,018	1,038	1,173	1,446	1,453	1,603
	Running current	Cooling	Nom.	A	182	197	203	216	231	267	274	291	395	439	480	537	657	928	1,037	1,100	555	593	700	828	873	974
		Max		A	262	276	297	321	345	371	400	423	519	571	661	719	899	1,273	1,406	1,464	763	828	963	1,122	1,198	1,348
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400																					

performances according to CSS software 10.27



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

EWAT-B

Multi scroll chiller with R-32 refrigerant

BLUEVOLUTION

R-32

- ☑ Top class efficiency, SEER up to 4,84. Overcoming 2021 Eco-design requirements!
- ☑ Environmental friendly refrigerant → First in the market
- ☑ New R-32 optimized scroll compressors and heat exchangers
- ☑ The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410
- ☑ The low GWP R-32 refrigerant falls into category class A2L in ISO817 and it can be safely used in many applications including chilled water systems
- ☑ As a single component refrigerant, R-32 is also easier to recycle and reuse another environmental plus in its favour
- ☑ Wide capacity range: 80 – 700 kW
- ☑ Microchannel condensing coil, for reduced refrigerant charge
- ☑ Silver and Gold efficiency versions
- ☑ 3 sound configurations
- ☑ Full compatibility with Daikin on Site
- ☑ New Hydronic Kit configurations (single and twin pump, inertial tank, VFD)
- ☑ Single and dual circuit version overlapping between 150 kW and 350 kW
  - › Single circuit units fits 2 or 3 compressors
  - › Dual circuit units fits 4 or 5 or 6 compressors
- ☑ Extensive option lists
- ☑ Fan speed modulation option (VFD)

Extensive options list

Including new options:

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

Modular-V Layout:

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

Single-V Layout

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

Free-cooling options

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

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

Free-cooling - Light

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

Free-cooling - Full

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

Benefits

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

Daikin on Site

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

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

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

- › High number of units
- › Peripheral controls

BLUEVOLUTION

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

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

Cooling Only			EWAT-B-SSB/SLB	085	115	135	155	175	195	205	215	240	260	290	310	330	340	350	420	460	510	570	610	670
Space cooling	A Condition 35°C Pdc		kW	80.92	108.97	131.42	158.15	174.93	191.39	210.53	217.08	241.41	260.58	282.93	306.42	329.59	343.51	350.1	416.28	467.54	513.41	566.53	611.64	667.91
	ηs,c		%	161	173	161		176.2	170.6	173	161	171.8	162.6	173.8	177.8	170.2	174.6	166.6	179.4	179.4	179.4	179.4	179	179
	ηs,c + VFDFAN		%	-								175.4	165.4	177.8	182.6	173.4	183.4	169.4	179.8	182.2	181.8	179.4	180.2	183.8
SEER				4.1	4.4	4.1		4.48	4.34	4.4	4.1	4.37	4.14	4.42	4.52	4.33	4.44	4.24	4.56				4.55	
SEER + VFDFAN				-								4.46	4.21	4.52	4.64	4.41	4.66	4.31	4.57	4.63	4.62	4.56	4.58	4.67
Cooling capacity	Nom.		kW	81	109	131	158	175	191	211	217	241	261	283	306	330	344	350	416	468	513	567	612	668
Power input	Cooling	Nom.	kW	31.8	38.5	49.8	61.9	67.8	69.5	80	85.8	85.2	95.6	108	113	122	117	132	147	171	186	216	230	238
Capacity control	Method			Step																				
	Minimum capacity		%	50	38	50	25	38	21	19	50	17	25	24	14	13	33	19	17	15	14	12	11	17
EER				2.55	2.83	2.64	2.55	2.58	2.75	2.63	2.53	2.83	2.73	2.62	2.72	2.71	2.94	2.65	2.84	2.73	2.76	2.63	2.66	2.8
IPLV				4.65	4.92	4.46	4.68	4.78	4.84	4.86	4.7	4.67	4.44	4.74	4.86	4.63	4.8	4.56	4.87	4.84	4.81	4.89	4.9	4.86
EER + VFDFAN				-								2.83	2.73	2.62	2.72	2.7	2.93	2.65	2.83	2.73	2.76	2.62	2.66	2.8
IPLV + VFDFAN				-								4.81	4.27	4.55	5.02	4.75	5	4.7	4.91	4.89	4.9	4.93	4.89	5
Dimensions	Unit	Height	mm	1,801			1,822	1,801		1,822		2,540												
		Width	mm	1,204								2,236												
		Length	mm	2,120	2,660		3,570	3,180	4,170		3,780	2,326			3,226				4,126			5,025	5,874	
Weight (SSB)	Unit		kg	681	767	811	1,007	984	1,166	1,158	1,184	1,712	1,739	1,912	2,186	2,214	2,343	2,242	2,721	2,881	3,037	3,278	3,712	4,073
	Operation weight		kg	686	773	820	1,014	996	1,177	1,169	1,200	1,723	1,750	1,928	2,205	2,233	2,363	2,261	2,749	2,909	3,065	3,320	3,754	4,115
Weight (SLB)	Unit		kg	691	777	821	1,028	994	1,187	1,179	1,194	1,815	1,842	2,004	2,289	2,317	2,434	2,345	2,824	3,066	3,223	3,484	3,918	4,279
	Operation weight		kg	696	783	830	1,035	1,006	1,198	1,190	1,210	1,826	1,853	2,020	2,308	2,336	2,454	2,364	2,852	3,094	3,251	3,526	3,960	4,321
Water heat exchanger	Type			Brazed plate																				
	Water volume		l	5	6	9	7	12	11		16	11		16	19		20	19	28			42		
	Water flow rate	Cooling	Nom. l/s	3.9	5.2	6.3	7.6	8.4	9.1	10.1	10.4	11.5	12.4	13.5	14.6	15.7	16.4	16.7	19.9	22.3	24.5	27	29.2	31.9
	Water pressure drop	Cooling	Nom. kPa	27.3	34.4	26.5	64.2	41.7	45.9	54.4	41.4	69.7	80	66.7	46.4	52.9	77.2	59	54.5	67.2	79.6	65.4	75.1	88
Air heat exchanger	Type			Microchannel																				
Compressor	Type			Scroll compressor																				
	Quantity			2			4	2	4		2	4		3	4		3	4		5		6		
Fan	Type			Direct propeller																				
	Quantity			4	6		8		10			4			5		6	5	7		8		9	11
	Air flow rate	Nom.	l/s	6,022	9,036		13,354	12,023	16,710		15,057	20,306			25,382		30,459	25,382	35,535		40,612		45,688	55,841
	Speed		rpm	1,360								900												
Sound power level (SSB)	Cooling	Nom.	dBA	84.8	88.2	89.7	87.8	91.8	89.9	90.9	93.2	93.3	93.8	94.8	94.9	95.3	96.1	95.6	96.7	97	97.6	97.8	98.3	99
Sound power level (SLB)	Cooling	Nom.	dBA	83.7	86.2	87	86.7	88.8	88.1	88.7	90	90.8		91	91.8	91.9	92.7	91.9	93.3	93.4	93.9	94	94.5	95.3
Sound pressure level (SSB)	Cooling	Nom.	dBA	67.4	70.5	72	69.5	73.8	71.3	72.3	74.8	74.3	74.8	75.8	75.4	75.8	76.6	76.1	76.7	77	77.6	77.9		78.2
Sound pressure level (SLB)	Cooling	Nom.	dBA	66.3	68.5	69.3	68.4	70.7	69.5	70.1	71.6	71.8		72	72.3	72.4	73.2	72.4	73.3	73.4	74		74.1	74.6
Refrigerant	Type/GWP			R-32/675																				
	Charge		kg	7.5	8.5		13	11	14.5		13	19			25.5	25	26	24	34.5	36	41	42	46.5	52.5
	Circuits	Quantity		1			2	1	2		1	2		1	2		1	2						
Piping connections	Evaporator water inlet/outlet (OD)			76.1			88.9	76.1	88.9		76.1	88.9		76.1	88.9		76.1	88.9				114.3		
Unit	Starting current	Max	A	213	313	324	284	462	384	395	498	410	420	546	573	583	588	594	636	681	719	763	801	843
	Running current	Cooling Nom.	A	59	69	83	108	113	117	131	142	147	160	179	194	206	196	219	238	285	310	358	381	398
		Max	A	73	86	96	143	132	156	167	168	182	193	216	243	254	258	265	307	351	389	433	471	513
Power supply	Phase/Frequency		Hz	3~/50																				

BLUEVOLUTION

Air cooled scroll chiller, standard efficiency, reduced sound

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

Cooling Only			EWAT-B-SRB	085	115	135	155	175	195	205	215	240	260	290	310	330	340	350	420	460	510	570	610	670
Space cooling	A Condition 35°C Pdc		kW	76.49	105	123.88	150.13	164.87	181.31	200.51	203.5	231.19	248.68	266.45	290.26	311.62	329.53	330.8	398.49	443.51	488.06	534.23	578.74	637.95
	ηs,c		%	161	173	161		166.2	162.2	167.8	161	179.8	164.2	174.2	172.2	173.8	179	165	179	179.8	179.4	179		
SEER				4.1	4.4	4.1		4.23	4.13	4.27	4.1	4.57	4.18	4.43	4.38	4.42	4.55	4.2	4.55	5.57	4.56	4.55		
Cooling capacity	Nom.		kW	76	105	124	150	165	181	201	204	231	249	266	290	312	330	331	398	444	488	534	579	638
Power input	Cooling	Nom.	kW	33.7	40.3	53	65.9	73	73.2	84.6	91.9	89	99.9	115	119	129	122	140	147	181	197	230	244	251
Capacity control	Method			Step																				
	Minimum capacity		%	50	38	50	25	38	21	19	50	17	25	24	14	13	33	19	17	15	14	12	11	17
EER				2.27	2.61	2.34	2.28	2.26	2.48	2.37	2.21	2.6	2.49	2.31	2.44	2.41	2.7	2.35	2.71	2.45	2.48	2.32	2.37	2.55
IPLV				4.67	4.97	4.5	4.63	4.74	4.64	4.91	4.66	4.93	4.27	4.51	4.82	4.7	5	4.72	4.81	4.92	4.93	5.04	5.03	5.01
Dimensions	Unit	Height	mm	1,801		1,822	1,801		1,822			2,540												
		Width	mm	1,204								2,236												
		Length	mm	2,120	2,660		3,570	3,180	4,170		3,780	2,326			3,226				4,126			5,025	5,874	
Weight	Unit		kg	691	777	821	1,028	994	1,187	1,179	1,194	1,815	1,842	2,004	2,289	2,317	2,434	2,345	2,824	3,066	3,223	3,484	3,918	4,279
	Operation weight		kg	696	783	830	1,035	1,006	1,198	1,190	1,210	1,826	1,853	2,020	2,308	2,336	2,454	2,364	2,852	3,094	3,251	3,526	3,960	4,321
Water heat exchanger	Type			Brazed plate																				
	Water volume		l	5	6	9	7	12	11		16	11		16	19		20	19	28			42		
	Water flow rate	Cooling	Nom. l/s	3.7	5	5.9	7.2	7.9	8.7	9.6	9.7	11	11.9	12.7	13.9	14.9	15.7	15.8	19	21.2	23.3	25.5	27.6	30.4
	Water pressure drop	Cooling	Nom. kPa	24.6	32.2	23.8	58.5	37.5	41.6	49.9	36.8	64.5	73.5	59.9	42.1	47.8	71.7	53.2	50.4	61.1	72.7	58.9	68	81
Air heat exchanger	Type			Microchannel																				
Compressor	Type			Scroll compressor																				
	Quantity			2		4	2	4		2		4	3	4		3	4		5		6			
Fan	Type			Direct propeller																				
	Quantity			4	6		8		10			4		5	6	5	7		8		9	11		
	Air flow rate	Nom.	l/s	4,929	7,396		11,352	9,838	14,202		12,325	17,064		21,330	25,596	21,330	29,862		34,128		38,394	46,926		
	Speed		rpm	1,200								780												
Sound power level	Cooling	Nom.	dBA	78.6	82.5	84.1	81.6	86.3	83.9	85.2	87.8	87	87.2	87.5	88.2	88.3	89.1	88.4	89.8		90.4	90.5	91	91.8
Sound pressure level	Cooling	Nom.	dBA	61.2	64.7	66.4	63.3	68.3	65.3	66.6	69.4	68.1	68.2	68.5	68.7	68.8	69.6	68.9	69.8	69.9	70.5		70.6	71.1
Refrigerant	Type/GWP			R-32/675																				
	Charge		kg	7.5	8.5		13	11	14.5		13	19			25.5	25	26	24	34.5	36	41	42	46.5	52.5
	Circuits	Quantity		1		2	1	2		1		2		1	2		1	2						
Piping connections	Evaporator water inlet/outlet (OD)			76.1		88.9	76.1	88.9		76.1		88.9		76.1	88.9		76.1	88.9				114.3		
Unit	Starting current	Max	A	213	313	324	284	462	384	395	498	410	420	546	573	583	588	594	636	681	719	763	801	843
	Running current	Cooling Nom.	A	62	71	87	115	119	123	139	151	165	189	202	216	202	231	245	298	324	378	402	414	
		Max	A	73	86	96	143	132	156	167	168	182	193	216	243	254	258	265	307	351	389	433	471	513
Power supply	Phase/Frequency		Hz	3~/50																				

BLUEVOLUTION

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

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- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
- Possible to set up detailed time bands to reduce fan rotation speed and therefore sound emission
- Thanks to the Dynamic Condensing Pressure Management, the chiller controller adjusts the condensing pressure set-point to minimize the overall chiller power input

Cooling Only			EWAT-B-XSB/XLB	085	115	145	180	185	200	220	230	250	280	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition 35°C	Pdc	kW	87.9	113.89	143.48	179.01	182.67	200.92	226.26	238.95	254.88	281.64	304.64	305.17	326.28	351.74	371.72	424.99	472.32	538.3	609.11	662.39	704.37
	ηs,c		%	167	183	175	-	175.8	173	177	169.4	175.8	180.6	181	181	177	170.6	176.2	179.4	179	179.4	181.4	182.6	180.2
	ηs,c + VFDFAN		%		-		181.8	-	176.2	184.2	174.6	184.2	188.6	190.2	184.6	178.2	181	179.8	182.6	179.8	187		190.6	
SEER				4.25	4.65	4.45	4.38	4.47	4.4	4.5	4.31	4.47	4.59	4.6		4.5	4.34	4.48	4.56	4.55	4.56	4.61	4.64	4.58
SEER + VFDFAN					-		4.62	-	4.48	4.68	4.44	4.68	4.79	4.83	4.69	4.53	4.6	4.57	6.64	4.57	4.75		4.84	
Cooling capacity	Nom.		kW	88	114	143	179	183	201	226	239	255	282	305		326	352	372	425	472	538	609	662	704
Power input	Cooling	Nom.	kW	28.8	36.6	44.4	57	63.6	65.7	74.7	74.6	81.7	87.9	97.3	97.4	106.8	113	121	137	153	175	195	211	227
Capacity control	Method			Step																				
	Minimum capacity		%	50	38	50	25	38	21	19	19	17	16	24	14	22	33	19	17	25	14	12	11	17
EER				3.05	3.12	3.23	3.14	2.87	3.06	3.03	3.21	3.12	3.2	3.13	3.313	3.06	3.11	3.06	3.11	3.09	3.07	3.12	3.14	3.1
IPLV				4.83	5	4.82	4.65	4.74	4.67	4.72	4.6	4.69	4.78	4.86	4.77	4.79	4.38	4.7	4.8	4.9	4.8	4.79	4.82	4.77
EER + VFDFAN					-		3.13	-	3.05	3.02	3.19	3.11	3.19	3.12		3.05	3.11	3.05	3.1	3.08	3.07	3.11	3.13	3.09
IPLV + VFDFAN					-		5.11	-	4.87	4.97	5	5.02	5.14	4.95	4.93	4.97	4.96	4.95	4.92	4.71	5.05	5.08	5.12	5.1
Dimensions	Unit	Height	mm	1,801		1,822	2,540	1,822	2,540															
		Width	mm	1,204			2,236	1,204	2,236															
		Length	mm	2,660	3,180	3,780	2,326	3,780	2,326		3,226					4,126			5,025		5,874	6,774		
Weight (XSB)	Unit		kg	737	830	949	1,633	1,066	1,663	1,699	2,082	1,987	2,128	2,226	2,159	2,196	2,639	2,698	2,785	3,228	3,448	3,900	4,294	4,436
	Operation weight		kg	742	836	958	1,644	1,078	1,674	1,710	2,098	2,001	2,147	2,246	2,178	2,215	2,659	2,718	2,813	3,256	3,490	3,942	4,344	4,486
Weight (XLB)	Unit		kg	747	840	959	1,736	1,076	1,766	1,802	2,082	2,090	2,231	2,318	2,262	2,299	2,731	2,801	2,888	3,393	3,633	4,106	4,500	4,642
	Operation weight		kg	752	846	968	1,747	1,088	1,777	1,813	2,098	2,104	2,250	2,338	2,281	2,318	2,751	2,821	2,916	3,421	3,675	4,148	4,550	4,692
Water heat exchanger	Type			Brazed plate																				
	Water volume		l	5	6	9	11	12	11		16	14	19	20	19		20		28		42		50	
	Water flow rate	Cooling	Nom. l/s	4.2	5.4	6.9	8.6	8.7	9.6	10.8	11.4	12.2	13.4	14.5	14.6	15.6	16.8	17.7	20.3	22.5	25.7	29.1	31.6	33.6
	Water pressure drop	Cooling	Nom. kPa	31.6	37.3	31	40.7	45.1	50.1	43.7	49.2	54.2	39.8	62.2	46.1	51.9	80.6	65.7	56.6	68.5	59.7	74.6	70.2	78.5
Air heat exchanger	Type			Microchannel																				
Compressor	Type			Scroll compressor																				
	Quantity			2			4	2	4		2	4	3	4		3	4			5	6			
Fan	Type			Direct propeller																				
	Quantity			6	8	10	4	10	4		5	6				7	8	9	10	12	13	14		
	Air flow rate	Nom.	l/s	9,036	12,023	15,057	20,306	15,057	20,306		25,382	30,459				35,535	40,612	45,688	50,765	60,918	65,994	71,071		
	Speed		rpm	1,360			900	1,360	900															
Sound power level (XSB)	Cooling	Nom.	dBA	86	88.8	90.5	91.2	92.1	92	92.7	94.8	93.8	94.6	95.6	95	95.4	96.4	96.2	96.9	97.6	98	98.6	99	99.4
Sound power level (XLB)	Cooling	Nom.	dBA	85.2	87.1	88.5	90.6	89.3	90.6	90.7	91.8	91.7	92.5	92.6	92.5	92.6	93.3	93.2	93.8	94.4		95.6	95.9	96.3
Sound pressure level (XSB)	Cooling	Nom.	dBA	68.3	70.8	72.2	72.3	73.7	73.1	73.7	75.3	74.3	75.1	76.1	75.5	75.9	76.4	76.3	77	77.2	77.6	77.8	77.9	78.3
Sound pressure level (XLB)	Cooling	Nom.	dBA	67.5	69.1	70.1	71.6	70.9	71.7		72.3	72.2	73	73.1	73	73.1	73.3		73.9	74		74.8		75.2
Refrigerant	Type/GWP			R-32/675																				
	Charge		kg	9	10	11	20	12	20		23.5	24	27.5	28		27.5	32	31	36	43.5	49	55	60	66
	Circuits	Quantity		1			2	1	2		1	2		1	2		1		2					
Piping connections	Evaporator water inlet/outlet (OD)			76.1			88.9	76.1	88.9		76.1	88.9		76.1	88.9		88.9				114.3			
Unit	Starting current	Max	A	215	315	328	290	464	388	399	506	414	543	554		564	592	602	640	678	727	779	817	855
	Running current	Cooling Nom.	A	56	67	78	110	108	122	135	128	145	158	168	170	183	192	208	234	259	298	334	360	387
		Max	A	75	87	100	149	134	160	171	176	186	213	224		235	262	273	311	348	397	449	487	525
Power supply	Phase/Frequency		Hz	3~/50																				

BLUEVOLUTION

Air cooled scroll chiller, high efficiency, reduced sound

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Cooling Only			EWAT-B-XRB	085	115	145	180	185	200	220	230	250	280	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition 35°C	Pdc	kW	81.86	108.59	135.62	168.03	166.16	187.56	208.44	224.52	238.22	264.73	284.94	284.65	301.84	328.88	346.48	394.41	439.5	501.51	571.63	621.1	659.28
	ηs,c		%	213.28	179.4	166.6	177	164.6	186.6	179	169	177	186.6	185.8	183	173.8	180.6	176.2	181.8	179	183	187.4		185.4	
SEER				4.13	4.56	4.24	4.5	4.19	4.74	4.55	4.3	4.5	4.74	4.72	4.65	4.42	4.59	4.48	4.62	4.55	4.65	4.76		4.71
Cooling capacity	Nom.		kW	82	109	136	168	166	188	208	225	238	265	285		302	329	346	394	440	502	572	621	659
Power input	Cooling	Nom.	kW	30.8	38.9	46.9	59.1	70.5	69.8	80.7	79.2	87.3	92.2	105	103	115	121	130	147	163	190	207	224	242
Capacity control	Method			Step																				
	Minimum capacity		%	50	38	50	25	38	21	19	50	17	16	24	14	22	33	19	17	25	14	12	11	17
EER				2.66	2.79	2.89	2.84	2.36	2.69	2.58	2.84	2.73	2.87	2.72	2.76	2.63	2.71	2.67	2.69		2.64	2.76	2.77	2.72
IPLV				4.74	5.1	4.76	5.04	4.72	5.05	4.97	4.86	4.91	5.08	4.78	4.94	4.62	5.04	4.95	4.88	4.72	4.96	5.04	5.07	5.08
Dimensions	Unit	Height	mm	1,801		1,822	2,540	1,822	2,540															
		Width	mm	1,204			2,236	1,204	2,236															
		Length	mm	2,660	3,180	3,780	2,326	3,780	2,326		3,226					4,126			5,025		5,874	6,774		
Weight	Unit		kg	747	840	959	1,736	1,076	1,766	1,802	2,082	2,090	2,231	2,318	2,262	2,299	2,731	2,801	2,888	3,393	3,633	4,106	4,500	4,642
	Operation weight		kg	752	846	968	1,747	1,088	1,777	1,813	2,098	2,104	2,250	2,338	2,281	2,318	2,751	2,821	2,916	3,421	3,675	4,148	4,550	4,692
Water heat exchanger	Type			Brazed plate																				
	Water volume		l	5	6	9	11	12	11		16	14	19	20	19		20		28		42		50	
	Water flow rate	Cooling	Nom. l/s	3.9	5.2	6.5	8	7.9	9	10	10.7	11.4	12.6	13.6	14.4	15.7	16.5	18.8	21	23.9	27.3	29.6	31.5	
	Water pressure drop	Cooling	Nom. kPa	27.8	34.2	28	36.3	38	44.2	37.7	44	48.2	35.6	55.1	40.6	45.1	71.4	57.9	49.5	60.2	52.5	66.5	62.6	69.7
Air heat exchanger	Type			Microchannel																				
Compressor	Type			Scroll compressor																				
	Quantity			2			4	2	4		2	4	3	4		3	4			5	6			
Fan	Type			Direct propeller																				
	Quantity			6	8	10	4	10	4		5	6				7	8	9	10	12	13	14		
	Air flow rate	Nom.	l/s	6,673	8,896	11,122	15,054	11,122	15,054		18,819	18,818	22,582			26,346	30,110	33,874	37,637	45,164	48,928	52,692		
	Speed		rpm	1,108			700	1,108	700															
Sound power level	Cooling	Nom.	dBA	77.9	81.9	84	84.2	86	84.5	84.8	86.2	85.8	86.6	87	86.7	86.9	87.7	87.6	88.3	88.9	89.3	90	90.4	90.7
Sound pressure level	Cooling	Nom.	dBA	60.2	63.9	65.6	65.3	67.7	65.5	65.8	66.7	66.3	67.1	67.5	67.2	67.4	67.8	67.7	68.3	68.5	68.9	69.2	69.3	69.6
Refrigerant	Type/GWP			R-32/675																				
	Charge		kg	9	10	11	12		20		23.5	24	27.5	28		27.5	32	31	36	43.5	49	55	60	66
	Circuits	Quantity		1			2	1	2		1	2		1	2		1		2					
Piping connections	Evaporator water inlet/outlet (OD)			76.1			88.9	76.1	88.9		76.1	88.9		76.1	88.9		88.9				114.3			
Unit	Starting current	Max	A	215	315	328	290	464	388	399	506	414	543	554		564	592	602	640	678	727	779	817	855
	Running current	Cooling Nom.	A	59	71	83	113	118	128	143	134	151	164	177	179	194	204	221	250	276	319	352	381	410
		Max	A	75	87	100	149	134	160	171	176	186	213	224		235	262	273	311	348	397	449	487	525
Power supply	Phase/Frequency		Hz	3~/50																				

EWYA-DV3P

Air cooled mini inverter heat pump

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

EWYA

Heating & Cooling				EWYA-D	009DV3P	011DV3P	014DV3P	016DV3P
Space cooling	A Condition 35°C	Pdc		kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62	5.79	5.71	5.59
Space heating	Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9.35 (1) / 9.10 (2)	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Heating capacity	Nom.			kW	9.37 (3) / 9.00 (4)	10.6 (3) / 9.82 (4)	12.0 (3) / 12.5 (4)	16.0 (3) / 16.0 (4)
Power input	Cooling	Nom.		kW	2.79 (1) / 1.71 (2)	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
	Heating	Nom.		kW	1.91 (3) / 2.43 (4)	2.18 (3) / 2.68 (4)	2.46 (3) / 3.42 (4)	3.53 (3) / 4.56 (4)
Capacity control	Method				Variable (inverter)			
EER					3.35 (1) / 5.34 (2)	3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
COP					4.91 (3) / 3.71 (4)	4.83 (3) / 3.66 (4)	4.87 (3) / 3.64 (4)	4.53 (3) / 3.51 (4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Length		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			
		Heating	Min.~Max.	°CDB	9 ~60			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			TCO2Eq	2.6			
Unit	Running current	Max		A	30.8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			

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

EWYA-DW1P

Air cooled mini inverter heat pump

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

EWYA

Heating & Cooling				EWYA-D	009DW1P	011DW1P	014DW1P	016DW1P
Space cooling	A Condition 35°C	Pdc		kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62	5.79	5.71	5.59
Space heating	Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9.35 (1) / 9.10 (2)	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Heating capacity	Nom.			kW	9.37 (3) / 9.00 (4)	10.6 (3) / 9.82 (4)	12.0 (3) / 12.5 (4)	16.0 (3) / 16.0 (4)
Power input	Cooling	Nom.		kW	2.79 (1) / 1.71 (2)	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
	Heating	Nom.		kW	1.91 (3) / 2.43 (4)	2.18 (3) / 2.68 (4)	2.46 (3) / 3.42 (4)	3.53 (3) / 4.56 (4)
Capacity control	Method				Variable (inverter)			
EER					3.35 (1) / 5.34 (2)	3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
COP					4.91 (3) / 3.71 (4)	4.83 (3) / 3.66 (4)	4.87 (3) / 3.64 (4)	4.53 (3) / 3.51 (4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Length		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			
		Heating	Min.~Max.	°CDB	9 ~60			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			TCO2Eq	2.6			
Unit	Running current	Max		A	14.0			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

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

EWYA-DW1P-H-

Air cooled mini inverter heat pump

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

EWYA

Heating & Cooling				EWYA-D	009DW1P-H-	011DW1P-H-	014DW1P-H-	016DW1P-H-
Space cooling	A Condition 35°C	Pdc		kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62	5.79	5.71	5.59
Space heating	Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9.35 (1) / 9.10 (2)	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Heating capacity	Nom.			kW	9.37 (3) / 9.00 (4)	10.6 (3) / 9.82 (4)	12.0 (3) / 12.5 (4)	16.0 (3) / 16.0 (4)
Power input	Cooling	Nom.		kW	2.79 (1) / 1.71 (2)	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
	Heating	Nom.		kW	1.91 (3) / 2.43 (4)	2.18 (3) / 2.68 (4)	2.46 (3) / 3.42 (4)	3.53 (3) / 4.56 (4)
Capacity control	Method				Variable (inverter)			
EER					3.35 (1) / 5.34 (2)	3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
COP					4.91 (3) / 3.71 (4)	4.83 (3) / 3.66 (4)	4.87 (3) / 3.64 (4)	4.53 (3) / 3.51 (4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Length		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			
		Heating	Min.~Max.	°CDB	9 ~60			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			TCO2Eq	2.6			
Unit	Running current	Max		A	14.0			
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400			

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

EWYA-DV3P-H-

Air cooled mini inverter heat pump

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

EWYA

Heating & Cooling				EWYA-D	009DV3P-H-	011DV3P-H-	014DV3P-H-	016DV3P-H-
Space cooling	A Condition 35°C	Pdc		kW	9.35	11.6	12.8	14.0
	ηs,c			%	222	229	226	221
SEER					5.62	5.79	5.71	5.59
Space heating	Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
Cooling capacity	Nom.			kW	9.35 (1) / 9.10 (2)	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Heating capacity	Nom.			kW	9.37 (3) / 9.00 (4)	10.6 (3) / 9.82 (4)	12.0 (3) / 12.5 (4)	16.0 (3) / 16.0 (4)
Power input	Cooling	Nom.		kW	2.79 (1) / 1.71 (2)	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
	Heating	Nom.		kW	1.91 (3) / 2.43 (4)	2.18 (3) / 2.68 (4)	2.46 (3) / 3.42 (4)	3.53 (3) / 4.56 (4)
Capacity control	Method				Variable (inverter)			
EER					3.35 (1) / 5.34 (2)	3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
COP					4.91 (3) / 3.71 (4)	4.83 (3) / 3.66 (4)	4.87 (3) / 3.64 (4)	4.53 (3) / 3.51 (4)
Dimensions	Unit	Height		mm	870			
		Width		mm	1,380			
		Length		mm	460			
Weight	Unit			kg	147			
Water heat exchanger	Type				Plate heat exchanger			
	Water volume			l	2			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
Compressor	Type				Hermetically sealed swing inverter compressor			
	Quantity				1			
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Operation range	Air side	Cooling	Min.~Max.	°CDB	10~43			
		Heating	Min.~Max.	°CDB	-25~25			
	Water side	Cooling	Min.~Max.	°CDB	5~22			
		Heating	Min.~Max.	°CDB	9 ~60			
Refrigerant	Type/GWP				R-32/675.0			
	Control				Electronic expansion valve			
	Circuits	Quantity			1			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			TCO2Eq	2.6			
Unit	Running current	Max		A	30.8			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			

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

EWYT-B

Multi scroll heat pumps with R-32 refrigerant

- Top class efficiency, SEER up to 4,92 and SCOP up to 4,06
- Low environmental impact thanks to R-32 refrigerant
- Dedicated Scroll Compressors for hot water production up 60°C
- The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410
- The low GWP R-32 refrigerant falls into category class A2L in ISO817 and it can be safely used in many applications including chilled water systems
- As a single component refrigerant, R-32 is also easier to recycle and reuse another environmental plus in its favour
- Wide capacity range: 80 – 650 kW
- Optimized Copper -Aluminium Coils improving performances and de-frosting operation
- Silver and Gold efficiency versions
- 3 sound configurations
- 2 different layouts: Parallel Coil and Double V Coil
- One or Two independent refrigerant circuits
- Full compatibility with Daikin on Site
- Extensive option lists
- Fan speed modulation option (VFD)

Connectivity

Daikin on Site

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

› Remote monitoring
› System optimization
› Preventive maintenance
› Remote access with one click via LAN or 4G LTE router

Connection to Intelligent Chiller Manager

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

› High number of units
› Cooling and Heating mode
› Peripheral controls

Chiller intelligent Manager

Layouts & Range overview

Parallel coils

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

Double-V coils

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

Extensive option lists
Including new options:

Partial heat recovery

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

Buffer tank

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

VFD pumps and variable flow control

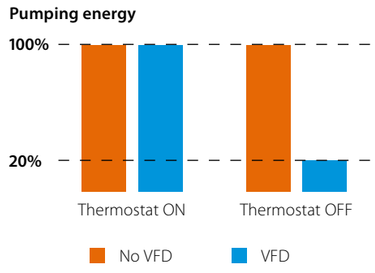
› Variable pump speed control via extenral 0-10 volt signal
› "Thermostat on" and "thermostat off" pump speed management
› Variable primary flow control

Master/Slave supplied as standard

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

Fan Silent Mode

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



BLUEVOLUTION

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

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

EWYT-B MicroTech 4

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			kg	11	19	27		35		43		27.5	42	71			85.5	100	27.5	42	71					85.5	100
	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																							

BLUEVOLUTION

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

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

EWYT-B-SR 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	11	19	27		35		43		27.5	42	71				85.5	100
	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															

BLUEVOLUTION

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

- First R-32 air cooled heat pump with Scroll compressors in the market
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- One or two truly independent refrigerant circuits for outstanding reliability
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- Low operating cost and extended operating life thanks to the careful design aimed to optimize the energy efficiency of the chillers and to improve installation profitability, effectiveness and economical management
- Fan speed modulation to ensure precise airflow control and optimized condensing temperature
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EWYT-B-XS/XL

Heating & Cooling			EWYT-B-XS/XL	085	115	135	175	215	215	235	265	310	350	400	440	500	560	600	630	650	VFDFAN 310	VFDFAN 350	VFDFAN 400	VFDFAN 440	VFDFAN 500	VFDFAN 560	VFDFAN 600	VFDFAN 630	VFDFAN 650
SEER				4.24	4.38	4.24	4.45	4.41	4.21	4.4	4.13	4.57	4.67	4.54	4.57	4.72	4.71	4.7	4.69	4.4	4.66	4.81	4.68	4.63	4.86	4.83	4.83	4.82	4.58
Space heating	Average climate water outlet 35°C	General	SCOP	3.70	3.72	3.70	3.67	3.70	3.66	3.86	3.77	3.90		3.82	3.85	3.83	3.81	3.79	3.76	3.53	3.96	3.97	3.93	3.91	3.96	3.93	3.87		3.68
			Seasonal space heating eff. class	A+	-																								
Cooling capacity	Nom.		kW	80	104	126	166	206		229	250	288	328	370	406	467	519	560	597	610	288	328	370	406	467	519	560	597	610
Heating capacity	Nom.		kW	85.86	111.02	133.18	176.29	214.81	218.29	239.37	260.83	305.53	349.96	400.64	443.87	500.13	555.95	598.67	633.91	649.7	305.53	349.96	400.64	443.87	500.13	555.95	598.67	633.91	649.7
Power input	Cooling	Nom.	kW	26.3	35.1	42.1	56.6	68	71.8	74.9	83.4	93.9	107	122	134	158	177	193	204	207	94.1	107	123	135	158	177	193	205	207
	Heating	Nom.	kW	26.06	33.19	39.11	51.68	62.55	64.91	69.49	76.15	88.61	101.7	117.65	127.8	147.3	165.04	179.94	191.66	203.16	88.81	101.93	117.94	128.08	147.63	165.38	180.33	192.05	203.95
Capacity control	Method			Step																									
	Minimum capacity		%	50	38	50	38	19	50	17	25	22	19	17	25	22	19	18	17		22	19	17	25	22	19	18	17	
EER				3.03	2.95	2.99	2.93	3.03	2.86	3.06	3	3.06	3.05	3.02	3.01	2.95	2.93	2.9	2.92	2.95	3.06	3.05	3.01		2.95	2.92	2.9	2.91	2.94
COP				3.295	3.345	3.405	3.411	3.434	3.363	3.444	3.425	3.448	3.441	3.405	3.473	3.395	3.369	3.327	3.308	3.198	3.44	3.433	3.397	3.466	3.388	3.362	3.32	3.301	3.186
IPLV				4.75	4.69		4.87	4.72	4.87	4.64	4.94	4.96		5	5.1	5.08	5.05	4.66	4.97	5.16	5.13	5.16	5.3	5.29	5.22	5.16	4.99		
Dimensions	Unit	Height	mm	1,800								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		kg	17	29.4	29.8	34.5	50	44	50	55	70		85	100	114.5	129	143.5	158		70		85	100	114.5	129	143.5	158	
	Circuits	Quantity		1			2	1		2											2								
Piping connections	Evaporator water inlet/outlet (OD)			88.9								114.3									88.9			114.3					
Unit	Starting current	Max	A	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																									

BLUEVOLUTION

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

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EWYT-B

Heating & Cooling			EWYT-B-XR	085 -XRA2	115 -XRA2	135 -XRA2	175 -XRA2	215 -XRA2	215 -XRA1	235 -XRA1	265 -XRA1	310 -XRA1	350 -XRA1	400 -XRA1	440 -XRA1	500 -XRA1	560 -XRA1	600 -XRA1	630 -XRA1	650 -XRA1
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	29.4	29.8	34.5	44	50	55	70		85	100	114.5	129	143.5	158		
	Circuits	Quantity		1					2					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																

EWYQ-BVP

Air cooled mini inverter heat pump

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

EWYQ-BVP EKRUMCL1

Heating & Cooling					EWYQ-BVP	004	005	006	008
Cooling capacity	Nom.			kW		4.00/4.01	4.93/5.07	5.88/6.07	7.95/8.23
Heating capacity	Nom.			kW		4.11/3.96	4.99/4.99	6.14/6.12	8.08/8.44
	Max.			kW		5.1	6.0	-	
Power input	Cooling	Nom.		kW		1.27/0.840	1.61/1.12	1.87/1.13	2.57/1.65
	Heating	Nom.		kW		1.19/0.860	1.46/1.09	1.75/1.28	2.31/1.84
Capacity control	Method					Variable(inverter)			
EER						3.14/4.80	3.06/4.51	3.15/5.35	3.10/4.99
COP						3.44/4.61	3.41/4.58	3.51/4.77	3.49/4.59
Space heating	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%		155	159	158	165
			SCOP			3.90	4.03		4.21
			Seasonal space heating eff. class			A++			
Dimensions	Unit	HeightxWidthxDepth		mm		735x1,090x350		997x1,160x380	
Weight	Unit			kg		83		106	
Water heat exchanger	Type					Brazed plate			
	Water flow rate	Cooling	Nom.	l/min		11.5/11.5	14.1/14.5	16.9/17.4	22.8/23.6
		Heating	Nom.	l/min		11.8/11.4	14.3/14.3	17.6/17.5	23.2/24.2
	Water volume			l		1		2	
Air heat exchanger	Type					Cross fin coil/Hi-X tubes and chromate coated waffle louvre fins		Cross fin coil/Hi-X tubes and PE coated waffle louvre fins	
Compressor	Type					Hermetically sealed swing compressor			
	Quantity					1			
Fan	Type					Propeller fan			
	Quantity					1			
	Air flow rate	Cooling	Nom.	m^3/min		53		72	
		Heating	Nom.	m^3/min		47.0		46.6	49.3
Sound power level	Cooling	Nom.		dBA		63	64	69	
	Heating	Nom.		dBA		65			
Sound pressure level	Cooling	Nom.		dBA		48	49	52	53
	Heating	Nom.		dBA		49		47	
Operation range	Air side	Cooling	Min.~Max.	°CDB		10~43		10~46	
		Heating	Min.~Max.	°CDB		-20~25		-15~25	
	Water side	Cooling	Min.~Max.	°CDB		5~22			
		Heating	Min.~Max.	°CDB		15 ~55			
Refrigerant	Type/GWP					R-410A/2,088		R-410A/2,087.5	
	Control					Electronic expansion valve			
	Circuits	Quantity				1			
Refrigerant charge	Per circuit			kg		2.10		2.70	
	Per circuit			TCO2Eq		4.4		5.6	
Water circuit	Piping connections diameter			inch		1" MBSP			
Unit	Starting current		Max	A		15.7		19.9	
	Running current		Max	A		15.7		19.9	
Power supply	Phase/Frequency/Voltage			Hz/V		1N~/50/230			

Air cooled scroll inverter heat pump, split version

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

SEHVX-BW SERHQ-BW1 BRC21A53/54 (Optional)

Heating & Cooling					SEHVX20BAW/ SERHQ020BAW1	SEHVX32BAW/ SERHQ032BAW1	SEHVX40BAW/ SERHQ020BAW1+SERHQ020BAW1	SEHVX64BAW/ SERHQ032BAW1+SERHQ032BAW1
Cooling capacity	Nom.			kW	21.2 (1)	31.8 (1)	42.3 (1)	63.3 (1)
Heating capacity	Nom.			kW	20.8 (2)	31.2 (2)	41.7 (2)	62.7 (2)
Power input	Cooling	Nom.		kW	7.47 (1)	12.7 (1)	15.1 (1)	25.5 (1)
	Heating	Nom.		kW	6.76 (2)	10.6 (2)	13.7 (2)	21.4 (2)
EER					2.84	2.5	2.8	2.48
COP					3.07	2.93	3.03	2.93
Space heating	Average climate water outlet 35°C	General	SCOP		3.93	3.53	3.80	3.53
			ηs (Seasonal space heating efficiency)	%	154	138	149	138
			Seasonal space heating eff. class		A++	A+		

Unit for indoor installation					SEHVX20BAW	SEHVX32BAW	SEHVX40BAW	SEHVX64BAW
Dimensions	Unit	Height		mm	1,573			
		Width		mm	766			
		Length		mm	396			
Weight	Unit			kg	97.0	105	137	153
	Packed unit			kg	109	117	149	165
Water side Heat exchanger	Type				Brazed plate			
	Water volume			l	3	5	6	9
	Water flow rate	Cooling	Nom.	l/min	60 (3)	90 (3)	120 (3)	181 (3)
		Heating	Nom.	l/min	60 (2)	90 (2)	120 (2)	181 (2)
Sound power level	Nom.			dBA	63.0		66.0	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~43			
		Water side	Min.~Max.	°CDB	5 (4)~20			
	Heating	Ambient	Min.~Max.	°CDB	-15~35			
		Water side	Min.~Max.	°CDB	25~50			
Refrigerant	Type / GWP				R-410A / 2,087.5			
	Circuits	Quantity			1		2	
	Control				Electronic expansion valve			
Water circuit	Piping connections diameter			inch	1-1/4" (female)		2" (female)	
	Piping			inch	1-1/4"		1-1/2"	
	Water pressure drop	Cooling	Nom.	kPa	17 (7)	24 (7)	19 (7)	29 (7)
	Total water volume			l	4.2 (8)	5.8 (8)	7.9 (8)	11.0 (8)
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/400			

Outdoor Unit					SERHQ020BAW1	SERHQ032BAW1
Dimensions	Unit	Height		mm	1,680	
		Width		mm	765	
		Length		mm	930	1,240
Weight	Unit			kg	240	316
	Packed unit			kg	273	356
Compressor	Quantity				2	3
	Type				Hermetically sealed scroll compressor	
Fan	Type				Axial	
	Quantity				1	2
	Air flow rate	Cooling	Nom.	m^3/min	185	233
		Heating	Nom.	m^3/min	185	233

(1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C (2) Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) (3) Condition: Ta 35°C - LWE 7°C (DT = 5°C) (4) Water can be used above 5°C. Between 0°C and 5°C a 30% glycol solution (propylene or ethylene) has to be used. Between 0°C and -10°C a 40% glycol solution (propylene or ethylene) has to be used (see installation manual and information related to OPZL option) (5) Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info. (6) Excluding the water volume in the unit. This volume will guarantee suficient defrost energy for all applications, however, this volume can be multiplied by 0,66 if the heating sepoint is ≥ 45° C (eg. Fan coils) (7) This is PD between inlet & outlet connections of unit. It includes the water side heat exchanger pressure drop. (8) Including piping + PHE; excluding expansion vessel

EWYD-BZSS

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

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

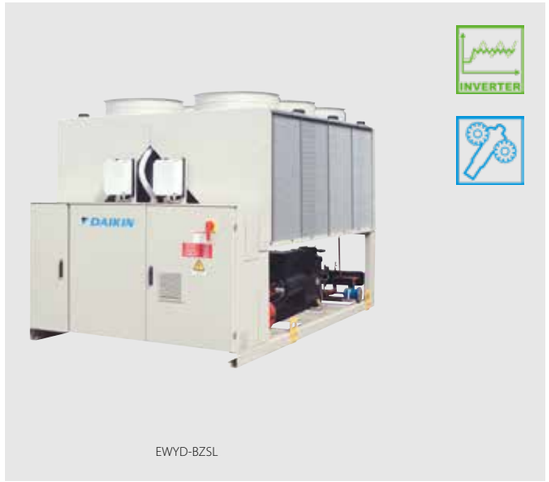
EWYD-BZSS

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

EWYD-BZSL

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 minimize pressure drops
- Standard electronic expansion valve
- Optimised defrost cycles
- Partial and total heat recovery option available
- Power factor up to 0.95
- PID microprocessor control



EWYD-BZSL

Heating & Cooling				EWYD-BZSL	250	270	290	320	330	360	370	400	430	450	510	530	570
SEER					-										4.56	4.6	4.55
Space heating	Average climate water outlet 35°C	General	SCOP		3.21		3.20		3.21				3.20		-		
Cooling capacity	Nom.			kW	247	265	290	315	330	353	370	401	423	446	503	519	569
Heating capacity	Nom.			kW	271	298	325	334	350	380	412	445	465	477	532.86	560.55	618.33
Power input	Cooling	Nom.		kW	89.5	99.5	110	115	123	134	144	151	163	158	178	185	217
	Heating	Nom.		kW	91.4	100	108	118	126	133	143	157	167	165	177.37	184.84	208.14
Capacity control	Method				Stepless												
	Minimum capacity			%	13.0									9.0	9		
EER					2.76	2.66	2.62	2.75	2.68	2.64	2.57	2.66	2.59	2.83	2.82	2.8	2.62
ESEER					4.06	4.04	4.03	4.17	4.09	4.04	4.01	4.06	4.02	4.18	-		
COP					2.96	2.97	3.00	2.82	2.78	2.85	2.88	2.83	2.79	2.88	3.004	3.033	2.971
IPLV					4.90	4.96	4.91	5.17	5.08	5.12	5.06	5.22	5.13	5.07	5.03	4.99	4.89
Dimensions	Unit	Height		mm	2,335									2,280	2,280		
		Width		mm	2,254										2,254		
		Length		mm	3,547			4,428				5,329		6,659	6,659		
Weight	Unit			kg	3,750	3,795	3,840	4,210		4,280	4,350	4,730		5,525	6,005	6,245	
	Operation weight			kg	3,888	3,933	3,978	4,343		4,408	4,478	4,858		5,765	6,234	6,474	6,463
Water heat exchanger	Type				Single pass shell & tube										Shell and tube		
	Water volume			l	138			133		128				240	229		218
	Water flow rate	Cooling	Nom.	l/s	11.8	12.7	13.9	15.1	15.8	16.9	17.7	19.2	20.3	21.4	24.1	24.9	27.3
		Heating	Nom.	l/s	13.1	14.4	15.7	16.1	16.9	18.3	19.8	21.4	22.4	23.0	-		
	Water pressure drop	Cooling	Nom.	kPa	38	44	42	48	53	57	62	71	77	45	65.5	44.4	52.4
		Heating	Nom.	kPa	30	35	52	37	40	45	51	59	64	42	-		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler										High efficiency fin and tube type		
Compressor	Type				Single screw compressor												
	Quantity				2									3	3		
Fan	Type				Direct propeller												
	Quantity				6			8				10		12	12		
	Air flow rate	Nom.		l/s	-										48,415	47,732	48,191
		Cooling	Nom.	l/s	24,432	24,264	24,095	32,576		32,628	32,127	40,720		48,863	-		
	Speed			rpm	700										900		
Sound power level	Cooling	Nom.		dBA	94			95						97	97		
Sound pressure level	Cooling	Nom.		dBA	76									77	77.2		
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45										-~-		
		Heating	Min.~Max.	°CDB	-10~20										-~-		
	Water side	Cooling	Min.~Max.	°CDB	-8~15										-~-		
		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		

EWYD-4Z
Air to water Multipurpose unit

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

1

Top class efficiency

Total Energy Ratio up to 8.8

Full inverter technology: the best choice for every application

2

Easy part load calculation via the tool CSS WEB

3

Best solution for simultaneous cooling and heating

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

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

The inverter integrated in the compressor is refrigerant cooled:

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

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

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

Check on
YouTube
www.youtube.com/DaikinEurope

› Daikin EWYD-4Z Multipurpose Unit

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

EWYD-4ZXSB2

Air to Water Multipurpose unit

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

EWYD-4ZXSB2

MicroTech 4

Multipurpose		EWYD-4ZXSB2		400	450	500	550	600	650	700	800
Air to water – cooling only (1)		Nominal Rated Capacity – Net	kW	402.4	438.4	502.8	523.4	602.4	653.7	702.9	785.7
		EER – Net		3.17	3.15	3.25	3.08	3.25	3.19	3.37	3.29
Air to water – heating only (2)		Nom. Rated Capacity – Net	kW	402.7	439.7	503.5	545.2	600.9	654.7	702.4	803.0
		COP – Net		3.33	3.41	3.45	3.44	3.45	3.38	3.55	3.54
Water to water – Cooling + heating (3)		Nom. Rated Capacity COOLNG – Net	kW	313.2	351.6	393.9	430.4	479.4	516	553.3	634.4
		Nom. Rated Capacity HEATING – Net	kW	402.4	449.3	503.4	549.4	608.8	658.3	707.1	808.9
		TER – Net		8.03	8.19	8.2	8.24	8.4	8.25	8.2	8.27
Dimensions		Height	mm	2465							
		Width	mm	2285							
		Length	mm	5825		6725		7625		8525	
Weight		Unit Weight	kg	6075	6095	6870	6870	7850	8435	9405	9430
		Operating Weight	kg	6540	6560	7560	7560	8935	9540	10785	10820
		Cold/Hot side water connections	mm	219.1							
Sound level		Sound Power – Cooling (4)	dB(A)	99	98	99		100		102	
		Sound Pressure – Cooling at 1 m (5)	dB(A)	78	77		78		79	80	
Water heat exchangers	Cold Side	Water Volume	l	126	126	214	214	369	361	468	468
		Water flow rate (1)	l/s	19.3	21.0	24.1	25.1	28.8	31.3	33.6	37.6
		Water pressure drop (1)	kPa	42.0	50.8	40.1	47.8	48.0	34.2	40.7	37.1
	Hot Side	Water Volume	l	126	126	214	214	369	361	468	468
		Water flow rate (2)	l/s	9.1	9.1	13.4	13.4	14.6	19.5	20.8	26.1
		Water pressure drop (2)	kPa	19.4	21.146	24.3	26.334	29	31.6	33.9	38.7
Fan		Quantity	n	10		12		14		16	
		Nominal air flow (1)	l/s	56550		67860		79170		90480	
Compressor		Type		Single screw							
		Oil charge	l	28						38	
		Quantity	n.	2							
Refrigerant circuit		Refrigerant type		R134a							
		Refrigerant charge	kg	198	207	200	219	247	260	328	354
		Circuits	n.	2							
Power Supply		Phase/Frequency/Voltage	Hz/V	3~/50/400							

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

Air to Water Multipurpose unit

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

EWYD-4ZXL/XRB2

MicroTech 4

Multipurpose		EWYD-4ZXRB2		400	450	500	550	600	650	700	800
Air to water – cooling only (1)		Nominal Rated Capacity – Net	kW	357.9	400.4	451.9	496.2	548.0	596.5	619.1	690.0
		EER – Net		3.05	3.06	3.12	3.06	3.11	3.07	3.19	3.08
Air to water – heating only (2)		Nom. Rated Capacity – Net	kW	358.3	398.7	452.2	493.4	550.7	601	620.9	690.8
		COP – Net		3.48	3.65	3.65	3.63	3.59	3.55	3.67	3.71
Water to water – Cooling + heating (3)		Nom. Rated Capacity COOLNG – Net	kW	281.5	312.7	351.1	383.1	435.2	473.1	489.3	543.8
		Nom. Rated Capacity HEATING – Net	kW	361.4	399.5	448.1	487.9	550.5	602.1	625.3	693.3
		TER – Net		8.04	8.20	8.24	8.31	8.55	8.33	8.19	8.27
Dimensions		Height	mm	2465							
		Width	mm	2285							
		Length	mm	5825		6725		7625		8525	
Weight		Unit Weight	kg	6240	6260	7035	7035	8015	8600	9690	9715
		Operating Weight	kg	6705	6725	7725	7725	9100	9705	11075	11110
		Cold/Hot side water connections	mm	219.1							
Sound level		Sound Power – Cooling (4)	dB(A)	87	86	87		88		90	
		Sound Pressure – Cooling at 1 m (5)	dB(A)	66						68	69
Water heat exchangers	Cold Side	Water Volume	l	126		214		369	361	468	
		Water flow rate (1)	l/s	17.1	19.2	21.6	23.7	26.2	28.5	29.6	33.0
		Water pressure drop (1)	kPa	31.8	37.1	31.7	38.7	39	27	33.7	28.1
	Hot Side	Water Volume	l	126	126	214	214	369	361	468	468
		Water flow rate (2)	l/s	17.3	19.2	21.8	23.8	26.6	29.0	30.0	33.3
		Water pressure drop (2)	kPa	31.8	38.5	27.7	33.6	32	23.8	28.5	24.4
Fan		Quantity	n	10		12		14		16	
		Nominal air flow (1)	l/s	36110		43332		50554		57776	
Compressor		Type		Single screw							
		Oil charge	l	28						38	
		Quantity	n.	2							
Refrigerant circuit		Refrigerant type		R134a							
		Refrigerant charge	kg	206	207	224	226	248	260	320	348
		Circuits	n.	2							
Power Supply		Phase/Frequency/Voltage	Hz/V	3~/50/400							

Fluid: Water; Fouling factor = 0

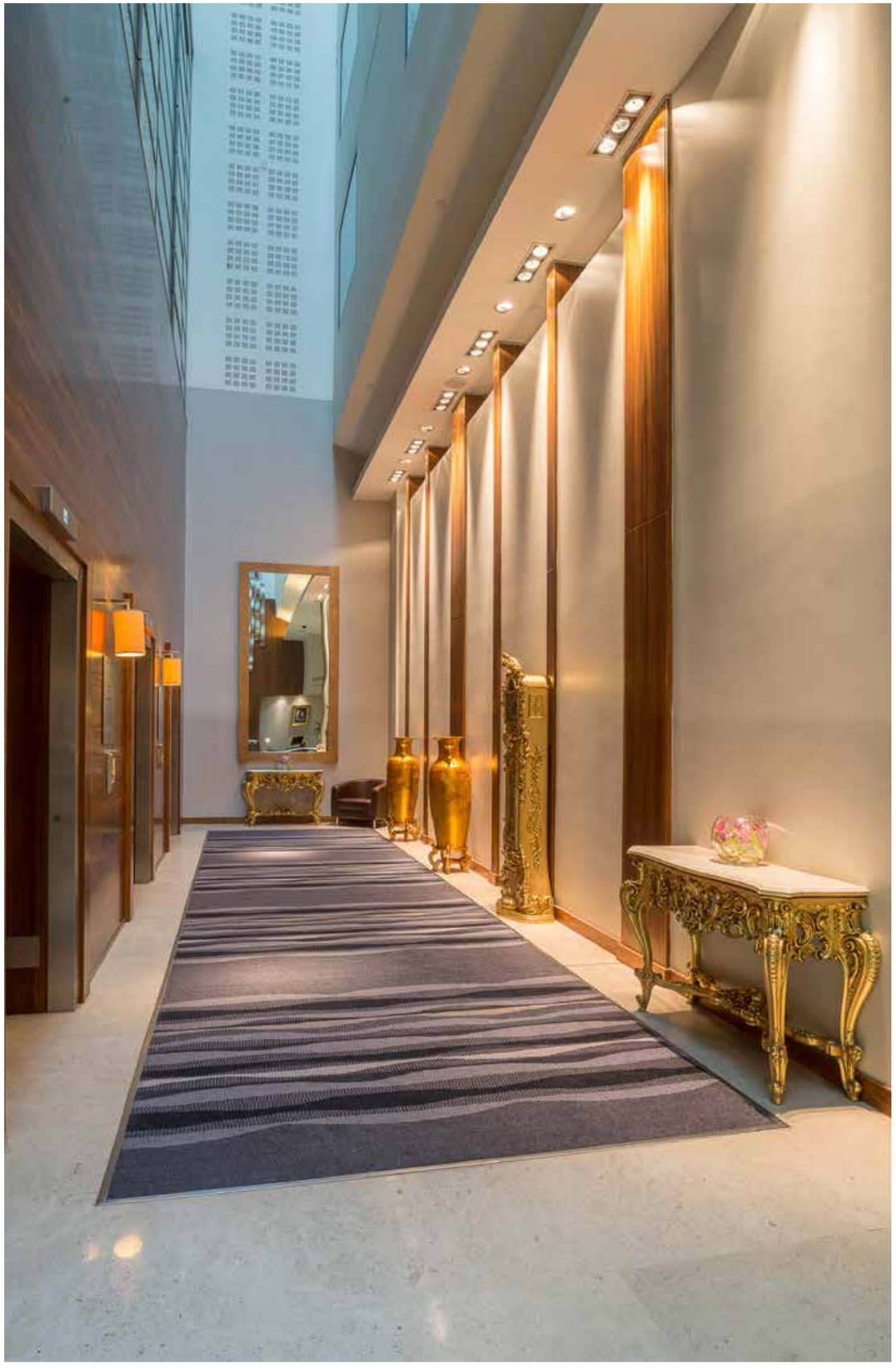
(1) Operation in Air to water "Cooling only" mode rated at 35°C ambient temperature, 50% R.H.; Entering water temperature 12°C, Outlet water temperature 7°C.

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

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

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

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



ERAD-E-SS

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									

ERAD-E-SL

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
- Advanced µC²SE controller for direct connection to a Modbus based BMS or to a remote user interface

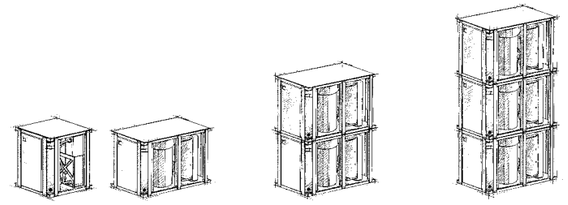
Product launch for the new Hydrocubes scheduled on April 2022

EWWQ-KBW1N µC²SE

Cooling only/Heating only				EWWQ-KBW1N	014	025	033	049	064	098	113	128	147	162	177	192
Space heating	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency) %		171	177	186	180	189				-			
			Seasonal space heating eff. class				A+++						-			
Cooling capacity	Nom.			kW	13.25	23.9	30.4	47.15	60.98	94	108	122	142	155	169	183
Power input	Cooling	Nom.		kW	3.15	5.72	7.3	11.42	14.58	22.7	25.8	28.9	33.9	37	40.1	43.2
Capacity control	Method						Fixed						-			
	Minimum capacity			%		100		50			25			16		
EER					4.209	4.177	4.164	4.127	4.182	4.17	4.19	4.22	4.18	4.2	4.22	4.24
IPLV					5.13	5.27	5.41	5.36	5.47	5.36	5.42	5.47	5.36	5.4	5.44	5.47
Dimensions	Unit	Height		mm			600				1,200			1,800		
		Width		mm							600					
		Depth		mm		600						1,200				
Weight	Unit			kg	120	170	175	310	340	620	650	680	930	960	990	1,020
	Operation weight			kg	123	175	182	320	353	640	673	707	960	993	1,026	1,060
Water heat exchanger - evaporator	Type										Brazed plate					
	Water volume			l	1.23	1.93	2.68	4.5	5.93	9	10	12	14	15	16	18
	Water flow rate	Nom.		l/s	0.64	1.15	1.46	2.26	2.92	4.5	5.2	5.8	6.8	7.4	8.1	8.8
	Water pressure drop	Cooling	Nom.	kPa	19.6	28.5	25.7	24.3	25.3	24.3	25.2		24.3		25.2	
Water heat exchanger - condenser	Type										Brazed plate					
	Water volume			l	1.83	2.93	4.03	5.45	7.35	10.9	12.8	14.69	16.35	18.25	20.15	22.04
	Water flow rate	Nom.		l/s	0.78	1.41	1.83	2.78	3.61	5.57	6.39	7.21	8.35	9.17	10	10.8
	Water pressure drop	Cooling	Nom.	kPa	13.2	18.3	18.5	26.9	28.5	26.9	28.5		26.9		28.5	
Compressor	Type										Scroll compressor					
	Quantity					1		2			4			6		
Sound power level	Cooling	Nom.		dBA		64.0	71.0	67.0	74.0	71.0	75.0	77.0	73.0	77.0	78.0	79.0
Sound pressure level	Cooling	Nom.		dBA		50.0	57.0	53.0	60.0	55.70	59.70	61.70	56.9	60.9	61.9	62.9
Operation range	Evaporator	Cooling	Min.~Max.	°CDB							-10~20					
	Condenser	Cooling	Min.~Max.	°CDB							20~55					
Refrigerant	Type										R-410A					
	Charge			kg	1.2	2	3.1	4.6	5.6	9.4	10.2	11.2	13.8	14.8	15.8	16.8
	Circuits	Quantity				1		2			4			6		
Piping connections	Evaporator water inlet/outlet (OD)					G1"		G1" 1/2			2 x 2x G1" 1/2			3 x 3x G1" 1/2		
	Condenser water inlet/outlet (OD)					G1"		G1" 1/2			2 x 2x G1" 1/2			3 x 3x G1" 1/2		
Unit	Starting current	Max		A	61.8	101.9	137.9	117.55	158.63	148.86	189.93	200.09	180.16	221.24	231.39	241.54
	Running current	Cooling	Nom.	A	5.99	9.29	12.98	18.69	26.08	37.37	44.75	52.12	56.06	63.44	70.81	78.18
		Max		A	9.47	15.65	20.73	31.31	41.46	62.61	72.76	82.91	93.92	104.07	114.22	124.37
Power supply	Phase/Frequency/Voltage			Hz/V							3~/50/400					

Water cooled scroll chiller

Combination table



		Single Module					2 x Modules			3 x Modules			
Unit Index		**014**	**025**	**033**	**049**	**064**	**098**	**113**	**128**	**147**	**162**	**177**	**192**
Capacity (kW)		**13**	**24**	**31**	**49**	**64**	**98**	**113**	**128**	**147**	**162**	**177**	**192**
Unit + control factory mounted	EWWQ014KBW1N	1	-	-	-	-	-	-	-	-	-	-	-
	EWWQ025KBW1N	-	1	-	-	-	-	-	-	-	-	-	-
	EWWQ033KBW1N	-	-	1	-	-	-	-	-	-	-	-	-
	EWWQ049KBW1N	-	-	-	1	-	-	-	-	-	-	-	-
	EWWQ064kBW1N	-	-	-	-	1	-	-	-	-	-	-	-
Modular unit (controller available as accessory)	EWWQ049KAW1M	-	-	-	-	-	2	1	-	3	2	1	-
	EWWQ064KAW1M	-	-	-	-	-	-	1	2	-	1	2	3
Controller for modular unit	ECB2MUAW	-	-	-	-	-	1	1	1	-	-	-	-
	ECB3MUAW	-	-	-	-	-	-	-	-	1	1	1	1

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

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

EWHQ-G-SS

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

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

EWHQ-G-SS MicroTech 4

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

EWWQ-G-SS

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				Fixed										
	Minimum capacity			%	50	43	50	44	50	45	50	43	50	40	50
EER					4.399	4.4	4.424	4.456	4.425	4.424	4.425	4.349	4.387	4.477	4.41
ESEER					5.51	5.52	5.51	5.53	5.51	5.53			5.52		
IPLV					6.71	6.79	6.22	6.36	6.22	6.32	6.3	6.31	6.1	6.28	6.16
Dimensions	Unit	Height		mm	1,066									1,186	
		Width		mm	928										
		Length		mm	2,432		2,264			2,432					
Weight	Unit			kg	516	606	728	762	795	832	871	921	934	1,083	1,181
	Operation weight			kg	554.9	652.4	781.6	821.4	859	901.4	945.9	1,009.6	1,023.2	1,194.7	1,311.1
Water heat exchanger - evaporator	Type				Plate heat exchanger										
	Water volume			l	6	8		10	12	13	15	17		27	34
	Water flow rate	Nom.		l/s	4.5	5.07	5.7	6.51	7.18	8.24	9.28	10.57	11.79	15.06	17.74
	Water pressure drop	Cooling	Nom.	kPa	48.8	49	39.1	33	32.6	34.5	36.7	33.8	41.8	46.8	
Water heat exchanger - condenser	Type				Plate heat exchanger										
	Water volume			l	6	8		10	12	13	15	17		27	34
	Water flow rate	Nom.		l/s	5.52	6.23	7.05	8.04	8.87	10.17	11.43	13.02	14.53	18.46	21.81
	Water pressure drop	Cooling	Nom.	kPa	72	73	60	50		52	56	46	57	69	71
Compressor	Type				Driven vapour compression										
	Quantity				2										
Sound power level	Cooling	Nom.		dBA	80.0	83.0	85.0	87.0	88.0			90.0	92.0	93.0	
Sound pressure level	Cooling	Nom.		dBA	64.0	67.0	69.0	70.0	72.0			74.0	76.0		77.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15										
		Heating	Min.~Max.	°CDB	-10~15										
	Condenser	Cooling	Min.~Max.	°CDB	25~55										
		Heating	Min.~Max.	°CDB	25~55										
Refrigerant	Type/GWP				R-410A/2,087.5										
	Charge			kg	10		11		12		15	16	17	19	20
	Circuits	Quantity			1										
Refrigerant charge				TCO2Eq	20.88		22.96		25.05		31.31	33.40	35.49	39.66	41.75
Piping connections	Evaporator water inlet/outlet (OD)				1" 1/2		2" 1/2							3"	
	Condenser water inlet/outlet (OD)				1" 1/2		2" 1/2							3"	
Unit	Starting current	Max		A	204	255	261	308	316	354	368	466	481	640	677
	Running current	Cooling	Nom.	A	42	45	48	54	61	68	76	86	95	118	143
		Max		A	59	66	72	80	88	102	116	131	145	183	221
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

EWWQ-L-SS

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				Fixed						
	Minimum capacity			%	25	21	25	22	25	23	25
EER					4.494	4.548	4.601	4.528	4.519	4.468	4.446
ESEER					5.54		5.52	5.53	5.54	5.53	5.54
IPLV					6.77	6.84	6.35	6.38	6.31	6.32	6.36
Dimensions	Unit	Height		mm	1,970						
		Width		mm	928						
		Length		mm	2,801						
Weight	Unit			kg	877	1,062	1,285	1,347	1,439	1,498	1,559
	Operation weight			kg	957	1,156	1,401	1,469	1,575	1,641	1,723
Water heat exchanger - evaporator	Type				Plate heat exchanger						
	Water volume			l	35	41	53		65		76
	Water flow rate	Nom.		l/s	8.97	10.29	11.69	13.04	14.5	16.48	18.51
	Water pressure drop	Cooling	Nom.	kPa	28	27.6	22.6	28	25.1	32.2	31.9
Water heat exchanger - condenser	Type				Plate heat exchanger						
	Water volume			l	19	22	29		35		41
	Water flow rate	Nom.		l/s	11.02	12.66	14.4	16.12	17.9	20.38	22.8
	Water pressure drop	Cooling	Nom.	kPa	72	73	61	49	50	51	55
Compressor	Type				Driven vapour compression						
	Quantity				4						
Sound power level	Cooling	Nom.		dBA	83.0	86.0	88.0	90.0	91.0		
Sound pressure level	Cooling	Nom.		dBA	65.0	68.0	70.0	72.0	74.0		73.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~15						
		Heating	Min.~Max.	°CDB	-10~15						
	Condenser	Cooling	Min.~Max.	°CDB	25~55						
		Heating	Min.~Max.	°CDB	25~55						
Refrigerant	Type/GWP				R-410A/2,087.5						
	Charge			kg	20		22		24		30
	Circuits	Quantity			2						
Refrigerant charge				kg/TCO2Eq	10.0/20.9		11.0/23.0		12.0/25.1		15.0/31.3
Piping connections	Evaporator water inlet/outlet (OD)				3"						
	Condenser water inlet/outlet (OD)				1" 1/2		2" 1/2				
Unit	Starting current	Max		A	263	320	333	388	403	456	484
	Running current	Cooling	Nom.	A	83	89	96	109	121	137	151
		Max		A	118	131	144	160	175	205	232
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400						

performances according to CSS software 10.27

EWWD-J-SS

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	120	146	154	177	207	255	284
Heating capacity	Nom.			kW	144	175	190	218	252	308	347
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	8.6	9.3	10.7	12.4	15.2	17.0
	Water flow rate	Heating	Nom.	l/s	6.9	8.4	9.1	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.

EWWH-J-SS

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

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

EWWH-J_EWWS-J

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		89	107	115	134	150	182	201
Heating capacity	Nom.			kW		107	129	141	162	182	221	245
Power input	Cooling	Nom.		kW		20.9	25.3	28.5	33.2	37.3	44.3	50.2
Capacity control	Method					Stepless						
	Minimum capacity			%		25						
EER						4.25	4.23	4.04	4.03		4.1	4
COP						5.11	5.08	4.88	4.85		4.93	4.83
IPLV						4.38	4.45	4.28	4.29	4.27	4.97	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		4.2	5.1	5.5	6.4	7.2	8.7	9.6
		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					Shell and tube						
	Water volume			l		20	20.1	22.7	25.3	28.65		32
	Water flow rate	Cooling	Nom.	l/s		5.2	6.3	6.8	7.8	9.1	10.7	11.9
		Heating	Nom.	l/s		5.1	6.2	6.7	7.7	8.9	10.5	11.7
	Water pressure drop	Cooling	Nom.	kPa		9.1	9.7	8.7	9.1	9.3	12.3	12.1
		Heating	Nom.	kPa		8.8	9.4	8.4	8.7	8.9	11.9	11.7
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)						
	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.

EWWS-J-SS

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

EWWH-J_EWWS-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	136	155	181	207	241	272
Heating capacity	Nom.			kW		142	168	191	223	257	298	338
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	7.4	8.6	9.9	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					Shell and tube						
	Water volume			l		20	20.1	22.7	25.3	28.65		32
	Water flow rate	Cooling	Nom.	l/s		6.9	8.4	9.4	10.8	12.1	14.8	16.5
		Heating	Nom.	l/s		6.7	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		88.9						
Sound pressure level	Cooling	Nom.		dBA		79						
Refrigerant	Type					R-513A						
	Charge			kg		18	35	34	37		38	
	Circuits	Quantity				1						
Piping connections				mm		76.2						
Piping connections	Condenser water inlet/outlet			inch		2" 1/2	4					
Unit	Starting current	Max		A		154		198			291	
	Running current	Cooling	Nom.	A		50	60	70	78	87	104	117
		Max		A		81	96	108	122	141	164	185
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50 /400						

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

The highest peak in chiller technology

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

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

New condenser design with integral oil separator

High efficient flooded heat exchangers

Unique Daikin single screw compressor technology

Highest efficiency in the market in its category

TOP CLASS EFFICIENCY

UNIQUE SOLUTION

Performance monitoring

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

(*) For TZ-B units an additional sub-cooling temperature sensor is required.

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

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
› Optimized refrigerant circuit design

2 Compact unit : 40% footprint reduction
Thanks to:
› New single pass condenser technology
› New integrated oil separator technology
› Optional knock down panel which reduces the unit width

3 Application flexibility : widest operating envelope in its range

4 Connectivity : Daikin on site cloud platform

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

Supporting tools

Product video

Check on
YouTube
www.youtube.com/DaikinEurope

Marketing material

Product profile

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

EWWD-VZSS

INVERTER

Water cooled screw inverter chiller, standard efficiency, standard sound

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

EWWD-VZSS

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

EWWD-VZXS

INVERTER

Water cooled screw inverter chiller, high efficiency, standard sound

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

EWWD-VZXS

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

INVERTER

Water cooled screw inverter chiller, premium efficiency, standard sound

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

EWWD-VZ

Microtech 4

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

performances according to CSS software 10.33

EWWH-VZSS

INVERTER

Water cooled screw inverter chiller, standard efficiency, standard sound

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

EWWH-VZSS

Microtech 4

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

performances according to CSS software 10.33

EWWH-VZXS

INVERTER

Water cooled screw inverter chiller, high efficiency, standard sound

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

EWWH-VZPS

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

INVERTER

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

EWWS-VZSS

INVERTER

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

- Optimized energy efficiency both at full and part load conditions
- Compact footprint through stacked heat exchanger lay-out
- Heat pump version with reversibility on water side (up to 60°C hot water production)
- Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- 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

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

EWWS-VZXS

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

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

EWWS-VZPS

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

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

EWWS-VZ

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

EWLQ-KBW1N

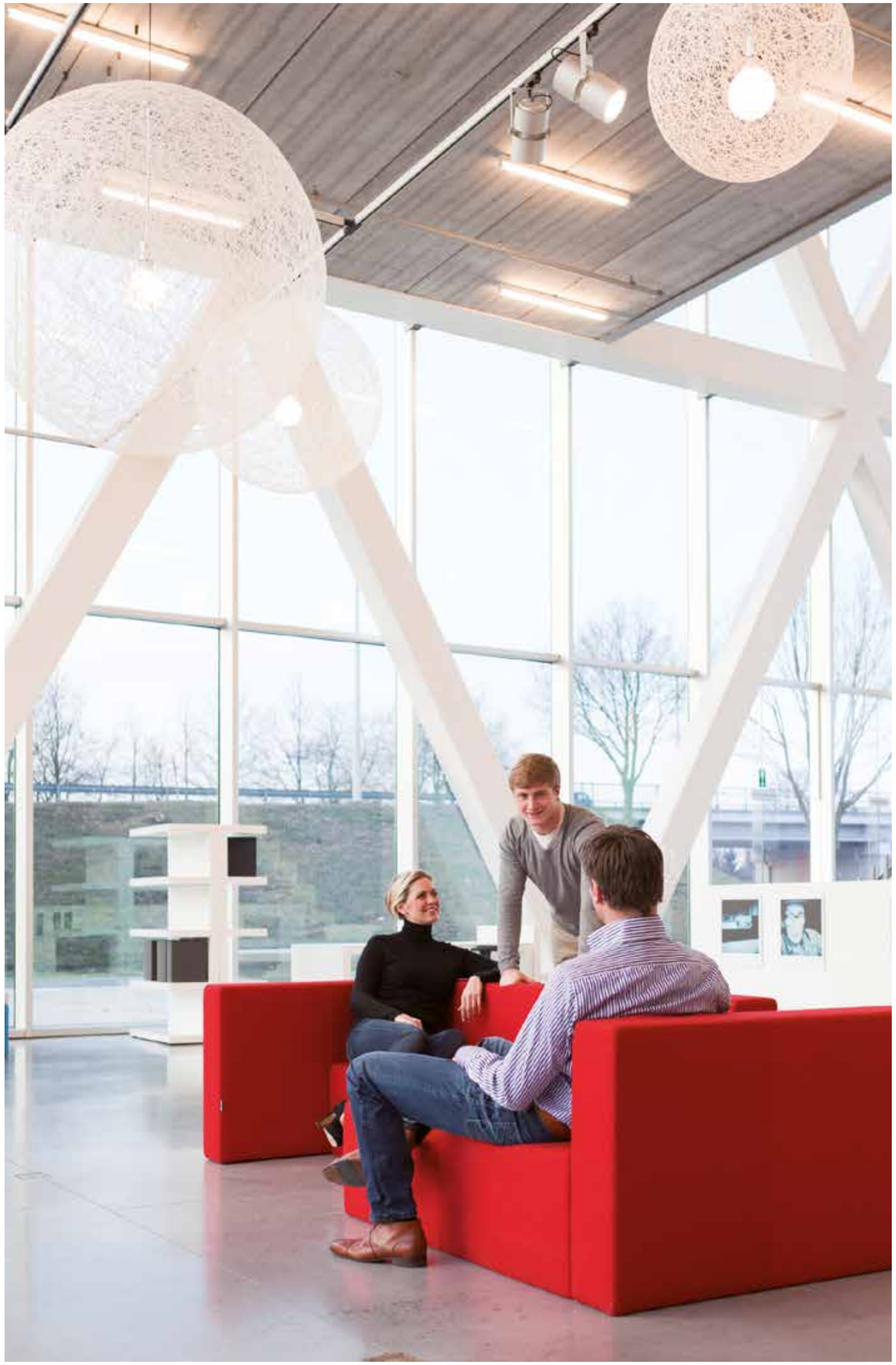
Condenserless scroll chiller

- 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

Product launch for the new Hydrocubes scheduled on April 2022

EWLQ-KBW1N µC²SE

Cooling Only				EWLQ-KBW1N	014	025	033	049	064
Cooling capacity	Nom.			kW	12.05	21.87	27.96	43.4	56.71
Power input	Cooling	Nom.		kW	3.54	6.42	8.26	12.74	16.2
EER					3.402	3.406	3.386	3.406	3.501
Dimensions	Unit	Height		mm	600				
		Width		mm	600				
		Depth		mm	600			1,200	
Weight	Unit			kg	104	138	149	252	274
Water heat exchanger - evaporator	Type				Brazed plate				
	Water pressure drop	Cooling	Nom.	kPa	16.5	24.2	22.1	20	22.2
Compressor	Type				Scroll compressor				
	Quantity				1			2	
Sound power level	Cooling	Nom.		dBA	64.0		71.0	67.0	74.0
		Nom.		dBA	64.0		71.0	67.0	74.0
Operation range	Evaporator	Cooling	Min.~Max.	°CDB	-10~20				
	Condenser	Cooling	Min.~Max.	°CDB	25~60				
Refrigerant	Type				R-410A				
	Circuits	Quantity			1			2	
Piping connections	Evaporator water inlet/outlet (OD)				G1"			G1" 1/2	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400				



EWLQ-G-SS

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 / 2,087.5										
	Circuits	Quantity			1										
Piping connections	Evaporator water inlet/outlet (OD)				1" 1/2		2" 1/2							3"	
Unit	Starting current	Max		A	204	255	261	308	316	354	368	466	481.0	640	677
	Running current	Cooling	Nom.	A	39	42	45	51	57	64	70	81	88	111	135
		Max		A	59	66	72	80	88	102	116	131	145	183	221
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400										

EWLQ-L-SS

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 / 2,087.5												
	Circuits	Quantity			2												
Piping connections	Evaporator water inlet/outlet (OD)				3"												
Unit	Starting current	Max		A	263	320	333	388	403	456	484	597	626	785	822	860	898
	Running current	Cooling	Nom.	A	78	84	90	102	114	128	141	161	176	199	223	246	269
		Max		A	118	131	144	160	175	205	232	262	290	328	366	403	441
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

EWLD-J-SS

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

EWLD-J-SS

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

EWLH-J-SS

Condenserless screw chiller, standard efficiency, standard sound

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

EWLH-J_EWLS-J

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

EWLS-J-SS

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

EWLH-J_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																		

Water cooled centrifugal chiller, high efficiency, standard sound

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EWWD-DZ Microtech 4

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

performances according to CSS software 10.27

Water cooled centrifugal chiller, high efficiency, standard sound

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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 Pdc (35°C - 27/19)	kW		341.01	474.02	566	670	682	741.96	946	1,038.18	1,130	1,436.52	1,477.93	1,684.76	2,172.91
	ηs,c	%		335	316	326	345	349	346	352	339.8	365	350.6	366	359	370.2
SEER				8.76	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	-	
	Water flow rate 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	-	
	Water flow rate Cooling Nom.	l/s		-							58.9	-	81.4	-	95.8	121
	Water pressure drop Cooling Nom.	kPa		56.4	68.4	62.4	90	52.9	46.7	58.3	44	57.6	66	58.5	50	62
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
	Running current Max	A		134	208	166	267		196	417	406	331	631	392	511	589
Power supply	Phase/Frequency/Voltage	Hz/V		3~/50/400												

performances according to CSS software 10.27

EWWH-DZXS

Water cooled centrifugal chiller, high efficiency, standard sound

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- Compact footprint through stacked heat exchanger lay-out
- HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
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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											

performances according to CSS software 10.27

EWWH-DZXE

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- Totally oil-free operation resulting in reduced maintenance costs and increased reliability
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- HFO R1234zeE Refrigerant with Ozone Depletion Potential equal to zero and extremely low Global Warming Potential
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- Easy handling: thanks to its compact size, it can easily pass through the doorway
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Cooling Only				EWWH-DZXE	245	345	405	470	480	490	685	740	810	955	C10	C12	C14
Space cooling	A Condition (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												

performances according to CSS software 10.27

EWWS-DZXS

Water cooled centrifugal chiller, high efficiency, standard sound

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- Compact footprint through stacked heat exchanger lay-out
- Increased installation flexibility thanks to limited dimensions
- Easy handling: thanks to its compact size, it can easily pass through the doorway
- MicroTech 4 controller: sophisticated adaptive software logic for stable operating conditions
- A wide portfolio of options is available to meet different requirements.
- The compressor vibration levels are extremely low as a result of the high-speed design
- Optimized for highly efficient R-513A refrigerant and compatible with next generation refrigerants

EWWS-DZ

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			

EWWS-DZXE

Water cooled centrifugal chiller, high efficiency, standard sound

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

EWWS-DZ

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		

DWSC B vintage / DWDC B vintage

Water cooled centrifugal chiller, high efficiency, standard sound

- Optional Variable Frequency Drive (VFD) to improve the part load efficiency
- High efficiency flooded type shell and tube evaporator/ condensers
- Lower equipment, installation and annual operating costs than two single compressor chillers
- Main components can be removed or repaired without shutting down the unit as the chiller has two of everything (compressors, lubrication systems, control systems and starters)
- Unloading to 5% of full load provides improved stability of the chilled water temperature and less harmful cycling of compressors
- Single stage centrifugal compressor (DWSC)

DWSC-B_DWDC-B

Cooling Only		DWSC B vintage/DWDC B vintage	DWSC B vintage.	DWDC B vintage.
Cooling capacity	Min./Max.	kW	1,050 (1)/4,500 (2)	2,100 (3)/9,000 (4)
Compressor	Type		Single stage centrifugal compressor	
Refrigerant	Type		R-134a / R-513A	
Power supply	Frequency	Hz	50/60	

(1)300 RT | (2)1250 RT | (3)600 RT | (4)2500 RT

DWSC C vintage

Water cooled centrifugal chiller, high efficiency, standard sound

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

DWSC C vintage

Microtech 4

Rapid restart for fast start-up after power loss

The UPS keeps the controller switched on enabling the unit to quickly reach the full load. Focused on data center and all applications where the cooling capacity supply is crucial.

Reduced refrigerant quantity

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

Heat pump mode

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

Touch screen operator panel

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

Unit mounted control panel

Cooling Only		DWSC C vintage	DWSC C vintage	DWSC C vintage
Cooling capacity	Min./Max.	kW	1,050 (1)/4,500 (1)	700 (1)/3,300 (1)
Compressor	Type		Single stage centrifugal compressor	Single stage centrifugal compressor
Refrigerant	Type		R-134a / R-513A	R-1234(ze)
Power supply	Frequency	Hz	50/60	50/60

(1) AHRI conditions

Accessories - Chillers

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

Serial Cards & Communication Modules		Air-cooled chillers															Water-cooled chillers							Centrifugals		
		EWAQ~BVP EWYQ~BVP	EWAQ~AC EWYQ~AC	EWAQ~CA EWYQ~CA	EWAA~DA EWYA~DA	EWYD~BZ	EWYD~4Z	EWYT~B-	EWAH~TZB & C	EWAD~TZB & C	EWAD~T- (C)	ERAD~E-	EWYQ~G-	EWYQ~G- EWYQ~F-	EWAT_B- (single)	EWAD~CF	EWWQ~KB	EWLQ~KB	EW_Q-G EW_Q_-L	EWLD~I-	EWWD~J- EWLD~J-	EWWH~VZ A	EWWD~VZ A	EWWH~DZ	EWWD~DZ	DWSC & DWDC
EKAC200J	Serial Card RS485/Modbus					●																				●
EKACBAC	Ethernet Card BACnet					●																				
EKACLONP	Serial Card LON FTT 10					●																				
EKACRS232	Serial Card RS232 Modem Interface (single unit only)					●																				●
EKACWEB	Web Server Card					●																				●
EKACBACMSTP	Serial Card BACnet MSTP					●																				
EKACBACCERT	Serial Card BACnet pre-loaded IP/Ethernet (centrifugal chillers)																									●
EKACMSTPCERT	Serial Card BACnet pre-loaded MSTP (centrifugal chillers)																									●
EKCM200J	ModBus RTU communication module						●					●	●	●	●	●			●	●	●	●	●	●	●	
EKCMLON	LON communication module						●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	
EKCMBACMSTP	BACnet/MSTP communication module						●					●	●	●	●	●			●	●	●	●	●	●	●	
EKCMBACIP	BACnet/IP communication module						●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	
EKDOSMWO	Daikin on Site Modem without M2M card					●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	

Other Systems & Accessories		Air-cooled chillers															Water-cooled chillers							Centrifugals		
		EWAQ~BVP EWYQ~BVP	EWAQ~AC EWYQ~AC	EWAQ~CA EWYQ~CA	EWAA~DA EWYA~DA	EWYD~BZ	EWYD~4Z	EWYT~B-	EWAH~TZB & C	EWAD~TZB & C	EWAD~T- (C)	ERAD~E-	EWYQ~G-	EWYQ~G- EWYQ~F-	EWAT_B- (single)	EWAD~CF	EWWQ~KB	EWLQ~KB	EW_Q-G EW_Q_-L	EWLD~I-	EWWD~J- EWLD~J-	EWWH~VZ A	EWWD~VZ A	EWWH~DZ	EWWD~DZ	DWSC & DWDC
EKCON	Converter RS485 to RS232					●																				●
EKCONUSB	Converter RS485 to USB					●																				●
EKMODEM	Fixed modem					●																				●
EKGSMOD	GSM modem					●																				●
EKRUPCJ	Remote display kit					●																				●
EKRUPCS	Local/remote display HMI						●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	
EKPWPROEXT	PlantWatchPro I/O extension module for hardwiring and retrofit					●																				●
EKGWWEB	Gateway web (Ethernet LAN SNMP)					●																				●
EKGWMODEM	Gateway for modem					●																				●
EKAC10C	Address card for connection to BMS or Remote user interface																●	●								
EKRUMCA	Remote installed user interface																●	●								
EKLS2	(d) Low noise kit 22/28/35/45/55/65 Hp-units																●	●								
ECB2MUCW	(e) Controller kit																●									
ECB3MUCW	(e) Controller kit																●									
EKRP1AHT	(g) Digital input/output PCB			CF																						
EKRUAHTB	(g) Remote user interface			CF																						
DTA104A62	(f) External control adapter			CF																						
BHGP26A1	(f) Digital pressure gauge kit			CF																						
EKQDP2M016	(g) Differential Pressure Sensor 4-20 mA 0-160 kPa							●	●	●	●				●	●			●	●	●	●	●	●	●	●
EKQDP2M020	(g) Differential Pressure Sensor 4-20 mA 0-250 kPa							●	●	●	●				●	●			●	●	●	●	●	●	●	●
EKQDP2M040	(g) Differential Pressure Sensor 4-20 mA 0-400 kPa							●	●	●	●				●	●			●	●	●	●	●	●	●	●
EKQDP2M060	(g) Differential Pressure Sensor 4-20 mA 0-600 kPa							●	●	●	●				●	●			●	●	●	●	●	●	●	●
EKDAPCONT	Containerization of one unit					●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	
EKDAPSTF	Containerization of additional units in the same container					●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	

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

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

Table of content

Air handling units

Why choose Daikin air handling units? 132

Products overview 136

Software and Eurovent certification 137
The working principle at a glance 138
D-AHU Modular T 140
D-AHU Modular L 141
D-AHU Modular R 142
D-AHU Modular P 143
D-AHU Professional 144
Daikin on Site 145
UNIQUE Daikin fresh air package 146

Daikin air handling units

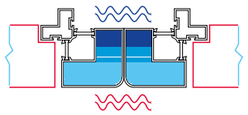
Why choose Daikin air handling units?

- 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

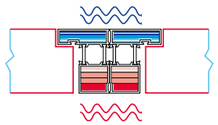
Certifications

- 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

Conventional design



Daikin design



The unique quality of Daikin AHU is accomplished by:

Panels

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

Gasket

- Liquid gasket technology drastically reduces unit air leakage

Frame

- All anodized aluminium which has the highest corrosion resistance compared to natural aluminium
- Unique Daikin thermal break (35mm 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 (see image above)
- 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)

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

Marketing tools

- Watch the time-lapse video of a Daikin AHU construction on www.youtube.com/daikinapplied(UK)
- Watch the Modular L promotional video on www.youtube.com/daikinapplied(UK)

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

Available on the App Store GET IT ON Google Play

Benefits for the installer

Plug and play design

- Pre-programmed and factory-tested controls for an easier and fast commissioning
- Low voltage fast connectors in between AHU selections easiest on site unit assembly
- Flush mounted electrical control panel avoiding risk of damage during transport and installation

Daikin Fresh air package

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

Benefits for the consultant

Quick selection tool

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

Benefits for the end user

Customizable or standard

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

Efficient control logic

- Open communication protocols (BACnet and Modbus) that guarantee BMS, and iTM compatibility
- Energy efficient controls with reduced energy and operating cost
- Highest efficiency to have sensible saving on energy

SMART CONTROLS

DAMPER AND EC FAN

HEAT RECOVERY
WHEEL AND FILTER

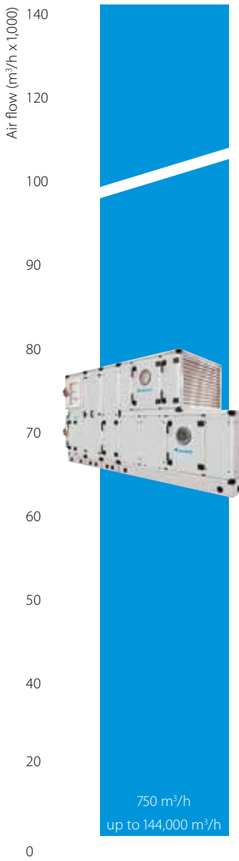
D-AHU MODULAR R
INSTALLATION

COMFORTABLE
INDOOR CLIMATE

Products overview

Centralized and decentralized ventilation

D-AHU Professional



Professional
- Infinite variable sizes
- **Tailored to the individual customer**
- Modular construction

50 years of European Design AHU manufacturing experience

Modular R
- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- **Heat recovery wheel (sorption and sensible technology)**
- **Compact design**

D-AHU Modular R

500 m³/h
up to 25,000 m³/h

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

D-AHU Modular P

500 m³/h
up to 25,000 m³/h

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

D-AHU Modular L

150 m³/h
up to 3,400 m³/h

Modular T
PRELIMINARY
- Pre-configured sizes
- Plug and play concept
- EC Fan technology
- Small footprint
- Compact design
- **High efficiency aluminium counter flow plate heat exchanger**
- **Top connected unit**

D-AHU Modular T

200 m³/h
up to 4,200 m³/h

Selection software

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

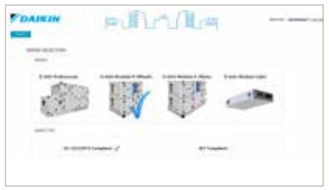
Quickly select your air handling unit by following the wizard:

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

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

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

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



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

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.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	
F9	Filter bypass leakage class	F9	F8	F7	F6	G1 TO F5
	Max. filter bypass leakage rate k in % of the volume flow rate	0.50	1	2	4	6
T2	Thermal transmittance	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

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.

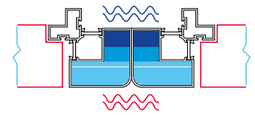
Plug and Play control solution

- 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

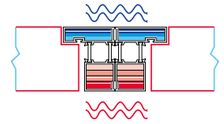
Unique section to section thermal break profile

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

Conventional design

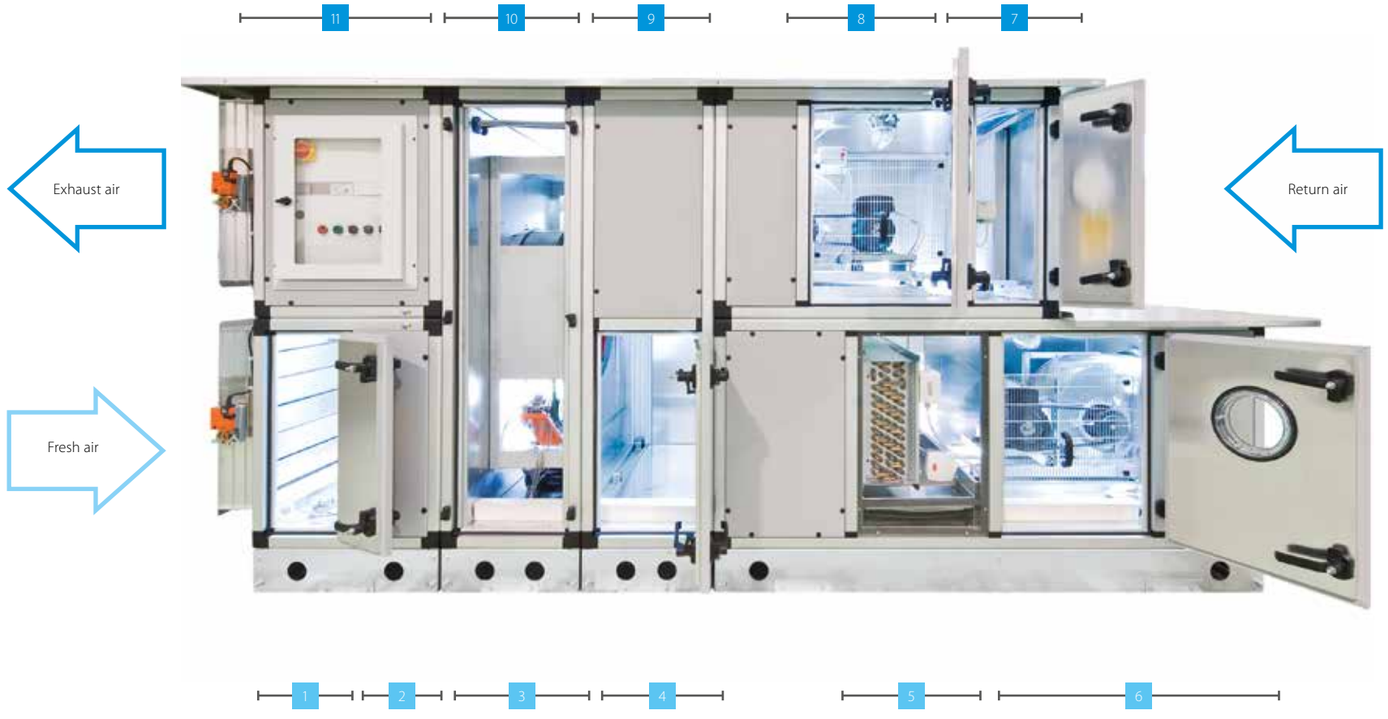


Daikin design



Supply side

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



Return side

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

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

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

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

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

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

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

Accessories
- Control features
- Frost protection
- Manometers
- Drive guard
- Roof
- …

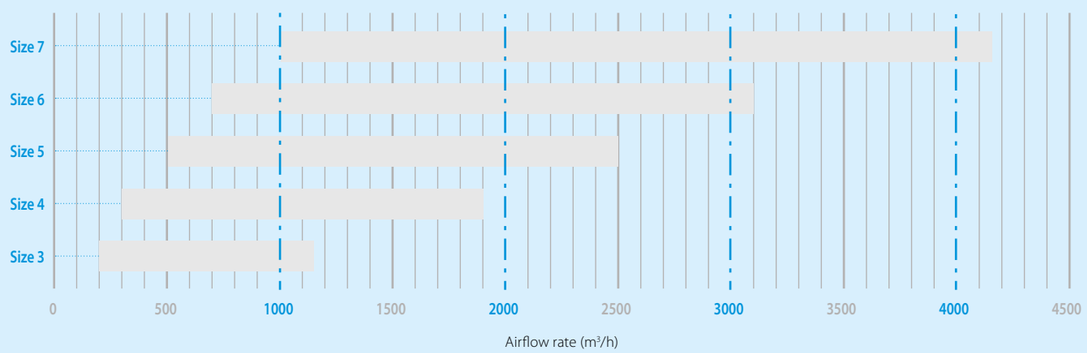
Modular T

Top connected heat recovery unit

Highlights

- 5 Predefined sizes
- Plug & Play control solution
- Compact unit from 550 mm width (for unit up to 1100 m^3/h)
- Wide air flow coverage from 200 to 4200 m^3/h
- Excellent indoor air quality (IAQ). Up to three filtration stages: more than 90% PM1 in outdoor air are deleted achieving the best IAQ
- Low noise emission thanks to superior panel construction (50mm, mineral wool)
- DX and water coil available as option
- Recirculation mixing damper (option)

Air flow range - preliminary data



Max airflow calculated @100 Pa of ESP

Modular L

Premium efficiency heat recovery unit

Highlights

- 6 Predefined sizes
- Exceeding 2018 ErP – ECODESIGN requirements
- Plug & Play control solution
- Compact unit from 280 mm height (for unit up to 550 m^3/h)
- Wide air flow coverage from 150 to 3400 m^3/h
- Excellent indoor air quality (IAQ). Up to ePM1 80% (F9) filtration level with possibility to have a pre-filter up to ePM1 50% (F7) for the best IAQ
- Low noise emission thanks to superior panel construction (50mm, mineral wool)
- EPBD compliant
- BIM file available at www.daikin.eu/BIM

EC centrifugal fan

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

Heat exchanger

- Premium quality counter flow plate heat exchanger
- Up to 92% of the thermal energy recovered
- High grade aluminium allowing high grade corrosion protection

Technical details

D-AHU Modular L			ALB02*B	ALB03*B	ALB04*B	ALB05*B	ALB06*B	ALB07*B
Airflow		m^3/h	300	600	1,200	1,600	2,500	3,000
Heat exchanger thermal efficiency[1].		%	90		91	90	91	90
External static pressure	Nom.	Pa	100					
Current	Nom.	A	0.61	1.35	2.26	2.83	2.09	6.22
Power input	Nom.	kW	0.14	0.31	0.52	0.65	1.17	1.43
SFPv[2].		$kW/m^3/s$	1.25	1.52	1.3	1.35	1.47	1.51
Electrical supply	Phase	ph	1					
	Frequency	Hz	50/60					
	Voltage	V	220/240 Vac					
Main unit dimensions	Width	mm	920	1,100	1,600		2,000	
	Height	mm	280	350	415		500	
	Length	mm	1,660	1,800	2,000			
Rectangular duct flange	Width	mm	250	400	500		700	
	Height	mm	150	200	300		400	
Weight unit		kg	125	180	270	280	355	360

1. Winter design condition: Outdoor: -10°C, 90% Indoor: 22°C, 50%
2. SFPv is a parameter that quantifies the fan efficiency (the lower it is the better will be). This reduces if airflow decreases.
3. Electrical current is based on 230V

Modular R

Highlights

- 10 Predefined sizes
- IE4 premium efficiency motor
- Compact design
- Advanced control features
- Easy installation
- Indoor air quality compliant with VDI 6022 hygiene guideline
- Operating limits from -25 °C, -40 °C with electric heaters, up to +46 °C ambient temperature
- VRV IV and ERQ coupling capability
- Indoor and outdoor versions
- Free cooling capability
- Economy and Night mode operation
- Monitoring and control through Daikin iTM
- Nominal air flow programmed at factory
- Air flow or pressure control (Variable Air Volume – Constant Air Volume)

Modular R

Heat exchanger

- High efficiency heat wheel
- Available in two versions: sorption and sensible technology
- Up to 81% of the thermal energy recovered

Simple, quick installation

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

NEW Now available with plug fan

D-AHU Modular R			1	2	3	4	5	6	7	8	9	10
Airflow		m^3/h	1,200	1,700	2,700	4,100	5,500	6,100	7,000	9,100	11,500	15,000
Temp. efficiency winter		%	80	79.7	80.1	80.2	80.7	80.1	80.7	80.8	80.5	80.6
External static pressure	Nom.	Pa	200	200	200	200	200	200	200	200	200	200
Current	Nom.	A	2.59	3.65	3.13	4.95	6.4	7.78	8.78	10.48	14.23	19.03
Power input	Nom.	kW	0.6	0.84	1.25	1.98	2.56	3.11	3.51	4.19	5.69	7.61
SFPv		$kW/m^3/s$	1.553	1.507	1.451	1.521	1.387	1.549	1.525	1.432	1.487	1.551
Electrical supply	Phase	ph	1	1	1	1	1	1	1	1	1	1
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
	Voltage	V	230	230	400	400	400	400	400	400	400	400
Dimensions unit	Width	mm	720	820	990	1,200	1,400	1,400	1,600	1,940	1,940	2,300
	Height	mm	1,320	1,320	1,540	1,740	1,740	1,920	1,920	2,180	2,460	2,570
	Length	mm	1,700	1,700	1,800	1,920	2,080	2,280	2,400	2,450	2,280	2,400
Weight unit		kg	325	350	475	575	750	790	950	1,330	1,410	1,750

Modular P

Highlights

- 10 Predefined sizes
- IE4 premium efficiency motor
- Compact design
- Advanced control features
- Easy installation
- Indoor air quality compliant with VDI 6022 hygiene guideline
- Operating limits from -25 °C, -40 °C with electric heaters, up to +46 °C ambient temperature
- VRV IV and ERQ coupling capability
- Indoor and outdoor versions
- Free cooling capability
- Economy and Night mode operation
- Monitoring and control through Daikin iTM
- Nominal air flow programmed at factory
- Air flow or pressure control (Variable Air Volume – Constant Air Volume)

Modular P

Modular Design

Modular design allows to add at the base module accessories and components such as coil, attenuator, electrical heater in order to meet all customer requests.

Heat exchanger

- Premium quality counter flow plate heat exchanger
- Up to 92 % of the thermal energy recovered
- No cross contamination

NEW Now available with plug fan

D-AHU Modular P			1	2	3	4	5	6	7	8	9	10
Airflow		m^3/h	1,100	1,600	2,400	3,100	3,700	4,750	5,500	8,000	10,400	12,500
Thermal efficiency		%	91	91.5	92	91.9	91.9	92.2	92.3	91.7	93.1	93.1
External static pressure	Nom.	Pa	200	200	200	200	200	200	200	200	200	200
Current	Nom.	A	1.78	2.48	2.08	2.73	3.45	4.58	5.25	7.53	9.55	11.55
Power input	Nom.	kW	0.41	0.57	0.83	1.09	1.38	1.83	2.1	3.01	3.82	4.62
SFPv		$kW/m^3/s$	1.183	1.092	1.09	1.113	1.188	1.21	1.207	1.216	1.148	1.166
Electrical supply	Phase	ph	1	1	1	1	1	1	1	1	1	1
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
	Voltage	V	230	230	400	400	400	400	400	400	400	400
Dimensions unit	Width	mm	720	820	990	1,200	1,400	1,400	1,600	1,940	1,940	2,300
	Height	mm	1,320	1,320	1,540	1,740	1,740	1,920	1,920	2,180	2,460	2,570
	Length	mm	2,030	2,200	2,610	2,660	2,800	3,210	3,340	3,840	4,060	4,190
Weight unit		kg	343	358	512	604	785	852	964	1,449	1,700	2,071

Professional

Flexible solution for custom applications

Flexible design

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

- Air flow from 750 m^3/h up to 144,000 m^3/h.
- All the units can be modularly designed to facilitate the transport and the assembly on site.
- New features available as counter flow plate heat exchanger, biocide filters...

Variable dimensioning

Size	Airflow (m^3/h)	Height - mm	Width - mm
1	1,800	640	720
2	2,200	640	810
3	3,500	740	980
4	5,400	840	1,190
5	6,600	840	1,390
6	7,600	940	1,390
7	9,000	1,090	1,380
8	11,000	1,150	1,550
9	14,000	1,270	1,720
10	18,300	1,390	1,970
11	23,800	1,570	2,190
12	29,800	1,690	2,480
13	33,800	1,870	2,510
14	43,200	1,990	2,940
15	51,000	2,110	3,230
16	63,000	2,290	3,620
17	68,000	2,290	3,890
18	77,000	2,290	4,410
19	87,000	2,410	4,660
20	95,400	2,470	4,960
21	111,200	2,590	5,460
22	127,000	2,650	6,060

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

Example

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

Plug & Play control system:

The Daikin Digital Control Platform, with its 310 digital inputs and outputs, stands out of the crowd for the great flexibility, providing infinite possibilities and exactly match any customer need. Other than that, Digital Control solution makes wiring easier and quicker than a traditional solution, thanks to a platform that simplifies the communication between the different sections and devices. Having less cables across the unit, then, helps unit's cleaning operations and reduces installation costs, making the Daikin AHU Professional Series even more competitive.

All units with factory integrated control are delivered pre-programmed, tested and ready for installation.

Main features

- Free cooling/free heating management
- VRV direct expansion systems management
- Eco and reduced night modes
- Up to 310 I/O (inputs/outputs)
- All components internally wired
- Fast connection between sections
- Programming schedule
- Indoor Air Quality (IAQ) controlled by CO_2 Probe
- Regulation logic Temperature Supply, Return, Ambient
- Preloaded control parameters simplify the field commissioning
- Unit delivered tested and programmed in the factory ensuring high quality level
- Integrated control ensures easy assembly on site with reduction of installation cost and time
- Minimum maintenance required
- Low voltage and high voltage in a unique solution excludes the involvement of a second company with a cost saving and no additional warranty from a third party
- User friendly control interface
- Supervision and Control management local, remote options (Modbus, Bacnet)
- Maximum flexibility in selecting the product and control feature directly from selection software

Options - D-AHU Professional

Construction type		S2	F2
Profile	Anodized aluminium	standard	standard
	Anodized aluminium with thermal break	option	option
Corner	Glass fibre reinforced nylon	standard	standard
Panel insulation	Polyurethane foam density 40 kg/m^3 thermal conductivity 0.022 W/m*K fire reaction class b-s2, diam. as per EN13501-1	standard	standard
	Mineral wool density 120 kg/m^3 thermal conductivity 0.036 W/m*K (referred to 20 °C) fire reaction class A1 as per EN13501-1	option	option
External sheet material	Pre-coated galvanized steel	standard	standard
	Aluzinc	option	option
	Aluminium	option	option
	Stainless Steel 430	option	option
	Stainless Steel 316	option	option
Internal sheet material	Pre-coated galvanized steel	option	option
	Aluzinc	standard	standard
	Aluminium	option	option
	Stainless Steel 430	option	option
	Stainless Steel 316	option	option
Base frame	Aluminium	standard (up to 30,000 m^3/h)	standard (up to 30,000 m^3/h)
	Galvanized steel	standard (above 30,000 m^3/h)	standard (above 30,000 m^3/h)
	Stainless Steel 430	option	option
	Stainless Steel 316L	option	option
Handle	Glass fibre reinforced nylon	standard	standard
Type	Compression type	standard	standard
	Hinge function type (possibility to remove door)	option	option

Daikin on Site

The Daikin On Site platform offers different features and functions to monitor and control the unit.

The monitoring system makes available dashboards, remote access, scheduling, online graphics, diagnostics, software upgrade.

Daikin fresh air package

Unique in the market

Plug and play connection of AHU to Daikin VRV and ERQ

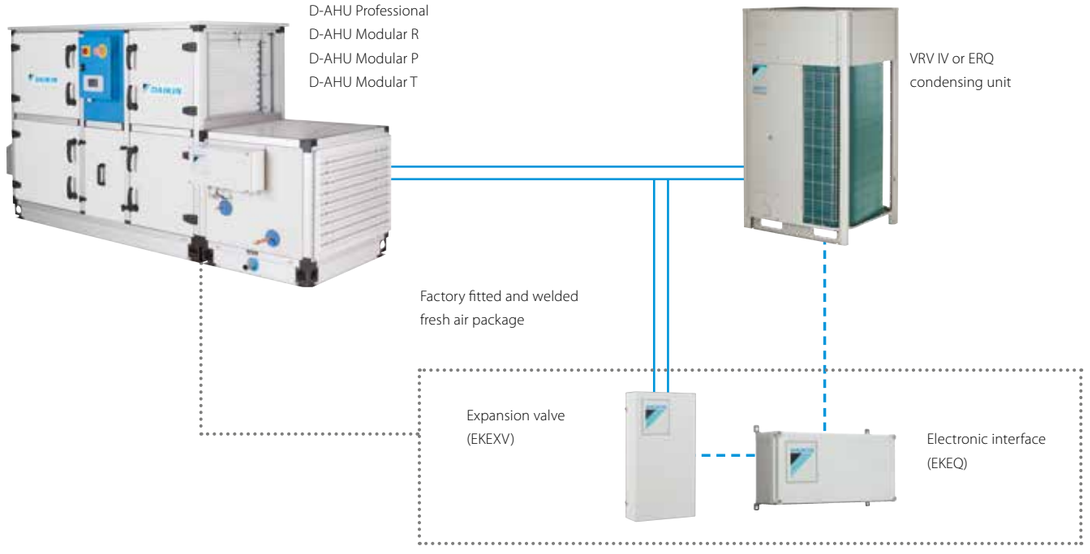
The Daikin fresh air package provides a complete solution, including all unit controls (expansion valve, control box and AHU controller) and sensors factory mounted and configured.

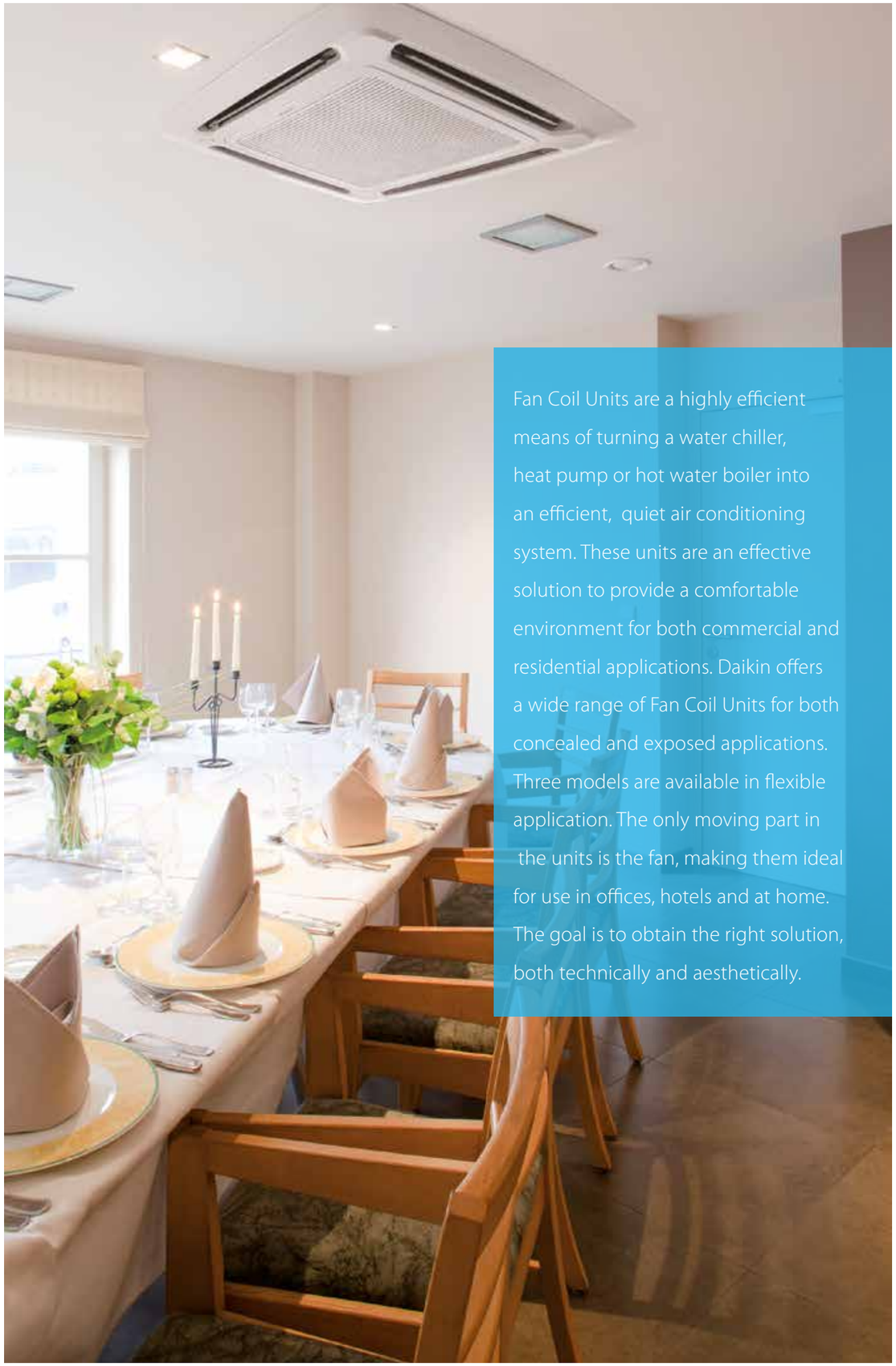
Higher efficiency

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

High comfort levels

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





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

Table of content

Fan coil units

Why choose Daikin fan coil units? 148

Products overview 150

Round flow cassette
FWC-BT/BF 152

4-way blow ceiling mounted cassette
FWF-BT/BF 153

Ceiling mounted Open protocol cassette
NEW FWI-A 154
NEW FWH-A 155

Floor standing units
FWZ-AT/AF 156
FWV-DAT/DAF 157

Flexi type units
FWR-AT/AF 158
FWL-DAT/DAF 159
FWS-AT/AF 160
FWM-DAT/DAF 161
FWE-DT/DF 162

Ducted units
FWE-CT/CF low ESP 163
FWP-CT/CF medium ESP 164
FWB- CT/CF medium ESP 165
FWN-AT/AF high ESP 166
FWD-AT/AF high ESP 167

Wall mounted unit
FWT-GT 168

Options & accessories 170

Fan coil units with BLDC motor

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

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

Why choose Daikin fan coil units?

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

Benefits for the installer

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

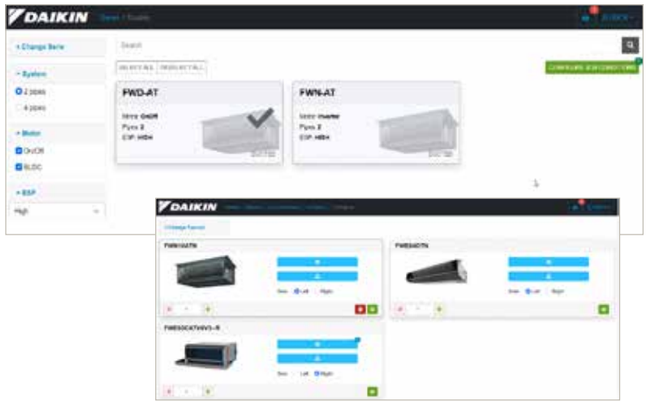
Benefits for the consultant

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

Benefits for the end user

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

New generation web-based fan coil selection software



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

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

BIM objects

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

Visit our BIM Application Suite

BLDC fan motors Video

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

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

Check on YouTube
www.youtube.com/DaikinEurope

Touch display FCU controller: FWTOUCH

› Available in three different chromatic version in combination with FWECSAP PCB
› Full capacitive 2.8" touchscreen with a more intuitive layout
› Advanced functionalities in a new look with a color display
› The control allows the networking via Modbus protocol

WHITE

BLACK

GREY

Products overview

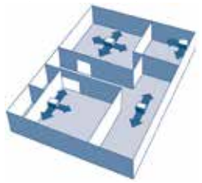
Type	Model	Product name		Fan motor type	Capacity	Capacity class 1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	12	15	16	17	18
Round flow cassette	Round flow cassette - 900 x 900 cassette - 360° air discharge ensures uniform air flow - Integrated fresh air intake - Easy installation in corners - Standard drain pump with 850 mm lift	FWC-BT/BF		BLDC	Cooling: 4.0 - 8.7 kW Heating: 4.8 - 10.6 kW									●	●	●	●							
4-way blow ceiling mounted cassette	4-way blow ceiling mounted cassette - 600 x 600 cassette - Integrated fresh air intake - Horizontal auto swing - Easy installation in corners - Standard drain pump with 750 mm lift	FWF-BT/BF		AC	Cooling: 1.4 - 4.9 kW Heating: 2.3 - 5.6 kW			●		●		●	●										
Ceiling mounted Open protocol cassette	FWI-A - 600 x 600 and 900 x 900 cassette - BLDC motor with low energy consumption up to 75% - 4-way air discharge - Open protocol for control - Condensate drainage pump up to 900 mm lift	FWI-A		BLDC	Cooling: 1.33 - 10.5 kW Heating: 1.49 - 12.2 kW			●		●		●		●	●	●							
	FWH-A - 600 x 600 and 900 x 900 cassette - ON/OFF 3-speed motor - 4-way air discharge - Open protocol for control - Condensate drainage pump up to 900 mm lift	FWH-A		AC	Cooling: 1.70 - 9.73 kW Heating: 1.97 - 11.1 kW			●		●		●		●	●	●							
Floor standing units	Floor standing unit - For vertical mounting - Continuous air flow regulation and fan speed modulation - Up to 70% energy savings - Low sound levels	FWZ-AT/AF		BLDC	Cooling: 2.64 - 10.08 kW Heating: 2.46 - 11.18 kW			●		●				●		●							
	Floor standing unit - For horizontal or vertical concealed mounting - Insulated valve packages, no extra drain pan required - Fast-on connections for electrical options: no tools needed - Easy maintenance	FWV-DAT/DAF		AC	Cooling: 1.46 -8.02 kW Heating: 1.90 - 10.03 kW		●	●	●	●	●	●		●		●		●					
Flexi type units	Flexi type unit - For horizontal or vertical mouting - Continuous air flow regulation and fan speed modulation - Up to 70% energy savings - Low sound levels	FWR-AT/AF		BLDC	Cooling: 2.64 - 10.08 kW Heating: 2.46- 11.18 kW			●		●				●		●							
	Flexi type unit - For horizontal or vertical concealed mounting - Insulated valve packages, no extra drain pan required - Fast-on connections for electrical options: no tools needed - Easy maintenance	FWL-DAT/DAF		AC	Cooling: 1.46 - 8.02 kW Heating: 1.90 - 10.03 kW		●	●	●	●	●	●		●		●		●					
	Concealed flexi type unit - For horizontal or vertical concealed mounting - Continuous air flow regulation and fan speed modulation - Up to 70% energy savings - Low sound levels	FWS-AT/AF		BLDC	Cooling: 2.64 - 10.08 kW Heating: 2.46 - 11.18 kW			●		●				●		●							
	Concealed flexi type unit - For horizontal or vertical concealed mounting - Insulated valve packages, no extra drain pan required - Fast-on connections for electrical options: no tools needed - Easy maintenance	FWM-DAT/DAF		AC	Cooling: 1.46 -8.02 kW Heating: 1.90 - 10.03 kW		●	●	●	●	●	●		●		●		●					
	Concealed flexi type - For horizontal or vertical concealed mounting - Available static pressure up to 30 Pa - Easy installation and maintenance - 5/6 speed fan motor - High power air flow	FWE-DT/DF		AC	Cooling: 1.2 - 5.6 kW Heating: 1.3 - 6.3 kW			●		●		●	●	●	●	●		●	●				
Ducted units	Ducted unit with low ESP - For horizontal concealed mounting - Available static pressure up to 30 Pa - Easy installation and maintenance - 4-speed fan motor - High power air flow	FWE-CT/CF		AC	Cooling: 2.10 - 9.96 kW Heating: 2.7 - 11.5 kW			●		●		●		●	●	●		●					
	Ducted unit with medium ESP - For horizontal concealed mounting - Instant adjustment to temperature and relative humidity changes - Available static pressure up to 70 Pa - Low sound levels	FWP- CT/ CF		BLDC	Cooling: 1.97 - 8,28 kW Heating: 1.99 -8.46 kW							●	●	●		●		●	●		●		●	
	Ducted unit with medium ESP - For horizontal concealed mounting - Available static pressure up to 60 Pa - 7-speed electrical motors (thermal protection on windings) - Easy maintenance	FWB-CT/CF		AC	Cooling: 1.90 - 8,12 kW Heating: 1.99 -8.46 kW							●	●	●		●		●	●		●		●	
	Ducted unit with high ESP - For horizontal or vertical concealed mounting - Avaiable static pressure up to 70 Pa - Easy maintenance	FWN-AT/AF		BLDC	Cooling: 2.83 - 8.75 kW Heating: 3.63 - 18.10 kW							●	●	●	●	●		●						
	Ducted unit with high ESP - For horizontal or vertical concealed mounting - Available static pressure from 60 up to 145 Pa - Easy maintenance	FWD-AT/AF		AC	Cooling: 3.90 - 18.30 kW Heating: 4.05 - 21.92 kW							●		●		●		●		●		●		●
Wall mounted unit	Wall mounted unit - High aesthetic cabinet design - Optimum air distribution - Easy installation - 3-speed fan motor	FWT-GT		AC	Cooling: 2.43 - 5.28 kW Heating: 3.22 - 7.33 kW			●		●		●	●	●									

FWC-BT/BF

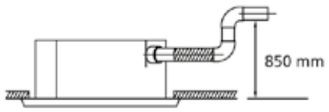
Round flow cassette

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

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



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



ROUND FLOW

Indoor unit			FWC-BT/BF	06	07	08	09	06	07	08	09
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	5.5	6.1	7.2	8.1	5.9	6.3	7.2	8.3
		Medium	kW	4.7	5.3	5.9	6.8	5.1	5.6	6.2	6.9
		Low	kW	3.9	4.5	4.8	5.4	4.3	4.6	4.8	5.7
	Sensible capacity	High	kW	4.2	4.7	5.7	6.5	4.2	4.6	5.4	6.4
		Medium	kW	3.5	4.0	4.5	5.3	3.6	4.0	4.5	5.2
		Low	kW	2.8	3.3	3.5	4.1	3.1	3.3	3.5	4.0
Heating capacity (standard conditions)	High		kW	6.8	7.7	9.2	10.6	6.9	7.8	9.2	10.4
	Medium		kW	5.8	6.6	7.6	8.8	6.1	6.7	7.6	8.7
	Low		kW	4.8	5.5	5.8	7.0	5.2	5.5	5.8	6.8
Power input	High		kW	0.045	0.054	0.077	0.107	0.046	0.055	0.077	0.107
	Medium		kW	0.040	0.046	0.058	0.076	0.041	0.047	0.059	0.077
	Low		kW	0.034	0.037	0.039	0.045	0.035	0.038	0.040	0.046
FCEER				116	119	113	104	124	120	112	106
FCCOP				143	147	141	137	149	144	138	131
Dimensions	Unit	HeightxWidthxLength	mm	288x840x840							
Weight	Unit		kg	26				29			
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	1,068	1,236	1,518	1,776	1,032	1,200	1,476	1,746
		Medium	m^3/h	894	1,038	1,200	1,410	864	1,002	1,164	1,374
		Low	m^3/h	720	834	888	1,044	708	804	852	1,014
Total sound power level	High		dBA	43.0	47.0	53.0	57.0	43.0	47.0	53.0	57.0
	Medium		dBA	36.0	39.0	44.0	49.0	36.0	39.0	44.0	49.0
	Low		dBA	31.0	33.0	36.0	40.0	33.0	36.0		40.0
Sound pressure level	High		dBA	29.0	33.0	39.0	43.0	29.0	33.0	39.0	43.0
	Medium		dBA	24.0	28.0	32.0	37.0	24.0	28.0	32.0	37.0
	Low		dBA	21.0	22.0	24.0	28.0	21.0	22.0	24.0	28.0
Piping connections	Drain	OD	mm	VP25 (External dia.32 / internal dia. 25)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240							
Control systems	Infrared remote control			BRC7E532F / BRC7E533F							
	Wired remote control			BRC315D7							

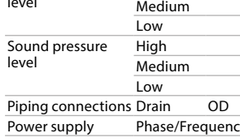
For standard conditions refer to Measuring Conditions table, at the end of this catalogue

FWF-BT/BF

4-way blow ceiling mounted cassette

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

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



Indoor unit			FWF-BT/BF	02	03	04	05	02	03	04	05
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.7	3.0	4.0	4.9	1.8	2.9	3.8	4.6
		Medium	kW	1.5	2.7	3.1	4.0	1.5	2.4	3.1	3.8
		Low	kW	1.3	2.4		2.8	1.3	1.6		2.6
	Sensible capacity	High	kW	1.4	2.0	2.7	3.5	1.5	1.8	2.5	3.2
		Medium	kW	1.2	1.7	2.0	2.7	1.2	1.5	1.9	2.5
		Low	kW	1.0	1.4		1.8	1.0			1.6
Heating capacity (standard conditions)		High	kW	2.4	3.3	4.5	5.6	3.3	3.6	4.7	5.7
		Medium	kW	2.1	2.9	3.5	4.4	2.9	3.1	3.7	4.7
		Low	kW	1.9	2.7		3.0	2.4	2.6		3.2
Power input		High	kW	0.074		0.090	0.118	0.074		0.094	0.121
		Medium	kW	0.067		0.070	0.089	0.067	0.062	0.074	0.093
		Low	kW	0.060		0.055	0.062	0.060	0.055		0.066
FCEER				22	40	44	45	22	33	34	40
FCCOP				32	45	49		41	48		49
Dimensions	Unit	HeightxWidthxLength	mm	285 x575x575							
Weight	Unit		kg	19				20			
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	High	m^3/h	456	468	660	876	468	438	618	822
		Medium	m^3/h	384	390	486	648	390	366	456	612
		Low	m^3/h	300	318		420	318	300		390
Total sound power level	High		dBA	44.0		50.0	55.0	44.0	46.0	52.0	57.0
	Medium		dBA	40.0		44.0	49.0	40.0	42.0	46.0	51.0
	Low		dBA	36.0	38.0		42.0	36.0	38.0	41.0	44.0
Sound pressure level	High		dBA	31.0		40.0	45.0	31.0	33.0	42.0	47.0
	Medium		dBA	27.0		33.0	39.0	27.0	29.0	35.0	41.0
	Low		dBA	26.0			30.0	26.0	27.0		32.0
Piping connections	Drain	OD	mm	VP20 (External dia.26 / Internal dia. 20)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-440							
Control systems	Infrared remote control			BRC7E530 / BRC7E531							
	Wired remote control			BRC315D7							

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

Ceiling mounted BLDC “naked” cassette

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

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

Indoor unit		FWI-AT/FWI-AF		02	03	04	06	07	08	02	04	06	08
				2-pipe						4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	2,63	4,39	5,23	6,39	9,04	10,5	2,6	3,61	6,61	9,5
		Medium	kW	2,24	3,4	3,95	5,36	7,26	8,37	2,18	2,8	5,34	7,62
		Low	kW	1,93	2,68	2,76	4,8	5,92	6,7	1,85	2,05	4,61	6,09
	Sensible capacity	High	kW	2,2	3,41	4,11	4,75	6,78	7,97	2,23	3,31	5,03	7,56
		Medium	kW	1,81	2,54	2,96	3,92	5,31	6,15	1,79	2,38	3,94	5,82
		Low	kW	1,51	1,94	1,98	3,8	4,24	4,8	1,46	1,62	3,34	4,5
Heating capacity (standard conditions)	High		kW	3,25	4,58	5,55	7,30	10,20	12,20	3,86	4,98	9,53	12,90
	Medium		kW	2,70	3,48	4,09	6,00	7,99	9,35	3,34	4,06	7,96	10,80
	Low		kW	2,27	2,69	2,77	5,50	6,33	7,23	2,90	3,14	7,01	8,96
Power input	High		kW	0,018	0,037	0,067	0,036	0,067	0,15	0,018	0,067	0,036	0,15
	Medium		kW	0,01	0,015	0,022	0,018	0,036	0,06	0,01	0,022	0,018	0,06
	Low		kW	0,007	0,009	0,009	0,013	0,018	0,025	0,007	0,009	0,014	0,025
Dimensions	Unit	Height	mm	298			350			298		350	
		Width	mm	577			793			577		793	
		Depth	mm	577			793			577		793	
Weight	Unit		kg	23			43			23		43	
Casing	Material			Galvanised steel									
Decoration panel	Dimensions	Height	mm	41			75			41		75	
		Width	mm	730			860			730		860	
		Depth	mm	730			860			730		860	
		Weight	kg	2,5			5			2,5		5	
Air Filter	Type			Honeycomb polypropylene									
Fan	Type			Backward Centrifugal									
	Quantity			1									
	Air flow rate	High	m^3/h	583	796	980	1276	1554	1831	610	982	1137	1823
		Medium	m^3/h	454	551	650	978	1143	1321	460	643	841	1314
		Low	m^3/h	397	397	397	843	864	976	356	395	687	956
Total sound power level	High		dBA	46	54	61	45	53	58	46	61	45	58
	Medium		dBA	40	44	49	39	45	50	40	49	39	50
	Low		dBA	35	37	38	35	39	43	35	38	35	43
Sound pressure level	High		dBA	38	46	61	37	45	50	46	61	45	58
	Medium		dBA	33	36	49	31	37	42	40	49	39	50
	Low		dBA	27	29	38	27	31	35		38	35	43
Water flow	Cooling	High	l/h	452	754	898	1097	1545	1805	447	620	1135	1631
		Medium	l/h	385	584	687	921	1245	1436	374	480	917	1307
		Low	l/h	331	460	473	833	1015	1150	317	352	792	1045
	Heating	High	l/h	565	797	965	1269	1779	2116	338	435	834	1133
		Medium	l/h	470	605	711	1043	1390	1625	292	356	697	947
		Low	l/h	395	468	481	953	1100	1257	254	275	613	785
Allowed water temperature	Cooling	Min	°C	5									
	Heating	Max	°C	70									
Piping connections	Water	Inlet		1/2"			3/4"			1/2"		3/4"	
		Outlet		1/2"			3/4"			1/2"		3/4"	
	Drain	OD	mm	10									
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230									
Maximum absorbed current			A	0,64			1,20			0,64		1,20	
Control systems	Wired remote control			FWEC3A / FWECSA / FWTOUCH									

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

Ceiling mounted AC “naked” cassette

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

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

Indoor unit		FWH-AT/FWH-AF		02	03	04	06	07	08	02	03	04	06	08
				2-pipe						4-pipe				
Cooling capacity (standard conditions)	Total capacity	High	kW	2,53	4,31	5	7,01	8,24	9,73	2,35	3,38	3,62	7,45	9
		Medium	kW	1,97	3,55	4,61	5,36	6,11	8,61	1,85	2,83	3,38	6,6	8,48
		Low	kW	1,7	2,39	3,4	4,64	5,16	6,34	1,56	2,01	2,58	4,73	5,83
	Sensible capacity	High	kW	2,14	3,18	3,79	5,29	6,1	7,35	1,94	3,38	3,02	5,81	6,98
		Medium	kW	1,6	2,53	3,44	3,99	4,37	6,4	1,49	2,22	2,77	5,04	6,56
		Low	kW	1,33	1,66	2,43	3,42	3,68	4,59	1,24	1,49	2	3,47	4,29
Heating capacity (standard conditions)	High		kW	3,1	4,3	5,35	8,17	9,18	11,1	3,55	4,22	4,81	10,6	12,4
	Medium		kW	2,33	3,44	4,92	6,06	6,53	9,53	2,88	3,62	4,54	9,6	11,7
	Low		kW	1,97	2,29	3,49	5,16	5,22	6,71	2,53	2,75	3,67	7,20	8,64
Power input	High		kW	0,04	0,05	0,09	0,11		0,15	0,04	0,05	0,09	0,11	0,15
	Medium		kW	0,02	0,04	0,07	0,06		0,11	0,02	0,04	0,07	0,06	0,11
	Low		kW	0,02	0,03	0,06	0,05		0,06	0,02	0,03	0,06	0,05	0,06
Dimensions	Unit	Height	mm	298			350			298			350	
		Width	mm	577			793			577			793	
		Depth	mm	577			793			577			793	
Weight	Unit		kg	23			43			23			43	
Casing	Material			Galvanised steel										
Decoration panel	Dimensions	Height	mm	41			75			41			75	
		Width	mm	730			860			730			860	
		Depth	mm	730			860			730			860	
		Weight	kg	2,5			5			2,5			5	
Air Filter	Type			Honeycomb polypropylene										
Fan	Type			Backward Centrifugal										
	Quantity			1										
	Air flow rate	High	m^3/h	557	640	805	1494	1380	1651	533	640	805	1380	1651
		Medium	m^3/h	379	487	717	997	902	1380	366	487	717	1147	1544
		Low	m^3/h	297	306	479	801	718	902	289	306	479	718	902
Total sound power level	High		dBA	45	50	58	51		56	45	50	58	51	56
	Medium		dBA	37	44	55	40		51	37	44	55	40	51
	Low		dBA	33	40	47	35		40	33	40	47	35	40
Sound pressure level	High		dBA	37	42	50	43		48	37	42	50	43	48
	Medium		dBA	29	36	47	32		43	29	36	47	32	43
	Low		dBA	25	32	39	27		32	25	32	39	27	32
Water flow	Cooling	High	l/h	441	749	873	1223	1434	1696	410	589	637	1299	1571
		Medium	l/h	342	616	803	930	1060	1498	321	493	593	1148	1477
		Low	l/h	295	416	593	805	893	1097	271	351	453	822	1010
	Heating	High	l/h	539	747	930	1420	1596	1930	311	369	421	929	1083
		Medium	l/h	404	597	855	1053	1136	1656	258	317	398	840	1026
		Low	l/h	342	399	607	897	908	1167	222	241	322	634	757
Allowed water temperature	Cooling	Min	°C	5										
	Heating	Max	°C	70										
Piping connections	Water	Inlet		1/2"			3/4"			1/2"			3/4"	
		Outlet		1/2"			3/4"			1/2"			3/4"	
	Drain	OD	mm	10										
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230										
Maximum absorbed current			A	0,2		0,4	0,7			0,2		0,4	0,7	
Control systems	Wired remote control			FWEC1A / FWEC2A / FWEC3A / FWECSA / FWTOUCH										

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

FWZ-AT/AF

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

Indoor unit			FWZ-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.91	4.48	7.93	1.77	2.86	4.64	7.79
		Medium	kW	1.69	2.37	3.64	6.2	1.55	2.32	3.79	6.12
		Low	kW	1.35	1.75	2.99	4.1	1.25	1.72	3.10	4.06
	Sensible capacity	High	kW	1.49	2.09	3.62	5.87	1.44	2.06	3.54	5.76
		Medium	kW	1.30	1.69	2.90	4.59	1.21	1.65	2.85	4.54
		Low	kW	1.04	1.25	2.31	3.04	0.97	1.23	2.27	3.01
Heating capacity (standard conditions)	High		kW	2.15	2.94	4.88	8.37	1.76	2.68	4.64	7.35
	Medium		kW	1.81	2.37	4.11	6.53	1.56	2.31	4.07	6.29
	Low		kW	1.50	1.76	3.36	4.39	1.36	1.88	3.55	4.85
Power input	High		kW	0.019	0.016	0.033	0.087	0.019	0.016	0.033	0.087
	Medium		kW	0.01		0.02	0.038	0.01		0.02	0.038
	Low		kW	0.01			0.013	0.01			0.013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxLength	mm	564x774x226	564x984x226	564x1,190x226	564x1,404x251	564x774x226	564x984x226	564x1,190x226	564x1,404x251
Weight	Unit		kg	20.6	26.7	32.3	41.6	20.6	26.7	32.3	41.6
Casing	Colour			White - RAL9010							
Air filter	Type			Polypropylene net							
Fan	Type			Centrifugal							
	Quantity			1	2			1	2		
	Air flow rate	High	m^3/h	344	442	785	1,393	327	431	763	1,362
		Medium	m^3/h	271	341	605	1,022	261	332	593	1,007
		Low	m^3/h	211	241	470	642	205	237	460	636
Total sound power level	High		dBA	50.0	48.0	56.0	67.0	50.0	47.0	58.0	66.0
	Medium		dBA	44.0	42.0	49.0	60.0	44.0	41.0	53.0	58.0
	Low		dBA	40.0	36.0	43.0	49.0	38.0	33.0	48.0	
Sound pressure level	High		dBA	45.0	43.0	51.0	62.0	45.0	42.0	54.0	61.0
	Medium		dBA	39.0	37.0	44.0	55.0	39.0	36.0	48.0	53.0
	Low		dBA	35.0	31.0	38.0	44.0	33.0	28.0	43.0	
Electric heater	Power input (Optional)		kW	1.5	1.6	2.0	-	1.5	1.6	2.0	-
Piping connections	Drain	OD	mm	16							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							
Control systems	Wired remote control			FWEC3A / FWECSA / FWTOUCH							

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

FWV-DAT/DAF

Floor standing unit

AC fan motor unit for vertical mounting

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

Indoor unit			FWV-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
				2-pipe										4-pipe									
Cooling capacity (standard conditions)	Total capacity	High	kW	1.50	1.69	1.91	2.36	2.87	3.45	4.23	4.41	6.53	7.78	1.42	1.64	1.74	2.32	2.81	3.36	4.16	4.57	6.46	7.64
		Medium	kW	1.21	1.48	1.66	1.99	2.34	2.58	3.21	3.59	5.14	6.07	1.11	1.44	1.52	1.96	2.29	2.54	3.17	3.74	5.10	5.99
		Low	kW	1.02	1.24	1.34	1.57	1.73	1.94	2.47	2.95	3.88	4.00	0.97	1.22	1.24	1.55	1.70	1.92	2.44	3.06	3.84	3.96
	Sensible capacity	High	kW	1.16	1.25	1.37	1.82	2.05	2.69	3.05	3.55	4.73	5.72	1.10	1.22	1.41	1.79	2.01	2.61	2.99	3.47	4.67	5.61
		Medium	kW	0.94	1.10	1.20	1.53	1.66	1.99	2.39	2.85	3.70	4.46	0.87	1.07	1.18	1.50	1.62	1.96	2.36	2.80	3.67	4.40
		Low	kW	0.77	0.93	0.98	1.15	1.23	1.41	1.76	2.27	2.75	2.94	0.73	0.91	0.96	1.14	1.21	1.40	1.74	2.23	2.73	2.91
Heating capacity (standard conditions)	High		kW	1.82	1.84	2.15	2.70	2.94	4.05	4.24	4.98	6.49	8.37	1.66	1.76		2.53	2.68	4.20	3.82	4.64	6.97	7.35
	Medium		kW	1.48	1.72	1.81	2.26	2.37	3.13	3.24	4.08	5.17	6.53	1.49	1.56		2.18	2.31	3.47	3.22	4.07	6.02	6.29
	Low		kW	1.21	1.45	1.50	1.74	1.76	2.39	2.47	3.31	3.97	4.39	1.31	1.36		1.78	1.88	2.82	2.73	3.55	5.02	4.85
Power input	High		kW	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244
	Medium		kW	0.03	0.04			0.05	0.06	0.07	0.13	0.17		0.03	0.04				0.05	0.06	0.07	0.13	0.17
	Low		kW	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11
Dimensions	Unit	HeightxWidthxLength	mm	564x774x226			564x984x226		564x1,190x226			564x1,400x251		564x774x226			564x984x226		564x1,190x226				564x1,400x251
Weight	Unit		kg	19.7		20.6	25.5	26.7	31.0	30.4	32.3	41.4	41.6	19.7		20.6	25.5	26.7	31.0	30.4	32.3	41.4	41.6
Casing	Colour			White - RAL9010																			
Air filter	Type			Polypropylene net																			
Fan	Type			Centrifugal																			
	Quantity			1			2							1			2						
	Air flow rate	High	m^3/h	319	344		442		640	706	785	1,011	1,393	307	330	327	432	431	628	690	763	998	1,362
		Medium	m^3/h	233	271		341		450	497	605	771	1,022	225	261		334	332	444	490	593	765	1,007
		Low	m^3/h	178	211		241		320	361	470	570	642	174	205		238	237	316	356	460	565	636
Total sound power level	High		dBA	47.0	49.0	50.0	48.0		52.0	53.0	56.0	61.0	67.0	45.0	49.0	50.0	48.0	47.0	53.0	56.0	58.0	60.0	66.0
	Medium		dBA	42.0	44.0		43.0	42.0	43.0		49.0	54.0	60.0	39.0	44.0		43.0	41.0	45.0	46.0	53.0	54.0	58.0
	Low		dBA	37.0	38.0	40.0	35.0	36.0	35.0		43.0	47.0	49.0	33.0	40.0	38.0	34.0	33.0	36.0	39.0	48.0	46.0	48.0
Sound pressure level	High		dBA	42.0	44.0	45.0	43.0		47.0	48.0	51.0	56.0	62.0	40.0	44.0	45.0	43.0	42.0	46.0	51.0	54.0	55.0	61.0
	Medium		dBA	37.0	39.0		38.0	37.0	38.0		44.0	49.0	55.0	34.0	39.0		38.0	36.0	38.0	41.0	48.0	49.0	53.0
	Low		dBA	32.0	33.0	35.0	30.0	31.0	30.0		38.0	42.0	44.0	28.0	33.0		29.0	28.0	29.0	32.0	43.0	41.0	43.0
Electric heater	Power input (Optional)		kW	1.0	1.5		1.6		2.0			3.0		1.0	1.5		1.6		2.0			3.0	
Piping connections	Drain	OD	mm	16																			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																			
Control systems	Wired remote control			FWEC1A / FWEC2A / FWEC3A / FWECSA / ECFWMB6 / FWTOUCH																			

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

FWR-AT/AF

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

Indoor unit			FWR-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.91	4.48	7.93	1.77	2.86	4.64	7.79
		Medium	kW	1.69	2.37	3.64	6.20	1.55	2.32	3.79	6.12
		Low	kW	1.35	1.75	2.99	4.10	1.25	1.72	3.10	4.06
	Sensible capacity	High	kW	1.49	2.09	3.62	5.87	1.44	2.06	3.54	5.76
		Medium	kW	1.30	1.69	2.90	4.59	1.21	1.65	2.85	4.54
		Low	kW	1.04	1.25	2.31	3.04	0.97	1.23	2.27	3.01
Heating capacity (standard conditions)	High		kW	2.15	2.94	4.88	8.37	1.76	2.68	4.64	7.35
	Medium		kW	1.81	2.37	4.11	6.53	1.56	2.31	4.07	6.29
	Low		kW	1.50	1.76	3.36	4.39	1.36	1.88	3.55	4.85
Power input	High		kW	0.019	0.016	0.033	0.087	0.019	0.016	0.033	0.087
	Medium		kW	0.01		0.02	0.038	0.01		0.02	0.038
	Low		kW	0.01			0.013	0.01			0.013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxLength	mm	564x774x246	564x984x246	564x1,190x246	564x1,404x271	564x774x246	564x984x246	564x1,190x246	564x1,404x271
Weight	Unit		kg	21.2	27.5	33.6	43.1	21.2	27.5	33.6	43.1
Casing	Colour			White - RAL9010							
Air filter	Type			Polypropylene net							
Fan	Type			Centrifugal							
	Quantity			1	2			1	2		
	Air flow rate	High	m^3/h	344	442	785	1,393	327	431	763	1,362
		Medium	m^3/h	271	341	605	1,022	261	332	593	1,007
		Low	m^3/h	211	241	470	642	205	237	460	636
Total sound power level	High		dBA	50.0	48.0	56.0	67.0	50.0	47.0	58.0	66.0
	Medium		dBA	44.0	42.0	49.0	60.0	44.0	41.0	53.0	58.0
	Low		dBA	40.0	36.0	43.0	49.0	38.0	33.0	48.0	
Sound pressure level	High		dBA	45.0	43.0	51.0	62.0	45.0	42.0	54.0	61.0
	Medium		dBA	39.0	37.0	44.0	55.0	39.0	36.0	48.0	53.0
	Low		dBA	35.0	31.0	38.0	44.0	33.0	28.0	43.0	
Electric heater	Power input (Optional)		kW	1.5	1.6	2.0	-	1.5	1.6	2.0	-
Piping connections	Drain	OD	mm	16							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							
Control systems	Wired remote control			FWEC3A / FWECSA / FWTOUCH							

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

FWL-DAT/DAF

Flexi type unit

AC fan motor unit for horizontal or vertical mounting

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

Indoor unit			FWL-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
				2-pipe										4-pipe									
Cooling capacity (standard conditions)	Total capacity	High	kW	1.50	1.69	1.91	2.36	2.87	3.45	4.23	4.41	6.53	7.78	1.42	1.64	1.74	2.32	2.81	3.36	4.16	4.57	6.46	7.64
		Medium	kW	1.21	1.48	1.66	1.99	2.34	2.58	3.21	3.59	5.14	6.07	1.11	1.44	1.52	1.96	2.29	2.54	3.17	3.74	5.10	5.99
		Low	kW	1.02	1.24	1.34	1.57	1.73	1.94	2.47	2.95	3.88	4.00	0.97	1.22	1.24	1.55	1.70	1.92	2.44	3.06	3.84	3.96
	Sensible capacity	High	kW	1.16	1.25	1.37	1.82	2.05	2.69	3.05	3.55	4.73	5.72	1.10	1.22	1.41	1.79	2.01	2.61	2.99	3.47	4.67	5.61
		Medium	kW	0.94	1.10	1.20	1.53	1.66	1.99	2.39	2.85	3.70	4.46	0.87	1.07	1.18	1.50	1.62	1.96	2.36	2.80	3.67	4.40
		Low	kW	0.77	0.93	0.98	1.15	1.23	1.41	1.76	2.27	2.75	2.94	0.73	0.91	0.96	1.14	1.21	1.40	1.74	2.23	2.73	2.91
Heating capacity (standard conditions)	High		kW	1.82	1.84	2.15	2.70	2.94	4.05	4.24	4.98	6.49	8.37	1.66	1.76		2.53	2.68	4.20	3.82	4.64	6.97	7.35
	Medium		kW	1.48	1.72	1.81	2.26	2.37	3.13	3.24	4.08	5.17	6.53	1.49	1.56		2.18	2.31	3.47	3.22	4.07	6.02	6.29
	Low		kW	1.21	1.45	1.50	1.74	1.76	2.39	2.47	3.31	3.97	4.39	1.31	1.36		1.78	1.88	2.82	2.73	3.55	5.02	4.85
Power input	High		kW	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244
	Medium		kW	0.03	0.04			0.05	0.06	0.07	0.13	0.17		0.03	0.04			0.05	0.06	0.07	0.13	0.17	
	Low		kW	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11
Dimensions	Unit	HeightxWidthxLength	mm	564x774x246			564x984x246		564x1,190x246			564x1,400x271		564x774x246			564x984x246		564x1,190x246			564x1,400x271	
Weight	Unit		kg	20.6		21.2	26.5	27.5	32.5	33.5	33.6	43.1		20.6		21.2	26.5	27.5	32.5	33.5	33.6	43.1	
Casing	Colour			White - RAL9010																			
Air filter	Type			Polypropylene net																			
Fan	Type			Centrifugal																			
	Quantity			1			2							1			2						
	Air flow rate	High	m^3/h	319	344		442	640	706	785	1,011	1,393		307	330	327	432	431	628	690	763	998	1,362
		Medium	m^3/h	233	271		341	450	497	605	771	1,022		225	261		334	332	444	490	593	765	1,007
		Low	m^3/h	178	211		241	320	361	470	570	642		174	205		238	237	316	356	460	565	636
Total sound power level	High		dBA	47.0	49.0	50.0	48.0	52.0	53.0	56.0	61.0	67.0		45.0	49.0	50.0	48.0	47.0	53.0	56.0	58.0	60.0	66.0
	Medium		dBA	42.0	44.0		43.0	42.0	43.0	49.0	54.0	60.0		39.0	44.0		43.0	41.0	45.0	46.0	53.0	54.0	58.0
	Low		dBA	37.0	38.0	40.0	35.0	36.0	35.0	43.0	47.0	49.0		33.0	40.0	38.0	34.0	33.0	36.0	39.0	48.0	46.0	48.0
Sound pressure level	High		dBA	42.0	44.0	45.0	43.0	47.0	48.0	51.0	56.0	62.0		40.0	44.0	45.0	43.0	42.0	46.0	51.0	54.0	55.0	61.0
	Medium		dBA	37.0	39.0		38.0	37.0	38.0	44.0	49.0	55.0		34.0	39.0		38.0	36 .0	38.0	41.0	48.0	49.0	53.0
	Low		dBA	32.0	33.0	35.0	30.0	31.0	30.0	38.0	42.0	44.0		28.0	33.0		29.0	28.0	29.0	32.0	43.0	41.0	43.0
Electric heater	Power input (Optional)		kW	1.0	1.5		1.6		2.0		3.0			1.0	1.5		1.6		2.0		3.0		
Piping connections	Drain	OD	mm	16																			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																			
Control systems	Wired remote control			FWEC1A / FWEC2A / FWEC3A / FWECSA / ECFWMB6 / FWTOUCH																			

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

FWS-AT/AF

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

Indoor unit			FWS-AT/AF	02	03	06	08	02	03	06	08
				2-pipe				4-pipe			
Cooling capacity (standard conditions)	Total capacity	High	kW	1.94	2.91	4.48	7.93	1.77	2.86	4.64	7.79
		Medium	kW	1.69	2.37	3.64	6.2	1.55	2.32	3.79	6.12
		Low	kW	1.35	1.75	2.99	4.1	1.25	1.72	3.10	4.06
	Sensible capacity	High	kW	1.49	2.09	3.62	5.87	1.44	2.06	3.54	5.76
		Medium	kW	1.30	1.69	2.90	4.59	1.21	1.65	2.85	4.54
		Low	kW	1.04	1.25	2.31	3.04	0.97	1.23	2.27	3.01
Heating capacity (standard conditions)	High		kW	2.15	2.94	4.88	8.37	1.76	2.68	4.64	7.35
	Medium		kW	1.81	2.37	4.11	6.53	1.56	2.31	4.07	6.29
	Low		kW	1.50	1.76	3.36	4.39	1.36	1.88	3.55	4.85
Power input	High		kW	0.019	0.016	0.033	0.087	0.019	0.016	0.033	0.087
	Medium		kW	0.01		0.02	0.038	0.01		0.02	0.038
	Low		kW	0.01			0.013	0.01			0.013
FCEER				B	A			B	A		B
FCCOP				B	A			B	A		B
Dimensions	Unit	HeightxWidthxLength	mm	535x584x224	535x794x224	535x1,000x224	535x1,214x249	535x584x224	535x794x224	535x1,000x224	535x1,214x249
Weight	Unit		kg	16.9	22.1	26.6	35.4	16.9	22.1	26.6	35.4
Air filter	Type			Polypropylene net							
Fan	Type			Centrifugal							
	Quantity			1	2			1	2		
	Air flow rate	High	m^3/h	344	442	785	1,393	327	431	763	1,362
		Medium	m^3/h	271	341	605	1,022	261	332	593	1,007
		Low	m^3/h	211	241	470	642	205	237	460	636
Total sound power level	High		dBA	50.0	48.0	56.0	67.0	50.0	47.0	58.0	66.0
	Medium		dBA	44.0	42.0	49.0	60.0	44.0	41.0	53.0	58.0
	Low		dBA	40.0	36.0	43.0	49.0	38.0	33.0	48.0	
Sound pressure level	High		dBA	45.0	43.0	51.0	62.0	45.0	42.0	54.0	61.0
	Medium		dBA	39.0	37.0	44.0	55.0	39.0	36.0	48.0	53.0
	Low		dBA	35.0	31.0	38.0	44.0	33.0	28.0	43.0	
Electric heater	Power input (Optional)		kW	1.5	1.6	2.0	-	1.5	1.6	2.0	-
Piping connections	Drain	OD	mm	16							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230							
Control systems	Wired remote control			FWEC3A / FWECSA / FWTOUCH							

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

FWM-DAT/DAF

Concealed flexi type unit

AC fan motor unit for horizontal or vertical concealed mounting

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

FWM-DAT/DAF

FWEC1,2,3A FWECSA FWTOUCH

Indoor unit			FWM-DAT/DAF	01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10
				2-pipe										4-pipe									
Cooling capacity (standard conditions)	Total capacity	High	kW	1.50	1.69	1.91	2.36	2.87	3.45	4.23	4.41	6.53	7.78	1.42	1.64	1.74	2.32	2.81	3.36	4.16	4.57	6.46	7.64
		Medium	kW	1.21	1.48	1.66	1.99	2.34	2.58	3.21	3.59	5.14	6.07	1.11	1.44	1.52	1.96	2.29	2.54	3.17	3.74	5.10	5.99
		Low	kW	1.02	1.24	1.34	1.57	1.73	1.94	2.47	2.95	3.88	4.00	0.97	1.22	1.24	1.55	1.70	1.92	2.44	3.06	3.84	3.96
	Sensible capacity	High	kW	1.16	1.25	1.37	1.82	2.05	2.69	3.05	3.55	4.73	5.72	1.10	1.22	1.41	1.79	2.01	2.61	2.99	3.47	4.67	5.61
		Medium	kW	0.94	1.10	1.20	1.53	1.66	1.99	2.39	2.85	3.70	4.46	0.87	1.07	1.18	1.50	1.62	1.96	2.36	2.80	3.67	4.40
		Low	kW	0.77	0.93	0.98	1.15	1.23	1.41	1.76	2.27	2.75	2.94	0.73	0.91	0.96	1.14	1.21	1.40	1.74	2.23	2.73	2.91
Heating capacity (standard conditions)	High		kW	1.82	1.84	2.15	2.70	2.94	4.05	4.24	4.98	6.49	8.37	1.66	1.76		2.53	2.68	4.20	3.82	4.64	6.97	7.35
	Medium		kW	1.48	1.72	1.81	2.26	2.37	3.13	3.24	4.08	5.17	6.53	1.49	1.56		2.18	2.31	3.47	3.22	4.07	6.02	6.29
	Low		kW	1.21	1.45	1.50	1.74	1.76	2.39	2.47	3.31	3.97	4.39	1.31	1.36		1.78	1.88	2.82	2.73	3.55	5.02	4.85
Power input	High		kW	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244	0.037	0.053		0.057	0.056	0.065	0.098		0.182	0.244
	Medium		kW	0.03	0.04				0.05	0.06	0.07	0.13	0.17	0.03	0.04				0.05	0.06	0.07	0.13	0.17
	Low		kW	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11	0.02	0.03	0.02	0.03		0.04		0.05	0.09	0.11
Dimensions	Unit	HeightxWidthxLength	mm	535x584x224		535x794x224		535x1,000x224				535x1,210x249		535x584x224		535x794x224		535x1,000x224				535x1,210x249	
Weight	Unit		kg	16.5	16.9	21.4	22.1	26.3	26.4	26.6	35.4			16.5	16.9	21.4	22.1	26.3	26.4	26.6	35.4		
Air filter	Type			Polypropylene net																			
Fan	Type			Centrifugal																			
	Quantity			1		2								1		2							
	Air flow rate	High	m^3/h	319	344	442	640	706	785	1,011	1,393			307	330	327	432	431	628	690	763	998	1,362
		Medium	m^3/h	233	271	341	450	497	605	771	1,022			225	261		334	332	444	490	593	765	1,007
		Low	m^3/h	178	211	241	320	361	470	570	642			174	205		238	237	316	356	460	565	636
Total sound power level	High		dBA	47.0	49.0	50.0	48.0	52.0	53.0	56.0	61.0	67.0		45.0	49.0	50.0	48.0	47.0	53.0	56.0	58.0	60.0	66.0
	Medium		dBA	42.0	44.0		43.0	42.0	43.0	49.0	54.0	60.0		39.0	44.0		43.0	41.0	45.0	46.0	53.0	54.0	58.0
	Low		dBA	37.0	38.0	40.0	35.0	36.0	35.0	43.0	47.0	49.0		33.0	40.0	38.0	34.0	33.0	36.0	39.0	48.0	46.0	48.0
Sound pressure level	High		dBA	42.0	44.0	45.0	43.0		47.0	48.0	51.0	56.0	62.0	40.0	44.0	45.0	43.0	42.0	46.0	51.0	54.0	55.0	61.0
	Medium		dBA	37.0	39.0		38.0	37.0	38.0	44.0	49.0	55.0		34.0	39.0		38.0	36.0	38.0	41.0	48.0	49.0	53.0
	Low		dBA	32.0	33.0	35.0	30.0	31.0	30.0	38.0	42.0	44.0		28.0	33.0		29.0	28.0	29.0	32.0	43.0	41.0	43.0
Electric heater	Power input (Optional)		kW	1.0	1.5	1.6	2.0		3.0					1.0	1.5	1.6	2.0		3.0				
Piping connections	Drain	OD	mm	16																			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230																			
Control systems	Wired remote control			FWEC1A / FWEC2A / FWEC3A / FWECSA / FWTOUCH																			

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

FWE-DT/DF

Concealed flexi type unit with low ESP

AC fan motor unit for horizontal or vertical concealed mounting

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

Indoor unit			FWE-DT/FWE-DF		03	04	05	06	07	08	10	11	03	04	05	06	07	08	10	11
					2-pipe								4-pipe							
Cooling capacity (standard conditions)	Total capacity	High	kW		1.94	2.06	2.58	3.12	3.43	3.92	5.22	5.6	1.94	2.06	2.58	3.12	3.42	3.92	5.22	5.6
		Medium	kW		1.6	1.64	2	2.4	2.79	3.66	4.19	4.41	1.6	1.64	2	2.4	2.79	3.66	4.19	4.41
		Low	kW		1.22	1.4	1.64	2.01	2.41	2.77	3.1	3.39	1.22	1.4	1.64	2.01	2.42	2.77	3.1	3.39
		Fan speed 1	kW		1.22	1.21	1.33	1.24	2.07	2.38	2.57	2.81	1.22	1.21	1.33	1.24	2.07	3.22	2.57	2.81
	Sensible capacity	High	kW		1.59	1.69	2.11	2.56	2.81	3.22	4.28	4.59	1.59	1.69	2.11	2.56	2.81	3.22	4.28	4.59
		Medium	kW		1.31	1.34	1.64	1.97	2.28	3	3.44	3.61	1.31	1.34	1.64	1.97	2.28	3	3.44	3.61
		Fan speed 1	kW		1	0.99	1.09	1.02	1.7	1.95	2.11	2.3	1	0.99	1.09	1.02	1.7	1.95	2.11	2.3
	Latent capacity	High	kW		0.35	0.37	0.46	0.56	0.62	0.71	0.94	1.01	0.35	0.37	0.46	0.56	0.62	0.71	0.94	1.01
		Medium	kW		0.32	0.34	0.43	0.49	0.58	0.66	0.86	0.92	0.32	0.34	0.43	0.49	0.58	0.66	0.86	0.92
Heating capacity (standard conditions)	Capacity	High	kW		2	2.38	2.89	4	4.37	4.64	5.98	6.35	2.11	2.61	2.94	3.84	4.57		5.83	6.18
		Medium	kW		1.69	1.99	2.32	3.36	3.6	4.39	4.96	5.17	1.81	2.37	2.58	3.09	3.93	4.34	4.87	5.07
		Low	kW		1.34	1.78	1.98	2.94	3.15	3.56	3.89	4.17	1.47	2.23	2.36	2.69	3.57		3.87	4.14
		Fan speed 1	kW		1.34	1.6	1.68	2.13	2.74	3.2	3.37	3.6	1.47	2.11	2.16	1.91	3.22		3.39	3.6
Power input	High		kW		0.03	0.03	0.04	0.06	0.07		0.10	0.11	0.03	0.03	0.04	0.06	0.07		0.10	0.11
	Medium		kW			0.03		0.05		0.06				0.03		0.05		0.06		
	Low		kW			0.03		0.04						0.03		0.04				
	Fan speed 1		kW			0.03		0.04	0.03					0.03		0.04	0.03			
Dimensions	Unit	Height	mm		200															
		Width	mm		795			995	1200				795			995	1200			
		Depth	mm		610															
	Packed unit	Height	mm		205															
		Width	mm		925			1125	1325				925			1125	1325			
		Depth	mm		745															
Weight	Unit		kg		17.5	18.5		22	25.5				18	19		22.5	26			
	Packed unit		kg		20	21		25	29				21	22		26	30			
Casing	Colour				Metal															
	Material				Galvanised sheet metal															
Air filter	Type				Plastic Frame / PP Filter Net (G1)															
Fan	Type				Sirocco fan															
	Quantity				2			3	4				2			3	4			
	Air flow rate	High	m^3/h		407	385	488	677	725		1032	1116	407	385	488	677	725		1032	1116
		Medium	m^3/h		326	306	374	527	570	669	798	846	326	306	374	527	570	669	798	846
		Low	m^3/h		235	263	304	446	481		555	619	235	263	304	446	481		555	619
		Fan speed 1	m^3/h		235	227	243	290	397		436	489	235	227	243	290	397		436	489
Total sound power level	High		dBA		45	44		50			57	59	45	44		50			57	59
	Medium		dBA		39	38	41	44	42	46	51	52	39	38	41	44	42	46	51	52
	Low		dBA		33	34	37	39	34		43	44	33	34	37	39	34		43	44
	Fan speed 1		dBA			33		30	31		38	40		33		30	31		38	40
Water flow	Cooling	High	l/h		334	354	443	536	589	674	897	962	334	354	443	536	589	674	897	962
		Medium	l/h		275	282	343	412	479	630	720	757	275	282	343	412	479	630	720	757
		Low	l/h		210	241	282	345	415	477	534	583	210	241	282	345	415	477	534	583
		Fan speed 1	l/h		210	209	228	213	354	409	442	483	210	209	228	213	354	409	442	483
	Heating	High	l/h		344	409	496	689	751	797	1029	1092	182	225	253	330	393		502	531
		Medium	l/h		290	343	400	577	618	755	852	888	156	203	222	266	338	374	419	436
		Low	l/h		230	306	341	505	542	613	669	717	126	192	203	231	307		333	356
		Fan speed 1	l/h		126	182	186	164	277		291	310	230	275	289	366	471	550	579	620
Piping connections	Drain	OD	mm		17.3															
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230															
Current input	High		A		0.01		0.02	0.03	0.02		0.04	0.05	0.01		0.02	0.03	0.02		0.04	0.05
	Medium		A		0.01		0.02				0.04	0.01			0.02				0.04	
	Low		A		0.01		0.02				0.01	0.03	0.01		0.02				0.01	0.03

Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 65°C, water temperature drop 10K. | Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 45°C, water temperature drop 5K. | Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB

FWE-CT/CF

Concealed ceiling unit with low ESP

AC fan motor unit for horizontal concealed mounting

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

Indoor unit			FWE-CT/CF		02	03	04	06	07	08	10	02	03	04	06	07	08	10
					2-pipe							4-pipe						
Cooling capacity (standard conditions)	Total capacity	Super high	kW		2.17	3.22	4.34	6.06	6.83	7.84	9.96	2.1	3.16	3.98	6.05	6.78	7.79	9.91
		High	kW		1.81	2.78	3.49	5.32	5.68	6.92	8.64	1.76	2.69	3.22	5.2	5.61	6.79	8.61
		Medium	kW		1.6	2.45	2.96	4.56	4.94	6.07	7.51	1.56	2.36	2.7	4.47	4.91	5.98	7.49
		Low	kW		0.9	1.4	1.8	2.8	3.1	3.9	4.9	0.85	1.40	1.63	2.72	3.10	3.88	4.88
	Sensible capacity	Super high	kW		1.61	2.44	3.27	4.55	4.83	6.02	7.58	1.55	2.37	3.19	4.49	5.16	5.91	7.45
		High	kW		1.33	2.08	2.58	3.94	4.3	5.25	6.48	1.28	1.99	2.53	3.81	4.2	5.09	6.39
		Medium	kW		1.16	1.82	2.16	3.34	3.71	4.56	5.57	1.13	1.73	2.1	3.23	3.64	4.44	5.49
		Low	kW		0.7	1.2	1.4	2.1	2.5	3.1	3.7	0.66	1.18	1.35	2.02	2.47	3.05	3.65
	Latent capacity	Super high	kW		0.56	0.78	1.07	1.51	2	1.82	2.38	0.55	0.79	0.79	1.56	1.62	1.88	2.46
		High	kW		0.48	0.7	0.91	1.38	1.38	1.67	2.16	0.48	0.7	0.69	1.39	1.41	1.7	2.22
Heating capacity (standard conditions)		Super high	kW		2.38	3.66	4.77	6.48	7.96	9.00	11.08	2.02	3.11	4.01	5.43	6.69	7.50	9.15
		High	kW		1.96	3.13	3.76	5.61	6.53	7.84	9.43	1.71	2.69	3.31	4.73	5.65	6.62	8.06
		Medium	kW		1.72	2.74	2.81	4.73	5.62	6.78	8.08	1.54	2.41	2.83	4.13	5.03	5.91	7.10
		Low	kW		1.02	1.70	1.93	2.85	3.75	4.49	5.30	0.90	1.51	1.79	2.53	3.45	4.04	4.77
Power input	Super high		kW		0.046	0.069	0.083	0.119	0.163	0.181	0.23	0.046	0.069	0.083	0.119	0.163	0.181	0.23
	High		kW		0.039	0.054	0.059	0.093	0.128	0.145	0.18	0.039	0.054	0.059	0.093	0.128	0.145	0.18
	Medium		kW		0.034	0.047	0.05	0.073	0.105	0.117	0.145	0.034	0.047	0.05	0.073	0.105	0.117	0.145
	Low		kW		0.029	0.04	0.042	0.06	0.089	0.102	0.121	0.029	0.04	0.042	0.06	0.089	0.102	0.121
Dimensions	Unit	Height	mm		253													
	Packed unit	Width			590													
		Depth			705	875	1005	1205	1455	1555	1815	705	875	1005	1205	1455	1555	1815
		Height	mm		260													
		Width	mm		605													
		Depth	mm		720	890	1020	1220	1470	1570	1830	720	890	1020	1220	1470	1570	1830
Weight	Unit		kg		17.0	20.2	23.7	28.4	36.7	39.1	45.5	18.1	21.6	25.3	30.1	39.7	41.4	48.9
	Operation weight		kg		17.0	20.2	23.7	28.4	36.7	39.1	45.5	18.1	21.6	25.3	30.1	39.7	41.4	48.9
	Packed unit		kg		18.8	22.4	26.1	31.1	40.0	42.3	49.2	19.9	23.8	27.7	32.9	43.0	44.6	52.6
Casing	Colour				Metal													
	Material				Galvanised steel													
Air filter	Type				Aluminium Frame PP Filter Net G2 Class													
Fan	Type				Centrifugal (Blade: Forward - curve)													
	Quantity				1		2		3	4		1		2		3		4
	Air flow rate	Super high	m^3/h		430	638	910	1195	1559	1753	2177	416	626	835	1193	1548	1742	2166
		High	m^3/h		311	518	619	926	1188	1413	1735	302	501	571	905	1173	1386	1729
		Medium	m^3/h		238	385	413	630	851	1016	1202	232	371	377	618	846	1001	1199
		Low	m^3/h		150	256	284	426	569	688	808	142	256	257	414	569	684	804
Total sound power level	Super high		dBA		51	61	58	62	62	64	65	51	61	58	62	62	64	65
	High		dBA		49	56	50	55	57	58	60	49	56	50	55	57	58	60
	Medium		dBA		37	49	40	48	47	50	50	37	49	40	48	47	50	50
	Low		dBA		31	38	32	39	38	41	40	31	38	32	39	38	41	40
Sound pressure level	Super high		dBA		41	51	48	52	52	54	55	41	51	48	52	52	54	55
	High		dBA		39	46	38	45	47	48	49	39	46	38	45	47	48	49
	Medium		dBA		26	39	28	36	37	40	39	26	39	28	36	37	40	39
	Low		dBA		21	28	22	29	27	31	29	21	28	22	29	27	31	29
Water flow	Cooling	Super high	l/h		254.4	381.6	525.6	768.0	886.2	1023.0	1228.8	246.0	374.4	478.2	767.4	879.0	918.0	1222.8
		High	l/h		212.4	330.6	404.4	668.4	733.2	899.4	1050.0	206.4	319.8	372.6	652.8	724.2	800.4	1045.8
		Medium	l/h		190.8	294.0	342.6	558.6	631.2	783.6	870.0	188.4	284.4	312.6	546.6	627.6	705.0	866.4
		Low	l/h		114.6	183.6	208.8	327.0	388.2	496.8	565.2	108.6	183.6	192.6	318.6	388.2	459.0	562.8
	Heating	Super high	l/h		448.8	692.4	898.8	1216.2	1562.4	1757.4	2085.0	333.6	514.8	657.6	881.4	1153.2	1243.2	1501.2
		High	l/h		369.6	592.2	707.4	1051.2	1279.2	1530.6	1773.0	280.2	445.2	540.0	763.8	970.2	1093.8	1318.2
		Medium	l/h		325.8	518.4	592.8	821.4	969.6	1172.4	1520.4	252.6	398.4	460.2	663.6	861.0	974.4	1156.2
		Low	l/h		192.0	321.6	363.6	530.4	650.4	780.0	995.4	147.6	250.2	289.8	405.6	589.2	664.8	773.4
Piping connections	Drain	OD	mm		R 3/4"													
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230													
Current input	Super high		A		0.21	0.31	0.37	0.53	0.73	0.81	1.03	0.21	0.31	0.37	0.53	0.73	0.81	1.03
	High		A		0.17	0.24	0.26	0.43	0.58	0.65	0.78	0.17	0.24	0.26	0.43	0.58	0.65	0.78
	Medium		A		0.15	0.21	0.22	0.33	0.47	0.52	0.65	0.15	0.21	0.22	0.33	0.47	0.52	0.65
	Low		A		0.13	0.18	0.19	0.27	0.40	0.46	0.54	0.13	0.18	0.19	0.27	0.40	0.46	0.54

Concealed ceiling unit with medium ESP

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

- Blends unobtrusively with any interior 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

Indoor unit	FWP-CT/CF	04			05			06			08			10			11			15			17		
		2-pipe																							
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7		1,6,7			1,6,7			5,6,7			5,6,7		
Control voltage (E)	V	2,90	8,00	9,00	4,30	7,50	8,40	4,50	7,40	8,30	5,40	8,30	9,90	3,40	7,60	8,50	3,40	7,60	8,50	6,80	7,50	8,30	6,80	7,50	8,30
Rated air flow (E)	m^3/h	109	246	276	171	275	341	195	360	402	305	532	652	333	687	760	333	687	760	1050	1163	1289	1050	1163	1289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	6	25	33	10	24	39	10	26	35	22	51	77	11	54	68	11	54	68	105	128	162	105	128	162
Maximum current absorption	A		0,32			0,60			0,84			0,84			0,91			0,91			3,52			3,52	
Total cooling capacity (1)(E)	kW	0,93	1,76	1,95	1,29	1,95	2,34	1,59	2,74	3,04	1,98	3,26	3,79	2,29	4,34	4,75	2,51	4,91	5,35	6,28	6,81	7,38	7,04	7,64	8,28
Sensible cooling capacity (1)(E)	kW	0,62	1,25	1,39	0,91	1,39	1,66	1,09	1,91	2,11	1,48	2,48	2,92	1,67	3,21	3,51	1,77	3,45	3,76	4,64	5,03	5,46	4,96	5,38	5,84
FCEER class (E)										A											C			B	
Water flow (2)	l/h	161	306	340	222	339	408	274	476	527	343	568	664	394	753	828	432	850	930	1094	1190	1295	1225	1332	1448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	-
Heating capacity (3)(E)	kW	0,88	1,21	1,99	1,33	1,98	2,35	1,59	2,80	3,10	2,35	3,71	4,31	2,54	4,76	5,17	2,63	5,03	5,49	6,68	7,22	7,80	7,18	7,80	8,46
FCCOP class (E)										A											B				
Water flow (3)	l/h	153	315	346	231	345	408	276	488	538	408	644	749	441	827	898	457	875	955	1162	1256	1356	1248	1355	1471
Water pressure drop (3)(E)	kPa	1	4	5	2	5	7	2	6	8	4	9	11	2	7	8	3	9	11	12	14	16	17	19	22
Standard coil - number of rows			3			3			4			3			3			4			3			4	
Total sound power level (4)	dB(A)	28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	36	47	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3		1,20			1,20			2,20			1,60			2,50			3,30			2,50			3,30	
Cross-section area of power cables (5)	mm^2		1,00			1,00			1,00			1,00			1,00			1,00			1,50			1,50	
		4-pipe																							
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			1,6,7			5,6,7			5,6,7	
Control voltage (E)	V	2,90	7,90	8,90	4,50	7,30	8,90	4,50	7,40	8,30	5,40	8,30	9,90	3,40	7,60	8,50	3,40	7,60	8,50	6,80	7,50	8,30	6,80	7,50	8,30
Rated air flow (E)	m^3/h	109	243	270	170	272	336	195	357	398	302	524	642	333	683	755	333	683	755	1050	1163	1289	1050	1163	1289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	6	25	32	10	23	39	10	26	35	21	50	77	11	54	67	11	54	67	105	128	162	105	128	162
Maximum current absorption	A		0,32			0,60			0,84			0,84			0,91			0,91			3,52			3,52	
Total cooling capacity (1)(E)	kW	0,93	1,74	1,91	1,28	1,93	2,31	1,59	2,72	3,01	1,95	3,22	3,75	2,29	4,32	4,72	2,51	4,88	5,32	6,28	6,81	7,38	7,04	7,64	8,28
Sensible cooling capacity (1)(E)	kW	0,62	1,24	1,36	0,90	1,38	1,64	1,09	1,89	2,09	1,47	2,44	2,89	1,67	3,19	3,48	1,77	3,43	3,74	4,64	5,03	5,46	4,96	5,38	5,84
FCEER class (E)			A			A			A			A			A			A			C			B	
Water flow (2)	l/h	161	302	333	221	335	404	274	473	522	339	562	656	394	749	822	432	846	925	1094	1190	1295	1225	1332	1448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26
Heating capacity (3)(E)	kW	1,14	1,93	2,06	1,55	2,07	2,32	2,09	3,09	3,29	2,80	3,82	4,24	3,40	5,17	5,45	3,40	5,17	5,45	6,42	6,73	7,06	6,42	6,73	7,06
FCCOP class (E)			A			A			A			A			A			A			C			C	
Water flow (3)	l/h	100	169	180	136	181	204	183	271	288	245	334	371	297	452	477	297	452	477	562	589	618	562	589	618
Water pressure drop (3)(E)	kPa	1	2	3	2	3	3	2	3	4	3	5	6	6	13	14	6	13	14	19	21	22	19	21	22
Total sound power level (4)		28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Standard coil - number of rows	dB(A)		3+1			3+1			4+1			3+1			3+1			4+1			3+1			4+1	
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	36	47	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3		0,47			0,47			0,59			0,59			0,97			0,97			0,97			0,97	
Cross-section area of power cables (5)	mm^2		1,00			1,00			1,00			1,00			1,00			1,00			1,50			1,50	
Power supply cable type		N07V-K																							
Safety fuse F	A		1			1			1			1			1			1			2			2	
Fuses type		gG																							
Power supply Phase/Frequency	Hz	1~/50																							
Control systems Wired remote control		FWEC3A / FWECSA / FWTOUCH																							

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

Concealed ceiling unit with medium ESP

AC fan motor unit for horizontal concealed mounting

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

Indoor unit	FWB-CT/CF	04			05			06			08			10			11			15			17		
		2-pipe																							
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			1,6,7			5,6,7			5,6,7	
Rated air flow (E)	m^3/h	109	246	276	171	275	341	195	360	402	305	532	652	333	687	760	333	687	760	1050	1163	1289	1050	1163	1289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	24	57	82	34	69	106	34	85	106	76	143	192	76	167	192	76	167	192	235	280	332	235	280	332
Maximum current absorption	A		0,40			0,56			0,56			1,10			1,10			1,10			2,10			2,10	
Total cooling capacity (1)(E)	kW	0,92	1,72	1,90	1,27	1,90	2,27	1,57	2,69	2,96	1,92	3,17	3,68	2,22	4,22	4,63	2,44	4,79	5,23	6,15	6,66	7,21	6,91	7,49	8,12
Sensible cooling capacity (1)(E)	kW	0,61	1,21	1,34	0,89	1,34	1,59	1,07	1,86	2,03	1,42	2,39	2,81	1,60	3,09	3,39	1,70	3,33	3,64	4,51	4,88	5,29	4,83	5,23	5,67
FCEER class (E)										D											E			D	
Water flow (1)	l/h	160	306	340	222	339	408	274	476	527	343	568	664	394	753	828	432	850	930	1095	1191	1295	1225	1333	1448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26
Heating capacity (3)(E)	kW	0,88	1,81	1,99	1,33	1,98	2,35	1,59	2,80	3,10	2,35	3,71	4,31	2,54	4,76	5,17	2,63	5,03	5,49	6,68	7,22	7,80	7,18	7,80	8,46
FCCOP class (E)										D											D				
Water flow (3)	l/h	153	315	346	231	345	408	276	488	538	408	644	749	442	827	898	457	875	955	1162	1256	1357	1248	1356	1472
Water pressure drop (3)(E)	kPa	1	4	5	2	5	7	2	6	8	4	9	11	2	7	8	3	9	11	12	14	16	17	20	23
Standard coil - number of rows			3			3			4			3			3			4			3			4	
Total sound power level (4)	dB(A)	28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	37	50	58	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	36	47	51	35	47	56	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3	1,20			1,20			1,60			1,60			2,50			3,30			2,50			3,30		
Power supply cable type		N07V-K																							
Cross-section area of power cables (5)	mm^2	1,00			1,00			1,00			1,50			1,50			1,50			1,50			1,50		
Safety fuse F	A	1			1			1			2			2			2			2			2		
Fuses type		gG																							
Power supply Phase/Frequency	Hz	1~/50																							
Control systems Wired remote control		FWEC1A / FWEC2A / FWEC3A / FWECSA / FWTOUCH																							
		4-pipe																							
Speed		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Declared speed			2,5,7			1,5,7			1,6,7			1,4,7			1,6,7			1,6,7			5,6,7			5,6,7	
Rated air flow (E)	m^3/h	109	243	270	170	272	336	195	357	398	302	524	642	333	683	755	333	683	755	1050	1163	1289	1050	1163	1289
Available static pressure (E)	Pa	10	50	63	19	50	77	19	50	63	17	50	75	12	50	61	12	50	61	40	50	60	40	50	60
Power input (E)	W	24	57	82	34	69	106	34	85	106	76	143	192	76	167	192	76	167	192	235	280	332	235	280	332
Maximum current absorption	A		0,40			0,56			0,56			1,10			1,10			1,10			2,10			2,10	
Total cooling capacity (1)(E)	kW	0,92	1,70	1,86	1,26	1,88	2,24	1,57	2,67	2,93	1,89	3,13	3,64	2,22	4,20	4,60	2,44	4,76	5,20	6,15	6,66	7,21	6,91	7,49	8,12
Sensible cooling capacity (1)(E)	kW	0,61	1,20	1,31	0,88	1,33	1,57	1,07	1,84	2,01	1,41	2,35	2,78	1,60	3,07	3,36	1,70	3,31	3,62	4,51	4,88	5,29	4,83	5,23	5,67
FCEER class (E)										D											E			D	
Water flow (1)	l/h	160	302	333	221	335	404	274	473	522	339	562	656	394	749	822	432	846	925	1095	1191	1295	1225	1333	1448
Water pressure drop (2)(E)	kPa	2	5	6	3	6	8	3	7	9	3	8	11	2	7	8	3	10	12	13	16	18	20	23	26
Heating capacity (3)(E)	kW	1,14	1,93	2,06	1,55	2,07	2,32	2,09	3,09	3,29	2,80	3,82	4,24	3,40	5,17	5,45	3,40	5,17	5,45	6,42	6,73	7,06	6,42	6,73	7,06
FCCOP class (E)			C			D			C			D									D				
Water flow (3)	l/h	100	169	180	136	181	204	183	271	288	245	334	371	297	452	477	297	452	477	562	590	618	562	590	618
Water pressure drop (3)(E)	kPa	1	2	3	2	3	3	2	3	4	3	5	6	6	13	14	6	13	14	19	21	22	19	21	22
Total sound power level		28	49	52	39	50	54	39	50	54	38	52	58	38	55	58	38	55	58	61	63	69	61	63	69
Additional coil - number of rows (4)	dB(A)	1																							
Inlet + radiated sound power level (4)(E)	dB(A)	26	47	50	37	48	52	37	48	52	36	50	56	36	53	56	36	53	56	59	61	67	59	61	67
Outlet sound power level (4)(E)	dB(A)	25	46	49	36	47	51	37	48	51	35	49	55	35	52	55	35	52	55	58	60	66	58	60	66
Water content - standard coil	dm^3	0,47						0,59						0,97											

(1) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2015 | (2) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) | (3) Water temperature 65°C / 55°C, air temperature 20°C | (4) Sound power measured according to standards ISO 3741 and ISO 3742 | (5) Sound pressure measured at a distance of 4 m in a free field with a directivity factor of 1 | (E) EUROVENT certified data

FWN-AT/AF

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

Indoor unit				FWN-AT/AF	04	05	06	07	08	10	04	05	06	07	08	10
					2-pipe						4-pipe					
Cooling capacity (standard conditions)	Total capacity	High	kW		3.80	4.65	6.01	6.65	7.57	8.49	3.76	4.61	5.91	6.55	7.46	8.35
		Medium	kW		3.47	4.20	5.65	6.25	6.84	7.62	3.44	4.17	5.58	6.17	6.75	7.52
		Low	kW		2.83	3.38	5.22	5.78	6.20	6.84	2.82	3.36	5.17	5.71	6.14	6.77
	Sensible capacity	High	kW		2.98	3.56	4.47	5.04	6.29	6.83	2.95	3.53	4.39	4.97	6.19	6.71
		Medium	kW		2.70	3.19	4.20	4.73	5.60	6.07	2.68	3.17	4.15	4.66	5.52	5.98
		Low	kW		2.19	2.54	3.90	4.35	5.01	5.40	2.18	2.52	3.84	4.30	4.96	5.34
Heating capacity (standard conditions)		High	kW		4.05	4.83	6.42	7.26	7.88	8.93	3.91	3.89	5.72	5.65	7.99	7.94
		Medium	kW		3.69	4.36	6.03	6.80	7.11	8.04	3.68	3.66	5.51	5.45	7.47	7.44
		Low	kW		3.04	3.55	5.59	6.29	6.47	7.28	3.23		5.25	5.21	7.02	6.99
Power input	High		kW		0.112		0.152		0.248		0.112		0.152		0.248	
	Medium		kW		0.07		0.13		0.17		0.73		0.13		0.17	
	Low		kW		0.04		0.10		0.12		0.45	0.40	0.10		0.12	
FCEER					C	B	C				B		C			
FCCOP					B	A	B		C		B		C			
Dimensions	Unit	HeightxWidthxLength	mm		559x754x280		559x964x280		559x1,170x280		559x754x280		559x964x280		559x1,170x280	
Weight	Unit		kg		32.5	33.3	40.6	41.7	47.3	48.7	34.7	35.5	43.2	44.4	50.3	51.7
Air filter	Type				Acrylic - Filtering class EU2											
Fan	Type				Centrifugal											
	Quantity				1		2				1		2			
	Air flow rate	High	m^3/h		802	791	1,238	1,203	1,606	1,581	793	783	1,211	1,182	1,576	1,550
		Medium	m^3/h		700	692	1,134	1,107	1,384	1,371	694	686	1,115	1,088	1,362	1,349
		Low	m^3/h		534	532	1,019	1,000	1,207	1,198	531	529	1,005	985	1,192	1,184
Total sound power level	High		dBA		66.0		69.0		72.0		66.0		69.0		72.0	
	Medium		dBA		61.0		63.0		67.0		61.0		63.0		67.0	
	Low		dBA		54.0		59.0	61.0	62.0		54.0		59.0	61.0	62.0	
Sound pressure level	High		dBA		61.0		64.0		67.0		61.0		64.0		67.0	
	Medium		dBA		56.0		58.0		62.0		56.0		58.0		62.0	
	Low		dBA		49.0		54.0	56.0	57.0		49.0		54.0	56.0	57.0	
Electric heater	Power input (Optional)		kW		2.0		6.0		9.0		2.0		6.0		9.0	
Piping connections	Drain	OD	mm		17											
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230											
Control systems	Wired remote control				FWEC3A / FWECSA / FWTOUCH											

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

FWD-AT/AF

Concealed ceiling unit with high ESP

AC fan motor unit for horizontal or vertical concealed mounting

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

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

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

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

SRC-HPA

WRC-HPC

Indoor unit				FWT-GT	02	03	04	05	06
							2-pipe		
Cooling capacity (standard conditions)	Total capacity	High	kW		2.40	2.67	3.27	4.49	5.21
		Medium	kW		2.20	2.23	2.79	4.02	4.32
		Low	kW		1.94	2.02	2.52	3.76	4.04
	Sensible capacity	High	kW		1.82	1.99	2.60	3.38	4.03
		Medium	kW		1.73	1.69	2.21	3.00	3.52
		Low	kW		1.50	1.49	1.91	2.77	3.22
Heating capacity (standard conditions)		High	kW		2.71	2.96	3.71	5.07	6.23
		Medium	kW		2.41	2.62	3.29	4.51	5.38
		Low	kW		2.06	2.25	2.75	4.03	4.83
Power input	High		kW		0.031	0.032	0.042	0.053	0.072
	Medium		kW		0.03		0.04	0.05	0.07
	Low		kW		0.03			0.04	0.06
FCEER					D			C	D
FCCOP					C				
Dimensions	Unit	HeightxWidthxLength	mm		288x800x206			310x1,070x224	
Weight	Unit		kg		9.00			14.0	
Casing	Colour				White				
Air filter	Type				Washable Saranet				
Fan	Type				Cross flow fan				
	Quantity				1				
	Air flow rate	High	m^3/h		442	476	629	866	1,053
		Medium	m^3/h		391	425	544	765	883
		Low	m^3/h		340	374	442	663	782
Total sound power level	High		dBA		45.0	48.0	55.0		59.0
	Medium		dBA		41.0	44.0	50.0	51.0	54.0
	Low		dBA		36.0	39.0	45.0	47.0	51.0
Sound pressure level	High		dBA		34.0	35.0	42.0		46.0
	Medium		dBA		29.0	30.0	39.0	38.0	42.0
	Low		dBA		25.0		32.0	34.0	39.0
Piping connections	Drain	OD	mm		19				
Power supply	Phase/Frequency/Voltage		Hz/V		1N~/50/220-240				
Control systems	Infrared remote control				WRC-HPC				
	Wired remote control				MERCA / SRC-HPA				

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

Options & accessories - Fan coil units: Panels and Controls

INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWH-A	FWI-A	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF	FWL-DAT/DAF
Panels	Decoration panel 600x600 (2-pipe)		BYFQ60B3	FPAN02A (2 up to 4 class)	FPAN02A (2 up to 4 class)				
	Decoration panel 900x900 (2-pipe)	BYCQ140C		FPAN06A (6 up to 8 class)	FPAN06A (6 up to 8 class)				
	Decoration panel 600x600 (4-pipe)			FPAN02A (2 up to 4 class)	FPAN02A (2 up to 4 class)				
	Decoration panel 900x900 (4-pipe)	BYCQ140C		FPAN06A (6 up to 8 class)	FPAN06A (6 up to 8 class)				
	Panel spacer for reducing required installation height	KDBQ44B60							
	Sealing member of air discharge outlet	KDBHQ55C140	KDBH44BA60						
	Rear panel					ERPV02A6 (2 class) ERPV03A6 (3 class) ERPV06A6 (6 class) ERPV10A6 (8 class)	ERPV02A6 (1, 15 & 2 class) ERPV03A6 (25 & 3 class) ERPV06A6 (35, 4 & 6 class) ERPV10A6 (8 & 10 class)	ERPV02A6 (2 class) ERPV03A6 (3 class) ERPV06A6 (6 class) ERPV10A6 (8 class)	ERPV02A6 (1,15 & 2 class) ERPV03A6 (25 & 3 class) ERPV06A6 (35, 4 & 6 class) ERPV10A6 (8 & 10 class)
	Air intake & discharge grille					EAIDF02A6 (2 class) EAIDF03A6 (3 class) EAIDF06A6 (6 class) EAIDF10A6 (10 class)	EAIDF02A6 (1, 15 & 2 class) EAIDF03A6 (25 & 3 class) EAIDF06A6 (35, 4 & 6 class) EAIDF10A6 (8 & 10 class)	EAIDF02A6 (2 class) EAIDF03A6 (3 class) EAIDF06A6 (6 class) EAIDF10A6 (10 class)	EAIDF02A6 (1, 15 & 2 class) EAIDF03A6 (25 & 3 class) EAIDF06A6 (35, 4 & 6 class) EAIDF10A6 (8 & 10 class)
Individual control systems & network	Wired remote controller (standard)	BRC315D	BRC315D	FWEC1A			FWEC1A		FWEC1A
	Wired remote controller (advanced)			FWEC2A			FWEC2A		FWEC2A
	Wired remote controller (advanced Plus)			FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A	FWEC3A
	Wired remote controller (heat pump)								
	Wireless controller (heat pump)	BRC7F532F	BRC7E530						
	Controller electromechanical						ECFWMB6		ECFWMB6
	Split controller - power control board			FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP	FWECSAP
	Split controller - control panel			FWECSAC	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)	FWTOUCHW (white) FWTOUCHB (black) FWTOUCHG (grey)
	On-board mounting kit					FWECKA	FWECKA	FWECKA	FWECKA
	Wall-mounting kit					FWFCKA	FWFCKA	FWFCKA	FWFCKA
Centralised control systems	Central remote control	DCS302CA51	DCS302CA51						
	Unified ON/OFF control	DCS301BA51	DCS301BA51						
	Schedule timer	DST301BA51	DST301BA51						
Building Management System & Standard protocol interface	Intelligent Touch Manager	DCM601A5A	DCM601A5A						
	Intelligent Touch Controller	DCS601C51C	DCS601C51C						

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

1. Decoration panel code includes wireless controller

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

Options & accessories - Fan coil units: Filters and Valves

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

INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWH-A	FWI-A	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF	FWL-DAT/DAF
Proportional valves	3-ways proportional valve kit (2-pipe)			E2C3PV02A (2 up to 4 class) E2C3PV06A (6 up to 8 class)	E2C3PV02A (2 up to 4 class) E2C3PV06A (6 up to 8 class)	E2MPV03A6 (2 & 3 class) E2MPV06A6 (6 class) E2MPV10A6 (8 class)	E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)	E2MPV03A6 (2 & 3 class) E2MPV06A6 (6 class) E2MPV10A6 (8 class)	E2MPV03A6 (1 up to 35 class) E2MPV06A6 (4 & 6 class) E2MPV10A6 (8 & 10 class)
	3-ways proportional valve kit (additional heat exchanger)								
	2-ways proportional valve kit (2-pipe)			E2C2PV02A (2 up to 4 class) E2C2PV06A (6 up to 8 class)	E2C2PV02A (2 up to 4 class) E2C2PV06A (6 up to 8 class)				
	3-ways proportional valve kit (4-pipe)			E4C3PV02A (2 up to 4 class) E4C3PV06A (6 up to 8 class)	E4C3PV02A (2 up to 4 class) E4C3PV06A (6 up to 8 class)	E4MPV03A6 (2 & 3 class) E4MPV06A6 (6 class) E4MPV10A6 (8 class)	E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)	E4MPV03A6 (2 & 3 class) E4MPV06A6 (6 class) E4MPV10A6 (8 class)	E4MPV03A6 (1 up to 35 class) E4MPV06A6 (4 & 6 class) E4MPV10A6 (8 & 10 class)
	2-ways proportional valve kit (cooling heat exchanger)					E2MPV207A6 (2, 3 & 6 class) E2MPV210A6 (8 class)	E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)	E2MPV207A6 (2, 3 & 6 class) E2MPV210A6 (8 class)	E2MPV207A6 (1 up to 6 class) E2MPV210A6 (8 & 10 class)
	2-ways proportional valve kit (additional heat exchanger)					E2MPV207A6	E2MPV207A6	E2MPV207A6	E2MPV207A6
	2-ways proportional valve kit (4-pipe)			E4C2PV02A (2 up to 4 class) E4C2PV06A (6 up to 8 class)	E4C2PV02A (2 up to 4 class) E4C2PV06A (6 up to 8 class)				
Pressure independent controlled valves	Pressure independent controlled valves (2-pipe) 2-way ON-OFF 230V			E2C2PICV02A (2 up to 4 class) E2C2PICV06A (6 up to 8 class)	E2C2PICV02A (2 up to 4 class) E2C2PICV06A (6 up to 8 class)				
	Pressure independent controlled valves (4-pipe) 2-way ON-OFF 230V			E4C2PICV02A (2 up to 4 class) E4C2PICV06A (6 up to 8 class)	E4C2PICV02A (2 up to 4 class) E4C2PICV06A (6 up to 8 class)				
	Pressure independent controlled valves (2-pipe) 2-way proportional 24V			E2C2PRPICV02A (2 up to 4 class) E2C2PRPICV06A (6 up to 8 class)	E2C2PRPICV02A (2 up to 4 class) E2C2PRPICV06A (6 up to 8 class)				
	Pressure independent controlled valves (4-pipe) 2-way proportional 24V			E4C2PRPICV02A (2 up to 4 class) E4C2PRPICV06A (6 up to 8 class)	E4C2PRPICV02A (2 up to 4 class) E4C2PRPICV06A (6 up to 8 class)				

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

INDOOR UNITS		FWC-BT/BF	FWF-BT/BF	FWH-A	FWI-A	FWZ-AT/AF	FWV-DAT/DAF	FWR-AT/AF	FWL-DAT/DAF
Adapters	Installation box/Mounting plate for adapter PCBs (when there is no space in the switchbox)	KRP1H98A	KRP1BB101						
	Wiring adapter for electrical appendices	KRP2A52 (2) KRP4AA53 (2)	KRP2A52 (2) KRP4AA53 (2)						
	Remote ON/OFF		EKROROA						
	Remote sensor	KRCS01-4	KRCS01-1						
	Optional PCB for MODBUS connection	EKFCMBCB	EKFCMBCB						
	Wiring adapter with 4 output signals for valve control PCB	EKRP1C11	EKRP1C11						
	Temperature sensor kit					FWTSKA	FWTSKA	FWTSKA	FWTSKA
	Relative humidity sensor kit					FWHSKA	FWHSKA	FWHSKA	FWHSKA
	Fan stop thermostat						YFSTA6		YFSTA6
	Master-slave interface						EPIMSA6		EPIMSA6
	Power interface								
Others	Fresh air intake kit (direct installation type)		KDDQ44XA60						
	Fresh air intake					EFA02A6 (2 class) EFA03A6 (3 class) EFA06A6 (6 class) EFA10A6 (8 class)	EFA02A6 (1, 15 & 2 class) EFA03A6 (25 & 3 class) EFA06A6 (35, 4 & 6 class) EFA10A6 (8 & 10 class)		
	Electrical box with earth terminal (2 blocks)	KJB212A	KJB212A						
	Electrical box with earth terminal (3 blocks)	KJB311A	KJB311A						
	Eletrical box with earth terminal	KJB411A	KJB411A						
	Electric heater (standard)					EEH02A6 (2 class) EEH03A6 (3 class) EEH06A6 (6 class) EEH10A6 (8 class)	EEH01A6 (1 class) EEH02A6 (15 & 2 class) EEH03A6 (25 & 3 class) EEH06A6 (35, 4 & 6 class) EEH10A6 (8 & 10 class)	EEH02A6 (2 class) EEH03A6 (3 class) EEH06A6 (6 class) EEH10A6 (8 class)	EEH01A6 (1 class) EEH02A6 (15 & 2 class) EEH03A6 (25 & 3 class) EEH06A6 (35, 4 & 6 class) EEH10A6 (8 & 10 class)
	Electric heater (big)								
	Additional heat exchanger					ESRH02A6 (2 class) ESRH03A6 (3 class) ESRH06A6 (6 class) ESRH10A6 (8 class)	ESRH02A6 (1, 15 & 2 class) ESRH03A6 (25 & 3 class) ESRH06A6 (35, 4 & 6 class) ESRH10A6 (8 & 10 class)	ESRH02A6 (2 class) ESRH03A6 (3 class) ESRH06A6 (6 class) ESRH10A6 (8 class)	ESRH02A6 (1, 15 & 2 class) ESRH03A6 (25 & 3 class) ESRH06A6 (35, 4 & 6 class) ESRH10A6 (8 & 10 class)
	Supporting feet					ESFV06A6 (2, 3 & 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)	ESFV06A6 (2, 3 and 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)
	Supporting feet and grille					ESFVG02A6 (2 class) ESFVG03A6 (3 class) ESFVG06A6 (6 class) ESFVG10A6 (8 class)	ESFVG02A6 (1, 15 & 2 class) ESFVG03A6 (25 & 3 class) ESFVG06A6 (35, 4 & 6 class) ESFVG10A6 (8 & 10 class)		
	Spigot for introduction of mixed renewal air			SPFAI1A	SPFAI1A				
	Plenum box with circular connections			PPAI02A (2 up to 4 class) PPAI06A (6 up to 8 class)	PPAI02A (2 up to 4 class) PPAI06A (6 up to 8 class)				
	Plenum box (not insulated insulated) with circular connections (supply side)								
	Plenum box (insulated) with circular connections (supply side)								
	G4 Filter								
	Vertical auxiliary drain pan					EDPVB6	EDPVB6	EDPVB6	EDPVB6
	Horizontal auxiliary drain pan					EDPHB6	EDPHB6	EDPHB6	EDPHB6
	Drain pump	included	included			CDRP1A	CDRP1A	CDRP1A (only vertical installation)	CDRP1A (only vertical installation)
	Vertical installation kit (Wall Mounted)								

2. Requires KRP1H98

FWS-AT/AF	FWM-DAT/DAF	FWE-DT/DF	FWE-CT/CF	FWP-CT/CF	FWB-CT/CF	FWD-AT/AF	FWN-AT/AF	FWT-GT
FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	FWTSKA	
FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	FWHSKA	
	YFSTA6				YFSTA6	YFSTA6		
	EPIMSA6	EPIMSA6	EPIMSA6		EPIMSA6	EPIMSA6		
						EPIB6 (only 16 & 18 class)		
						EDMFA04A6 (4 class) EDMFA06A6 (6 class) EDMFA10A6 (8 & 10 class) EDMFA12A6 (12 class) EDMFA18A6 (16 & 18 class)	EDMFA04A6 (4 & 5 class) EDMFA06A6 (6 & 7 class) EDMFA10A6 (8 & 10 class)	
EEH02A6 (2 class) EEH03A6 (3 class) EEH06A6 (6 class) EEH10A6 (8 class)	EEH01A6 (1 class) EEH02A6 (15 & 2 class) EEH03A6 (25 & 3 class) EEH06A6 (35, 4 & 6 class) EEH10A6 (8 & 10 class)			EH060V3A (4 & 5 class) EH100V36A 6 & 8 class) EH200V36A (10 up to 17 class)	EH060V3A (4 & 5 class) EH100V36A (6 & 8 class) EH200V36A (10 up to 17 class)	EDEH04A6 (4 class) EDEHS06B6 (6 class) EDEHS10B6 (8 & 10 class) EDEHS12B6 (12 class) EDEHS18B6 (16 & 18 class)	EDEH04A6 (4 & 5 class) EDEHS06B6 (6 & 7 class) EDEHS10B6 (8 & 10 class)	
						EDEH04A6 (4 class) EDEHB06A6 (6 class) EDEHB10A6 (8 & 10 class) EDEHB12A6 (12 class) EDEHB18A6 (16 & 18 class)	EDEH04A6 (4 & 5 class) EDEHB06A6 (6 & 7 class) EDEHB10A6 (8 & 10 class)	
ESRH02A6 (2 class) ESRH03A6 (3 class) ESRH06A6 (6 class) ESRH10A6 (8 class)	ESRH02A6 (1, 15 & 2 class) ESRH03A6 (25 & 3 class) ESRH06A6 (35, 4 & 6 class) ESRH10A6 (8 & 10 class)							
ESFV06A6 (2, 3 & 6 class) ESFV10A6 (8 class)	ESFV06A6 (1 up to 6 class) ESFV10A6 (8 & 10 class)	ESFH01D5 (installation leg for vertical application)						
EPCC02A6 (2 class) EPCC03A6 (3 class) EPCC06A6 (6 class) EPCC10A6 (8 class)	EPCC02A6 (1,15 & 2 class) EPCC03A6 (25 & 3 class) EPCC06A6 (35, 4 & 6 class) EPCC10A6 (8 & 10 class)							
				PLT1NAA (4 & 5 class) PLT2NAA (6 & 8 class) PLT3NAA (10 up to 17 class)	PLT1NAA (4 & 5 class) PLT2NAA (6 & 8 class) PLT3NAA (10 up to 17 class)			
				PLT1CAA (4 & 5 class) PLT2CAA (6 & 8 class) PLT3CAA (10 up to 17 class)	PLT1CAA (4 & 5 class) PLT2CAA (6 & 8 class) PLT3CAA (10 up to 17 class)			
				FG4T1AA (4 & 5 class) FG4T2AA (6 & 8 class) FG4T3AA (10 up to 17 class)	FG4T1AA (4 & 5 class) FG4T2AA (6 & 8 class) FG4T3AA (10 up to 17 class)			
EDPVB6	EDPVB6	ESFD01D6				EDDPV10A6 (4, 6, 8, 10 class) EDDPV18A6 (12, 16 & 18 class)	EDDPV10A6	
EDPHB6	EDPHB6			EDPD7 (4 up to 8 class) EDPD9 (10 up to 17 class)	EDPD7 (4 up to 8 class) EDPD9 (10 up to 17 class)	EDDPH10A6 (4, 6, 8, 10 class) EDDPH18A6 (12, 16 & 18 class)	EDDPH10A6	
CDRP1A	CDRP1A			CDRP1A	CDRP1A	CDRP1A	CDRP1A	
		ESFH02D5						

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