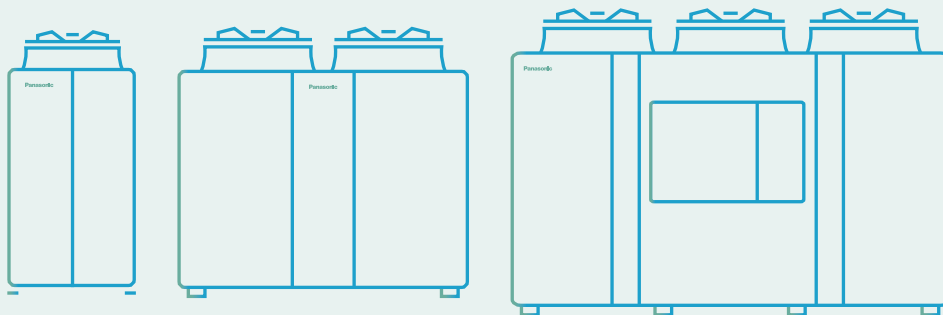


ECOi-W Chiller Catalogue 2022/2023

Cooling only and heat pumps chillers



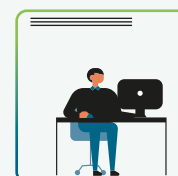
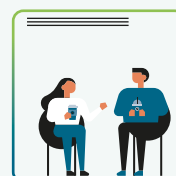
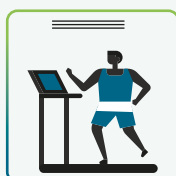
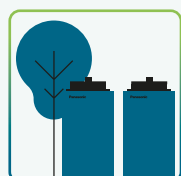
ECO i - W



Discover a new era of ECOi, the ECOi-W. Cooling only and heat pumps chillers

Panasonic introduces the new ECOi-W cooling only and heat pumps chiller series. These new series provides a wide variety of HVAC system solutions, to meet all of your residential, commercial and industrial needs.

ECOi-W meets the customer's needs	→ 4	Fan coils	→ 54
Solutions for Hospitals	→ 6	Range of fan coils	→ 54
ECOi-W R32 outdoor units		Fan coils - ducted	→ 56
The new range of sustainable chiller solutions to suit a variety of commercial and industrial applications	→ 8	Fan coils - high static pressure ducted	→ 58
Quality, efficiency and sustainability	→ 10	Fan coils - 4 way cassette	→ 60
Range of ECOi-W R32 outdoor units	→ 12	Fan coils - ceiling chassis	→ 62
U - 050/060/070/075 CQ, CR, CS	→ 14	Fan coils - floor-standing chassis	→ 64
U - 085/100/115/130 CQ, CR, CS	→ 16	Fan coils - wall-mounted	→ 66
U - 150/170 CQ, CR, CS	→ 18	Smart fan coils	→ 67
U - 050/060/070/075 CM, CN, CO	→ 20	Control and connectivity	→ 68
U - 085/100/115/130 CM, CN, CO	→ 22	Wired controllers for outdoor units	→ 68
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Options for R32 outdoor units	→ 26	Accessories and control	→ 70
ECOi-W R410A outdoor units			
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U - 045/055/065/075 CW	→ 44		
U - 090/105/125 CW	→ 46		
U - 140/150/170/190/210 CW	→ 48		
Options for R410A outdoor units	→ 50		



ECOi-W meets the customer's needs, with these fully customisable heat pumps and cooling only chillers

Unrivalled reliability and quality.

Panasonic solutions can be enjoyed for years to come, even in the most extreme climates. Panasonic does not compromise on product quality, safety or durability, in order to provide the ultimate comfort when you need it most.



There is a reason to choose Panasonic as your partner.

ECO*i*-W

Panasonic does not compromise on product quality, always striving for 100 % quality.

ECO*i*-W series offers smart technology meeting your needs at home and business.

Energy saving


R32

Refrigerant gas R32.

Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP).

HIGH SEER

4,78

High seasonal efficiency in cooling mode.

SEER follows COMMISSION REGULATION (EU) No 2016/2281.

* U-020 R410A Cooling Only.

HIGH SCOP

3,73

High seasonal efficiency in heating mode.

SCOP follows COMMISSION REGULATION (EU) No 813/2013.

* U-130 R32 Heat Pump Chiller.



EC MOTOR GREEN VENTILATION

EC motor green ventilation.

Range of fan coil with improved efficiency with optional EC fan motor.

* Only available with R32 units.

High performance and comfortability



SUPER QUIET

Super quiet.

Extra quiet operation is available as standard (with sizes 20 - 40, 140 - 210).



BLUEFIN

Bluefin.

Bluefin coil comes as standard on all heat pump models. The life time of coils have been extended thanks to the hydrophilic coating.



ULTIMATE CUSTOMISATION

Ultimate customisation.

Various pump, hydraulic, ambient options offered, plus many more. Ultimate customization for your needs and environment.



AUTOMATIC FAN

Automatic fan operation.

The microprocessor control automatically adjusts the fan speed as a function of the operating conditions.



HEATING MODE

Down to -17 °C in heating mode.

The ECO*i*-W system works in heating mode at outdoor temperature down to -17 °C.

* Available on R410A units.



COOLING MODE

Up to 50 °C in cooling mode.

The ECO*i*-W system works in cooling mode at outdoor temperature up to 50 °C.

* Up to 48 °C with R32 models.



DEFROST LIMITING

Defrost limiting cycle (140 - 210).

Each pair of coils can be defrosted wisely while the other pair of coils are running in heating mode.

This alternated defrost cycle ensures stable hot water even at low ambient conditions.

* Available on R410A models 140 - 210.

High connectivity



BMS CONNECTIVITY

BMS connectivity.

The communication port can be integrated into the ECO*i*-W system and provides easy connection and control. Modbus RTU is equipped as standard. Modbus TCP/IP, BACnet IP and BACnet MSTP as optional availability.

Reliable quality

100% QUALITY
QUALITY CERTIFIED BY PANASONIC

Quality certified by Panasonic.

Panasonic does not compromise on product quality, safety, durability in order to provide the ultimate comfort when you need it most.



Eurovent certified performance.

The performance of ECO*i*-W Series has been certified by Eurovent to prove the high quality and high performance by Panasonic.

<https://www.eurovent-certification.com/>

ErP



ECO*i*-W Series are compliant with ErP regulation.

SEER follows COMMISSION REGULATION (EU) No 2016/2281.

SCOP follows COMMISSION REGULATION (EU) No 813/2013.

Support materials for customers

AutoCAD 2D files and BIM models for ECO*i*-W full range is readily available at Panasonic PROClub.

<https://www.panasonicproclub.com>



Solutions for Hospitals

ECOi-W Series offers a reliable solution with an optimised design for service and maintenance, making it ideal for hospital applications. Remote monitoring through the ECOi-W Cloud offers enhanced service support and a highly efficient fan coil range delivers increased comfort.



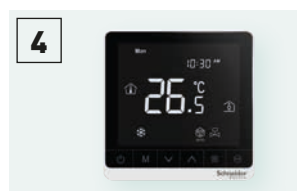
High quality heat pumps and cooling only chillers.
ECOi-W Series provides a fully customisable design to meet the business application needs, with a capacity range from 20 kW to 210 kW. Reliable quality and an optimised design for service and maintenance are ideal for a hospital project.



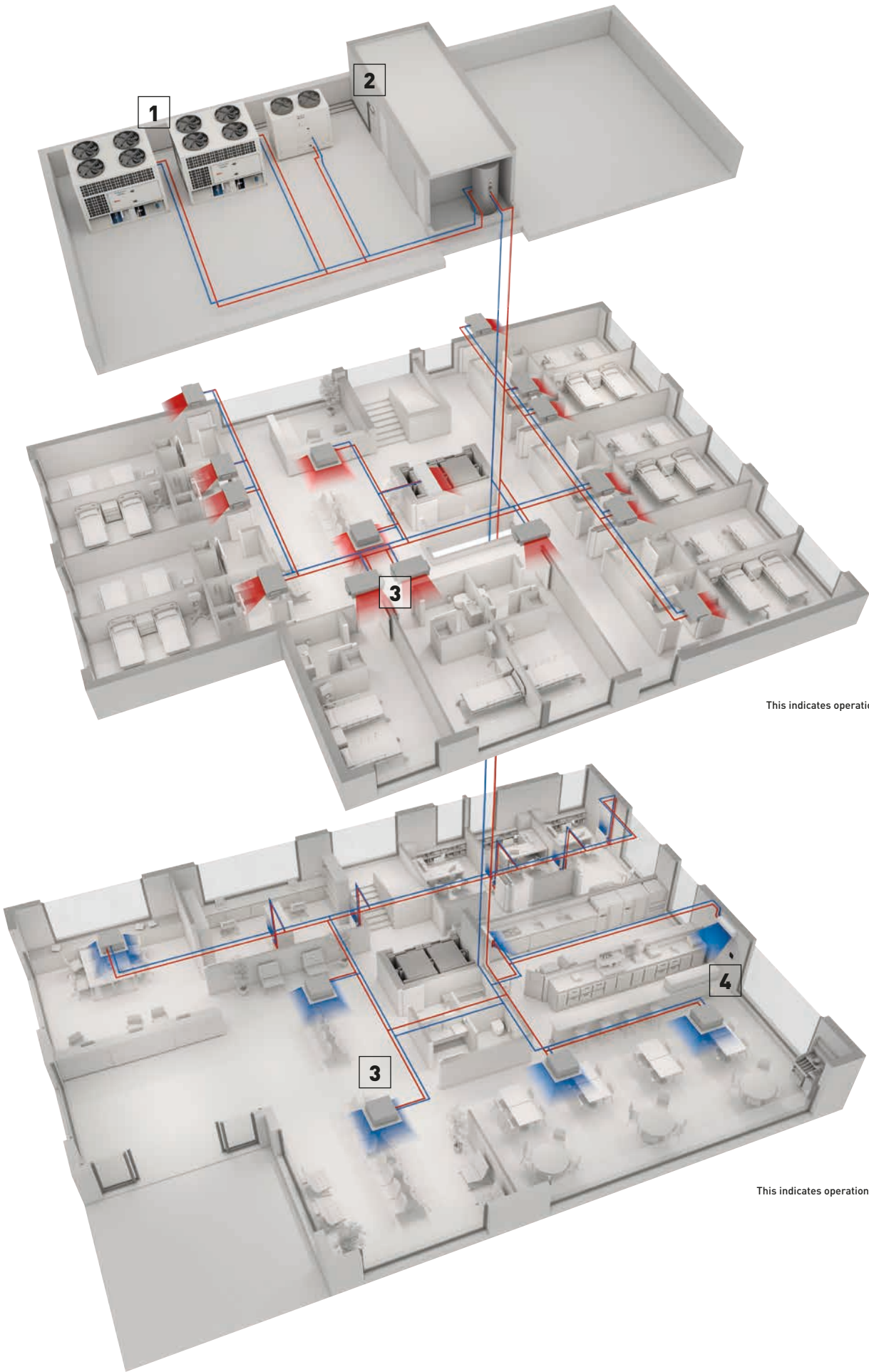
ECOi-W Cloud - remote monitoring.
This control provides remote access, in real time, to optimise service and maintenance work. It is a useful solution for a project requiring high levels of safety and non-stop operation, such as hospitals.



A wide variety of fan coils.
A wide variety of units to suit your needs, with flexible installation options. High efficiency and low noise operation allows for optimum comfort. Operation in heating and cooling is possible.



Intuitive controllers for fan coils.
Controllers with sophisticated designs provide a user friendly interface. An easy and low cost integration to building management systems.



This indicates operation in winter.

This indicates operation in summer.

EC0i-W R32, the new range of sustainable chiller solutions to suit a variety of commercial and industrial applications

EC0i-W provides the optimal performance in any climatic condition.



1 High efficiency level

- High efficiency levels thanks to an efficient compressor's performance, specially designed for R32 refrigerant.

2 R32 Refrigerant

- Thanks to a GWP (Global Warming Potential) of 675, this refrigerant is 3 times less polluting than the standard R410A.

3 High flexibility

- Capacity range from 50 to 170 kW
- Customisable design
- Operating range: -15 °C (heating) to 48 °C (cooling)

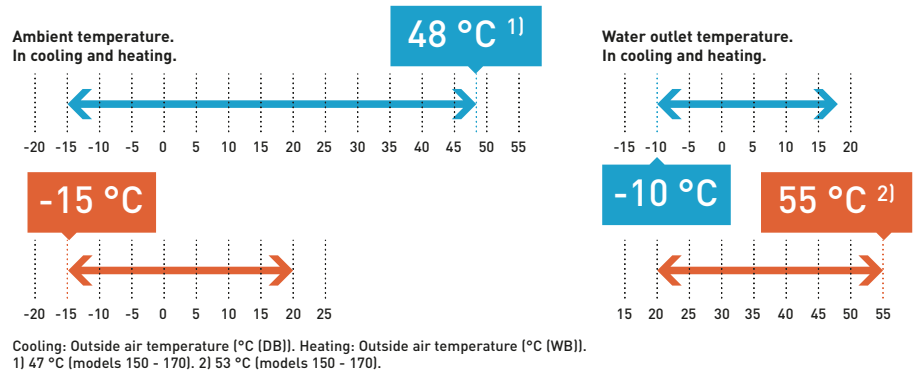
4 High quality

- Defrost limiting coil design
- Optimised design for service and maintenance
- Compact footprint

Operating conditions

Panasonic ECOi-W provides a wide operating range from -15 °C in heating to 48 °C in cooling.

Water outlet temperature in cooling.
A water outlet temperature of -10 °C in cooling offers a uniqueness to the ECOi-W Series, which can ensure the operation temperature of the process equipment in factories.



ECOi-W R32 line-up

ECOi-W R32 size	50	60	70	75	85	100	115	130	150	170	
Cooling only range	Cooling capacities (kW)										
	52,6	60,4	70,0	75,3	84,2	102,0	121,0	135,0	156,0	176,0	
	SEER	4,23	4,40	4,57	4,60	4,52	4,30	4,53	4,47	4,64	4,56
Heat pump range	Cooling capacities (kW)										
	49,9	60,4	70,0	75,3	84,2	102,0	121,0	135,0	156,0	176,0	
	Heating capacities (kW)										
	53,5	61,5	71,7	80,0	86,2	105,0	123,0	137,0	158,0	182,0	
	SEER ¹⁾	4,36	4,32	4,54	4,47	4,48	4,35	4,34	4,33	4,61	4,62
	SCOP ¹⁾	3,63	3,52	3,55	3,57	3,57	3,63	3,60	3,73	3,65	3,60
	Energy efficiency class (heating) ^{1) 2)}	A+	A+	A+	—	—	—	—	—	—	—
Dimension (HxWxD)											
	1986x2180x1160		1986x2180x1160		2286x2180x1160			2285 x 3789 x 1151			

1) Those are the data with variable flow. 2) Following Eurovent and COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D, as of 26th September 2019.

ECOi-W R32. Quality, efficiency and sustainability

Offering a highly efficient and environmentally friendly solution; the combination of a 3 times less polluting refrigerant along with a new generation of outdoor heat exchangers helps to reduce the carbon footprint of each unit by 84%.¹⁾

Better for your buildings, therefore better for the planet.



Key points

- 10 sizes - 4 chassis
- Cooling only or Reversible units
- Low GWP R32 refrigerant
- High efficiency
- Wide operating limits
- Low footprint
- New advanced control system
- Easy maintenance
- Standard or Super low noise versions
- Remotely controllable with ECOi-W Cloud
- 100% factory tested

Outstanding water pump configuration

Units can be equipped with a variable speed pump that automatically adjusts its speed according to the required capacity.

Compared to a fixed-speed pump, and depending on the operating profile of a pump working at partial load, the annual energy consumption of the pump can be reduced.

R32
675

R410A
2088



GWP - Measurement scale.

1) Comparison made between equivalent units operating respectively with R410A and R32 refrigerants. Impact only considers the refrigerants and not the units as a whole. 2) U-150 R32 Cooling Only. 3) U-130 R32 Heat Pump Chiller.

Compact units

The ECOi-W R32 range has been designed in a compact manner to ensure the smallest possible footprint. The first chassis measures 2,53 m² and the third chassis features **one of the smallest footprint on the market** with an average ratio of 37 kW/m².

Super low noise versions

For the entire range, customers can choose between a standard unit or a super low noise version. The super low noise version features EC fans and compressor sound jackets for improved sound levels.

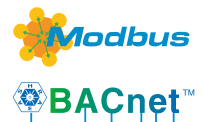


New advanced control system

The ECOi-W R32 units are equipped with a brand-new controller and a user-friendly external control panel that displays the operating parameters and alarms.



Optimised for EC fans control and electronic expansion valve management, the new controller comes built-in with the following communication protocols: Modbus RTU, Modbus TCP/IP, Bacnet MSTP, Bacnet IP.



EC fans

For an even better efficiency level and improved acoustic performance, ECOi-W R32 units can be equipped with EC fans*.

*EC type high pressure fans also available.

Scroll Compressors

The two Scroll compressors are optimized for the R32 refrigerant and are covered with sound jackets in "Super low noise" (S) versions.

Removable panels

Great accessibility to internal components for easy service operations.


Electronic expansion valve

This reliable and high-performance valve minimises overheating of the evaporator. It is directly managed from the control system.

Highly optimised external heat exchanger

New coil design enables a refrigerant charge reduction of 40%.

Range of ECOi-W R32 outdoor units

Page	Outdoor units	50 kW	60 kW	70 kW	75 kW
	ECOi-W R32 50 to 60				
P. 14	Cooling only	U-050CQNB / U-050CQBM / U-050CRNB / U-050CRBM / U-050CSNB / U-050CSBM	U-060CQNB / U-060CQBM / U-060CRNB / U-060CRBM / U-060CSNB / U-060CSBM		
P. 20	Heat pump	U-050CMNB / U-050CMBM / U-050CNNB / U-050CNBM / U-050CONB / U-050COBM	U-060CMNB / U-060CMBM / U-060CNNB / U-060CNBM / U-060CONB / U-060COBM		
	ECOi-W R32 70 to 75				
P. 14	Cooling only		U-070CQNB / U-070CQBM / U-070CRNB / U-070CRBM / U-070CSNB / U-070CSBM	U-075CQNB / U-075CQBM / U-075CRNB / U-075CRBM / U-075CSNB / U-075CSBM	
P. 20	Heat pump		U-070CMNB / U-070CMBM / U-070CNNB / U-070CNBM / U-070CONB / U-070COBM	U-075CMNB / U-075CMBM / U-075CNNB / U-075CNBM / U-075CONB / U-075COBM	
	ECOi-W R32 85 to 130				
P. 16	Cooling only				
P. 22	Heat pump				
	ECOi-W R32 150 to 170				
P. 18	Cooling only				
P. 24	Heat pump				

85 kW

100 kW

115 kW

130 kW

150 kW

170 kW



U-085CQNB /	U-100CQNB /	U-115CQNB /	U-130CQNB /
U-085CQBL /	U-100CQBL /	U-115CQBL /	U-130CQBL /
U-085CRNB /	U-100CRNB /	U-115CRNB /	U-130CRNB /
U-085CRBL /	U-100CRBL /	U-115CRBL /	U-130CRBL /
U-085CSNB /	U-100CSNB /	U-115CSNB /	U-130CSNB /
U-085CSBL /	U-100CSBL /	U-115CSBL /	U-130CSBL /

U-085CMNB /	U-100CMNB /	U-115CMNB /	U-130CONB /
U-085CMBL /	U-100CMBL /	U-115CMBL /	U-130COBL /
U-085CNNB /	U-100CNNB /	U-115CNNB /	U-130CMNB /
U-085CNBL /	U-100CNBL /	U-115CNBL /	U-130CMBL /
U-085CONB /	U-100CONB /	U-115CONB /	U-130CNNB /
U-085COBL /	U-100COBL /	U-115COBL /	U-130CNBL /



U-150CQNB / U-150CQBL /	U-170CQNB / U-170CQBL /
U-150CRNB / U-150CRBL /	U-170CRNB / U-170CRBL /
U-150CSNB / U-150CSBL /	U-170CSNB / U-170CSBL /

U-150CMNB / U-150CMBL /	U-170CMNB / U-170CMBL /
U-150CNNB / U-150CNBL /	U-170CNNB / U-170CNBL /
U-150CONB / U-150COBL /	U-170CONB / U-170COBL /



U - 050/060/070/075 CQ, CR, CS

Cooling capacity: 52,6 to 75,3 kW

High seasonal efficiency and wide range options to meet the exact requirements of your project.

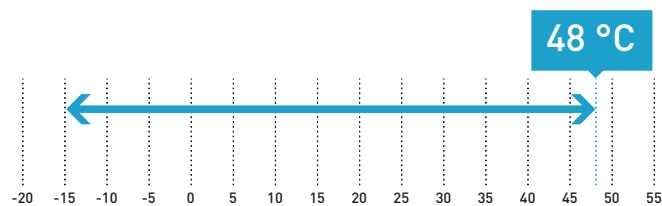


- High seasonal efficiency
- Ambient temperature operating range: -15 to +48 °C
- Water outlet temperature range: -10 to +18 °C
- Optional acoustically insulating compressor jacket
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU & TCP/IP, BACnet MSTP & IP as standard
- Electronic expansion valves

Technical focus

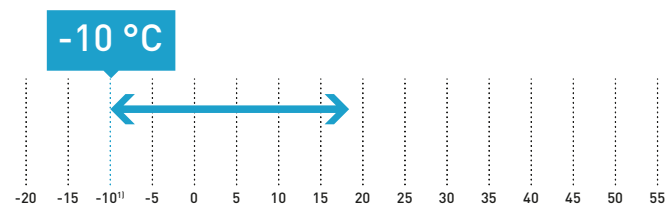
- Chiller type: cooling only
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R32
- Refrigerant circuit: 1
- Fan type (number): axial fan (1 for 50/60, 2 for 70/75), optional EC and high pressure EC fans
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control

Ambient temperature.



Cooling: Outside air temperature [°C (DB)].

Water outlet temperature.



Available options

Options					
Pump	Pump drive	Hydraulic options	Ambient options	Control options	Electrical options
Single pump low pressure	Fixed speed	Low water pressure sensor ¹⁾	Finned coil treatment - epoxy	Energy meter	EC fan(s) option
Single pump high pressure	Variable twin speed (single pump)	Desuperheater	Finned coil Blygold treatment	Digital input for: Cooling/heating or Night mode or Load Shedding	Soft starter
Double pump low pressure	Variable twin speed (double pump)	Water isolation valves	Outdoor coil protection grid		Refrigerant options
Double pump high pressure	Constant outlet pressure (single pump) ²⁾		Rubber pads (supplied loose)		Refrigerant gauges (HP and LP manometers)
	Constant outlet pressure (double pump) ²⁾		Spring damper (supplied loose)		
			Container transport		
			Acoustically insulating compressor jacket		

1) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site. 2) Available on special quotation, please contact your local sales representative



Optional remote control.
PAW-SYSREMKIT1



Optional Shut off valves kit for model 50 - 75.
PAW-SYSSOV4



REFER TO PAGE 26 TO SEE MORE OPTIONS FOR R32 OUTDOOR UNITS

Model			50	60	70	75
AC fan model w/o buffer / w buffer			U-050CQNB/U-050CQBM	U-060CQNB/U-060CQBM	U-070CQNB/U-070CQBM	U-075CQNB/U-075CQBM
EC fan model w/o buffer / w buffer			U-050CRNB/U-050CRBM	U-060CRNB/U-060CRBM	U-070CRNB/U-070CRBM	U-075CRNB/U-075CRBM
High pressure EC fan model w/o buffer / w buffer			U-050CSNB/U-050CSBM	U-060CSNB/U-060CSBM	U-070CSNB/U-070CSBM	U-075CSNB/U-075CSBM
Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Cooling capacity ¹⁾		kW	52,6	60,4	70,0	75,3
Input power cooling ¹⁾		kW	16,8	19,8	22,3	25,7
Total EER 100 % ¹⁾			3,12	3,05	3,15	2,93
SEER ²⁾			4,23	4,40	4,57	4,60
η_{s,c} ²⁾		%	166	173	180	181
Startup type			Direct	Direct	Direct	Direct
Maximum operating current		A	43,3	52,7	60	69,4
Startup current w/o softstarter / w softstarter		A	161/119	162/121	200/148	209/157
Sound power (w AC / EC fans)		dB(A)	83,2	83,8	81,3	81,3
Sound pressure (w AC / EC fans) ³⁾		dB(A)	51,4	52	49,5	49,5
Sound power (w HP EC fans)		dB(A)	87,2	87,3	89,2	89,3
Sound pressure (w HP EC fans) ³⁾		dB(A)	55,4	55,5	57,4	57,5
Dimension (w AC fans) w/o buffer	HxWxD	mm	1986x2180x1160	1986x2180x1160	1986x2180x1160	1986x2180x1160
Dimension (w AC fans) w buffer	HxWxD	mm	1986x2680x1160	1986x2680x1160	1986x2680x1160	1986x2680x1160
Dimension (w EC / HP EC fans) w/o buffer	HxWxD	mm	2034x2180x1160	2034x2180x1160	2034x2180x1160	2034x2180x1160
Dimension (w EC / HP EC fans) w buffer	HxWxD	mm	2034x2680x1160	2034x2680x1160	2034x2680x1160	2034x2680x1160
Operating weight w/o buffer		kg	527	547	621	637
Operating weight w buffer		kg	1018	1038	1114	1130
Refrigerant (R32)		kg	7,9	8,1	10,3	10,6
Number of refrigerant circuit			1	1	1	1
Compressors						
Number			2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll
Part load step		%	0/47/53/100	0/41/59/100	0/40/60/100	0/46/54/100
Crankcase heater		W	70/70	70/66	70/66	66/66
Evaporator						
Number			1	1	1	1
Type			Plate	Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	9,2	10,6	12,2	13,2
Water pressure drop	Cool	kPa	35,4	46,8	33,1	38,2
Water volume		l	4,1	4,1	6,1	6,1
Antifreeze heater		W	30	30	2x30	2x30
Coils						
Number			1	1	2	2
Frontal surface		m ²	4,2	4,2	5,6	5,6
Number of rows			2	2	2	2
Fans standard						
Number			1	1	2	2
Air flow		m ³ /h	21200	21200	30000	30000
Rotation speed	AC	r.p.m.	870	870	690	690
Power input (each fan)		W	2,1	2,1	1	1
Air flow		m ³ /h	21200	21200	30000	30000
Rotation speed	EC	r.p.m.	780	780	620	620
Power input (each fan)		W	1,1	1,1	0,6	0,6
Air flow		m ³ /h	21200	21200	30000	30000
Rotation speed	HP EC	r.p.m.	940	940	940	940
Power input (each fan)		W	1,6	1,6	1,9	1,9
Static pressure		Pa	85	85	180	180
Water connections						
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter	Evaporator	Inch	2	2	2	2
Outlet - diameter		Inch	2	2	2	2
Inlet - diameter	Desuperheater	Inch	1 ¼	1 ¼	1 ¼	1 ¼
Outlet - diameter		Inch	1 ¼	1 ¼	1 ¼	1 ¼

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.
* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories	
PAW-SYSREMKIT1	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glante for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV4	Shut off valves kit for model 50 - 75





U - 085/100/115/130 CQ, CR, CS

Cooling capacity: 84,2 to 135,0 kW

Customizable design gives high flexibility. Wide range of communication protocols fulfill the requirements in hotels, offices, industry applications.

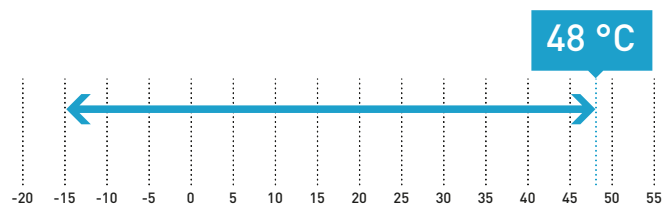


- High seasonal efficiency
- Ambient temperature operating range: -15 to +48 °C
- Water outlet temperature range: -10 to +18 °C
- Optional acoustically insulating compressor jacket
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU & TCP/IP, BACnet MSTP & IP as standard
- Electronic expansion valves

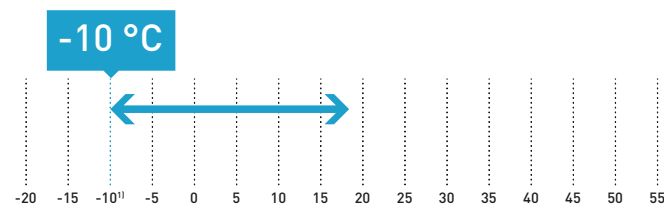
Technical focus

- Chiller type: cooling only
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R32
- Refrigerant circuit: 1
- Fan type (number): axial fan (2), optional EC and high pressure EC fans
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C (DB)].

Available options

Options					
Pump	Pump drive	Hydraulic options	Ambient options	Control options	Electrical options
Single pump low pressure	Fixed speed	Low water pressure sensor ¹⁾	Finned coil treatment - epoxy	Energy meter	EC fan(s) option
Single pump high pressure	Variable twin speed (single pump)	Desuperheater	Finned coil Blygold treatment	Digital input for: Cooling/heating or Night mode or Load Shedding	Soft starter
Double pump low pressure	Variable twin speed (double pump)	Water isolation valves	Outdoor coil protection grid		Refrigerant options
Double pump high pressure	Constant outlet pressure (single pump) ²⁾		Rubber pads (supplied loose)		Refrigerant gauges (HP and LP manometers)
	Constant outlet pressure (double pump) ²⁾		Spring damper (supplied loose)		
			Container transport		
			Acoustically insulating compressor jacket		

1) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site. 2) Available on special quotation, please contact your local sales representative



Optional remote control.
PAW-SYSREMKIT1



Optional Shut off valves kit for model 85-170.
PAW-SYSSOV5



REFER TO PAGE 26 TO SEE MORE OPTIONS FOR R32 OUTDOOR UNITS

Model			85	100	115	130
AC fan model w/o buffer / w buffer			U-085CQNB/U-085CQBL	U-100CQNB/U-100CQBL	U-115CQNB/U-115CQBL	U-130CQNB/U-130CQBL
EC fan model w/o buffer / w buffer			U-085CRNB/U-085CRBL	U-100CRNB/U-100CRBL	U-115CRNB/U-115CRBL	U-130CRNB/U-130CRBL
High pressure EC fan model w/o buffer / w buffer			U-085CSNB/U-085CSBL	U-100CSNB/U-100CSBL	U-115CSNB/U-115CSBL	U-130CSNB/U-130CSBL
Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Cooling capacity ¹⁾		kW	84,2	102,2	121,0	135,0
Input power cooling ¹⁾		kW	29,1	34,1	37,8	42,6
Total EER 100 % ¹⁾			2,89	3,00	3,19	3,16
SEER ²⁾			4,52	4,30	4,53	4,47
$\eta_{s,c}$ ²⁾		%	178	169	178	176
Startup type			Direct	Direct	Direct	Direct
Maximum operating current		A	75,0	86,6	93,8	104,2
Startup current w/o softstarter / w softstarter		A	215/129	326/240	333/247	343/257
Sound power (w AC / EC fans)		dB(A)	84,4	86,0	87,0	87,4
Sound pressure (w AC / EC fans) ³⁾		dB(A)	52,5	54,1	55,1	55,5
Sound power (w HP EC fans)		dB(A)	89,3	89,7	90,0	90,2
Sound pressure (w HP EC fans) ³⁾		dB(A)	57,4	57,8	58,1	58,3
Dimension (w AC fans) w/o buffer	HxWxD	mm	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160
Dimension (w AC fans) w buffer	HxWxD	mm	2286x2680x1160	2286x2680x1160	2286x2680x1160	2286x2680x1160
Dimension (w EC / HP EC fans) w/o buffer	HxWxD	mm	2334x2180x1160	2334x2180x1160	2334x2180x1160	2334x2180x1160
Dimension (w EC / HP EC fans) w buffer	HxWxD	mm	2334x2680x1160	2334x2680x1160	2334x2680x1160	2334x2680x1160
Operating weight w/o buffer		kg	701	731	813	815
Operating weight w buffer		kg	1202	1232	1317	1319
Refrigerant (R32)		kg	12,8	10,9	13	15
Number of refrigerant circuit			1	1	1	1
Compressors						
Number			2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/34/66/100	0/44/56/100	0/50/100
Crankcase heater		W	66/66	66/66	66/66	66/66
Evaporator						
Number			1	1	1	1
Type			Plate	Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	14,7	17,9	21,1	23,6
Water pressure drop	Cool	kPa	22,6	33,5	46,6	58,1
Water volume		l	7,8	7,8	7,8	7,8
Antifreeze heater		W	2x30	2x30	2x30	2x30
Coils						
Number			2	2	2	2
Frontal surface		m ²	6,4	6,4	6,4	6,4
Number of rows			2	2	3	3
Fans standard						
Number			2	2	2	2
Air flow		m ³ /h	41300	41300	41300	41300
Rotation speed	AC	r.p.m.	870	870	870	870
Power input (each fan)		W	2,1	2,1	1,6	1,6
Air flow		m ³ /h	41300	41300	41300	41300
Rotation speed	EC	r.p.m.	780	780	780	780
Power input (each fan)		W	0,8	0,8	1	1
Air flow		m ³ /h	41300	41300	41300	41300
Rotation speed	HP EC	r.p.m.	940	940	940	940
Power input (each fan)		W	1,6	1,6	1,6	1,6
Static pressure		Pa	85	85	85	85
Water connections						
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter	Evaporator	Inch	2 ½	2 ½	2 ½	2 ½
Outlet - diameter		Inch	2 ½	2 ½	2 ½	2 ½
Inlet - diameter	Desuperheater	Inch	1 ¼	1 ¼	1 ¼	1 ¼
Outlet - diameter		Inch	1 ¼	1 ¼	1 ¼	1 ¼

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.

* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories

PAW-SYSREMKIT1	Remote control
PAW-CM0005P041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glante for mobile (2/4G) antenna (3 m)

Accessories

PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV5	Shut off valves kit for model 80 - 170

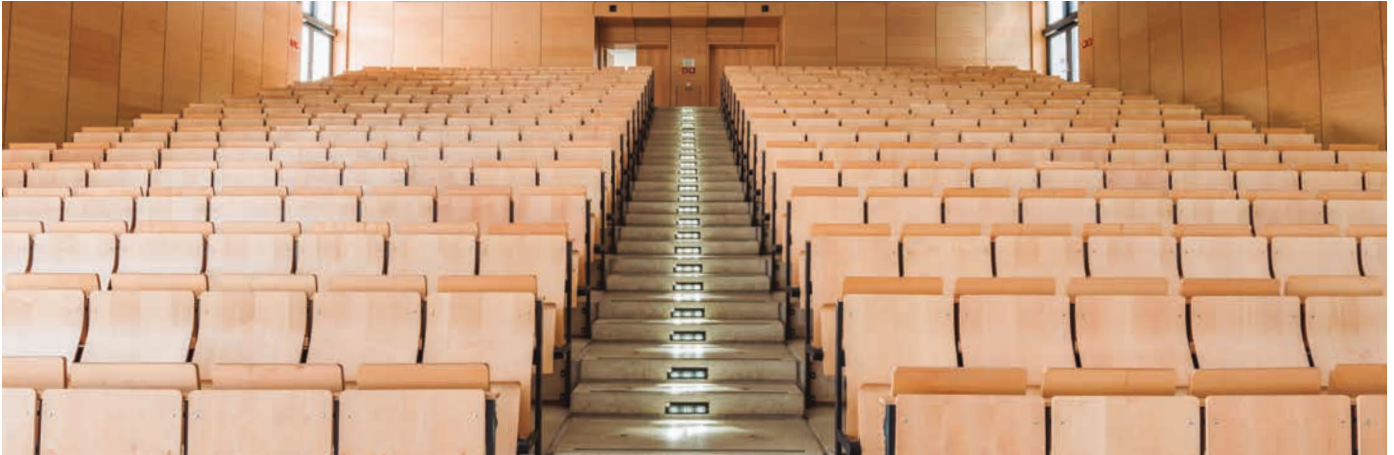




U - 150/170 CQ, CR, CS

Cooling capacity: 156,0 to 176,0 kW

Powerful and efficient operation with 2 scroll compressors and superior flexibility with plug and play hydraulic options.

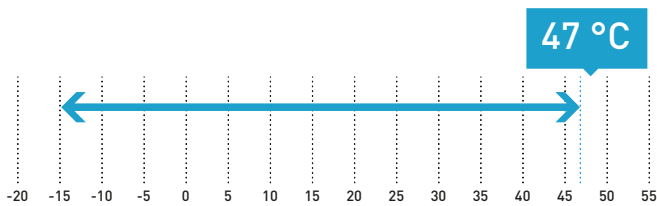


- High seasonal efficiency
- Ambient temperature operating range: -15 to +47 °C
- Water outlet temperature range: -10 to +18 °C
- Victaulic water connections
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU & TCP/IP, BACnet MSTP & IP as standard
- Electronic expansion valves

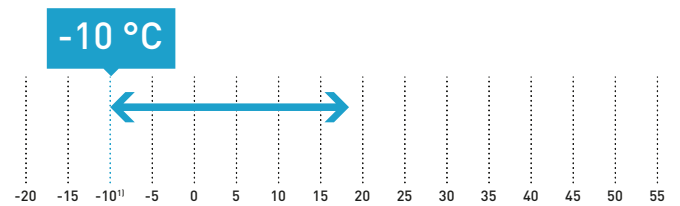
Technical focus

- Chiller type: cooling only
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R32
- Refrigerant circuit: 2
- Fan type (number): axial fan (3), optional EC and high pressure EC fans
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C (DB)].

Available options

Options					
Pump	Pump drive	Hydraulic options	Ambient options	Control options	Electrical options
Single pump low pressure	Fixed speed	Low water pressure sensor ¹⁾	Finned coil treatment - epoxy	Energy meter	EC fan(s) option
Single pump high pressure	Variable twin speed (single pump)	Desuperheater	Finned coil Blygold treatment	Digital input for: Cooling/heating or Night mode or Load Shedding	Power factor correction capacitors
Double pump low pressure	Variable twin speed (double pump)	Water isolation valves	Outdoor coil protection grid		Soft starter
Double pump high pressure	Constant outlet pressure (single pump) ²⁾		Rubber pads (supplied loose)		
	Constant outlet pressure (double pump) ²⁾		Spring damper (supplied loose)		
			Container transport		
			Acoustically insulating compressor jacket		
					Refrigerant options
					Refrigerant gauges (HP and LP manometers)

1) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site. 2) Available on special quotation, please contact your local sales representative



Optional remote control.
PAW-SYSREMKIT1



Optional Shut off valves kit for model 85-170.
PAW-SYSSOV5



REFER TO PAGE 26 TO SEE MORE OPTIONS FOR R32 OUTDOOR UNITS

Model			150	170
AC fan model w/o buffer / w buffer			U-150CQNB / U-150CQBL	U-170CQNB / U-170CQBL
EC fan model w/o buffer / w buffer			U-150CRNB / U-150CRBL	U-170CRNB / U-170CRBL
High pressure EC fan model w/o buffer / w buffer			U-150CSNB / U-150CSBL	U-170CSNB / U-170CSBL
Power supply	Voltage	V	400	400
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Cooling capacity ¹⁾		kW	156,0	176,0
Input power cooling ¹⁾		kW	47,9	55,5
Total EER 100 % ¹⁾			3,26	3,17
SEER ²⁾			4,64	4,56
$\eta_{s,c}$ ²⁾		%	183	179
Startup type			Direct	Direct
Maximum operating current		A	125	142
Startup current w/o softstarter / w softstarter		A	363/277	380/294
Sound power (w AC / EC fans)		dB(A)	88,9	91,1
Sound pressure (w AC / EC fans) ³⁾		dB(A)	57,0	59,2
Sound power (w HP EC fans)		dB(A)	91,6	92,3
Sound pressure (w HP EC fans) ³⁾		dB(A)	59,7	60,4
Dimension (w AC fans) w/o buffer	H x W x D	mm	2285 x 3789 x 1151	2285 x 3789 x 1151
Dimension (w AC fans) w buffer	H x W x D	mm	2285 x 3789 x 1151	2285 x 3789 x 1151
Dimension (w EC / HP EC fans) w/o buffer	H x W x D	mm	2333 x 3789 x 1151	2333 x 3789 x 1151
Dimension (w EC / HP EC fans) w buffer	H x W x D	mm	2333 x 3789 x 1151	2333 x 3789 x 1151
Operating weight w/o buffer		kg	1265	1279
Operating weight w buffer		kg	1683	1697
Refrigerant (R32)		kg	19,2	20,0
Number of refrigerant circuit			1	1
Compressors				
Number			2	2
Type			Scroll	Scroll
Part load step		%	0/45/55/100	0/38/62/100
Crankcase heater		W	66/105	66/105
Evaporator				
Number			1	1
Type			Plate	Plate
Nominal water flow	Cool	m ³ /h	27,3	30,7
Water pressure drop	Cool	kPa	39,1	49,7
Water volume		l	11,5	12,9
Antifreeze heater		W	130	130
Coils				
Number			2	2
Frontal surface		m ²	8,7	8,7
Number of rows			3	3
Fans standard				
Number			3	3
Air flow		m ³ /h	56200	56200
Rotation speed	AC	r.p.m.	870	870
Power input (each fan)		W	1,4	1,4
Air flow		m ³ /h	56200	56200
Rotation speed	EC	r.p.m.	780	780
Power input (each fan)		W	0,8	0,8
Air flow		m ³ /h	56200	56200
Rotation speed	HP EC	r.p.m.	940	940
Power input (each fan)		W	1,7	1,7
Static pressure		Pa	110	110
Water connections				
Type			Male gas threaded BSPP ISO 229	Male gas threaded BSPP ISO 230
Inlet - diameter	Evaporator	Inch	2 ½	2 ½
Outlet - diameter		Inch	2 ½	2 ½
Inlet - diameter	Desuperheater	Inch	1 ¼	1 ¼
Outlet - diameter		Inch	1 ¼	1 ¼

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.

* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories

PAW-SYSREMKIT1	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Accessories

PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV5	Shut off valves kit for model 80 - 170





U - 050/060/070/075 CM, CN, CO

Cooling capacity: 49,9 to 75,3 kW
Heating capacity: 53,5 to 80,0 kW

High seasonal efficiency in cooling, maximum SEER 4,54 in this range. ECOi-W Series offers a variety of options to meet your needs.

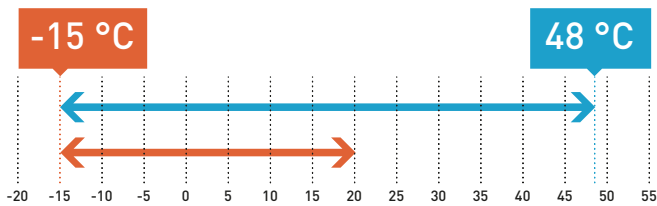


- High seasonal efficiency in cooling and heating
- Ambient temperature operating range: -15 to +48 °C in cooling, -15 to +20 °C in heating
- Water outlet temperature range: -10 to +18 °C in cooling, +20 to +55 °C in heating
- Optional acoustically insulating compressor jacket
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU & TCP/IP, BACnet MSTP & IP as standard
- Electronic expansion valves

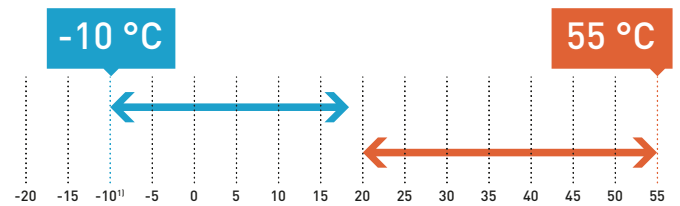
Technical focus

- Chiller type: heat pump
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R32
- Refrigerant circuit: 1
- Fan type (number): axial fan (1 for 50/60, 2 for 70/75), optional EC and high pressure EC fans
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control
- Bluefin anti-corrosion coating

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C (DB)]. Heating: Outside air temperature [°C (WB)].

Available options

Options					
Pump	Pump drive	Hydraulic options	Ambient options	Control options	Electrical options
Single pump low pressure	Fixed speed	Low water pressure sensor ¹⁾	Finned coil treatment - epoxy	Energy meter	EC fan(s) option
Single pump high pressure	Variable twin speed (single pump)	Desuperheater	Finned coil Blygold treatment	Digital input for: Cooling/heating or Night mode or Load Shedding	Soft starter
Double pump low pressure	Variable twin speed (double pump)	Water isolation valves	Outdoor coil protection grid		Refrigerant options
Double pump high pressure	Constant outlet pressure (single pump) ²⁾		Rubber pads (supplied loose)		Refrigerant gauges (HP and LP manometers)
	Constant outlet pressure (double pump) ²⁾		Spring damper (supplied loose)		
			Container transport		
			Acoustically insulating compressor jacket		

1) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site. 2) Available on special quotation, please contact your local sales representative



Optional remote control.
PAW-SYSREMKIT1



Optional Shut off valves kit for model 50 - 75.
PAW-SYSSOV4



REFER TO PAGE 26 TO SEE MORE OPTIONS FOR R32 OUTDOOR UNITS

Model			50	60	70	75
AC fan model w/o buffer / w buffer			U-050CMNB/U-050CMBM	U-060CMNB/U-060CMBM	U-070CMNB/U-070CMBM	U-075CMNB/U-075CMBM
EC fan model w/o buffer / w buffer			U-050CNBB/U-050CNBM	U-060CNBB/U-060CNBM	U-070CNBB/U-070CNBM	U-075CNBB/U-075CNBM
High pressure EC fan model w/o buffer / w buffer			U-050CONB/U-050COBM	U-060CONB/U-060COBM	U-070CONB/U-070COBM	U-075CONB/U-075COBM
Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Cooling capacity ¹⁾		kW	49,9	60,4	70,0	75,3
Input power ¹⁾		kW	17,0	19,8	22,3	25,7
Total EER 100 % ¹⁾			2,94	3,05	3,15	2,93
SEER ²⁾³⁾			4,36	4,32	4,54	4,47
$\eta_{s,c}$ ²⁾³⁾		%	171	170	178	176
Heating capacity ⁴⁾		kW	53,5	61,5	71,7	80,0
Input power ⁴⁾		kW	17,3	19,5	22,2	24,7
SCOP ³⁾⁵⁾			3,63	3,52	3,55	3,57
$\eta_{s,c}$ ³⁾⁵⁾		%	142	138	139	140
Energy efficiency class [Scale A+++ to D] ⁶⁾			A+	A+	A+	-
Startup type			Direct	Direct	Direct	Direct
Maximum operating current		A	43,3	52,7	60,0	69,4
Startup current w/o softstarter / w softstarter		A	161/119	162/120	200/148	209/157
Sound power (w AC / EC fans)		dB(A)	83,2	83,8	81,3	81,3
Sound pressure (w AC / EC fans) ⁷⁾		dB(A)	51,4	52,0	49,5	49,5
Sound power (w HP EC fans)		dB(A)	87,2	87,3	89,2	89,3
Sound pressure (w HP EC fans) ⁷⁾		dB(A)	55,4	55,5	57,4	57,5
Dimension (w AC fans) w/o buffer	HxWxD	mm	1986x2180x1160	1986x2180x1160	1986x2180x1160	1986x2180x1160
Dimension (w AC fans) w buffer	HxWxD	mm	1986x2680x1160	1986x2680x1160	1986x2680x1160	1986x2680x1160
Dimension (w EC / HP EC fans) w/o buffer	HxWxD	mm	2034x2180x1160	2034x2180x1160	2034x2180x1160	2034x2180x1160
Dimension (w EC / HP EC fans) w buffer	HxWxD	mm	2034x2680x1160	2034x2680x1160	2034x2680x1160	2034x2680x1160
Operating weight w/o buffer		kg	527	547	621	637
Operating weight w buffer		kg	1018	1038	1114	1130
Refrigerant (R32)		kg	7,9	8,1	10,3	10,6
Number of refrigerant circuit			1	1	1	1
Compressors						
Number			2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll
Part load step		%	0/47/53/100	0/41/59/100	0/40/60/100	0/46/54/100
Crankcase heater		W	70/70	70/66	70/66	66/66
Evaporator						
Number			1	1	1	1
Type			Plate	Plate	Plate	Plate
Nominal water flow	Cool / Heat	m ³ /h	8,7/9,3	10,6/10,7	12,2/12,5	13,2/13,9
Water pressure drop	Cool / Heat	kPa	31,8/36,4	46,8/48,1	33,1/34,4	38,2/42,8
Water volume		l	4,1	4,1	6,1	6,1
Antifreeze heater		W	30	30	2x30	2x30
Coils						
Number			1	1	2	2
Frontal surface		m ²	4,2	4,2	5,6	5,6
Number of rows			2	2	2	2
Fans standard						
Number			1	1	2	2
Air flow		m ³ /h	21200/21200	21200/21200	30000/30000	30000/30000
Rotation speed	AC / EC	r.p.m.	870/780	870/780	690/620	690/620
Power input (each fan)		W	2,1/1,1	2,1/1,1	1,0/0,6	1,0/0,6
Air flow		m ³ /h	21200	21200	30000	30000
Rotation speed	HP EC	r.p.m.	940	940	940	940
Power input (each fan)		W	1,6	1,6	1,9	1,9
Static pressure		Pa	85	85	180	180
Water connections						
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - Outlet - diameter	Evaporator	Inch	2 - 2	2 - 2	2 - 2	2 - 2
Inlet - Outlet - diameter	Desuperheater	Inch	1 1/4 - 1 1/4	1 1/4 - 1 1/4	1 1/4 - 1 1/4	1 1/4 - 1 1/4

1) Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45°C leaving warm water temperature and 7°C ambient coil air temperature with 87% R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Following Eurovent and COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D, as of 26th September 2019. 7) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.

* w: with, w/o: without.

Accessories

PAW-SYSREMKIT1	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable gland for mobile (2/4G) antenna (3 m)

Accessories

PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV4	Shut off valves kit for model 50 - 75





U - 085/100/115/130 CM, CN, CO

Cooling capacity: 84,2 to 135,0 kW
Heating capacity: 86,2 to 137,0 kW

Customizable design gives high flexibility. Wide range of communication protocols fulfill the requirements in hotels, offices, industry applications.

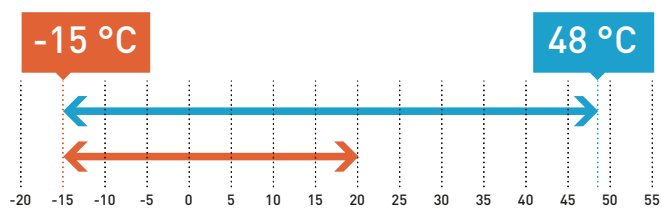


- High seasonal efficiency in cooling and heating
- Ambient temperature operating range: -15 to +48 °C in cooling, -15 to +20 °C in heating
- Water outlet temperature range: -10 to +18 °C in cooling, +20 to +55 °C in heating
- Optional acoustically insulating compressor jacket
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU & TCP/IP, BACnet MSTP & IP as standard
- Electronic expansion valves

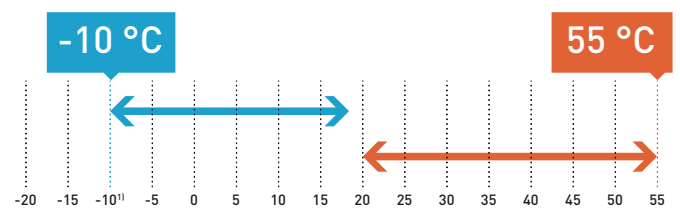
Technical focus

- Chiller type: heat pump
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R32
- Refrigerant circuit: 1
- Fan type (number): axial fan (2), optional EC and high pressure EC fans
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control
- Bluefin anti-corrosion coating

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C (DB)]. Heating: Outside air temperature [°C (WB)].

Available options

Options					
Pump	Pump drive	Hydraulic options	Ambient options	Control options	Electrical options
Single pump low pressure	Fixed speed	Low water pressure sensor ¹⁾	Finned coil treatment - epoxy	Energy meter	EC fan(s) option
Single pump high pressure	Variable twin speed (single pump)	Desuperheater	Finned coil Blygold treatment	Digital input for: Cooling/heating or Night mode or Load Shedding	Soft starter
Double pump low pressure	Variable twin speed (double pump)	Water isolation valves	Outdoor coil protection grid		Refrigerant options
Double pump high pressure	Constant outlet pressure (single pump) ²⁾		Rubber pads (supplied loose)		Refrigerant gauges (HP and LP manometers)
	Constant outlet pressure (double pump) ²⁾		Spring damper (supplied loose)		
			Container transport		
			Acoustically insulating compressor jacket		

1) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site. 2) Available on special quotation, please contact your local sales representative



Optional remote control.
PAW-SYSREMKIT1



Optional Shut off valves
kit for model 85 - 170.
PAW-SYSSOV5



REFER TO PAGE 26 TO SEE MORE OPTIONS
FOR R32 OUTDOOR UNITS

Model			85	100	115	130
AC fan model w/o buffer / w buffer			U-085CMNB/U-085CMBL	U-100CMNB/U-100CMBL	U-115CMNB/U-115CMBL	U-130CMNB/U-130CMBL
EC fan model w/o buffer / w buffer			U-085CNB/U-085CNBL	U-100CNB/U-100CNBL	U-115CNB/U-115CNBL	U-130CNB/U-130CNBL
High pressure EC fan model w/o buffer / w buffer			U-085CONB/U-085COBL	U-100CONB/U-100COBL	U-115CONB/U-115COBL	U-130CONB/U-130COBL
Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Cooling capacity ¹⁾		kW	84,2	102,0	121,0	135,0
Input power ¹⁾		kW	29,1	34,1	37,7	42,4
Total EER 100 % ¹⁾			2,89	3,00	3,20	3,18
SEER ^{2) 3)}			4,48	4,35	4,34	4,33
$\eta_{s,c}$ ^{2) 3)}		%	176	171	171	170
Heating capacity ⁴⁾		kW	86,2	105,0	123,0	137,0
Input power ⁴⁾		kW	28,5	33,3	36,9	40,6
SCOP ^{3) 5)}			3,57	3,63	3,60	3,73
$\eta_{s,c}$ ^{3) 5)}		%	140	142	141	146
Startup type			Direct	Direct	Direct	Direct
Maximum operating current		A	75,0	86,6	93,8	104,2
Startup current w/o softstarter / w softstarter		A	215/129	326/240	333/247	343/257
Sound power (w AC / EC fans)		dB(A)	84,4	86,0	87,0	87,4
Sound pressure (w AC / EC fans) ⁶⁾		dB(A)	52,5	54,1	55,1	55,5
Sound power (w HP EC fans)		dB(A)	89,3	89,7	90,0	90,2
Sound pressure (w HP EC fans) ⁶⁾		dB(A)	57,4	57,8	58,1	58,3
Dimension (w AC fans) w/o buffer	HxWxD	mm	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160
Dimension (w AC fans) w buffer	HxWxD	mm	2286x2680x1160	2286x2680x1160	2286x2680x1160	2286x2680x1160
Dimension (w EC / HP EC fans) w/o buffer	HxWxD	mm	2334x2180x1160	2334x2180x1160	2334x2180x1160	2334x2180x1160
Dimension (w EC / HP EC fans) w buffer	HxWxD	mm	2334x2680x1160	2334x2680x1160	2334x2680x1160	2334x2680x1160
Operating weight w/o buffer		kg	701	731	813	815
Operating weight w buffer		kg	1202	1232	1317	1319
Refrigerant (R32)		kg	13,9	13,5	17,2	18,5
Number of refrigerant circuit			1	1	1	1
Compressors						
Number			2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/34/66/100	0/44/56/100	0/50/100
Crankcase heater		W	66/66	66/66	66/66	66/66
Evaporator						
Number			1	1	1	1
Type			Plate	Plate	Plate	Plate
Nominal water flow	Cool / Heat	m ³ /h	14,2/14,7	17,1/18,0	19,9/20,9	22,0/22,3
Water pressure drop	Cool / Heat	kPa	21,3/22,5	30,5/33,8	41,4/45,9	50,7/52,3
Water volume		l	7,8	7,8	7,8	7,8
Antifreeze heater		W	2x30	2x30	2x30	2x30
Coils						
Number			2	2	2	2
Frontal surface		m ²	6,4	6,4	6,4	6,4
Number of rows			2	2	3	3
Fans standard						
Number			2	2	2	2
Air flow		m ³ /h	41300/41300	41300/41300	41300/41300	41300/41300
Rotation speed	AC / EC	r.p.m.	870/780	870/780	870/780	870/780
Power input (each fan)		W	2,1/0,8	2,1/0,8	1,6/1,0	1,6/1,0
Air flow		m ³ /h	41300	41300	41300	41300
Rotation speed	HP EC	r.p.m.	940	940	940	940
Power input (each fan)		W	1,6	1,6	1,6	1,6
Static pressure		Pa	85	85	85	85
Water connections						
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - Outlet - diameter	Evaporator	Inch	2 ½ - 2 ½	2 ½ - 2 ½	2 ½ - 2 ½	2 ½ - 2 ½
Inlet - Outlet - diameter	Desuperheater	Inch	1 ¼ - 1 ¼	1 ¼ - 1 ¼	1 ¼ - 1 ¼	1 ¼ - 1 ¼

1) Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45°C leaving warm water temperature and 7°C ambient coil air temperature with 87% R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * w: with, w/o: without.

Accessories

PAW-SYSREMKIT1	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glante for mobile (2/4G) antenna (3 m)

Accessories

PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV5	Shut off valves kit for model 85 - 170





U - 150/170 CM, CN, CO

Cooling capacity: 156,0 to 176,0 kW

Heating capacity: 158,0 to 182,0 kW

Heat pump chiller series with powerful operation by 2 scroll compressors. Maximum water outlet temperature in heating is up to 53 °C. Defrost limiting design ensures to provide stable hot water even at low ambient conditions.

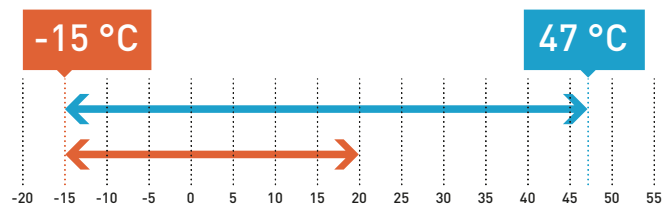


- High seasonal efficiency in cooling and heating
- Ambient temperature operating range: -15 to +47 °C in cooling, -15 to +20 °C in heating
- Water outlet temperature range: -10 to +18 °C in cooling, +20 to +53 °C in heating
- Optional acoustically insulating compressor jacket
- Victaulic water connections
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU & TCP/IP, BACnet MSTP & IP as standard
- Electronic expansion valves

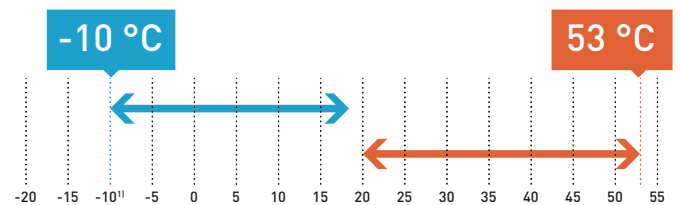
Technical focus

- Chiller type: heat pump
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R32
- Refrigerant circuit: 1
- Fan type (number): axial fan (3), optional AC, EC and high pressure EC fans
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control
- Bluefin anti-corrosion coating
- Remote LAN connection as standard

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature (°C [DB]). Heating: Outside air temperature (°C [WB]).

Available options

Options					
Pump	Pump drive	Hydraulic options	Ambient options	Control options	Electrical options
Single pump low pressure	Fixed speed	Low water pressure sensor ¹⁾	Finned coil treatment - epoxy	Energy meter	EC fan(s) option
Single pump high pressure	Variable twin speed (single pump)	Desuperheater	Finned coil Blygold treatment	Digital input for: Cooling/heating or Night mode or Load Shedding	Power factor correction capacitors
Double pump low pressure	Variable twin speed (double pump)	Water isolation valves	Outdoor coil protection grid		Soft starter
Double pump high pressure	Constant outlet pressure (single pump) ²⁾		Rubber pads (supplied loose)		
	Constant outlet pressure (double pump) ²⁾		Spring damper (supplied loose)		
			Container transport		
			Acoustically insulating compressor jacket		
					Refrigerant options
					Refrigerant gauges (HP and LP manometers)

1) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site. 2) Available on special quotation, please contact your local sales representative



Optional remote control.
PAW-SYSREMKIT1



Optional Shut off valves kit for model 85 - 170.
PAW-SYSSOV5



REFER TO PAGE 26 TO SEE MORE OPTIONS FOR R32 OUTDOOR UNITS

Model			150	170
AC fan model w/o buffer / w buffer			U-150CMNB/U-150CMBL	U-170CMNB/U-170CMBL
EC fan model w/o buffer / w buffer			U-150CNNB/U-150CNBL	U-170CNNB/U-170CNBL
High pressure EC fan model w/o buffer / w buffer			U-150CONB/U-150COBL	U-170CONB/U-170COBL
Power supply	Voltage	V	400	400
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Cooling capacity ¹⁾		kW	156,0	176,0
Input power ¹⁾		kW	47,9	55,5
Total EER 100 % ¹⁾			3,26	3,17
SEER ^{2) 3)}			4,61	4,62
$\eta_{s,c}$ ^{2) 3)}		%	181	182
Heating capacity ⁴⁾		kW	158,0	182,0
Input power ⁴⁾		kW	47,7	54,0
SCOP ^{3) 5)}			3,65	3,60
$\eta_{s,c}$ ^{3) 5)}		%	143	141
Startup type			Direct	Direct
Maximum operating current		A	125	142
Startup current w/o softstarter / w softstarter		A	363/277	380/294
Sound power (w AC / EC fans)		dB(A)	88,9	91,1
Sound pressure (w AC / EC fans) ⁶⁾		dB(A)	57,0	59,2
Sound power (w HP EC fans)		dB(A)	91,6	92,3
Sound pressure (w HP EC fans) ⁶⁾		dB(A)	59,7	60,4
Dimension (w AC fans) w/o buffer	H x W x D	mm	2285 x 3789 x 1151	2285 x 3789 x 1151
Dimension (w AC fans) w buffer	H x W x D	mm	2285 x 3789 x 1151	2285 x 3789 x 1151
Dimension (w EC / HP EC fans) w/o buffer	H x W x D	mm	2333 x 3789 x 1151	2333 x 3789 x 1151
Dimension (w EC / HP EC fans) w buffer	H x W x D	mm	2333 x 3789 x 1151	2333 x 3789 x 1151
Operating weight w/o buffer		kg	1265	1279
Operating weight w buffer		kg	1683	1697
Refrigerant (R32)		kg	19,2	20,0
Number of refrigerant circuit			1	1
Compressors				
Number			2	2
Type			Scroll	Scroll
Part load step		%	0/45/55/100	0/38/62/100
Crankcase heater		W	66/105	66/105
Evaporator				
Number			1	1
Type			Plate	Plate
Nominal water flow	Cool / Heat	m ³ /h	26,2/26,8	29,2/31,3
Water pressure drop	Cool / Heat	kPa	36,2/37,8	44,8/51,5
Water volume		l	11,5	12,9
Antifreeze heater		W	130	130
Coils				
Number			2,00	2,00
Frontal surface		m ²	8,7	8,7
Number of rows			3	3
Fans standard				
Number			3	3
Air flow		m ³ /h	56200/56200	56200/56200
Rotation speed	AC / EC	r.p.m.	870/780	870/780
Power input (each fan)		W	1,4/0,8	1,4/0,8
Air flow		m ³ /h	56200	56200
Rotation speed	HP EC	r.p.m.	940	940
Power input (each fan)		W	1,7	1,7
Static pressure		Pa	110	110
Water connections				
Type			Male gas threaded BSPP ISO 229	Male gas threaded BSPP ISO 230
Inlet - Outlet - diameter	Evaporator	Inch	2 ½ - 2 ½	2 ½ - 2 ½
Inlet - Outlet - diameter	Desuperheater	Inch	1 ¼ - 1 ¼	1 ¼ - 1 ¼

1) Data refers to 7°C leaving chilled water temperature and 35°C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45°C leaving warm water temperature and 7°C ambient coil air temperature with 87% R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * w: with, w/o: without.

Accessories	
PAW-SYSREMKIT1	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glante for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV5	Shut off valves kit for model 85 - 170



Options for outdoor units

Options table 50 - 85

Option	Type	Ref.	Description	Model				
				50	60	70	75	85
1	Capacity							
2	Refrigerant, fan and compressor type	Q	R32, AC fan, fixed speed compressor - Cooling Only	*	*	*	*	*
		R	R32, EC fan, fixed speed compressor - Cooling Only	*	*	*	*	*
		S	R32, high pressure EC fan, fixed speed compressor - Cooling Only	*	*	*	*	*
		M	R32, AC fan, fixed speed compressor - Heat Pump	*	*	*	*	*
		N	R32, EC fan, fixed speed compressor - Heat Pump	*	*	*	*	*
		O	R32, high pressure EC fan, fixed speed compressor - Heat Pump	*	*	*	*	*
3	Buffer tank option	NB	No buffer	Std	Std	Std	Std	Std
		BM	Buffer tank (medium)	*	*	*	*	*
		BL	Buffer tank (large)					*
4	Pump option		No pump	Std	Std	Std	Std	Std
			Single pump low pressure	*	*	*	*	*
			Single pump high pressure	*	*	*	*	*
			Double pump low pressure	*	*	*	*	*
			Double pump high pressure	*	*	*	*	*
5	Pump drive option		Pump drive - fixed speed	Std	Std	Std	Std	Std
			Pump drive - variable twin speed (single pump)	*	*	*	*	*
			Pump drive - variable twin speed (double pump)	*	*	*	*	*
			Pump drive - constant outlet pressure (single pump)	*	*	*	*	*
			Pump drive - constant outlet pressure (double pump)	*	*	*	*	*
6	Hydraulic options		Flow switch	Std	Std	Std	Std	Std
			Low water pressure sensor ¹⁾	*	*	*	*	*
			Desuperheater	*	*	*	*	*
			Water isolation valves	*	*	*	*	*
7	Control options		Standard BMS option (Modbus RTU)	Std	Std	Std	Std	Std
			Modbus TCP/IP	*	*	*	*	*
			BACnet MSTP	*	*	*	*	*
			BACnet IP	*	*	*	*	*
			Digital input for: Cooling/heating or Night mode or Load Shedding	Std	Std	Std	Std	Std
			Energy meter	*	*	*	*	*
8	Electrical options		Automatic circuit breaker	Std	Std	Std	Std	Std
			Phase sequence control	Std	Std	Std	Std	Std
			Fan speed controller	*	*	*	*	*
			Power supply w neutral ²⁾	S0	S0	S0	S0	S0
			Electrical backup heater 12 kW - Heat Pump ³⁾	*	*	*	*	*
			Electrical backup heater 24 kW - Heat Pump ³⁾	*	*	*	*	*
			Electrical backup heater 36 kW - Heat Pump ³⁾	*	*	*	*	*
			Soft starter	*	*	*	*	*
9	Refrigerant options		Electronic expansion valves	Std	Std	Std	Std	Std
			Refrigerant gauges (HP and LP manometers)	*	*	*	*	*
10	Ambient options		Aluminium finned coil - Cooling Only	Std	Std	Std	Std	Std
			Bluefin coil treatment - Heat Pump	Std	Std	Std	Std	Std
			Finned coil treatment - epoxy	*	*	*	*	*
			Finned coil Blygold treatment	S0	S0	S0	S0	S0
			Outdoor coil protection grid	*	*	*	*	*
			Rubber pads (supplied loose)	*	*	*	*	*
			Spring damper (supplied loose)	*	*	*	*	*
			Container transport	*	*	*	*	*
			Acoustically insulating compressor jacket	*	*	*	*	*

1) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site.

2) Systems are supplied without neutral terminal as standard, please contact local sales representative.

3) Electrical backup heaters can only be selected when combined with buffer tank option.

Std: Standard item included.

*: Optional item that can be selected.

S0: Special order item.

Options table 100 - 170

Option	Type	Ref.	Description	Model				
				100	115	130	150	170
1	Capacity							
2	Refrigerant, fan and compressor type	Q	R32, AC fan, fixed speed compressor - Cooling Only	•	•	•	•	•
		R	R32, EC fan, fixed speed compressor - Cooling Only	•	•	•	•	•
		S	R32, high pressure EC fan, fixed speed compressor - Cooling Only	•	•	•	•	•
		M	R32, AC fan, fixed speed compressor - Heat Pump	•	•	•	•	•
		N	R32, EC fan, fixed speed compressor - Heat Pump	•	•	•	•	•
		O	R32, high pressure EC fan, fixed speed compressor - Heat Pump	•	•	•	•	•
3	Buffer tank option	NB	No buffer	Std	Std	Std	Std	Std
		BL	Buffer tank (large)	•	•	•	•	•
4	Pump option		No pump ¹⁾	Std	Std	Std	Std	Std
			Single pump low pressure	•	•	•	•	•
			Single pump high pressure	•	•	•	•	•
			Double pump low pressure	•	•	•	•	•
			Double pump high pressure	•	•	•	•	•
			Pump drive - fixed speed ²⁾	Std	Std	Std	Std	Std
5	Pump drive option		Pump drive - variable twin speed (single pump)	•	•	•	•	•
			Pump drive - variable twin speed (double pump)	•	•	•	•	•
			Pump drive - constant outlet pressure (single pump)	•	•	•	•	•
			Pump drive - constant outlet pressure (double pump)	•	•	•	•	•
6	Hydraulic options		Flow switch	Std	Std	Std	Std	Std
			Low water pressure sensor ¹⁾	•	•	•	•	•
			Desuperheater	•	•	•	•	•
			Water isolation valves	•	•	•	•	•
7	Control options		Standard BMS option (Modbus RTU)	Std	Std	Std	Std	Std
			Modbus TCP/IP	•	•	•	•	•
			BACnet MSTP	•	•	•	•	•
			BACnet IP	•	•	•	•	•
			Digital input for: Cooling/heating or Night mode or Load Shedding	Std	Std	Std	Std	Std
			Energy meter	•	•	•	•	•
8	Electrical options		Automatic circuit breaker	Std	Std	Std	Std	Std
			Phase sequence control	Std	Std	Std	Std	Std
			Power supply w neutral ²⁾	S0	S0	S0		
			Power factor correction capacitors				•	•
			Electrical backup heater 24 kW - Heat Pump ³⁾	•	•	•		
			Electrical backup heater 36 kW - Heat Pump ³⁾	•	•	•		
9	Refrigerant options		Soft starter	•	•	•	•	•
			Electronic expansion valves	Std	Std	Std	Std	Std
10	Ambient options		Refrigerant gauges (HP and LP manometers)	•	•	•	•	•
			Aluminium finned coil - Cooling Only	Std	Std	Std	Std	Std
			Bluefin coil treatment - Heat Pump	Std	Std	Std	Std	Std
			Finned coil treatment - epoxy	•	•	•	•	•
			Finned coil Blygold treatment	S0	S0	S0	S0	S0
			Outdoor coil protection grid	•	•	•	•	•
			Rubber pads (supplied loose)	•	•	•	•	•
			Spring damper (supplied loose)	•	•	•	•	•
	Container transport	•	•	•	•	•		
	Acoustically insulating compressor jacket	•	•	•	•	•		

1) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site.

2) Systems are supplied without neutral terminal as standard, please contact local sales representative.

3) Electrical backup heaters can only be selected when combined with buffer tank option.

Std: Standard item included.

•: Optional item that can be selected.

S0: Special order item.

EC0i-W R410A, the solution for hotels, offices and industry

EC0i-W provides the optimal performance in any climate.



1 High energy saving and comfort

- High SEER / SCOP
- Quiet operation
- Integration with ECOi VRF systems via BMS control
- Centralized remote management system

2 High flexibility

- Capacity range from 20 to 210 kW
- Customisable design
- Operating range: -17 °C (heating) to 50 °C (cooling)
- Wide range of hydraulic options
- Wide range of communication protocols

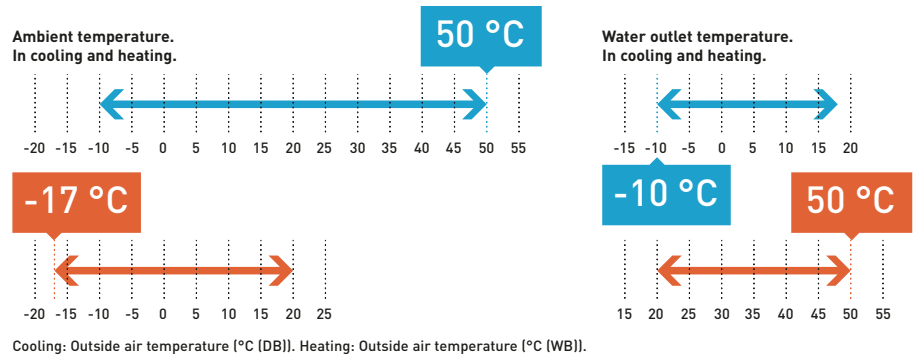
3 High quality

- Defrost limiting coil design (140 to 210 kW)
- Optimised design for service and maintenance
- Compact footprint

Operating conditions

Panasonic ECOi-W provides a wide operating range from -17 °C in heating to 50 °C in cooling.

Water outlet temperature in cooling.
A water outlet temperature of -10 °C in cooling offers a uniqueness to the ECOi-W Series, which can ensure the operation temperature of the process equipment in factories.



ECOi-W line-up

ECOi-W size		20	25	30	35	40	45	55	65	75	90	105	125	140	150	170	190	210
Cooling only range	Cooling capacities (kW)	19,2	24,3	27,1	36,7	39,0	45,3	52,0	66,1	73,1	90,7	104,0	123,0	132,0	146,0	164,0	181,0	208,0
	SEER	4,78	4,38	4,43	4,43	4,48	4,40	4,53	4,53	4,68	4,45	4,50	4,55	4,40	4,45	4,38	4,40	4,25
Heat pump range	Cooling capacities (kW)	18,7	23,7	26,4	35,8	38,1	44,3	50,9	64,1	71,0	88,7	100,8	119,3	128,3	142,1	163,9	177,5	207,9
	Heating capacities (kW)	19,5	26,9	29,7	37,3	41,6	48,5	58,2	67,2	75,9	88,1	101,0	119,1	144,0	154,0	170,0	195,0	218,0
	SEER ¹⁾	4,68	4,31	4,28	4,25	4,33	4,20	4,41	4,51	4,63	4,40	4,44	4,49	4,39	4,36	4,31	4,23	4,28
	SCOP ¹⁾	3,50	3,38	3,45	3,50	3,50	3,38	3,38	3,55	3,53	3,40	3,43	3,43	3,30	3,33	3,30	3,28	3,23
	Energy efficiency class (heating) ^{1) 2)}	A+	A+	A+	A+	A+	A+	A+	A+	-	-	-	-	-	-	-	-	-
Dimension (HxWxD)																		
		1983x1000x1000	1983x1000x1000	1986x2180x1160	1986x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	2286x2180x1160	

1) Those are the data with variable flow. 2) Following Eurovent and COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D, as of 26th September 2019.

Panasonic Certified Quality

Panasonic does not compromise on product quality, safety or durability, providing the ultimate comfort when you need it most.



Class A pump

Units can be equipped with an efficient pump. A wide range of single and double pump, plus pump drive option is available.

Axial AC

The microprocessor control automatically adjusts the fan speed as a function of the operating conditions.

BP heat exchanger

Very compact & long durability Braze Plate Heat Exchanger. Unique design for the size 140 - 210 improving frost protection and efficiency.



Model type supplied may vary.

Energy recovery

The "Desuperheater" option consists of a stainless-steel brazed plate heat exchanger which is mounted in series between the compressors and the air-cooled condenser. It can supply hot water up to 50°C free-of-charge while operating in the cooling mode, thanks to the partial recovery of condensation heat that would otherwise be rejected to the external heat source. The unit's efficiency is increased as condensing pressure can be reduced due to air cooled condenser becoming oversized.

* Optional. Available in 45-125.

Simple user friendly control

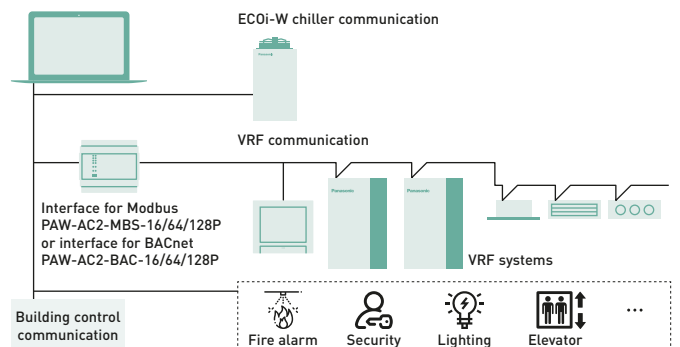
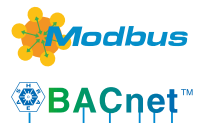
In addition to basic control functions...

- Intelligent logic control for inlet water temperature
- Night setback operation to reduce electrical consumption and noise
- Automatic test operation at the push of a button



BMS integration

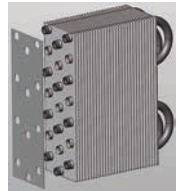
Modbus RTU as standard. Modbus TCP/IP, BACnet IP and BACnet MSTP as optional availability. Integrated systems with ECOi-W Chiller, VRF and BMS control can be offered.





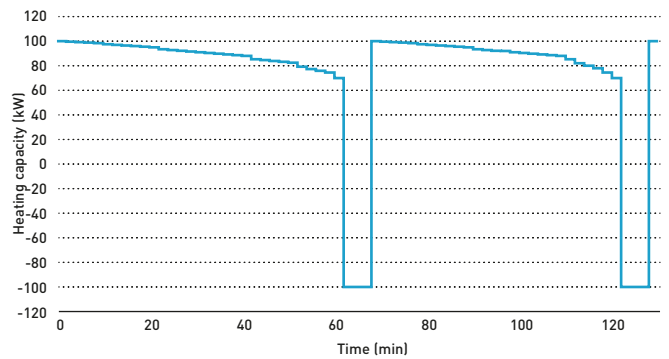
Defrost limiting coil design

- Fin space increased to prevent the coil freezing
- Number of rows increased to maintain the same capacity in standard conditions
- Designed to decrease freezing frequency as soon as outdoor air temperature goes below 7 °C

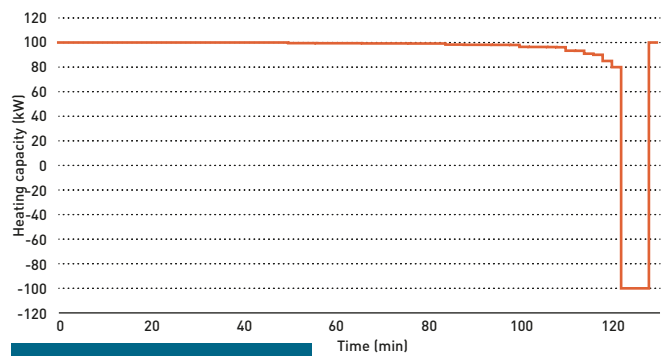


* Available in heat pump range size 140-210.

Standard coil: 2 defrost cycles every 130 min.



Special coil design: 1 defrost cycle every 130 min.



**+22 % MORE HEATING
+15 % HIGHER COP
SCOP IMPROVED**

Victaulic grooved connection

Victaulic Installation-Ready™ couplings assure proper piping installation. Optimised design to reduce installation effects, including noise and vibration attenuation.



Model type supplied may vary.

* Available in 140-210.
** Threaded Victaulic connection kit (PAW-SYSVICTH) is optional.

Bluefin for more durability

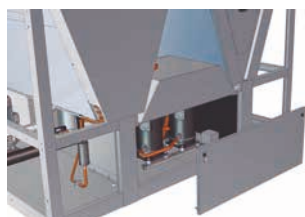
Bluefin hydrophillic coating improves defrost performance and reduces damage for a longer life time.



* Available in heat pump range.

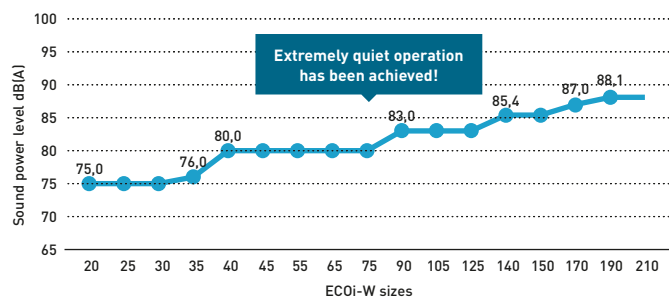
Low noise

ECOi-W series is equipped with the compressor phonic insulation box as a standard.



* Standard in 20-40, 140-210. Optional in 45-125.

ECOi-W quiet operation in full range.



* Performance with standard fans. In the range 45-125, noise performance without low noise option.

Range of ECOi-W R410A outdoor units

Page	Outdoor units	20 kW	25 kW	30 kW	35 kW	40 kW	45 kW	55 kW	65 kW	75 kW
	ECOi-W 20 to 40									
P. 34	Cooling only	U-020CVNB U-020CVBS	U-025CVNB U-025CVBS	U-030CVNB U-030CVBS	U-035CVNB U-035CVBS	U-040CVNB U-040CVBS				
P. 42	Heat pump	U-020CWNB U-020CWBS	U-025CWNB U-025CWBS	U-030CWNB U-030CWBS	U-035CWNB U-035CWBS	U-040CWNB U-040CWBS				
	ECOi-W 45 to 75									
P. 36	Cooling only						U-045CVNB U-045CVBM	U-055CVNB U-055CVBM	U-065CVNB U-065CVBM	U-075CVNB U-075CVBM
P. 44	Heat pump						U-045CWNB U-045CWBM	U-055CWNB U-055CWBM	U-065CWNB U-065CWBM	U-075CWNB U-075CWBM
	ECOi-W 90 to 125									
P. 38	Cooling only									
P. 46	Heat pump									
	ECOi-W 140 to 210									
P. 40	Cooling only									
P. 48	Heat pump									

90 kW

105 kW

125 kW

140 kW

150 kW

170 kW

190 kW

210 kW



U-090CVNB
U-090CVBM

U-105CVNB
U-105CVBM

U-125CVNB
U-125CVBM

U-090CWNB
U-090CWBM

U-105CWNB
U-105CWBM

U-125CWNB
U-125CWBM



U-140CVNB
U-140CVBL

U-150CVNB
U-150CVBL

U-170CVNB
U-170CVBL

U-190CVNB
U-190CVBL

U-210CVNB
U-210CVBL

U-140CWNB
U-140CWBL

U-150CWNB
U-150CWBL

U-170CWNB
U-170CWBL

U-190CWNB
U-190CWBL

U-210CWNB
U-210CWBL



U - 020/025/030/035/040 CV

Cooling capacity: 19,2 to 39,0 kW

Compact and highly efficient chiller series, with SEER up to 4,78.

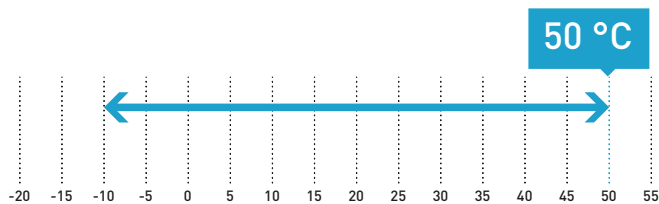


- High seasonal efficiency
- Ambient temperature operating range: -10 to +50 °C
- Water outlet temperature range: -10 to +18 °C
- Super quiet operation
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU as standard

Technical focus

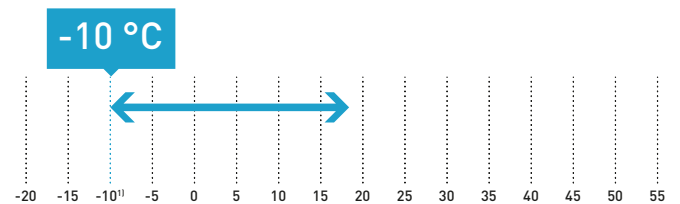
- Chiller type: cooling only
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R410A
- Refrigerant circuit: 1
- Fan type (number): axial fan (1)
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control

Ambient temperature.



Cooling: Outside air temperature [°C (DB)].

Water outlet temperature.



Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump (as standard)	Fixed speed ¹⁾	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
	Variable twin speed	Water isolation valves	Rubber pads	Power supply w/o neutral
	Constant outlet pressure		Spring damper	Modbus TCP/IP
	Constant differential pressure		All seasons	BACnet MSTP
			High pressure fan ²⁾	BACnet IP

1) Available for non-EU installation. 2) Available on models 25 - 40.



REFER TO PAGE 50 TO SEE MORE OPTIONS FOR R410A OUTDOOR UNITS

Optional remote control.
PAW-SYSREMKITOptional Shut off valves kit for model 45 - 75.
PAW-SYSSOV2

Model			20	25	30	35	40
Standard without buffer tank			U-020CVNB	U-025CVNB	U-030CVNB	U-035CVNB	U-040CVNB
With buffer tank			U-020CVBS	U-025CVBS	U-030CVBS	U-035CVBS	U-040CVBS
Power supply	Voltage	V	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50
Cooling capacity ¹⁾		kW	19,2	24,3	27,1	36,7	39,0
Input power ¹⁾		kW	5,9	7,7	9,3	12,2	13,0
Total EER 100 % ¹⁾			3,25	3,17	2,90	3,01	3,00
SEER ²⁾			4,78	4,38	4,43	4,43	4,48
$\eta_{s,c}$ ²⁾		%	188	172	174	174	176
Startup type			Direct	Direct	Direct	Direct	Direct
Maximum operating current		A	17,7	22,2	24,3	31,8	33,8
Startup current w/o softstarter / w softstarter		A	53/28	64/35	77/49	118/53	119/54
Sound power (w standard fans)		dB(A)	75,0	75,0	75,0	76,0	76,0
Sound pressure (w standard fans) ³⁾		dB(A)	42,8	42,8	42,8	43,8	43,8
Dimension (w standard fans) w/o buffer tank	H x W x D	mm	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000
Dimension (w standard fans) w buffer tank	H x W x D	mm	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507
Weight (w 1 pump) w/o buffer tank		kg	265	275	305	315	320
Weight (w 1 pump) w buffer tank		kg	330	340	370	380	385
Refrigerant (R410A)		kg	6,5	8,4	8,4	9,1	9,2
Number of refrigerant circuit			1	1	1	1	1
Compressors							
Number			2	2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/50/100	0/50/100	0/50/100	0/50/100
Crankcase heater		W	2 x 40	2 x 40	2 x 49	2 x 49	2 x 49
Evaporator							
Number			1	1	1	1	1
Type			Plate	Plate	Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	3,35	4,36	4,64	6,16	6,44
Water pressure drop	Cool	kPa	23	37	22	37	40
Water volume		l	1,78	1,78	2,55	2,55	2,55
Antifreeze heater		W	30	30	30	30	30
Coils							
Number			1	1	1	1	1
Frontal surface		m ²	2,4	2,4	2,4	2,8	2,8
Number of rows			2	2	2	2	2
Fans standard							
Number			1	1	1	1	1
Air flow		m ³ /h	9000	13000	13000	16000	16000
Rotation speed		r.p.m.	900	900	900	650	650
Power input (each fan)		W	620	940	940	930	930
Water connections							
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter		Inch	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Outlet - diameter		Inch	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.
* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM0005P041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable gland for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV1	Shut off valves kit for model 20 - 40

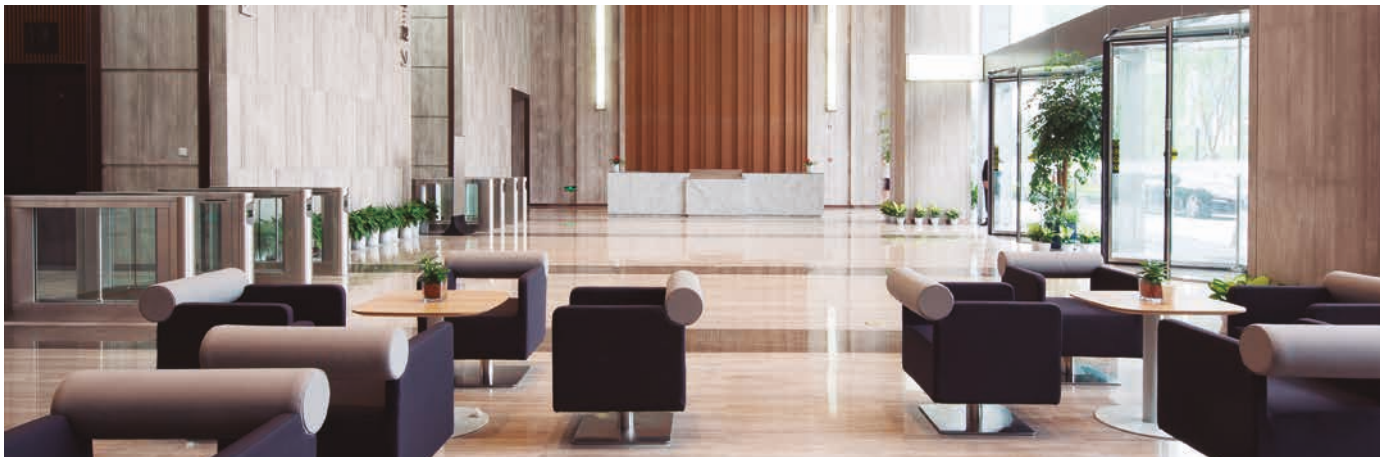




U - 045/055/065/075 CV

Cooling capacity: 45,3 to 73,1 kW

High seasonal efficiency and wide range options to meet the exact requirements of your project.

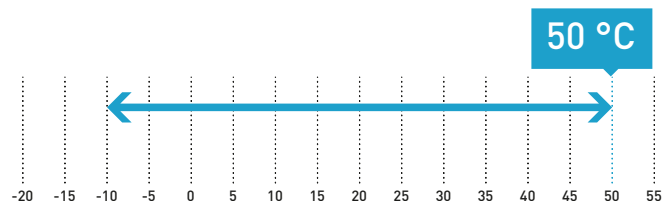


- High seasonal efficiency
- Ambient temperature operating range: -10 to +50 °C
- Water outlet temperature range: -10 to +18 °C
- Optional extra-low noise kit available
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU as standard

Technical focus

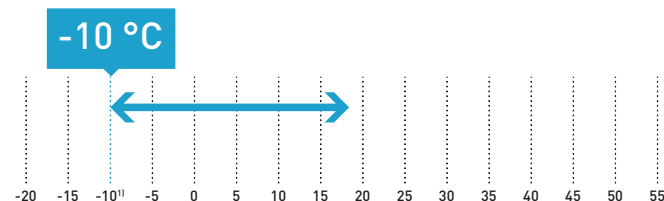
- Chiller type: cooling only
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R410A
- Refrigerant circuit: 1
- Fan type (number): axial fan (1 for 45/55, 2 for 65/75)
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control

Ambient temperature.



Cooling: Outside air temperature [°C (DB)].

Water outlet temperature.



Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump	Fixed speed ¹⁾	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Double pump	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
	Constant outlet pressure		Rubber pads	Modbus TCP/IP
	Constant differential pressure		Spring damper	BACnet MSTP
			All seasons fan control	BACnet IP
			Extra-low noise kit	Container transport
			High pressure fan	Refrigerant gauge
				Desuperheater

1) Available for non-EU installation.



REFER TO PAGE 50 TO SEE MORE OPTIONS FOR R410A OUTDOOR UNITS



Optional remote control.
PAW-SYSREMKIT



Optional Shut off valves kit for model 45 - 75.
PAW-SYSSOV2

Model			45	55	65	75
Standard without buffer tank			U-045CVNB	U-055CVNB	U-065CVNB	U-075CVNB
With buffer tank			U-045CVBM	U-055CVBM	U-065CVBM	U-075CVBM
Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Cooling capacity ¹⁾		kW	45,3	52,0	66,1	73,1
Input power ¹⁾		kW	15,4	17,6	21,7	24,0
Total EER 100 % ¹⁾			2,95	2,96	3,05	3,05
SEER ²⁾			4,40	4,53	4,53	4,68
$\eta_{s,c}$ ²⁾		%	173	178	178	184
Startup type			Direct	Direct	Direct	Direct
Maximum operating current		A	40,2	44,2	58,4	64,4
Startup current w/o softstarter / w softstarter		A	133,2/65,8	140,2/72,8	201,4/101,0	206,4/106,0
Sound power (w standard fans)		dB(A)	80,0	80,0	80,0	80,0
Sound pressure (w standard fans) ³⁾		dB(A)	47,8	47,8	47,8	47,8
Dimension (w standard fans) w/o buffer tank	H x W x D	mm	1986 x 2180 x 1160	1986 x 2180 x 1160	1986 x 2180 x 1160	1986 x 2180 x 1160
Dimension (w standard fans) w buffer tank	H x W x D	mm	1986 x 2680 x 1160	1986 x 2680 x 1160	1986 x 2680 x 1160	1986 x 2680 x 1160
Weight (w 1 pump) w/o buffer tank		kg	515	520	580	590
Weight (w 1 pump) w buffer tank		kg	675	680	740	750
Refrigerant (R410A)		kg	14,5	14,9	18,9	19,0
Number of refrigerant circuit			1	1	1	1
Compressors						
Number			2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/43/57/100	0/40/60/100	0/45/55/100
Crankcase heater		W	2 x 66	2 x 66	2 x 66	2 x 66
Evaporator						
Number			1	1	1	1
Type			Plate	Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	8,06	9,18	11,30	12,31
Water pressure drop	Cool	kPa	30	35	28	37
Water volume		l	4,10	4,10	6,10	6,10
Antifreeze heater		W	30	30	2 x 30	2 x 30
Coils						
Number			1	1	2	2
Frontal surface		m ²	4,20	4,20	5,55	5,55
Number of rows			2	2	2	2
Fans standard						
Number			1	1	2	2
Air flow		m ³ /h	22500	22500	30000	30000
Rotation speed		r.p.m.	790	790	650	650
Power input (each fan)		W	1650	1650	930	930
Water connections						
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter		Inch	2	2	2	2
Outlet - diameter		Inch	2	2	2	2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.
* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K001	Extension kit and cable gland for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV2	Shut off valves kit for model 45 - 75





U - 090/105/125 CV

Cooling capacity: 90,7 to 123,0 kW

Customizable design gives high flexibility. Wide range of communication protocols fulfill the requirements in hotels, offices, industry applications.

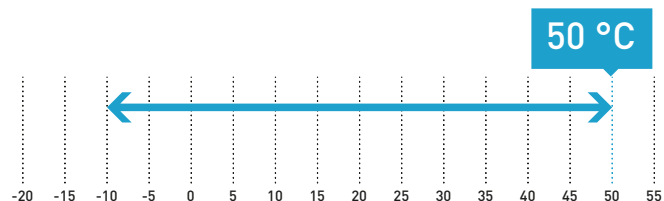


- High seasonal efficiency
- Ambient temperature operating range: -10 to +50 °C
- Water outlet temperature range: -10 to +18 °C
- Optional extra-low noise kit available
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU as standard

Technical focus

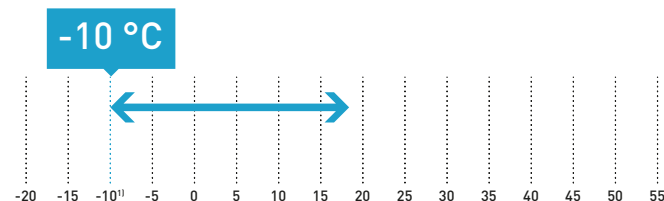
- Chiller type: cooling only
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R410A
- Refrigerant circuit: 1
- Fan type (number): axial fan (2)
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control

Ambient temperature.



Cooling: Outside air temperature [°C (DB)].

Water outlet temperature.



Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump	Fixed speed ¹⁾	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Double pump	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
	Constant outlet pressure		Rubber pads	Modbus TCP/IP
	Constant differential pressure		Spring damper	BACnet MSTP
			Extra-low noise kit	Container transport
			High pressure fan	Refrigerant gauge
				Desuperheater

¹⁾ Available for non-EU installation.



REFER TO PAGE 50 TO SEE MORE OPTIONS FOR R410A OUTDOOR UNITS

Optional remote control.
PAW-SYSREMKITOptional Shut off valves kit for model 90 - 125.
PAW-SYSSOV3

Model			90	105	125
Standard without buffer tank			U-090CVNB	U-105CVNB	U-125CVNB
With buffer tank			U-090CVBM	U-105CVBM	U-125CVBM
Power supply	Voltage	V	400	400	400
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Cooling capacity ¹⁾		kW	90,7	104,0	123,0
Input power ¹⁾		kW	30,6	34,9	40,6
Total EER 100 % ¹⁾			2,96	2,98	3,03
SEER ²⁾			4,45	4,50	4,55
$\eta_{s,c}$ ²⁾		%	175	177	179
Startup type			Direct	Direct	Direct
Maximum operating current		A	77,9	86,0	102,0
Startup current w/o softstarter / w softstarter		A	264,9/127,3	312,0/145,8	350,0/182,6
Sound power (w standard fans)		dB(A)	83,0	83,0	83,0
Sound pressure (w standard fans) ³⁾		dB(A)	50,8	50,8	50,8
Dimension (w standard fans) w/o buffer tank	H x W x D	mm	2286 x 2180 x 1160	2286 x 2180 x 1160	2286 x 2180 x 1160
Dimension (w standard fans) w buffer tank	H x W x D	mm	2286 x 2680 x 1160	2286 x 2680 x 1160	2286 x 2680 x 1160
Weight (w 1 pump) w/o buffer tank		kg	750	855	875
Weight (w 1 pump) w buffer tank		kg	910	1015	1035
Refrigerant (R410A)		kg	22,0	27,0	28,5
Number of refrigerant circuit			1	1	1
Compressors					
Number			2	2	2
Type			Scroll	Scroll	Scroll
Part load step		%	0/45/55/100	0/38/62/100	0/33/67/100
Crankcase heater		W	66/82	66/95	66/95
Evaporator					
Number			1	1	1
Type			Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	15,73	18,25	20,95
Water pressure drop	Cool	kPa	26	34	45
Water volume		l	10,80	10,80	10,80
Antifreeze heater		W	2x30	2x30	2x30
Coils					
Number			2	2	2
Frontal surface		m ²	6,4	6,4	6,4
Number of rows			2	3	3
Fans standard					
Number			2	2	2
Air flow		m ³ /h	42000	42000	42000
Rotation speed		r.p.m.	790	790	790
Power input (each fan)		W	1650	1650	1650
Water connections					
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter		Inch	2 1/2	2 1/2	2 1/2
Outlet - diameter		Inch	2 1/2	2 1/2	2 1/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.

* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K001	Extension kit and cable gland for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV3	Shut off valves kit for model 90 - 125





U - 140/150/170/190/210 CV

Cooling capacity: 132,0 to 208,0 kW

Powerful and efficient operation with 4 scroll compressors and superior flexibility with plug and play hydraulic options.

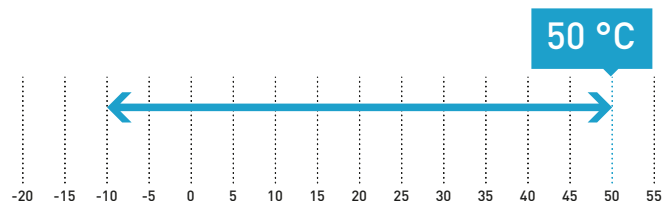


- High seasonal efficiency
- Ambient temperature operating range: -10 to +50 °C
- Water outlet temperature range: -10 to +18 °C
- Super quiet operation
- Victaulic water connections
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU as standard
- Modbus TCP/IP as standard

Technical focus

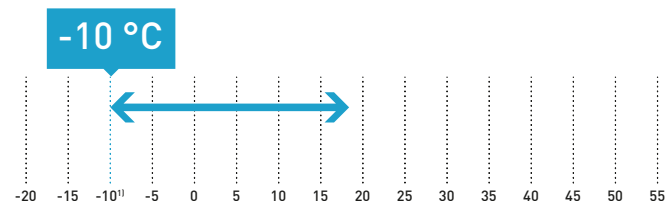
- Chiller type: cooling only
- Compressor type (number): Scroll compressors (4)
- Refrigerant type: R410A
- Refrigerant circuit: 2
- Fan type (number): axial fan (4)
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control
- Remote LAN connection as standard

Ambient temperature.



Cooling: Outside air temperature [°C (DB)].

Water outlet temperature.



Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump Low Pressure	Fixed speed ¹⁾	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Single pump High Pressure	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
Double pump Low Pressure	Variable capacity	Hydraulic gauges	Rubber pads	Modbus TCP/IP
Double pump High Pressure	Constant outlet pressure		Spring damper	BACnet IP
	Constant differential pressure		All seasons fan control	Container transport
			High pressure fan ²⁾	Refrigerant gauge

1) Available for non-EU installation. 2) Available on special order only, please contact your local Panasonic sales representative



REFER TO PAGE 50 TO SEE MORE OPTIONS FOR R410A OUTDOOR UNITS

Optional remote control.
PAW-SYSREMKIT

Model			140	150	170	190	210
Standard without buffer tank			U-140CVNB	U-150CVNB	U-170CVNB	U-190CVNB	U-210CVNB
With buffer tank			U-140CVBL	U-150CVBL	U-170CVBL	U-190CVBL	U-210CVBL
Power supply	Voltage	V	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50
Cooling capacity ¹⁾		kW	132,0	146,0	164,0	181,0	208,0
Input power ¹⁾		kW	43,1	47,6	54,8	61,1	69,8
Total EER 100 % ¹⁾			3,06	3,07	2,99	2,96	2,98
SEER ²⁾			4,40	4,45	4,38	4,40	4,25
$\eta_{s,c}$ ²⁾		%	173	175	172	173	167
Startup type			Direct	Direct	Direct	Direct	Direct
Maximum operating current		A	108,0	119,0	136,0	153,0	170,0
Startup current w/o softstarter / w softstarter		A	251/130	262/141	324/161	341/178	396/201
Sound power (w standard fans)		dB(A)	85,4	85,4	87,0	88,1	88,1
Sound pressure (w standard fans) ³⁾		dB(A)	53,4	53,4	55,0	56,1	56,1
Dimension (w standard fans) w/o buffer tank	H x W x D	mm	2295 x 2856 x 2210	2295 x 2856 x 2210	2295 x 2856 x 2210	2295 x 2856 x 2210	2295 x 2856 x 2210
Dimension (w standard fans) w buffer tank	H x W x D	mm	2295 x 3666 x 2210	2295 x 3666 x 2210	2295 x 3666 x 2210	2295 x 3666 x 2210	2295 x 3666 x 2210
Weight (w 1 low Pa pump) w/o buffer tank		kg	1510	1520	1610	1680	1940
Weight (w 1 low Pa pump) w buffer tank		kg	1640	1650	1740	1810	2070
Refrigerant (R410A)		kg	2 x 24,7	2 x 24,7	24,7/33,3	2 x 33,3	2 x 33,3
Number of refrigerant circuit			2	2	2	2	2
Compressors							
Number			4	4	4	4	4
Type			Scroll	Scroll	Scroll	Scroll	Scroll
Part load step		%	0 / 24 / 26 / 48 / 50 / 52 / 74 / 76 / 100	0 / 23 / 27 / 46 / 50 / 54 / 73 / 77 / 100	0 / 20 / 24 / 44 / 45 / 55 / 69 / 80 / 100	0 / 22 / 28 / 44 / 50 / 56 / 72 / 78 / 100	0 / 19 / 31 / 38 / 50 / 62 / 69 / 81 / 100
Crankcase heater		W	4 x 66	4 x 66	3 x 66/82	2 x 82/2 x 66	2 x 95/2 x 66
Evaporator							
Number			1	1	1	1	1
Type			Plate	Plate	Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	21,56	23,65	25,95	30,24	33,62
Water pressure drop	Cool	kPa	33	39	24	32	40
Water volume		l	8,49	8,49	12,21	12,21	12,21
Antifreeze heater		W	60	60	120	120	120
Coils							
Number			4	4	4	4	4
Frontal surface		m ²	11,88	11,88	11,88	11,88	11,88
Number of rows			2+2	2+2	2+3	3+3	3+3
Fans standard							
Number			4	4	4	4	4
Air flow		m ³ /h	56000	56000	71000	86000	83000
Rotation speed		r.p.m.	900	900	900	900	900
Power input (each fan)		W	940	940	940 - 1650	1650	1650
Water connections							
Type			Victaulic	Victaulic	Victaulic	Victaulic	Victaulic
Inlet - diameter		Inch	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Outlet - diameter		Inch	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.

* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM0005P041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K001	Extension kit and cable gland for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSVICTH	Victaulic connection kit for model 140 - 210





U - 020/025/030/035/040 CW

Cooling capacity: 18,7 to 38,1 kW

Heating capacity: 19,5 to 41,6 kW

Compact and powerful heat pump chiller series with Panasonic quality verification.

ECOi-W Series guarantees quiet operation.

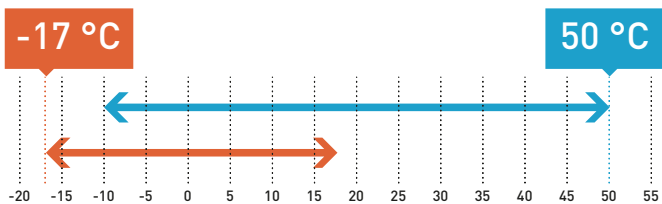


- High seasonal efficiency in cooling and heating
- Eurovent certified
- Ambient temperature operating range: -10 to +50 °C in cooling, -17 to +20 °C in heating
- Water outlet temperature range: -10 to +18 °C in cooling, +20 to +50 °C in heating
- Super quiet operation
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU as standard

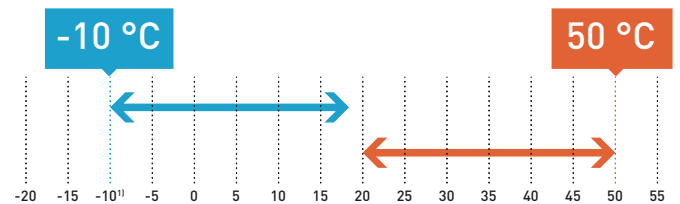
Technical focus

- Chiller type: heat pump
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R410A
- Refrigerant circuit: 1
- Fan type (number): axial fan (1)
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control
- Bluefin anti-corrosion coating

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C (DB)]. Heating: Outside air temperature [°C (WB)].

Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump	Variable twin speed ¹⁾	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
	Constant outlet pressure	Water isolation valves	Rubber pads	Power supply w/o neutral
	Constant differential pressure		Spring damper	Modbus TCP/IP
			All seasons	BACnet MSTP
			Nordic pack	BACnet IP
			High pressure fan ²⁾	

1) Available as standard on models 35 - 40 when pump is selected. 2) Available as standard on models 20 - 30 when pump is selected.



REFER TO PAGE 50 TO SEE MORE OPTIONS FOR R410A OUTDOOR UNITS



Optional remote control.
PAW-SYSREMKIT



Optional Shut off valves kit for model 20 - 40.
PAW-SYSSOV1

Model			20	25	30	35	40
Standard without buffer tank			U-020CWNB	U-025CWNB	U-030CWNB	U-035CWNB	U-040CWNB
With buffer tank			U-020CWBS	U-025CWBS	U-030CWBS	U-035CWBS	U-040CWBS
Power supply	Voltage	V	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50
Cooling capacity ¹⁾		kW	18,7	23,7	26,4	35,8	38,1
Input power ¹⁾		kW	5,9	7,7	9,4	12,3	13,1
Total EER 100 % ¹⁾			3,15	3,07	2,81	2,92	2,91
SEER ^{2) 3)}			4,68	4,31	4,28	4,25	4,33
$\eta_{s,c}$ ^{2) 3)}		%	184	169	168	167	170
Heating capacity ⁴⁾		kW	19,5	26,9	29,7	37,3	41,6
Input power ⁴⁾		kW	6,1	9,3	9,9	13,2	13,5
SCOP ^{5) 5)}			3,50	3,38	3,45	3,50	3,50
$\eta_{s,h}$ ^{5) 5)}		%	137	132	135	137	137
Energy efficiency class [Scale A+++ to D] ⁶⁾			A+	A+	A+	A+	A+
Startup type			Direct	Direct	Direct	Direct	Direct
Maximum operating current		A	17,7	22,2	24,3	31,8	33,8
Startup current w/o softstarter / w softstarter		A	53/20	64/35	77/41	118/53	119/54
Sound power [w standard fans]		dB(A)	75,0	75,0	75,0	76,0	76,0
Sound pressure [w standard fans] ⁷⁾		dB(A)	42,8	42,8	42,8	43,8	43,8
Dimension [w standard fans] w/o buffer tank	H x W x D	mm	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000
Dimension [w standard fans] w buffer tank	H x W x D	mm	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507
Weight [w 1 pump] w/o buffer tank		kg	280	290	320	330	335
Weight [w 1 pump] w buffer tank		kg	345	355	385	395	400
Refrigerant [R410A]		kg	8,4	8,4	8,4	9,1	9,2
Number of refrigerant circuit			1	1	1	1	1
Compressors							
Number			2	2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/50/100	0/50/100	0/50/100	0/50/100
Crankcase heater		W	2 x 40	2 x 40	2 x 49	2 x 49	2 x 49
Evaporator							
Number			1	1	1	1	1
Type			Plate	Plate	Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	3,35	4,36	4,64	6,16	6,44
Water pressure drop	Cool	kPa	23	37	22	37	40
Water volume		l	1,78	1,78	2,55	2,55	2,55
Antifreeze heater		W	30	30	30	30	30
Coils							
Number			1	1	1	1	1
Frontal surface		m ²	2,4	2,4	2,4	2,8	2,8
Number of rows			2	2	2	2	2
Fans standard							
Number			1	1	1	1	1
Air flow		m ³ /h	9000	13000	13000	16000	16000
Rotation speed		r.p.m.	900	900	900	650	650
Power input [each fan]		W	620	940	940	930	930
Water connections							
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter		Inch	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Outlet - diameter		Inch	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45 °C leaving warm water temperature and 7 °C ambient coil air temperature with 87 % R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Following Eurovent and COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D, as of 26th September 2019. 7) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * w: with, w/o: without.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K001	Extension kit and cable glande for mobile [2/4G] antenna [3 m]

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV1	Shut off valves kit for model 20 - 40

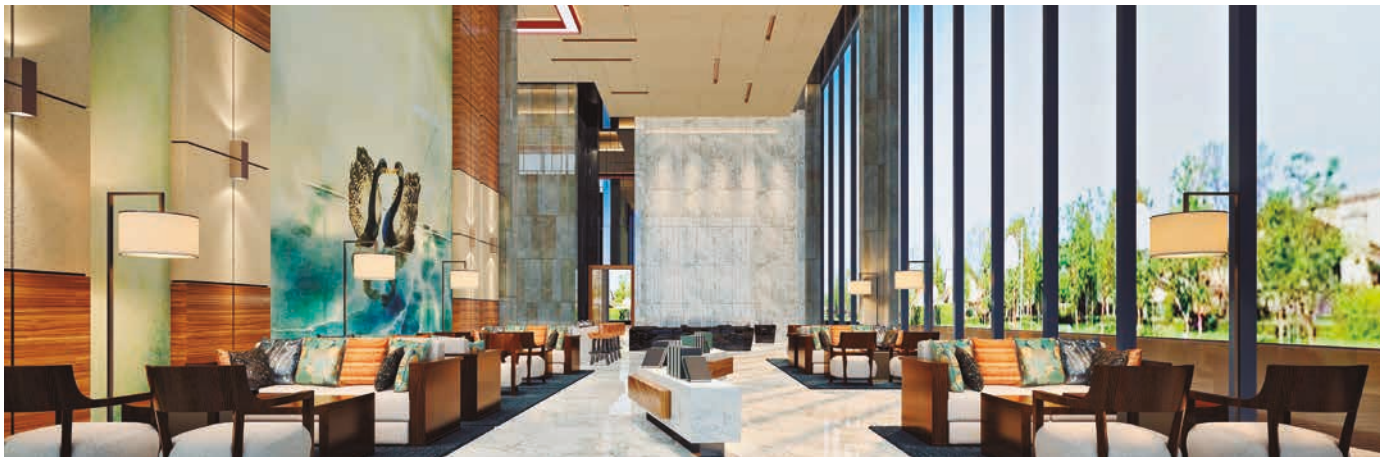




U - 045/055/065/075 CW

Cooling capacity: 44,3 to 71,0 kW
Heating capacity: 48,5 to 75,9 kW

High seasonal efficiency in cooling, maximum SEER 4,63 in this range. ECOi-W Series offers a variety of options to meet your needs.

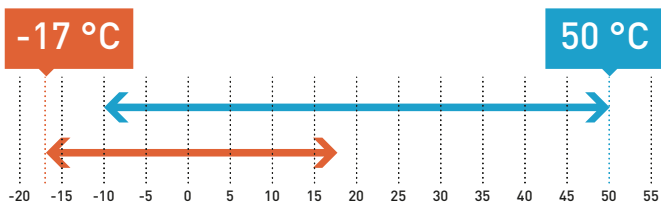


- High seasonal efficiency in cooling and heating
- Eurovent certified
- Ambient temperature operating range: -10 to +50 °C in cooling, -17 to +20 °C in heating
- Water outlet temperature range: -10 to +18 °C in cooling, +20 to +50 °C in heating
- Optional extra-low noise kit available
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU as standard

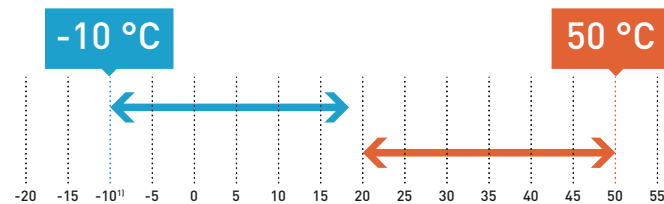
Technical focus

- Chiller type: heat pump
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R410A
- Refrigerant circuit: 1
- Fan type (number): axial fan (1 for 45/55, 2 for 65/75)
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control
- Bluefin anti-corrosion coating

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C (DB)]. Heating: Outside air temperature [°C (WB)].

Available options

Options	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump	Fixed speed	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Double pump	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
	Constant outlet pressure	Electrical heater low power (only with buffer tank)	Rubber pads	Modbus TCP/IP
	Constant differential pressure	Electrical heater high power (only with buffer tank)	Spring damper	BACnet MSTP
			All seasons fan control	BACnet IP
			Extra-low noise kit	Container transport
			High pressure fan	Refrigerant gauge
				Desuperheater



REFER TO PAGE 50 TO SEE MORE OPTIONS FOR R410A OUTDOOR UNITS



Optional remote control.
PAW-SYSREMKIT



Optional Shut off valves kit for model 45 - 75.
PAW-SYSSOV2

Model			45	55	65	75
Standard without buffer tank			U-045CWNB	U-055CWNB	U-065CWNB	U-075CWNB
With buffer tank			U-045CWBM	U-055CWBM	U-065CWBM	U-075CWBM
Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Cooling capacity ¹⁾		kW	44,3	50,9	64,1	71,0
Input power ¹⁾		kW	15,9	18,0	21,8	24,0
Total EER 100 % ¹⁾			2,78	2,83	2,95	2,96
SEER ^{2) 3)}			4,20	4,41	4,51	4,63
$\eta_{s,c}$ ^{2) 3)}		%	165	174	177	182
Heating capacity ⁴⁾		kW	48,5	58,2	67,2	75,9
Input power ⁴⁾		kW	17,3	20,4	22,5	24,3
SCOP ^{3) 5)}			3,38	3,38	3,55	3,53
$\eta_{s,h}$ ^{3) 5)}		%	132	132	139	138
Energy efficiency class (Scale A+++ to D) ⁶⁾			A+	A+	A+	—
Startup type			Direct	Direct	Direct	Direct
Maximum operating current		A	40,2	44,2	59,4	64,4
Startup current w/o softstarter / w softstarter		A	133/66	140/73	201/101	206/106
Sound power (w standard fans)		dB(A)	80,0	80,0	80,0	80,0
Sound pressure (w standard fans) ⁷⁾		dB(A)	47,8	47,8	47,8	47,8
Dimension (w standard fans) w/o buffer tank	H x W x D	mm	1986 x 2180 x 1160	1986 x 2180 x 1160	1986 x 2180 x 1160	1986 x 2180 x 1160
Dimension (w standard fans) w buffer tank	H x W x D	mm	1986 x 2680 x 1160	1986 x 2680 x 1160	1986 x 2680 x 1160	1986 x 2680 x 1160
Weight (w 1 pump) w/o buffer tank		kg	540	550	610	620
Weight (w 1 pump) w buffer tank		kg	700	710	770	780
Refrigerant (R410A)		kg	14,5	14,9	18,9	19,0
Number of refrigerant circuit			1	1	1	1
Compressors						
Number			2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/43/57/100	0/40/60/100	0/45/55/100
Crankcase heater		W	2x66	2x66	2x66	2x66
Evaporator						
Number			1	1	1	1
Type			Plate	Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	8,06	9,18	11,30	12,31
Water pressure drop	Cool	kPa	30	35	28	37
Water volume		l	4,10	4,10	6,10	6,10
Antifreeze heater		W	30	30	2x30	2x30
Coils						
Number			1	1	2	2
Frontal surface		m ²	4,20	4,20	5,55	5,55
Number of rows			2	2	2	2
Fans standard						
Number			1	1	2	2
Air flow		m ³ /h	22500	22500	30000	30000
Rotation speed		r.p.m.	790	790	650	650
Power input (each fan)		W	1650	1650	930	930
Water connections						
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter		Inch	2	2	2	2
Outlet - diameter		Inch	2	2	2	2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45 °C leaving warm water temperature and 7 °C ambient coil air temperature with 87 % R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Following Eurovent and COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D, as of 26th September 2019. 7) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * w: with, w/o: without.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable gland for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV2	Shut off valves kit for model 45 - 75





U - 090/105/125 CW

Cooling capacity: 88,7 to 119,3 kW
Heating capacity: 88,1 to 119,1 kW

Customizable design gives high flexibility. Wide range of communication protocols fulfill the requirements in hotels, offices, industry applications.

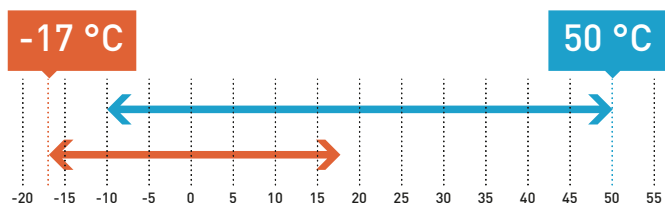


- High seasonal efficiency in cooling and heating
- Eurovent certified
- Ambient temperature operating range: -10 to +50 °C in cooling, -17 to +20 °C in heating
- Water outlet temperature range: -10 to +18 °C in cooling, +20 to +50 °C in heating
- Optional extra-low noise kit available
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU as standard

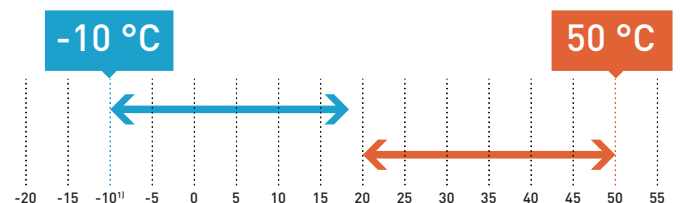
Technical focus

- Chiller type: heat pump
- Compressor type (number): Scroll compressors (2)
- Refrigerant type: R410A
- Refrigerant circuit: 1
- Fan type (number): axial fan (2)
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control
- Bluefin anti-corrosion coating

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C (DB)]. Heating: Outside air temperature [°C (WB)].

Available options

Options	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump	Fixed speed	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Double pump	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
	Constant outlet pressure	Electrical heater low power (only with buffer tank)	Rubber pads	Modbus TCP/IP
	Constant differential pressure	Electrical heater high power (only with buffer tank)	Spring damper	BACnet MSTP
			All seasons fan control	BACnet IP
			Extra-low noise kit	Container transport
			High pressure fan	Refrigerant gauge
				Desuperheater



REFER TO PAGE 50 TO SEE MORE OPTIONS FOR R410A OUTDOOR UNITS



Optional remote control.
PAW-SYSREMKIT



Optional Shut off valves kit for model 90 - 125.
PAW-SYSSOV3

Model			90	105	125
Standard without buffer tank			U-090CWNB	U-105CWNB	U-125CWNB
With buffer tank			U-090CWBM	U-105CWBM	U-125CWBM
Power supply	Voltage	V	400	400	400
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Cooling capacity ¹⁾		kW	88,7	100,8	119,3
Input power ¹⁾		kW	30,6	34,8	40,4
Total EER 100 % ¹⁾			2,90	2,89	2,96
SEER ^{2) 3)}			4,40	4,44	4,49
$\eta_{s,c}$ ^{2) 3)}		%	173	175	177
Heating capacity ⁴⁾		kW	88,1	101,0	119,1
Input power ⁴⁾		kW	33,8	38,4	45,5
SCOP ^{3) 5)}			3,40	3,43	3,43
$\eta_{s,h}$ ^{3) 5)}		%	133	134	134
Startup type			Direct	Direct	Direct
Maximum operating current		A	77,9	86,0	102,0
Startup current w/o softstarter / w softstarter		A	265 / 127	312 / 146	345 / 183
Sound power (w standard fans)		dB(A)	83,0	83,0	83,0
Sound pressure (w standard fans) ⁶⁾		dB(A)	50,8	50,8	50,8
Dimension (w standard fans) w/o buffer tank	H x W x D	mm	2286 x 2180 x 1160	2286 x 2180 x 1160	2286 x 2180 x 1160
Dimension (w standard fans) w buffer tank	H x W x D	mm	2286 x 2680 x 1160	2286 x 2680 x 1160	2286 x 2680 x 1160
Weight (w 1 pump) w/o buffer tank		kg	790	900	920
Weight (w 1 pump) w buffer tank		kg	950	1060	1080
Refrigerant (R410A)		kg	22,0	27,0	28,5
Number of refrigerant circuit			1	1	1
Compressors					
Number			2	2	2
Type			Scroll	Scroll	Scroll
Part load step		%	0 / 45 / 55 / 100	0 / 38 / 62 / 100	0 / 33 / 67 / 100
Crankcase heater		W	66 / 82	66 / 95	66 / 95
Evaporator					
Number			1	1	1
Type			Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	15,73	18,25	20,95
Water pressure drop	Cool	kPa	26	34	45
Water volume		l	10,80	10,80	10,80
Antifreeze heater		W	2x30	2x30	2x30
Coils					
Number			2	2	2
Frontal surface		m ²	6,4	6,4	6,4
Number of rows			2	3	3
Fans standard					
Number			2	2	2
Air flow		m ³ /h	42000	42000	42000
Rotation speed		r.p.m.	790	790	790
Power input (each fan)		W	1650	1650	1650
Water connections					
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter		Inch	2 1/2	2 1/2	2 1/2
Outlet - diameter		Inch	2 1/2	2 1/2	2 1/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45 °C leaving warm water temperature and 7 °C ambient coil air temperature with 87 % R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * w: with, w/o: without.

Accessories

PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable gland for mobile (2/4G) antenna (3 m)

Accessories

PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV3	Shut off valves kit for model 90 - 125





U - 140/150/170/190/210 CW

Cooling capacity: 128,3 to 207,9 kW

Heating capacity: 144,0 to 218,0 kW

Heat pump chiller series with powerful operation by 4 scroll compressors. Maximum water outlet temperature in heating is up to 50 °C. Defrost limiting design ensures to provide stable hot water even at low ambient conditions.

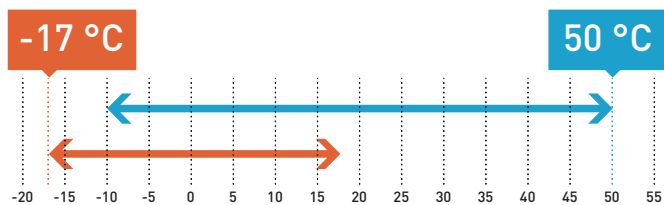


- Smart defrost: Defrost limiting design to ensure a constant water outlet temperature even at very low temperatures
- High seasonal efficiency in cooling and heating
- Eurovent certified
- Ambient temperature operating range: -10 to +50 °C in cooling, -17 to +20 °C in heating
- Water outlet temperature range: -10 to +18 °C in cooling, +20 to +50 °C in heating
- Super quiet operation
- Victaulic water connections
- Optimised design for service and maintenance
- Simple user friendly control as standard
- Modbus RTU as standard
- Modbus TCP/IP as standard

Technical focus

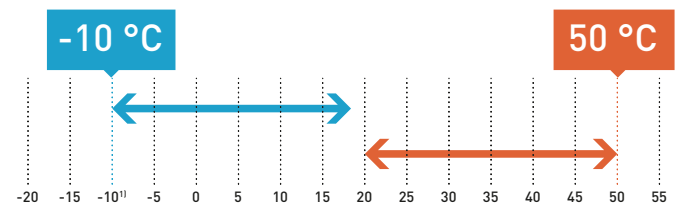
- Chiller type: heat pump
- Compressor type (number): Scroll compressors (4)
- Refrigerant type: R410A
- Refrigerant circuit: 2
- Fan type (number): axial fan (4)
- Heat exchanger: stainless steel plate heat exchanger
- Flow switch, water safety & air purge valves included
- Water filter included (mandatory to be installed on site)
- Night mode setting to save energy and reduce noise level
- Water compensation curve control
- Bluefin anti-corrosion coating
- Remote LAN connection as standard

Ambient temperature.



Cooling: Outside air temperature [°C (DB)]. Heating: Outside air temperature [°C (WB)].

Water outlet temperature.



Available options

Options	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump low pressure	Fixed speed	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Single pump high pressure	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
Double pump low pressure	Variable capacity	Hydraulic gauges	Rubber pads	Modbus TCP/IP
Double pump high pressure	Constant outlet pressure		Spring damper	BACnet IP
	Constant differential pressure		All seasons fan control	Container transport
			Nordic pack	Refrigerant gauge
			High pressure fan	Desuperheater ¹⁾

¹⁾ Available on special order only, please contact your local Panasonic sales representative.



1 DEFROST CYCLE EVERY 130 MINUTES.

Heating Capacity: +22 %
Integrated COP: +15 %
Improved SCOP Class



REFER TO PAGE 50 TO SEE MORE OPTIONS
FOR R410A OUTDOOR UNITS



Optional remote control.
PAW-SYSREMKIT

Model		140	150	170	190	210
Standard without buffer tank		U-140CWNB	U-150CWNB	U-170CWNB	U-190CWNB	U-210CWNB
With buffer tank		U-140CWBL	U-150CWBL	U-170CWBL	U-190CWBL	U-210CWBL
Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Cooling capacity ¹⁾	kW	128,3	142,1	163,9	177,5	207,9
Input power ¹⁾	kW	43,2	47,7	54,7	61,3	69,7
Total EER 100 % ¹⁾		2,97	2,98	2,99	2,90	2,98
SEER ^{2) 3)}		4,39	4,36	4,31	4,23	4,28
$\eta_{s,c}$ ^{2) 3)}	%	173	171	169	166	168
Heating capacity ⁴⁾	kW	144,0	154,0	170,0	195,0	218,0
Input power ⁴⁾	kW	45,7	50,3	55,5	67,4	78,3
SCOP ^{3) 5)}		3,30	3,33	3,30	3,23	3,23
$\eta_{s,h}$ ^{3) 5)}	%	129	130	129	128	126
Startup type		Direct	Direct	Direct	Direct	Direct
Maximum operating current	A	108,0	119,0	136,0	153,0	170,0
Startup current w/o softstarter / w softstarter	A	251 / 130	262 / 141	324 / 161	341 / 178	396 / 201
Sound power (w standard fans)	dB(A)	85,4	85,4	87,0	88,1	88,1
Sound pressure (w standard fans) ⁶⁾	dB(A)	53,4	53,4	55,0	56,1	56,1
Dimension (w standard fans) w/o buffer tank	HxWxD	mm	2295x2856x2210	2295x2856x2210	2295x2856x2210	2295x2856x2210
Dimension (w standard fans) w buffer tank	HxWxD	mm	2295x3666x2210	2295x3666x2210	2295x3666x2210	2295x3666x2210
Weight (w 1 low Pa pump) w/o buffer tank	kg	1570	1580	1680	1750	2020
Weight (w 1 low Pa pump) w buffer tank	kg	1700	1710	1810	1880	2150
Refrigerant (R410A)	kg	2 x 24,7	2 x 24,7	24,7/33,3	2 x 33,3	2 x 33,3
Number of refrigerant circuit		2	2	2	2	2
Compressors						
Number		4	4	4	4	4
Type		Scroll	Scroll	Scroll	Scroll	Scroll
Part load step	%	0 / 24 / 26 / 48 / 50 / 52 / 74 / 76 / 100	0 / 23 / 27 / 46 / 50 / 54 / 73 / 77 / 100	0 / 20 / 24 / 44 / 45 / 55 / 69 / 80 / 100	0 / 22 / 28 / 44 / 50 / 56 / 72 / 78 / 100	0 / 19 / 31 / 38 / 50 / 62 / 69 / 81 / 100
Crankcase heater	W	4x66	4x66	3x66/82	2x82/2x66	2x95/2x66
Evaporator						
Number		1	1	1	1	1
Type		Plate	Plate	Plate	Plate	Plate
Nominal water flow	Cool	m ³ /h	21,56	23,65	25,95	30,24
Water pressure drop	Cool	kPa	33	39	24	32
Water volume		l	8,49	8,49	12,21	12,21
Antifreeze heater	W	60	60	120	120	120
Coils						
Number		4	4	4	4	4
Frontal surface		m ²	11,88	11,88	11,88	11,88
Number of rows		2+2	2+2	2+3	3+3	3+3
Fans standard						
Number		4	4	4	4	4
Air flow		m ³ /h	56000	56000	71000	86000
Rotation speed		r.p.m.	900	900	900	900
Power input (each fan)	W	940	940	940 - 1650	1650	1650
Water connections						
Type		Victaulic	Victaulic	Victaulic	Victaulic	Victaulic
Inlet - diameter	Inch	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Outlet - diameter	Inch	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45 °C leaving warm water temperature and 7 °C ambient coil air temperature with 87 % R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * w: with, w/o: without.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSVICTH	Victaulic connection kit for model 140 - 210



Options for outdoor units

Options table 20 - 125

Option	Type	Ref.	Description	Model														
				20	25	30	35	40	45	55	65	75	90	105	125			
1	Capacity																	
2	Refrigerant and compressor type	V	R410A, fixed speed compressor - Cooling only	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		W	R410A, fixed speed compressor - Heat Pump	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3	Buffer tank option	NB	No buffer	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	
		BS	Buffer tank (small)	•	•	•	•	•										
		BM	Buffer tank (medium)						•	•	•	•	•	•	•	•	•	•
4	Pump option	No pump ¹⁾		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	
		Single pump	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Double pump						•	•	•	•	•	•	•	•	•	•	•
		Pump drive - fixed speed - Cooling only ²⁾	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Pump drive - fixed speed - Heat Pump								Std	Std	Std	Std	Std	Std	Std	Std	Std
5	Pump drive option	Pump drive - variable twin speed (single pump) ³⁾		Std	Std	Std	Std	Std	•	•	•	•	•	•	•	•	•	
		Pump drive - variable twin speed (double pump)						•	•	•	•	•	•	•	•	•	•	
		Pump drive - constant outlet pressure (single pump)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Pump drive - constant outlet pressure (double pump)						•	•	•	•	•	•	•	•	•	•	•
		Pump drive - constant differential pressure (single pump) ⁴⁾		S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0
6	Hydraulic options	Flow switch		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	
		Low water pressure sensor ⁵⁾	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Water isolation valves	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Desuperheater		S0	S0	S0	S0	S0	•	•	•	•	•	•	•	•	•	•
		Standard BMS option (Modbus RTU)		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
		Modbus TCP/IP	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7	Control options	BACnet MSTP	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		BACnet IP	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		Digital input for: Cooling/heating or Night mode or Load Shedding	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
		Automatic circuit breaker	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
8	Electrical options	Phase sequence control	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	
		Fan speed controller	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Electrical backup heater 12 kW - Heat pump ⁶⁾							•	•	•	•						
		Electrical backup heater 24 kW - Heat pump ⁶⁾							•	•	•	•	•	•	•	•	•	•
		Electrical backup heater 36 kW - Heat pump ⁶⁾														•	•	•
		Power supply w/o neutral ⁷⁾		S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0
9	Refrigerant options	Soft starter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		Refrigerant gauges (HP and LP manometers)						•	•	•	•	•	•	•	•	•	•	
		Aluminium finned coil - Cooling Only	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
		Bluefin coil treatment - Heat Pump	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
		Finned coil epoxy treatment	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Finned coil Blygold treatment		S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0
		Outdoor coil protection grid	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Rubber pads (supplied loose)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10	Ambient options	Spring damper (supplied loose)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		Container transport						•	•	•	•	•	•	•	•	•	•	
		Low noise option	Std	Std	Std	Std	Std	•	•	•	•	•	•	•	•	•	•	
		High pressure fan ⁸⁾	S0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

1) The system may be supplied without a pump, but in order to meet EU ErP compliance, the installation must include a variable speed pump.

2) Fixed speed pump drive on cooling only chiller, is only suitable for installation outside of the EU due to ErP compliance.

3) Variable twin speed drive is supplied as standard with models 20 - 40, when selecting single pump option. Please select alternate pump drive if required.

4) Constant differential pump drive option is only available on a special order basis, and requires additional production time. Please contact your local sales representative.

5) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site.

6) Electrical backup heaters can only be selected when combined with buffer tank option.

7) Power supply without neutral is only available on a special order and requires additional production time. Please contact your local sales representative.

8) High pressure fan is not available on model 20 due to body design.

Std: Standard item included.

•: Optional item that can be selected.

S0: Special order item.

Options table 140 - 210

Option	Type	Ref.	Description	Model				
				140	150	170	190	210
1	Capacity							
2	Refrigerant and compressor type	V	R410A, fixed speed compressor - Cooling only	•	•	•	•	•
		W	R410A, fixed speed compressor - Heat Pump	•	•	•	•	•
3	Buffer tank option	NB	No buffer	Std	Std	Std	Std	Std
		BL	Buffer tank (large)	•	•	•	•	•
4	Pump option		No pump ¹⁾	Std	Std	Std	Std	Std
			Single pump low pressure	•	•	•	•	•
			Single pump high pressure	•	•	•	•	•
			Double pump low pressure	•	•	•	•	•
			Double pump high pressure	•	•	•	•	•
			Pump drive - fixed speed ²⁾	Std	Std	Std	Std	Std
5	Pump drive option		Pump drive - variable twin speed (single pump)	•	•	•	•	•
			Pump drive - variable twin speed (double pump)	•	•	•	•	•
			Pump drive - variable capacity (single pump)	•	•	•	•	•
			Pump drive - variable capacity (double pump)	•	•	•	•	•
			Pump drive - constant outlet pressure (single pump)	•	•	•	•	•
			Pump drive - constant outlet pressure (double pump)	•	•	•	•	•
6	Hydraulic options		Pump drive - constant differential pressure (single pump) ³⁾	S0	S0	S0	S0	S0
			Pump drive - constant differential pressure (double pump) ³⁾	S0	S0	S0	S0	S0
			Flow switch	Std	Std	Std	Std	Std
			Low water pressure sensor ⁴⁾	•	•	•	•	•
			Water isolation valves	•	•	•	•	•
			Hydraulic gauges	•	•	•	•	•
7	Control options		Standard BMS option (Modbus RTU)	Std	Std	Std	Std	Std
			Modbus TCP/IP	•	•	•	•	•
			BACnet MSTP	•	•	•	•	•
			BACnet IP	•	•	•	•	•
8	Electrical options		Digital input for: Cooling/heating or Night mode or Load Shedding	Std	Std	Std	Std	Std
			Automatic circuit breaker	Std	Std	Std	Std	Std
			Phase sequence control	Std	Std	Std	Std	Std
			Fan speed controller	•	•	•	•	•
			Power supply w/o neutral	•	•	•	•	•
			Soft starter	•	•	•	•	•
9	Refrigerant options		Refrigerant gauges (HP and LP manometers)	•	•	•	•	•
			Aluminium finned coil - Cooling Only	Std	Std	Std	Std	Std
			Bluefin coil treatment - Heat Pump	Std	Std	Std	Std	Std
			Finned coil treatment - epoxy	•	•	•	•	•
			Finned coil Blygold treatment	S0	S0	S0	S0	S0
10	Ambient options		Outdoor coil protection grid	•	•	•	•	•
			Rubber pads (supplied loose)	•	•	•	•	•
			Spring damper (supplied loose)	•	•	•	•	•
			Container transport	•	•	•	•	•
			Low noise option	Std	Std	Std	Std	Std
	High pressure fan	S0	S0	S0	S0	S0		

1) The system may be supplied without a pump, but in order to meet EU ErP compliance, the installation must include a variable speed pump.

2) Fixed speed pump drive on cooling only chiller, is only suitable for installation outside of the EU due to ErP compliance.

3) Constant differential pump drive option is only available on a special order basis, and requires additional production time. Please contact your local sales representative.

4) Low water pressure sensor is supplied loose when selected as an option without pump and hydraulic kit. To be installed on site.

Std: Standard item included.

•: Optional item that can be selected.

S0: Special order item.

Explore the new range of fan coils. Designed to fit with your environment and enhance comfort

Designed to provide performance, comfort and seamless integration within your environment



Fan coils highlighted features.
Available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location.



1 Innovation for an optimum comfort
Range of fan coils for heating and cooling with capacities from 0,5 to 21,9 kW in cooling and from 0,6 to 21,5 kW in heating. Bring full year comfort with water based systems.

2 Energy efficient and low noise fan
Dynamically balanced and specially designed fans, reinforced acoustic insulation and optimised fan speed staging for lower noise levels. Improved efficiency with optional EC fan motor.

3 Quality and efficient coil
Constructed from staggered copper tubes, mechanically expanded into aluminium fins, providing maximum heat transfer efficiency, durability and hygiene.

4 Flexible installation
Various types of unit to fit your needs with flexible installation options. A choice of service side for hydraulic connections, piping configuration and horizontal or vertical installation for ducted units.

Offering a great range of capacities and performance, available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location. Whether the requirements are for cooling only, or for both heating and cooling, there is a fan coil to suit. With a variety of piping and fan configuration, the range is capable of meeting the most stringent of requirements. Line up available in AC and EC fans, it is possible to achieve both powerful performance, but with sustainability in mind.

Controllers with sophisticated designs, provide a user friendly interface while enabling an easy and low cost integration to building management systems.

Optional wired remote controller for AC fan, 2-pipe and 4-pipe application.



PAW-FC-RC1

Optional wired remote controller for AC fan 2-pipe application



PAW-FC-903AC



PAW-FC-907AC

Optional wired remote controller for EC fan, 2-pipe and 4-pipe application.



PAW-FC-903EC



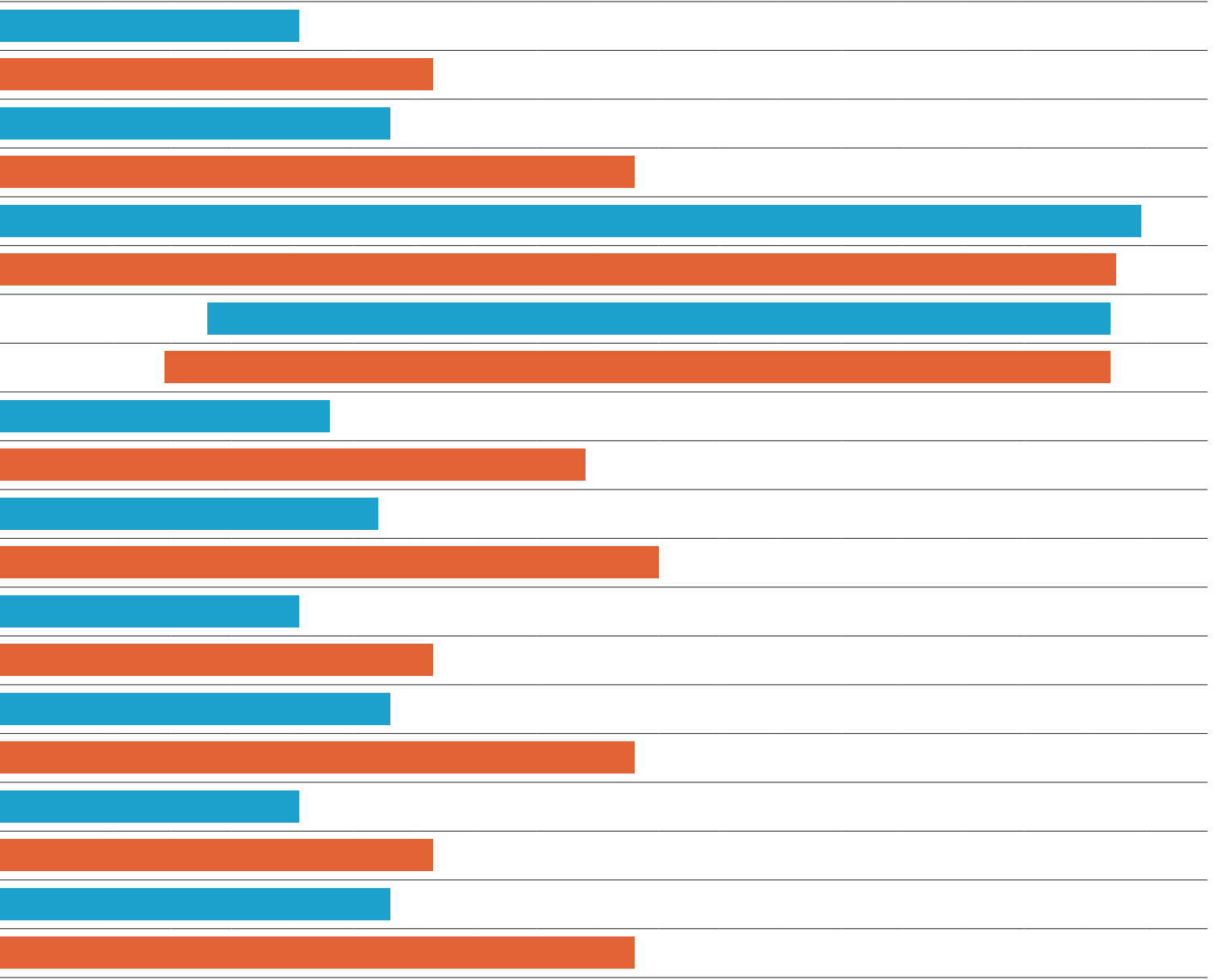
PAW-FC-907EC

Range of fan coils

Page	Fan Type	Operation	Capacity range	0 kW	1 kW	2 kW	3 kW	4 kW	
P. 56	Ducted	AC	Cooling	0,7 to 8,1 kW	[Blue bar]				
			Heating	0,7 to 10,3 kW	[Orange bar]				
	EC	Cooling	0,5 to 9,6 kW	[Blue bar]					
		Heating	0,6 to 13,6 kW	[Orange bar]					
P. 58	High static pressure ducted	AC	Cooling	4,1 to 21,9 kW	[Blue bar]			[Blue bar]	
			Heating	4,7 to 21,5 kW	[Orange bar]			[Orange bar]	
	EC	Cooling	6,6 to 21,4 kW	[Blue bar]			[Blue bar]		
		Heating	5,9 to 21,4 kW	[Orange bar]			[Orange bar]		
P. 60	4 way cassette	AC	Cooling	1.4 to 8,6 kW	[Blue bar]				
			Heating	1,1 to 12,8 kW	[Orange bar]				
	EC	Cooling	1,4 to 9,4 kW	[Blue bar]					
		Heating	1,1 to 14,0 kW	[Orange bar]					
P. 62	Ceiling chassis	AC	Cooling	0,7 to 8,1 kW	[Blue bar]				
			Heating	0,7 to 10,3 kW	[Orange bar]				
	EC	Cooling	0,5 to 9,6 kW	[Blue bar]					
		Heating	0,6 to 13,6 kW	[Orange bar]					
P. 64	Floor-standing chassis	AC	Cooling	0,7 to 8,1 kW	[Blue bar]				
			Heating	0,7 to 10,3 kW	[Orange bar]				
	EC	Cooling	0,5 to 9,6 kW	[Blue bar]					
		Heating	0,6 to 13,6 kW	[Orange bar]					
P. 66	Wall-mounted	AC	Cooling	1,0 to 3,9 kW	[Blue bar]				
			Heating	1,4 to 4,1 kW	[Orange bar]				
P. 67	Smart fan coils	AC	Cooling	0,2 to 1,7 kW	[Blue bar]				
			Heating	0,2 to 1,7 kW	[Orange bar]				

Values indicated are for the full operating range. The data shown within the tables following are indicative of specific installation conditions. For full details relating to performance and operating conditions, please refer to the technical data manual.

5 kW 6 kW 7 kW 8 kW 9 kW 10kW 11kW 12kW 13kW 14kW 15kW 16kW 17kW 18kW 19kW 20kW 21kW 22kW



Fan coils - ducted (AC)



Optional controller. Advanced wired remote controller. PAW-FC-RC1



Optional controller. Wired remote controller with touch control. PAW-FC-907AC



Optional controller. Wired remote controller. PAW-FC-903AC

2-pipe - Left connection (PAW-)			FC2A-D010L	FC2A-D020L	FC2A-D030L	FC2A-D040L	FC2A-D050L	FC2A-D060L	FC2A-D070L	FC2A-D080L
2-pipe - Right connection (PAW-)			FC2A-D010R	FC2A-D020R	FC2A-D030R	FC2A-D040R	FC2A-D050R	FC2A-D060R	FC2A-D070R	FC2A-D080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,7/1,0/1,5	0,7/1,2/1,7	1,0/2,0/2,5	1,2/2,4/3,2	1,7/3,2/4,6	2,7/4,6/5,8	3,4/6,1/7,3	4,6/6,1/8,1
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/0,8/1,1	0,6/0,9/1,3	0,8/1,5/1,9	0,9/1,8/2,3	1,2/2,2/3,3	1,9/3,3/4,5	2,4/4,3/5,1	3,4/4,6/6,3
Water flow	Lo/Med/Hi	l/h	124/172/250	127/213/289	172/341/430	206/413/547	296/544/798	466/784/1003	587/1058/1252	798/1048/1400
Water pressure drop	Lo/Med/Hi	kPa	10,7/19,5/39,2	1,9/3,9/6,3	6,3/19,3/28,8	5,4/17,1/28,0	7,5/22,8/46,9	13,9/37,4/60,2	4,8/15,4/21,5	11,9/19,3/32,5
Heating capacity ²⁾	Lo/Med/Hi	kW	0,9/1,4/2,0	0,9/1,5/2,2	1,3/2,4/3,1	1,4/2,9/4,0	2,1/4,1/5,7	3,1/5,3/7,1	4,3/7,9/9,3	5,9/8,1/11,6
4-pipe - Left connection (PAW-)			FC4A-D010L	FC4A-D020L	FC4A-D030L	FC4A-D040L	FC4A-D050L	FC4A-D060L	FC4A-D070L	FC4A-D080L
4-pipe - Right connection (PAW-)			FC4A-D010R	FC4A-D020R	FC4A-D030R	FC4A-D040R	FC4A-D050R	FC4A-D060R	FC4A-D070R	FC4A-D080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,7/0,9/1,3	0,6/1,1/1,6	1,0/1,9/2,4	1,1/2,3/3,0	1,7/3,0/4,3	2,6/4,4/5,6	3,3/5,9/6,9	4,5/5,9/8,0
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/0,7/1,0	0,5/0,8/1,2	0,8/1,5/1,8	0,8/1,7/2,2	1,2/2,2/3,1	1,8/3,2/4,3	2,3/4,2/4,9	3,3/4,4/6,2
Water flow	Lo/Med/Hi	l/h	114/159/225	109/192/268	165/327/414	194/388/517	284/522/748	449/756/967	575/1019/1193	775/1020/1380
Water pressure drop	Lo/Med/Hi	kPa	8,3/15,2/29,0	1,5/3,4/5,6	3,0/9,5/14,4	6,4/22,3/36,8	4,2/12,8/25,1	10,2/27,7/44,5	5,9/17,9/24,4	19,3/31,1/53,6
Heating capacity ²⁾	Lo/Med/Hi	kW	0,5/0,7/1,0	0,6/0,9/1,1	1,0/1,4/1,6	0,9/1,6/2,1	1,5/2,3/3,0	1,9/2,9/3,7	2,7/3,6/4,3	3,9/5,6/7,1
Water flow	Lo/Med/Hi	l/h	79/127/178	100/146/190	164/232/274	160/273/354	251/401/508	325/505/633	456/626/736	673/963/1226
Water pressure drop	Lo/Med/Hi	kPa	1,9/3,5/5,6	1,5/3,2/5,3	5,1/9,0/11,9	9,2/26,5/42,7	10,7/24,6/29,5	20,3/43,9/52,9	67,2/117,9/137,8	33,1/63,7/75
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64
Global sound pressure ³⁾	Lo/Med/Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow 2-pipe	Lo/Med/Hi	m ³ /h	111/190/283	105/179/265	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064	660/936/1397
Air flow 4-pipe	Lo/Med/Hi	m ³ /h	95/168/253	89/161/241	132/263/369	162/335/467	242/466/671	334/614/885	470/859/1012	634/905/1370
Maximum external pressure		Pa	55	55	65	85	85	115	125	70
Filter			G2	G2	G2	G2	G2	G2	G2	G2
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	13/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188
Power consumption 4-pipe	Lo/Med/Hi	W	13/24/36	10/18/28	16/37/44	15/37/55	28/54/70	37/74/104	53/99/145	90/112/188
Water connections										
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
4-pipe	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension and weight										
Dimension	H x W x D	mm	220 x 570 x 430	220 x 570 x 430	220 x 730 x 430	220 x 938 x 430	220 x 1122 x 430	220 x 1307 x 430	220 x 1121 x 530	220 x 1316 x 530
Weight	2 / 4-pipes	kg	13/14	13/14	15/16	20/22	22/24	26/28	27/29	38/40

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds. Values indicated are for 0 Pa external static pressure, for additional pressure characteristics, please refer the selection software.

Technical focus

- Cooling capacity from 0,7 to 8,1 kW
- Heating capacity from 0,7 to 10,3 kW
- 5-speed AC fan motor(s)

Operating limits

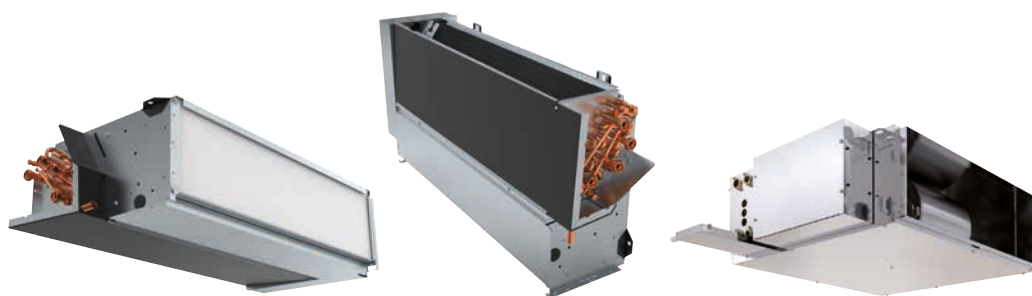
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

Main features and accessories

- 2 and 4-pipe configurations
- Left or right hand arrangements
- Ease of installation
- Very low acoustic levels
- 2 way or 3 way ON / OFF valves
- Auxiliary drain pan
- Air intake with removable grid
- G2 filter



Fan coils - ducted (EC)



Optional controller.
Wired remote controller with touch control.
PAW-FC-907EC



Optional controller.
Wired remote controller.
PAW-FC-903EC

2-pipe - Left connection (PAW-)			FC2E-D010L	FC2E-D020L	FC2E-D030L	FC2E-D040L	FC2E-D050L	FC2E-D060L	FC2E-D070L	FC2E-D080L	FC2E-F040L
2-pipe - Right connection (PAW-)			FC2E-D010R	FC2E-D020R	FC2E-D030R	FC2E-D040R	FC2E-D050R	FC2E-D060R	FC2E-D070R	FC2E-D080R	FC2E-F040R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,6/1,2/2,1	0,6/1,4/2,4	0,9/2,1/3,1	1,3/2,9/4,2	1,3/4,0/5,0	2,0/4,5/5,2	2,7/5,9/6,9	5,1/6,5/8,8	3,6/6,6/9,2
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/1,1/1,9	0,5/1,1/1,9	0,6/1,6/2,4	1,0/2,1/3,0	1,1/3,0/3,7	1,4/3,5/4,0	2,0/4,3/5,2	3,7/4,8/6,6	2,9/6,1/9,1
Water flow	Lo/Med/Hi	l/h	107/210/356	110/237/406	148/354/532	230/506/722	231/685/743	341/767/800	463/1008/1098	879/1111/1254	627/1142/1575
Water pressure drop	Lo/Med/Hi	kPa	8,2/28,2/76,9	1,5/4,6/11,0	5,0/20,5/42,1	6,4/24,4/46,3	4,9/35,1/41,0	7,8/35,8/38,8	3,0/14,0/16,6	14,1/21,4/26,6	10,6/51,2/93,8
Heating capacity ²⁾	Lo/Med/Hi	kW	0,8/1,6/2,9	0,9/1,9/3,3	1,0/2,2/3,4	1,4/3,0/5,3	1,7/5,2/5,5	2,3/5,9/6,1	3,8/7,3/8,2	6,2/8,0/9,3	4,4/8,3/11,8
4-pipe - Left connection (PAW-)			FC4E-D010L	FC4E-D020L	FC4E-D030L	FC4E-D040L	FC4E-D050L	FC4E-D060L	FC4E-D070L	FC4E-D080L	FC4E-F040L
4-pipe - Right connection (PAW-)			FC4E-D010R	FC4E-D020R	FC4E-D030R	FC4E-D040R	FC4E-D050R	FC4E-D060R	FC4E-D070R	FC4E-D080R	FC4E-F040R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/1,1/1,9	0,6/1,2/2,2	0,8/1,9/2,9	1,2/2,7/4,0	1,2/3,6/4,6	1,8/4,1/4,9	2,6/5,1/6,4	5,0/6,2/9,6	3,3/6,4/8,8
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,4/0,9/1,7	0,4/1,0/1,8	0,6/1,5/2,2	0,9/1,9/2,8	1,0/2,8/3,5	1,2/3,2/3,8	1,9/3,8/4,8	3,6/4,6/7,2	2,7/5,6/8,0
Water flow	Lo/Med/Hi	l/h	92/185/327	97/206/375	129/321/493	205/457/681	212/625/686	306/707/749	443/886/977	855/1070/1242	567/1093/1511
Water pressure drop	Lo/Med/Hi	kPa	5,8/20,1/59,2	1,3/3,7/9,7	4,0/9,2/19,7	6,3/29,6/60,1	2,5/17,9/21,3	5,1/24,3/27,2	3,5/13,6/16,5	22,9/33,9/44,3	10,0/47,2/86,7
Heating capacity ²⁾	Lo/Med/Hi	kW	0,4/0,8/1,4	0,6/0,9/1,5	1,0/1,4/1,8	1,2/2,0/2,8	1,6/2,4/2,5	1,4/2,9/3,1	2,5/3,4/3,6	4,5/5,9/6,9	2,5/4,5/6,2
Water flow	Lo/Med/Hi	l/h	76/140/235	95/161/255	166/243/304	204/350/483	267/416/438	233/503/531	434/583/614	767/1011/1194	432/783/1065
Water pressure drop	Lo/Med/Hi	kPa	1,8/4,0/8,4	1,4/3,8/9,4	5,3/9,7/14,1	15,6/41,8/76,3	11,9/26,3/28,9	11,5/43,6/48,1	61,5/103,8/113,9	42,1/69,7/95,1	30,6/107,6/214,8
Sound levels											
Global sound power	Lo/Med/Hi	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	40/54/59	51/56/64	42/58/68 ³⁾
Global sound pressure ⁴⁾	Lo/Med/Hi	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55	23/39/52
Fan											
Number			1	1	1	2	2	2	2	3	1
Air flow 2-pipe	Lo/Med/Hi	m ³ /h	108/228/417	98/234/413	145/380/585	170/412/678	203/645/816	245/737/912	350/850/1050	685/927/1398	592/1284/1935
Air flow 4-pipe	Lo/Med/Hi	m ³ /h	91/199/379	84/200/380	123/342/540	148/369/627	185/587/646	205/668/716	329/798/894	660/884/1079	523/1222/1864
Maximum external pressure		Pa	75	75	75	105	70	105	115	70	190
Filter			G2	G2	G2	G2	G2	G2	G2	G2	G2
Electrical data											
Power supply	Voltage	V	230	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	5/11/41	5/13/41	4/16/42	2/13/43	4/24/46	2/30/54	11/44/77	23/42/108	11/62/197
Power consumption 4-pipe	Lo/Med/Hi	W	5/11/39	5/13/40	6/15/40	2/12/42	2/23/44	2/28/52	11/43/75	22/41/116	11/60/188
Water connections											
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4
	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4
4-pipe	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension and weight											
Dimension	HxWxD	mm	220 x 570 x 430	220 x 570 x 430	220 x 730 x 430	220 x 938 x 430	220 x 1122 x 430	220 x 1307 x 430	220 x 1121 x 530	220 x 1316 x 530	223 x 1233 x 653
Weight	2 / 4-pipes	kg	13/14	13/14	15/16	20/22	22/24	26/28	27/29	38/40	19/19

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound power levels indicated are from return and radiated measurements. 4) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds. Values indicated are for 0 Pa external static pressure, for additional pressure characteristics, please refer the selection software.

Technical focus

- Cooling capacity from 0,5 to 9,6 kW
- Heating capacity from 0,6 to 13,6 kW
- Low energy consumption EC fan(s)

Operating limits

Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

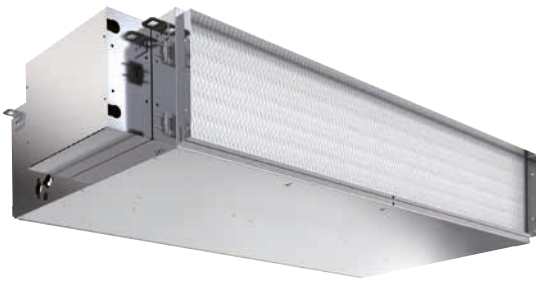
Main features and accessories

- 2 and 4-pipe configurations
- Left or right hand arrangements
- Can be installed both horizontally and vertically*
- Ease of installation
- Very low acoustic levels
- 2 way or 3 way ON / OFF valves
- Auxiliary drain pan
- Air intake with removable grid
- G2 filter

* PAW-FC2E-F040 and PAW-FC4E-F040 may only be installed horizontally.



Fan coils - High static pressure ducted (AC)



Optional controller. Advanced wired remote controller. PAW-FC-RC1



Optional controller. Wired remote controller with touch control. PAW-FC-907AC



Optional controller. Wired remote controller. PAW-FC-903AC

2-pipe - Left connection				PAW-FC2A-E070L	PAW-FC2A-E150L	PAW-FC2A-E180L	PAW-FC2A-E210L	PAW-FC2A-E240L*	PAW-FC2A-E270L*
2-pipe - Right connection				PAW-FC2A-E070R	PAW-FC2A-E150R	PAW-FC2A-E180R	PAW-FC2A-E210R	PAW-FC2A-E240R*	PAW-FC2A-E270R*
Total cooling capacity ¹⁾	Lo/Med/Hi	kW		4,4/5,5/6,4	5,6/11,5/14,2	4,9/11,5/15,0	5,2/13,7/18,6	14,3/19,8/23,3	15,8/23,0/27,5
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW		3,12/5,1	3,9/9,2/12,2	3,7/9,5/13,1	3,5/9,9/13,7	10,3/14,9/17,8	11,0/16,3/19,7
Water flow	Lo/Med/Hi	l/h		749/951/1095	966/1979/2437	837/1979/2589	899/2357/3201	2468/3410/4015	2718/3951/4740
Water pressure drop	Lo/Med/Hi	kPa		26,5/42,5/56,2	5,5/19,9/29,3	4,4/19,6/32,0	4,9/28,8/51,5	13,8/25,2/34,2	12,8/25,2/35,3
Heating capacity ²⁾	Lo/Med/Hi	kW		5,4/8,6/12,7	6,2/14,2/20,0	6,3/16,3/23,2	6,1/16,5/23,4	17,2/26,3/32,6	17,9/27,5/33,7
4-pipe - Left connection				PAW-FC4A-E070L	PAW-FC4A-E150L	PAW-FC4A-E180L	PAW-FC4A-E210L	PAW-FC4A-E240L*	PAW-FC4A-E270L*
4-pipe - Right connection				PAW-FC4A-E070R	PAW-FC4A-E150R	PAW-FC4A-E180R	PAW-FC4A-E210R	PAW-FC4A-E240R*	PAW-FC4A-E270R*
Total cooling capacity ¹⁾	Lo/Med/Hi	kW		4,0/5,4/6,0	5,3/10,1/11,9	5,5/11,2/13,6	5,9/14,4/18,8	13,3/17,7/20,5	14,3/19,9/23,4
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW		2,8/4,1/4,7	3,7/8,4/10,9	3,9/9,1/12,0	4,0/10,6/14,5	9,9/13,9/16,3	10,3/14,9/17,8
Water flow	Lo/Med/Hi	l/h		680/924/1035	919/1739/2044	951/1928/2335	1013/2478/3241	2291/3053/3526	2464/3427/4032
Water pressure drop	Lo/Med/Hi	kPa		29,7/52,1/64,4	4,1/13,5/18,4	4,7/17,4/25,0	6,6/35,2/59,1	14,5/25,0/33,0	12,8/23,3/31,5
Heating capacity ²⁾	Lo/Med/Hi	kW		3,7/6,0/7,4	5,3/11,8/15,9	5,3/11,9/15,9	5,3/11,9/16,0	7,2/11,1/13,5	7,2/11,1/13,5
Water flow	Lo/Med/Hi	l/h		636/1029/1266	906/2038/2746	911/2045/2745	916/2051/2747	1242/1910/2329	1242/1910/2329
Water pressure drop	Lo/Med/Hi	kPa		14,2/30,7/43,6	39,0/167,6/293,0	23,9/100,8/174,3	24,2/101,4/174,6	45,8/87,8/120,3	28,3/53,3/72,5
Sound levels									
Sound power return + radiated	Lo/Med/Hi	dB(A)		54/60/63	52/66/72	54/66/74	52/66/72	65/73/75	65/73/75
Sound power discharge	Lo/Med/Hi	dB(A)		53/59/62	52/64/71	52/64/71	52/64/71	64/72/75	64/72/75
Sound pressure ³⁾	Lo/Med/Hi	dB(A)		33/39/42	31/45/51	31/45/51	31/45/51	44/52/54	44/52/54
Fan									
Number				1	1	1	1	1	1
Air flow 2-pipe	Lo/Med/Hi	m ³ /h		680/1091/1562	676/2110/3197	676/2110/3197	676/2110/3197	1927/3130/3923	1927/3130/3923
Air flow 4-pipe	Lo/Med/Hi	m ³ /h		552/1132/1496	676/2110/3197	676/2110/3197	676/2110/3197	1927/3130/3923	1927/3130/3923
Maximum external pressure		Pa		110	200	200	200	220	220
Filter				G3	G3	G3	G3	G3	G3
Electrical data									
Power supply	Voltage	V		230	230	230	230	230	230
	Phase			Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz		50/60	50/60	50/60	50/60	50/60	50/60
Power consumption	Lo/Med/Hi	W		132/182/222	180/421/675	180/421/675	180/421/675	420/530/673	420/530/673
Water connections									
Type				Female gas threaded	Gas Male threaded	Gas Male threaded	Gas Male threaded	Gas Male threaded	Gas Male threaded
2-pipe		Inch		1/2	1	1 1/4	1 1/4	1 1/4	1 1/4
	Cooling	Inch		1/2	1	1	1	1 1/4	1 1/4
4-pipe	Heating	Inch		1/2	3/4	3/4	3/4	3/4	3/4
Dimension and weight									
Dimension	H x W x D	mm		250 x 698 x 1200	375 x 798 x 1380	375 x 798 x 1380	375 x 798 x 1380	450 x 798 x 1500	450 x 798 x 1500
Weight		kg		42	63	65	67	76	80

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) Informative data: Considering an hypothetical sound attenuation of the room and installation of 21 dB.

Values indicated are for 50 Pa external static pressure, for additional pressure characteristics, please refer the selection software.

* High fan speed used for capacity, water flow, sound and air flow values.

Technical focus

- 6 sizes
- Cooling capacity from 4,1 to 21,9 kW
- Heating capacity from 4,7 to 21,5 kW
- 5-speed AC fan motor

Main features and accessories

- 2 and 4-pipe, left and right hand configurations
- Static pressure up to 220Pa
- Double skin insulation
- 2 way or 3 way ON / OFF valves
- Auxiliary drain pan
- Air intake with removable grid
- G3 filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C



Fan coils - High static pressure ducted (EC)



Optional controller.
Wired remote
controller with touch
control.
PAW-FC-907EC



Optional controller.
Wired remote
controller.
PAW-FC-903EC

2-pipe - Left connection			PAW-FC2E-E150L	PAW-FC2E-E180L	PAW-FC2E-E210L	PAW-FC2E-E240L	PAW-FC2E-E270L
2-pipe - Right connection			PAW-FC2E-E150R	PAW-FC2E-E180R	PAW-FC2E-E210R	PAW-FC2E-E240R	PAW-FC2E-E270R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	7,0/11,3/14,5	7,8/13,1/17,3	8,6/14,2/19,0	9,3/16,1/20,3	10,2/18,1/23,1
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	5,2/9,1/12,1	5,7/10,3/14,1	6,1/10,9/15,0	6,7/12,4/16,2	7,2/13,6/17,8
Water flow	Lo/Med/Hi	l/h	1207/1945/2498	1351/2259/2979	1476/2451/3275	1592/2766/3498	1751/3120/3972
Water pressure drop	Lo/Med/Hi	kPa	11,5/19,3/30,7	6,1/24,9/41,5	6,0/31,0/53,8	6,3/17,1/26,4	5,9/16,4/25,4
Heating capacity ²⁾	Lo/Med/Hi	kW	88/15,8/20,7	9,5/17,9/24,3	10,0/19,4/26,8	11,1/20,8/27,5	11,7/22,8/30,4
4-pipe - Left connection			PAW-FC4E-E150L	PAW-FC4E-E180L	PAW-FC4E-E210L	PAW-FC4E-E240L	PAW-FC4E-E270L
4-pipe - Right connection			PAW-FC4E-E150R	PAW-FC4E-E180R	PAW-FC4E-E210R	PAW-FC4E-E240R	PAW-FC4E-E270R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	5,9/9,1/11,6	6,6/10,2/13,0	7,9/12,6/16,4	8,4/14,0/17,5	8,9/15,3/19,5
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	4,5/7,6/10,1	4,9/8,4/11,2	5,8/9,9/13,4	6,2/11,0/14,2	6,5/11,8/15,5
Water flow	Lo/Med/Hi	l/h	1011/1567/2005	1141/1764/2243	1361/2175/2826	1447/2409/3020	1529/2641/3359
Water pressure drop	Lo/Med/Hi	kPa	4,9/11,1/17,7	6,5/14,7/23,2	7,6/27,5/45,4	6,2/15,9/24,5	5,5/14,5/22,4
Heating capacity ²⁾	Lo/Med/Hi	kW	3,6/5,8/7,3	6,1/10,0/12,8	6,1/10,1/12,9	4,8/8,3/10,3	4,7/8,2/10,5
Water flow	Lo/Med/Hi	l/h	621/991/1264	1052/1729/2211	1057/1734/2227	832/1421/1780	804/1407/1804
Water pressure drop	Lo/Med/Hi	kPa	20,7/45,6/70,1	30,7/74,1/116,4	30,8/74,5/118,0	19,6/55,9/78,7	7,2/33,9/48,9
Sound levels							
Sound power return + radiated	Lo/Med/Hi	dB(A)	56/67/74	56/67/74	56/67/74	58/69/76	58/69/76
Sound power discharge	Lo/Med/Hi	dB(A)	56/65/74	56/65/74	56/65/74	58/67/76	58/67/76
Sound pressure ³⁾	Lo/Med/Hi	dB(A)	35/46/52	35/46/52	35/46/52	37/48/54	37/48/54
Fan							
Number			1	1	1	1	1
Air flow 2-pipe	Lo/Med/Hi	m ³ /h	1071/2418/3583	1071/2418/3583	1071/2418/3583	1227/2700/3829	1227/2700/3829
Air flow 4-pipe	Lo/Med/Hi	m ³ /h	1071/2418/3583	1071/2418/3583	1071/2418/3583	1227/2700/3829	1227/2700/3829
Maximum external pressure		Pa	300	300	300	300	300
Filter			G3	G3	G3	G3	G3
Electrical data							
Power supply	Voltage	V	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Power consumption	Lo/Med/Hi	W	67/172/246	67/172/246	67/172/246	64/237/364	64/237/364
Water connections							
Type			Gas Male threaded	Gas Male threaded	Gas Male threaded	Gas Male threaded	Gas Male threaded
2-pipe		Inch	1	1 ¼	1 ¼	1 ¼	1 ¼
	Cooling	Inch	1	1	1	1 ¼	1 ¼
4-pipe	Heating	Inch	3/4	3/4	3/4	3/4	3/4
Dimension and weight							
Dimension	HxWxD	mm	375 x 798 x 1380	375 x 798 x 1380	375 x 798 x 1380	450 x 798 x 1500	450 x 798 x 1500
Weight		kg	63	65	67	76	80

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) Informative data: Considering an hypothetical sound attenuation of the room and installation of 21 dB.

Values indicated are for 50 Pa external static pressure, for additional pressure characteristics, please refer the selection software.

Technical focus

- 5 sizes
- Cooling capacity from 6,6 to 19,9 kW
- Heating capacity from 5,9 to 21,4 kW
- Low energy consumption EC fan

Main features and accessories

- 2 and 4-pipe, left and right hand configurations
- Static pressure up to 300Pa
- Double skin insulation
- 2 way or 3 way ON / OFF valves
- Auxiliary drain pan
- Air intake with removable grid
- G3 filter

Operating limits

Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C



Fan coils - 4 way cassette (AC)



Optional controller. Advanced wired remote controller. PAW-FC-RC1



Optional controller. Wired remote controller with touch control. PAW-FC-907AC



Optional controller. Wired remote controller. PAW-FC-903AC

2-pipe			PAW-FC2A-U020-2	PAW-FC2A-U030-2	PAW-FC2A-U040-2	PAW-FC2A-U050-2	PAW-FC2A-U060-2	PAW-FC2A-U070-2
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	1,5/1,8/2,4	1,9/2,7/4,0	2,8/3,5/4,7	3,4/4,4/6,1	3,7/5,4/7,2	4,0/6,5/8,6
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	1,3/1,5/2,0	1,4/2,2/3,0	2,1/2,6/3,6	2,6/3,4/4,8	2,7/4,0/5,4	3,0/4,8/6,4
Water flow	Lo/Med/Hi	l/h	265/303/404	323/493/683	478/597/801	576/762/142	636/937/1233	695/1111/1476
Water pressure drop	Lo/Med/Hi	kPa	4,3/6,8/10,9	3,6/8,5/14,4	6,9/11,2/18,3	8,4/13,0/21,9	3,4/7,5/11,5	5,6/13,0/20,5
Heating capacity ²⁾	Lo/Med/Hi	kW	2,2/2,5/3,2	2,3/3,7/4,5	3,7/4,6/6,2	4,5/6,0/8,1	4,5/7,4/10,0	5,2/9,2/12,0
4-pipe			PAW-FC4A-U020-2	PAW-FC4A-U030-2	PAW-FC4A-U040-2	—	PAW-FC4A-U060-2	PAW-FC4A-U070-2
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	1,4/1,5/2,0	2,0/2,7/3,4	2,5/3,3/4,0	—	3,0/4,9/6,6	3,2/6,0/7,5
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	1,2/1,4/1,8	1,5/2,1/2,6	2,0/2,6/3,2	—	2,3/3,8/5,1	2,5/4,6/5,9
Water flow	Lo/Med/Hi	l/h	232/258/359	342/465/576	437/563/683	—	511/851/1137	543/1030/1294
Water pressure drop	Lo/Med/Hi	kPa	6,6/8,9/13,6	4,4/8,3/11,6	6,7/11,2/15,3	—	6,0/13,9/22,2	7,1/18,9/27,5
Heating capacity ²⁾	Lo/Med/Hi	kW	0,8/0,9/1,2	2,2/3,1/3,8	3,0/3,5/4,1	—	3,7/5,5/7,0	4,5/7,1/8,9
Water flow	Lo/Med/Hi	l/h	132/153/201	374/530/658	521/603/699	—	636/939/1210	776/1214/1540
Water pressure drop	Lo/Med/Hi	kPa	25,7/33,4/53,6	13,7/24,2/35	24,2/30,9/39,8	—	7,6/13,8/20,7	10,2/20,8/30,9
Sound levels								
Global sound power 2-pipe	Lo/Med/Hi	dB(A)	36/40/49	35/47/53	42/48/57	35/40/49	38/46/54	40/52/59
Global sound power 4-pipe	Lo/Med/Hi	dB(A)	36/40/49	35/47/53	42/48/57	—	38/46/54	40/52/59
Global sound pressure 2-pipe ³⁾	Lo/Med/Hi	dB(A)	27/31/40	26/35/44	33/39/48	26/31/40	29/37/45	31/43/50
Global sound pressure 4-pipe ³⁾	Lo/Med/Hi	dB(A)	27/31/40	26/35/44	33/39/48	—	29/37/45	31/43/50
Fan								
Number			1	1	1	1	1	1
Air flow	Lo/Med/Hi	m ³ /h	360/450/659	320/504/734	486/626/900	529/720/979	500/824/1159	601/1080/1447
Filter			G1	G1	G1	G1	G1	G1
Electrical data								
Power supply	Voltage	V	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50
Power consumption 2-pipe	Lo/Med/Hi	W	25/35/58	17/34/58	38/58/99	28/41/66	34/61/88	44/92/125
Power consumption 4-pipe	Lo/Med/Hi	W	25/35/58	17/34/58	38/58/99	—	34/61/88	44/92/125
Water connections								
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe		Inch	3/4	3/4	3/4	1	1	1
	Cooling	Inch	3/4	3/4	3/4	—	1	1
4-pipe	Heating	Inch	1/2	1/2	1/2	—	3/4	3/4
Dimension and weight								
Dimension including panel	H x W x D	mm	334 x 720 x 720	334 x 720 x 720	334 x 720 x 720	339 x 960 x 960	339 x 960 x 960	339 x 960 x 960
Weight		kg	14,8	16,5	16,5	37,1	37,1	39,6
Panel reference			PAW-FC-KPY2040	PAW-FC-KPY2040	PAW-FC-KPY2040	PAW-FC-KPU5070	PAW-FC-KPU5070	PAW-FC-KPU5070

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) According to Eurovent standard. Air: 20 °C. Water in / out: 45 °C / 40 °C. 3) Information data considering an hypothetical sound attenuation of the room and installation of -9 dB(A).

Technical focus

- 6 sizes*
- Cooling capacity from 1,4 to 8,6 kW
- Heating capacity from 1,1 to 12,8 kW
- 3-speed AC fan motor

Main features and accessories

- 2 and 4-pipe configurations
- Very low acoustic levels
- Quick access, by simply removing the front grille
- All connections: located at the same side
- Galvanized steel sheet with thermal and acoustical insulation, avoiding condensation on the casing and providing good sound attenuation
- Cleanable synthetic-type air filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

* 5 sizes available for 4-pipe configuration.



Fan coils - 4 way cassette (EC)



Optional controller.
Wired remote
controller with touch
control.
PAW-FC-907EC



Optional controller.
Wired remote
controller.
PAW-FC-903EC

2-pipe			PAW-FC2E-U020-2	PAW-FC2E-U030-2	PAW-FC2E-U040-2	PAW-FC2E-U050-2	PAW-FC2E-U060-2	PAW-FC2E-U070-2
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	1,6/1,8/2,4	1,9/2,9/4,0	2,8/3,5/4,7	3,4/4,4/6,1	3,7/5,5/7,2	4,1/6,5/9,6
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	1,3/1,5/2,0	1,4/2,2/3,1	2,1/2,7/3,6	2,6/3,5/4,7	2,7/4,1/5,4	3,0/4,9/7,2
Water flow	Lo/Med/Hi	l/h	267/306/409	325/497/688	481/604/808	579/765/1050	640/944/1243	700/1119/1649
Water pressure drop	Lo/Med/Hi	kPa	4,2/6,9/11,2	3,5/8,6/14,6	6,8/11,4/18,6	8,4/13,1/22,2	3,4/7,6/11,7	5,8/13,1/24,6
Heating capacity ²⁾	Lo/Med/Hi	kW	2,2/2,5/3,2	2,3/3,7/4,5	3,7/4,6/6,2	4,5/6,0/8,1	4,5/7,4/10,0	5,2/9,2/13,0
4-pipe			PAW-FC4E-U020-2	PAW-FC4E-U030-2	PAW-FC4E-U040-2	—	PAW-FC4E-U060-2	PAW-FC4E-U070-2
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	1,4/1,5/2,0	2,0/2,7/3,4	2,6/3,2/4,0	—	3,0/5,0/6,6	3,2/6,1/7,9
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	1,2/1,4/1,9	1,5/2,1/2,6	2,1/2,6/3,3	—	2,3/3,8/5,1	2,6/4,7/6,3
Water flow	Lo/Med/Hi	l/h	234/262/344	344/464/581	442/556/690	—	516/858/1144	549/1041/1366
Water pressure drop	Lo/Med/Hi	kPa	6,6/9,1/14,0	4,4/8,2/11,7	6,7/10,9/15,5	—	6,0/14,1/22,4	7,2/19,2/30,1
Heating capacity ²⁾	Lo/Med/Hi	kW	0,8/0,9/1,2	2,2/3,1/3,8	3,0/3,5/4,1	—	3,7/5,5/7,0	4,5/7,1/9,8
Water flow	Lo/Med/Hi	l/h	132/153/201	374/530/658	521/603/699	—	636/939/1210	776/1214/1686
Water pressure drop	Lo/Med/Hi	kPa	25,7/33,4/53,6	13,7/24,2/35	24,2/30,9/39,8	—	7,6/13,8/20,7	10,2/20,8/36
Sound levels								
Global sound power 2-pipe	Lo/Med/Hi	dB(A)	36/40/49	35/47/53	42/48/57	35/40/49	38/46/54	40/52/59
Global sound power 4-pipe	Lo/Med/Hi	dB(A)	36/40/49	35/44/53	42/48/57	—	38/46/54	40/52/59
Global sound pressure 2-pipe ³⁾	Lo/Med/Hi	dB(A)	27/31/40	26/35/44	33/39/48	26/31/40	29/37/45	31/43/50
Global sound pressure 4-pipe ³⁾	Lo/Med/Hi	dB(A)	27/31/40	26/35/44	33/39/48	—	29/37/45	31/43/50
Fan								
Number			1	1	1	1	1	1
Air flow	Lo/Med/Hi	m ³ /h	360/450/659	320/504/734	486/626/900	529/720/979	500/824/1159	601/1080/1598
Filter			G1	G1	G1	G1	G1	G1
Electrical data								
Power supply	Voltage	V	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50
Power consumption 2-pipe	Lo/Med/Hi	W	9/13/29	7/14/32	13/22/57	7/12/25	9/23/25	11/40/115
Power consumption 4-pipe	Lo/Med/Hi	W	9/13/29	7/14/32	13/22/57	—	9/23/46	11/40/115
Water connections								
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe	Inch		3/4	3/4	3/4	1	1	1
4-pipe	Cooling	Inch	3/4	3/4	3/4	—	1	1
	Heating	Inch	1/2	1/2	1/2	—	3/4	3/4
Dimension and weight								
Dimension including panel	HxWxD	mm	334x720x720	334x720x720	334x720x720	339x960x960	339x960x960	339x960x960
Weight		kg	14,8	16,5	16,5	37,1	37,1	39,6
Panel reference			PAW-FC-KPY2040	PAW-FC-KPY2040	PAW-FC-KPY2040	PAW-FC-KPU5070	PAW-FC-KPU5070	PAW-FC-KPU5070

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) According to Eurovent standard. Air: 20 °C. Water in / out: 45 °C / 40 °C. 3) Information data considering an hypothetical sound attenuation of the room and installation of -9 dB(A).

Technical focus

- 6 sizes*
- Cooling capacity from 1,4 to 9,4 kW
- Heating capacity from 1,1 to 14,0 kW
- Low energy consumption EC fan

Main features and accessories

- 2 and 4-pipe configurations
- Very low acoustic levels
- Quick access, by simply removing the front grille
- All connections: located at the same side
- Galvanized steel sheet with thermal and acoustical insulation, avoiding condensation on the casing and providing good sound attenuation
- Cleanable synthetic-type air filter

Operating limits

Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

* 5 sizes available for 4-pipe configuration.



Fan coils - ceiling chassis (AC)



Optional controller. Advanced wired remote controller. PAW-FC-RC1



Optional controller. Wired remote controller with touch control. PAW-FC-907AC



Optional controller. Wired remote controller. PAW-FC-903AC

2-pipe - Left connection (PAW-)			FC2A-T010L	FC2A-T020L	FC2A-T030L	FC2A-T040L	FC2A-T050L	FC2A-T060L	FC2A-T070L	FC2A-T080L
2-pipe - Right connection (PAW-)			FC2A-T010R	FC2A-T020R	FC2A-T030R	FC2A-T040R	FC2A-T050R	FC2A-T060R	FC2A-T070R	FC2A-T080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,7/1,0/1,5	0,7/1,2/1,7	1,0/2,0/2,5	1,2/2,4/3,2	1,7/3,2/4,6	2,7/4,6/5,8	3,4/6,1/7,3	4,6/6,1/8,1
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/0,8/1,1	0,6/0,9/1,3	0,8/1,5/1,9	0,9/1,8/2,3	1,2/2,2/3,3	1,9/3,3/4,5	2,4/4,3/5,1	3,4/4,6/6,3
Water flow	Lo/Med/Hi	l/h	124/172/250	127/213/289	172/341/430	206/413/547	296/544/798	466/784/1003	587/1058/1252	798/1048/1400
Water pressure drop	Lo/Med/Hi	kPa	10,7/19,5/39,2	1,9/3,9/6,3	6,3/19,3/28,8	5,4/17,1/28,0	7,5/22,8/46,9	13,9/37,4/60,2	4,8/15,4/21,5	11,9/19,3/32,5
Heating capacity ²⁾	Lo/Med/Hi	kW	0,9/1,4/2,0	0,9/1,5/2,2	1,3/2,4/3,1	1,4/2,9/4,0	2,1/4,1/5,7	3,1/5,3/7,1	4,3/7,9/9,3	5,9/8,1/11,6
4-pipe - Left connection (PAW-)			FC4A-T010L	FC4A-T020L	FC4A-T030L	FC4A-T040L	FC4A-T050L	FC4A-T060L	FC4A-T070L	FC4A-T080L
4-pipe - Right connection (PAW-)			FC4A-T010R	FC4A-T020R	FC4A-T030R	FC4A-T040R	FC4A-T050R	FC4A-T060R	FC4A-T070R	FC4A-T080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,7/0,9/1,3	0,6/1,1/1,6	1,0/1,9/2,4	1,1/2,3/3,0	1,7/3,0/4,3	2,6/4,4/5,6	3,3/5,9/6,9	4,5/5,9/8,0
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/0,7/1,0	0,5/0,8/1,2	0,8/1,5/1,8	0,8/1,7/2,2	1,2/2,2/3,1	1,8/3,2/4,3	2,3/4,2/4,9	3,3/4,4/6,2
Water flow	Lo/Med/Hi	l/h	114/159/225	109/192/268	165/327/414	194/388/517	284/522/748	449/756/967	575/1019/1193	775/1020/1380
Water pressure drop	Lo/Med/Hi	kPa	8,3/15,2/29,0	1,5/3,4/5,6	3,0/9,5/14,4	6,4/22,3/36,8	4,2/12,8/25,1	10,2/27,7/44,5	5,9/17,9/24,4	19,3/31,1/53,6
Heating capacity ²⁾	Lo/Med/Hi	kW	0,5/0,7/1,0	0,6/0,9/1,1	1,0/1,4/1,6	0,9/1,6/2,1	1,5/2,3/3,0	1,9/2,9/3,7	2,7/3,6/4,3	3,9/5,6/7,1
Water flow	Lo/Med/Hi	l/h	79/127/178	100/146/190	164/232/274	160/273/354	251/401/508	325/505/633	456/626/736	673/963/1226
Water pressure drop	Lo/Med/Hi	kPa	1,9/3,5/5,6	1,5/3,2/5,3	5,1/9,0/11,9	9,2/26,5/42,7	10,7/24,6/29,5	20,3/43,9/52,9	67,2/117,9/137,8	33,1/63,7/75
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64
Global sound pressure ³⁾	Lo/Med/Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow 2-pipe	Lo/Med/Hi	m ³ /h	111/190/283	105/179/265	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064	660/936/1397
Air flow 4-pipe	Lo/Med/Hi	m ³ /h	95/168/253	89/161/241	132/263/369	162/335/467	242/466/671	334/614/885	470/859/1012	634/905/1370
Filter			G2	G2	G2	G2	G2	G2	G2	G2
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	13/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188
Power consumption 4-pipe	Lo/Med/Hi	W	13/24/36	10/18/28	16/37/44	15/37/55	28/54/70	37/74/104	53/99/145	90/112/188
Water connections										
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
4-pipe	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension and weight										
Dimension	HxWxD	mm	225 x 766 x 477	225 x 766 x 477	225 x 951 x 477	225 x 1136 x 477	225 x 1321 x 477	225 x 1506 x 477	225 x 1319 x 477	225 x 1506 x 477
Weight	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37	47/49

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.

Technical focus

- Cooling capacity from 0,7 to 8,1 kW
- Heating capacity from 0,7 to 10,3 kW
- 5-speed AC fan motor(s)

Main features and accessories

- 2 and 4-pipe configurations
- Left or right hand arrangements
- Ease of installation
- Very low acoustic levels
- 2 way or 3 way ON / OFF valves
- Auxiliary drain pan
- Air intake with removable grid
- G2 filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C



Fan coils - ceiling chassis (EC)



Optional controller.
Wired remote
controller with touch
control.
PAW-FC-907EC



Optional controller.
Wired remote
controller.
PAW-FC-903EC

2-pipe - Left connection (PAW-)			FC2E-T010L	FC2E-T020L	FC2E-T030L	FC2E-T040L	FC2E-T050L	FC2E-T060L	FC2E-T070L	FC2E-T080L
2-pipe - Right connection (PAW-)			FC2E-T010R	FC2E-T020R	FC2E-T030R	FC2E-T040R	FC2E-T050R	FC2E-T060R	FC2E-T070R	FC2E-T080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,6/1,2/2,1	0,6/1,4/2,4	0,9/2,1/3,1	1,3/2,9/4,2	1,3/4,0/5,0	2,0/4,5/5,2	2,7/5,9/6,9	5,1/6,5/8,8
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/1,1/1,9	0,5/1,1/1,9	0,6/1,6/2,4	1,0/2,1/3,0	1,1/3,0/3,7	1,4/3,5/4,0	2,0/4,3/5,2	3,7/4,8/6,6
Water flow	Lo/Med/Hi	l/h	107/210/356	110/237/406	148/354/532	230/506/722	231/685/743	341/767/800	463/1008/1098	879/1111/1254
Water pressure drop	Lo/Med/Hi	kPa	8,2/28,2/76,9	1,5/4,6/11,0	5,0/20,5/42,1	6,4/24,4/46,3	4,9/35,1/41,0	7,8/35,8/38,8	3,0/14,0/16,6	14,1/21,4/26,6
Heating capacity ²⁾	Lo/Med/Hi	kW	0,8/1,6/2,9	0,9/1,9/3,3	1,0/2,2/3,4	1,4/3,0/5,3	1,7/5,2/5,5	2,3/5,9/6,1	3,8/7,3/8,2	6,2/8,0/9,3
4-pipe - Left connection (PAW-)			FC4E-T010L	FC4E-T020L	FC4E-T030L	FC4E-T040L	FC4E-T050L	FC4E-T060L	FC4E-T070L	FC4E-T080L
4-pipe - Right connection (PAW-)			FC4E-T010R	FC4E-T020R	FC4E-T030R	FC4E-T040R	FC4E-T050R	FC4E-T060R	FC4E-T070R	FC4E-T080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/1,1/1,9	0,6/1,2/2,2	0,8/1,9/2,9	1,2/2,7/4,0	1,2/3,6/4,6	1,8/4,1/4,9	2,6/5,1/6,4	5,0/6,2/9,6
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,4/0,9/1,7	0,4/1,0/1,8	0,6/1,5/2,2	0,9/1,9/2,8	1,0/2,8/3,5	1,2/3,2/3,8	1,9/3,8/4,8	3,6/4,6/7,2
Water flow	Lo/Med/Hi	l/h	92/185/327	97/206/375	129/321/493	205/457/681	212/625/686	306/707/749	443/886/977	855/1070/1242
Water pressure drop	Lo/Med/Hi	kPa	5,8/20,1/59,2	1,3/3,7/9,7	4,0/9,2/19,7	6,3/29,6/60,1	2,5/17,9/21,3	5,1/24,3/27,2	3,5/13,6/16,5	22,9/33,9/44,3
Heating capacity ²⁾	Lo/Med/Hi	kW	0,4/0,8/1,4	0,6/0,9/1,5	1,0/1,4/1,8	1,2/2,0/2,8	1,6/2,4/2,5	1,4/2,9/3,1	2,5/3,4/3,6	4,5/5,9/6,9
Water flow	Lo/Med/Hi	l/h	76/140/235	95/161/255	166/243/304	204/350/483	267/416/438	233/503/531	434/583/614	767/1011/1194
Water pressure drop	Lo/Med/Hi	kPa	1,8/4,0/8,4	1,4/3,8/9,4	5,3/9,7/14,1	15,6/41,8/76,3	11,9/26,3/28,9	11,5/43,6/48,1	61,5/103,8/113,9	42,1/69,7/95,1
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	40/54/59	51/56/64
Global sound pressure ³⁾	Lo/Med/Hi	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow 2-pipe	Lo/Med/Hi	m ³ /h	108/228/417	98/234/413	145/380/585	170/412/678	203/645/816	245/737/912	350/850/1050	685/927/1398
Air flow 4-pipe	Lo/Med/Hi	m ³ /h	91/199/379	84/200/380	123/342/540	148/369/627	185/587/646	205/668/716	329/798/894	660/884/1079
Filter			G2	G2	G2	G2	G2	G2	G2	G2
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	5/11/41	5/13/41	4/16/42	2/13/43	4/24/46	2/30/54	11/44/77	23/42/108
Power consumption 4-pipe	Lo/Med/Hi	W	5/11/39	5/13/40	6/15/40	2/12/42	2/23/44	2/28/52	11/43/75	22/41/116
Water connections										
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
4-pipe	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension and weight										
Dimension	HxWxD	mm	225 x 766 x 477	225 x 766 x 477	225 x 951 x 477	225 x 1136 x 477	225 x 1321 x 477	225 x 1506 x 477	225 x 1319 x 477	225 x 1506 x 477
Weight	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37	47/49

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.

Technical focus

- Cooling capacity from 0,5 to 9,6 kW
- Heating capacity from 0,6 to 13,6 kW
- Low energy consumption EC fan(s)

Main features and accessories

- 2 and 4-pipe configurations
- Left or right hand arrangements
- Ease of installation
- Very low acoustic levels
- 2 way or 3 way ON / OFF valves
- Auxiliary drain pan
- Air intake with removable grid
- G2 filter

Operating limits

Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C



Fan coils - floor-standing chassis (AC)



Optional controller. Advanced wired remote controller. PAW-FC-RC1



Optional controller. Wired remote controller with touch control. PAW-FC-907AC



Optional controller. Wired remote controller. PAW-FC-903AC

2-pipe - Left connection (PAW-)			FC2A-P010L	FC2A-P020L	FC2A-P030L	FC2A-P040L	FC2A-P050L	FC2A-P060L	FC2A-P070L	FC2A-P080L
2-pipe - Right connection (PAW-)			FC2A-P010R	FC2A-P020R	FC2A-P030R	FC2A-P040R	FC2A-P050R	FC2A-P060R	FC2A-P070R	FC2A-P080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,7/1,0/1,5	0,7/1,2/1,7	1,0/2,0/2,5	1,2/2,4/3,2	1,7/3,2/4,6	2,7/4,6/5,8	3,4/6,1/7,3	4,6/6,1/8,1
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/0,8/1,1	0,6/0,9/1,3	0,8/1,5/1,9	0,9/1,8/2,3	1,2/2,2/3,3	1,9/3,3/4,5	2,4/4,3/5,1	3,4/4,6/6,3
Water flow	Lo/Med/Hi	l/h	124/172/250	127/213/289	172/341/430	206/413/547	296/544/798	466/784/1003	587/1058/1252	798/1048/1400
Water pressure drop	Lo/Med/Hi	kPa	10,7/19,5/39,2	1,9/3,9/6,3	6,3/19,3/28,8	5,4/17,1/28,0	7,5/22,8/46,9	13,9/37,4/60,2	4,8/15,4/21,5	11,9/19,3/32,5
Heating capacity ²⁾	Lo/Med/Hi	kW	0,9/1,4/2,0	0,9/1,5/2,2	1,3/2,4/3,1	1,4/2,9/4,0	2,1/4,1/5,7	3,1/5,3/7,1	4,3/7,9/9,3	5,9/8,1/11,6
4-pipe - Left connection (PAW-)			FC4A-P010L	FC4A-P020L	FC4A-P030L	FC4A-P040L	FC4A-P050L	FC4A-P060L	FC4A-P070L	FC4A-P080L
4-pipe - Right connection (PAW-)			FC4A-P010R	FC4A-P020R	FC4A-P030R	FC4A-P040R	FC4A-P050R	FC4A-P060R	FC4A-P070R	FC4A-P080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,7/0,9/1,3	0,6/1,1/1,6	1,0/1,9/2,4	1,1/2,3/3,0	1,7/3,0/4,3	2,6/4,4/5,6	3,3/5,9/6,9	4,5/5,9/8,0
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/0,7/1,0	0,5/0,8/1,2	0,8/1,5/1,8	0,8/1,7/2,2	1,2/2,2/3,1	1,8/3,2/4,3	2,3/4,2/4,9	3,3/4,4/6,2
Water flow	Lo/Med/Hi	l/h	114/159/225	109/192/268	165/327/414	194/388/517	284/522/748	449/756/967	575/1019/1193	775/1020/1380
Water pressure drop	Lo/Med/Hi	kPa	8,3/15,2/29,0	1,5/3,4/5,6	3,0/9,5/14,4	6,4/22,3/36,8	4,2/12,8/25,1	10,2/27,7/44,5	5,9/17,9/24,4	19,3/31,1/53,6
Heating capacity ²⁾	Lo/Med/Hi	kW	0,5/0,7/1,0	0,6/0,9/1,1	1,0/1,4/1,6	0,9/1,6/2,1	1,5/2,3/3,0	1,9/2,9/3,7	2,7/3,6/4,3	3,9/5,6/7,1
Water flow	Lo/Med/Hi	l/h	79/127/178	100/146/190	164/232/274	160/273/354	251/401/508	325/505/633	456/626/736	673/963/1226
Water pressure drop	Lo/Med/Hi	kPa	1,9/3,5/5,6	1,5/3,2/5,3	5,1/9,0/11,9	9,2/26,5/42,7	10,7/24,6/29,5	20,3/43,9/52,9	67,2/117,9/137,8	33,1/63,7/75
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64
Global sound pressure ³⁾	Lo/Med/Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow 2-pipe	Lo/Med/Hi	m ³ /h	111/190/283	105/179/265	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064	660/936/1397
Air flow 4-pipe	Lo/Med/Hi	m ³ /h	95/168/253	89/161/241	132/263/369	162/335/467	242/466/671	334/614/885	470/859/1012	634/905/1370
Filter			G2	G2	G2	G2	G2	G2	G2	G2
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	13/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188
Power consumption 4-pipe	Lo/Med/Hi	W	13/24/36	10/18/28	16/37/44	15/37/55	28/54/70	37/74/104	53/99/145	90/112/188
Water connections										
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
4-pipe	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension and weight										
Dimension ⁴⁾	HxWxD	mm	477 x 225 x 766	766 x 225 x 477	477 x 225 x 951	477 x 225 x 1136	477 x 225 x 1321	477 x 225 x 1506	575 x 225 x 1319	575 x 225 x 1506
Weight	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37	47/49

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds. 4) Without support feet.

Technical focus

- Cooling capacity from 0,7 to 8,1 kW
- Heating capacity from 0,7 to 10,3 kW
- 5-speed AC fan motor(s)

Main features and accessories

- 2 and 4-pipe configurations
- Left or right hand arrangements
- Ease of installation
- Very low acoustic levels
- 2 way or 3 way ON / OFF valves
- Auxiliary drain pan
- Air intake with removable grid
- G2 filter
- PAW-FC-FSF feet for floor-standing units

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C





Fan coils - floor-standing chassis (EC)



Optional controller.
Wired remote
controller with touch
control.
PAW-FC-907EC



Optional controller.
Wired remote
controller.
PAW-FC-903EC

2-pipe - Left connection (PAW-)			FC2E-P010L	FC2E-P020L	FC2E-P030L	FC2E-P040L	FC2E-P050L	FC2E-P060L	FC2E-P070L	FC2E-P080L
2-pipe - Right connection (PAW-)			FC2E-P010R	FC2E-P020R	FC2E-P030R	FC2E-P040R	FC2E-P050R	FC2E-P060R	FC2E-P070R	FC2E-P080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,6/1,2/2,1	0,6/1,4/2,4	0,9/2,1/3,1	1,3/2,9/4,2	1,3/4,0/5,0	2,0/4,5/5,2	2,7/5,9/6,9	5,1/6,5/8,8
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/1,1/1,9	0,5/1,1/1,9	0,6/1,6/2,4	1,0/2,1/3,0	1,1/3,0/3,7	1,4/3,5/4,0	2,0/4,3/5,2	3,7/4,8/6,6
Water flow	Lo/Med/Hi	l/h	107/210/356	110/237/406	148/354/532	230/506/722	231/685/743	341/767/800	463/1008/1098	879/1111/1254
Water pressure drop	Lo/Med/Hi	kPa	8,2/28,2/76,9	1,5/4,6/11,0	5,0/20,5/42,1	6,4/24,4/46,3	4,9/35,1/41,0	7,8/35,8/38,8	3,0/14,0/16,6	14,1/21,4/26,6
Heating capacity ²⁾	Lo/Med/Hi	kW	0,8/1,6/2,9	0,9/1,9/3,3	1,0/2,2/3,4	1,4/3,0/5,3	1,7/5,2/5,5	2,3/5,9/6,1	3,8/7,3/8,2	6,2/8,0/9,3
4-pipe - Left connection (PAW-)			FC4E-P010L	FC4E-P020L	FC4E-P030L	FC4E-P040L	FC4E-P050L	FC4E-P060L	FC4E-P070L	FC4E-P080L
4-pipe - Right connection (PAW-)			FC4E-P010R	FC4E-P020R	FC4E-P030R	FC4E-P040R	FC4E-P050R	FC4E-P060R	FC4E-P070R	FC4E-P080R
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	0,5/1,1/1,9	0,6/1,2/2,2	0,8/1,9/2,9	1,2/2,7/4,0	1,2/3,6/4,6	1,8/4,1/4,9	2,6/5,1/6,4	5,0/6,2/9,6
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,4/0,9/1,7	0,4/1,0/1,8	0,6/1,5/2,2	0,9/1,9/2,8	1,0/2,8/3,5	1,2/3,2/3,8	1,9/3,8/4,8	3,6/4,6/7,2
Water flow	Lo/Med/Hi	l/h	92/185/327	97/206/375	129/321/493	205/457/681	212/625/686	306/707/749	443/886/977	855/1070/1242
Water pressure drop	Lo/Med/Hi	kPa	5,8/20,1/59,2	1,3/3,7/9,7	4,0/9,2/19,7	6,3/29,6/60,1	2,5/17,9/21,3	5,1/24,3/27,2	3,5/13,6/16,5	22,9/33,9/44,3
Heating capacity ²⁾	Lo/Med/Hi	kW	0,4/0,8/1,4	0,6/0,9/1,5	1,0/1,4/1,8	1,2/2,0/2,8	1,6/2,4/2,5	1,4/2,9/3,1	2,5/3,4/3,6	4,5/5,9/6,9
Water flow	Lo/Med/Hi	l/h	76/140/235	95/161/255	166/243/304	204/350/483	267/416/438	233/503/531	434/583/614	767/1011/1194
Water pressure drop	Lo/Med/Hi	kPa	1,8/4,0/8,4	1,4/3,8/9,4	5,3/9,7/14,1	15,6/41,8/76,3	11,9/26,3/28,9	11,5/43,6/48,1	61,5/103,8/113,9	42,1/69,7/95,1
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	40/54/59	51/56/64
Global sound pressure ³⁾	Lo/Med/Hi	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow 2-pipe	Lo/Med/Hi	m ³ /h	108/228/417	98/234/413	145/380/585	170/412/678	203/645/816	245/737/912	350/850/1050	685/927/1398
Air flow 4-pipe	Lo/Med/Hi	m ³ /h	91/199/379	84/200/380	123/342/540	148/369/627	185/587/646	205/668/716	329/798/894	660/884/1079
Filter			G2	G2	G2	G2	G2	G2	G2	G2
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	5/11/41	5/13/41	4/16/42	2/13/43	4/24/46	2/30/54	11/44/77	23/42/108
Power consumption 4-pipe	Lo/Med/Hi	W	5/11/39	5/13/40	6/15/40	2/12/42	2/23/44	2/28/52	11/43/75	22/41/116
Water connections										
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe	Inch		1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
4-pipe	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension and weight										
Dimension ⁴⁾	HxWxD	mm	477 x 225 x 766	766 x 225 x 477	477 x 225 x 951	477 x 225 x 1136	477 x 225 x 1321	477 x 225 x 1506	575 x 225 x 1319	575 x 225 x 1506
Weight	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37	47/49

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds. 4) Without support feet.

Technical focus

- Cooling capacity from 0,5 to 9,6 kW
- Heating capacity from 0,6 to 13,6 kW
- Low energy consumption EC fan(s)

Main features and accessories

- 2 and 4-pipe configurations
- Left or right hand arrangements
- Ease of installation
- Very low acoustic levels
- 2 way or 3 way ON / OFF valves
- Auxiliary drain pan
- Air intake with removable grid
- G2 filter
- PAW-FC-FSF feet for floor-standing units

Operating limits

Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C



Fan coils - wall-mounted (AC)



Optional controller.
Advanced wired
remote controller.
PAW-FC-RC1



Optional controller.
Wired remote
controller with
touch control.
PAW-FC-907AC



Optional
controller.
Wired remote
controller.
PAW-FC-903AC



Infrared remote
supplied with IR
versions.
IR Controller

2-pipe			PAW-FC2A-K007	PAW-FC2A-K009	PAW-FC2A-K018	PAW-FC2A-K022
			PAW-FC2A-K007IR	PAW-FC2A-K009IR	PAW-FC2A-K018IR	PAW-FC2A-K022IR
Total cooling capacity ¹⁾	Lo/Med/Hi	kW	1,0/1,3/1,7	1,6/1,7/2,4	2,8/3,0/3,5	2,9/3,1/3,9
Sensible cooling capacity ¹⁾	Lo/Med/Hi	kW	0,7/1,0/1,2	1,2/1,3/1,9	2,1/2,3/2,7	2,3/2,5/3,1
Water flow	Lo/Med/Hi	l/h	172/231/287	270/291/418	483/508/609	502/535/669
Water pressure drop	Lo/Med/Hi	kPa	18,6/24,9/30,9	18,5/27,0/40,0	34,6/41,3/55,6	37,2/33,7/45,2
Heating capacity ²⁾	Lo/Med/Hi	kW	1,4/1,7/2,0	1,7/2,0/2,7	2,9/3,2/4,0	3,1/3,7/4,4
Sound levels						
Sound power	Lo/Med/Hi	dB(A)	45/49/51	47/52/57	49/53/59	56/59/63
Sound pressure ³⁾	Lo/Med/Hi	dB(A)	32/36/38	34/39/44	40/43/46	43/46/50
Fan						
Number			1	1	1	1
Air flow	Lo/Med/Hi	m ³ /h	282/321/360	367/413/551	532/592/680	617/709/850
Filter			G1	G1	G1	G1
Electrical data						
Power supply	Voltage	V	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50
Fuse rating		A	3	3	3	3
Power consumption	Lo/Med/Hi	W	39/42/62	30/47/59	44/50/55	50/55/70
Water connections						
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Water connections		Inch	1/2	1/2	1/2	1/2
Dimension and weight						
Dimension	HxWxD	mm	275 x 180 x 845	275 x 180 x 845	298 x 200 x 940	298 x 200 x 940
Weight		kg	11	11	13	13

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) According to Eurovent standard. Air: 20 °C. Water in / out: 45 °C / 40 °C. 3) Sound pressure considering a local of 100 m³ a reverberation time of 0,5 seconds and a distance of 1 m.

Technical focus

- 4 sizes
- Cooling capacity from 1,0 to 3,9 kW
- Heating capacity from 1,4 to 4,1 kW
- Version: 2-pipes, AC fan

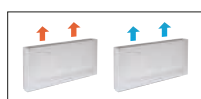
Main features and accessories

- 2 way or 3 way valve ON / OFF
- 3-speed AC fan motor
- Silent unit for optimum customer comfort
- Aesthetic design suitable for residential and hotel applications
- Compatible with IR controller (supplied with IR versions)
- Coil with hydrophilic fins to improve the condensate flow

Operating limits	
Entering water temperature	From 5 to 60 °C
Indoor air temperature	From 6 to 40 °C



Smart fan coils



Built-in advanced thermostat.

		PAW-AAIR-200-2	PAW-AAIR-700-2	PAW-AAIR-900-2	
Total cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,6	0,8/1,0/1,2	1,2/1,5/1,7
Sensible cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,5	0,6/0,9/1,1	1,1/1,4/1,6
Water flow	Lo/Med/Hi	kg/h	40,0/59,0/95,0	129,0/178,0/207,0	198,0/261,0/300,0
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	1,0/2,0/2,0	6,0/9,0/12,0
Inlet water temperature		°C	10	10	10
Outlet water temperature		°C	15	15	15
Inlet air temperature		°C	27,0	27,0	27,0
Outlet air temperature	Lo/Med/Hi	°C	15,0/17,0/18,0	14,0/16,0/17,0	16,0/17,0/18,0
Relative humidity of inlet air		%	47	47	47
Total heating capacity	Lo/Med/Hi	kW	0,2/0,5/0,6	0,7/1,0/1,2	0,9/1,4/1,7
Water flow	Lo/Med/Hi	kg/h	37,3/80,8/98,0	121,8/177,5/204,3	152,4/244,2/292,9
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	0,3/0,8/1,0	0,5/1,6/2,2
Inlet water temperature		°C	35	35	35
Outlet water temperature		°C	30	30	30
Inlet air temperature		°C	19,0	19,0	19,0
Outlet air temperature	Lo/Med/Hi	°C	38,9/32,0/30,0	33,3/31,8/30,6	30,2/31,1/30,6
Air flow	Lo/Med/Hi	m ³ /min	0,9/1,9/2,7	2,6/4,2/5,3	4,1/6,1/7,7
Maximum input power	Lo/Med/Hi	W	7,0/9,0/13,0	14,0/18,0/22,0	16,0/20,0/24,0
Sound pressure	Lo/Med/Hi	dB(A)	23/33/40	24/36/42	25/36/44
Dimension (HxWxD)		mm	735x579x129	935x579x129	1135x579x129
Net weight		kg	17	20	23
3 Ways valve included			Yes	Yes	Yes
Touch screen thermostat			Yes	Yes	Yes

* Smart fan coils is produced by Innova.

Accessories

PAW-AAIR-LEGS-1 Kits of 2 legs to protect the water pipings

Accessories

PAW-AAIR-RHCABLE Motor connection cable for units with hydraulic connections on the right

Stylish floor-standing fan coils with advanced controller

The slimline of Smart fan coils delivers high efficiency climate control.

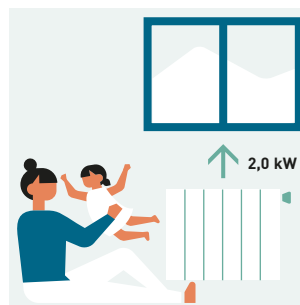
With a depth of just under 130 mm they are at the cutting edge of the market. Blending easily into the home, Smart fan coil's elegant design and product refinements are clear to see in every detail.

Exceptional ventilation efficiency means the motor uses considerably less energy (low wattage). The fan speed is continuously modulated by the temperature controller with proportional integral logic, with undoubted advantages for regulating the temperature and humidity in summer mode.

Technical focus

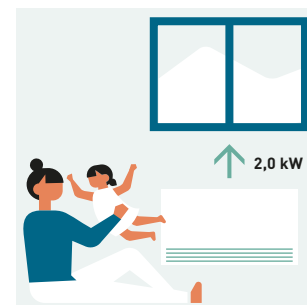
- 4 operation modes (auto, silent, night-time and maximum ventilation speed)
- Exclusive design
- Extremely compact (only 129 mm deep)
- Cooling and dehumidification functions possible (drain is needed)
- 3-way valve included (no overflow valve needed on the installation if more than 3 units installed)
- Touch screen thermostat

With standard cast radiators.



Water at 65 °C needed.

With Smart fan coil.



Water at 35 °C needed.

All temperature curves and capacity are available on www.panasonicproclub.com

PRO Club 



Control and connectivity



Simple user friendly control for outdoor units

A control panel with intuitive design is equipped on all ECOi-W systems as standard. The microprocessor based control has a new IHM logic and implements a smart handling for your demand.

Basic operation.

- ON / OFF setting
- Cooling / Heating mode setting

Energy Saving.

- Intelligent logic control for inlet water temperature
- Night setback operation to reduce electrical consumption and noise
- Part load operating mode
- Maximum discharge temperature control

Service / Maintenance.

- Automatic test operation at the push of a button
- Alarm notice with the latest 10 alarms
- Counter for operating hours of compressor and pump
- Compressor operating limits saved in a flash memory

Others.

- BMS compatible (RS485 ModBus RTU or BACnet MSTP protocol)



Remote control kit

PAW-SYSREMKIT for R410A models

PAW-SYSREMKIT1 for R32 models

Simple remote control for the need to be installed remotely from the units.

Features:

- 8 lines of display with selectable blue and white back light
- Push-and-roll knob for easy operation
- Schedule function
- Alarm button with LED indicator
- Firmware can be upgraded via USB interface



New remote monitoring service ECOi-W Cloud

PAW-CM000SP041

Remote access in real time to optimise the service and maintenance work.
Alarm notification via e-mail.
Reporting and graph visualization with 300 varieties.
Various LED signals on the hardware to check the status on site.

Technical focus:

- Maximum 10 outdoor units connectable
- Modbus RTU is required
- History of data interval up to 5 minutes
- 4G SIM card fitted
- IP65 casing
- Optional antenna is available in the case that 4G signal is not good enough



Wired controllers for AC and EC fan coils

Advanced wired remote controller (AC)

PAW-FC-RC1

This advanced controller provides a higher level of comfort in heating. The sensor can be used as a water flow sensor, stopping the fan when the water temperature is low, avoiding cold drafts in winter.

Features:

- For 2-pipe and 4-pipe, AC fan
- Change Over function (cold draft prevention)
- Room thermostat
- 3 outputs, 230 V relays for fan control
- 2 outputs, 230 V relays for heating / cooling control
- Connection to BMS - Modbus RTU slave
- 1 DI for presence detection (key card switch)
- 1 AI for sensor



Wired remote controller (AC/EC)

Stylish and sophisticated design with backlit LCD display, is suitable for installation within a wide variety of locations such as office, hotel and residential applications. By connecting the controller to the range of AC/EC fan coils, the user can take advantage of the improved performance, higher levels of efficiency and thus improved energy savings.

PAW-FC-907AC

Features:

- For 2-pipe, AC fan
- Back lit LCD screen with touch control
- 3 speed control relay, for fan
- Economizer

PAW-FC-907EC

Features:

- For 2-pipe and 4-pipe, EC fan
- Back lit LCD screen with touch control
- Adjustable range EC fan control
- Economizer
- Connection to BMS via Modbus
- 1 DI for presence detection (key card switch)



Wired remote controller (AC/EC)

Feature rich and perfectly adapted to control AC/EC fan coils, the PAW-FC-903AC/EC is the addition for any fan coil. With intuitive user interface provided by the push button control and large LCD display, it will fit seamlessly with almost any location.

PAW-FC-903AC

Features:

- For 2-pipe, AC fan
- Back lit LCD screen
- 3 speed control relay, for fan
- Economizer







PAW-FC-903EC

Features:

- For 2-pipe and 4-pipe, EC fan
- Back lit LCD screen
- Adjustable range EC fan control
- Economizer
- Connection to BMS via Modbus
- 1 DI for presence detection (key card switch)



Accessories and control

<p>Wired remote controller for outdoor units</p>		<p>Remote monitoring service ECOi-W Cloud</p>		
 <p>Remote control for the need to be installed remotely from the units.</p> <p>-----</p> <p>PAW-SYSREMKIT</p>		 <p>Cloudgate plug and play IP65 box mobile 4G Europe.</p> <p>-----</p> <p>PAW-CM000SP041</p>	<p>Extension kit and cable gland for mobile (2/4G) antenna (3 m).</p> <p>-----</p> <p>PAW-CM000K0001</p>	<p>Tservice wireless fee for 1 year. Periodic prepaid subscriptions identified by software "tokens" loaded in customer's private portal.</p> <p>-----</p> <p>PAW-00SRTS011</p>
<p>Shut off valves</p>				<p>Victaulic connection kit</p>
 <p>Shut off valves kit for model 20 - 40.</p> <p>-----</p> <p>PAW-SYSSOV1</p>		<p>Shut off valves kit for model 45 - 75.</p> <p>-----</p> <p>PAW-SYSSOV2</p>	<p>Shut off valves kit for model 90 - 125.</p> <p>-----</p> <p>PAW-SYSSOV3</p>	<p>Victaulic connection kit for model 140 - 210.</p> <p>-----</p> <p>PAW-SYSVICTH</p>
<p>Wired remote controller for fan coil</p>				
 <p>Advanced wired remote controller for fan coil.</p> <p>-----</p> <p>PAW-FC-RC1</p>		 <p>Wired remote controller with touch control for 2-pipe and 4-pipe, EC fan coil (control + Modbus).</p> <p>-----</p> <p>PAW-FC-907EC</p>		 <p>Wired remote controller for 2-pipe and 4-pipe, EC fan coil (control + Modbus).</p> <p>-----</p> <p>PAW-FC-903EC</p>
		<p>Wired remote controller with touch control for 2-pipe, AC fan coil (control only).</p> <p>-----</p> <p>PAW-FC-907AC</p>		<p>Wired remote controller for 2-pipe, AC fan coil (control only).</p> <p>-----</p> <p>PAW-FC-903AC</p>
<p>Fan coil ceiling, floor-standing and ducted valve accessories</p>				
<p>2 way valve + drain pan for 2-pipe ceiling, floor-standing and ducted models 010-060.</p> <p>-----</p> <p>PAW-FC-2WY-11/55-1</p>		<p>2 way valve + drain pan for 2-pipe ceiling, floor-standing and ducted models 070-080.</p> <p>-----</p> <p>PAW-FC-2WY-65/90-1</p>		<p>2 way valve + drain pan for 2-pipe ducted model F040.</p> <p>-----</p> <p>PAW-FC-2WY-F040</p>
<p>3 way valve + drain pan for 2-pipe ceiling, floor-standing and ducted models 010-060.</p> <p>-----</p> <p>PAW-FC-3WY-11/55-1</p>		<p>3 way valve + drain pan for 2-pipe ceiling, floor-standing and ducted models 070-080.</p> <p>-----</p> <p>PAW-FC-3WY-65/90-1</p>		<p>3 way valve + drain pan for 2-pipe ducted model F040.</p> <p>-----</p> <p>PAW-FC-3WY-F040</p>
<p>2 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted models 010-060.</p> <p>-----</p> <p>PAW-FC4-2WY-010</p>		<p>2 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted models 070-080.</p> <p>-----</p> <p>PAW-FC4-2WY-070</p>		<p>2 way valve + drain pan for 4-pipe ducted model F040.</p> <p>-----</p> <p>PAW-FC4-2WY-F040</p>

3 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted model 010. ----- PAW-FC4-3WY-010	3 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted models 020-060. ----- PAW-FC4-3WY-020	3 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted models 070-080. ----- PAW-FC4-3WY-070
3 way valve + drain pan for 4-pipe ducted model F040. ----- PAW-FC4-3WY-F040		

Fan coil high static ducted valve accessories

2 way valve + drain pan for 2-pipe high static ducted model E070. ----- PAW-FC2-2WY-E070	2 way valve + drain pan for 2-pipe high static ducted models E150-E180. ----- PAW-FC-2WY-150	2 way valve + drain pan for 2-pipe high static ducted models E210-E240. ----- PAW-FC2-2WY-E210
3 way valve + drain pan for 2-pipe high static ducted model E070. ----- PAW-FC2-3WY-E070	3 way valve + drain pan for 2-pipe high static ducted models E150-E180. ----- PAW-FC-3WY-150	3 way valve + drain pan for 2-pipe high static ducted models E210-E240. ----- PAW-FC2-3WY-E210
2 way valve + drain pan for 4-pipe high static ducted model E070. ----- PAW-FC4-2WY-E070	2 way valve + drain pan for 4-pipe high static ducted models E150-E180. ----- PAW-FC4-2WY-E150	2 way valve + drain pan for 4-pipe high static ducted models E210-E240. ----- PAW-FC4-2WY-E210
3 way valve + drain pan for 4-pipe high static ducted model E070. ----- PAW-FC4-3WY-E070	3 way valve + drain pan for 4-pipe high static ducted models E150-E180. ----- PAW-FC4-3WY-E150	3 way valve + drain pan for 4-pipe high static ducted models E210-E240. ----- PAW-FC4-3WY-E210

Fan coil cassette valve accessories

2 way valve + drain pan for 2-pipe cassette models U020-U040. ----- PAW-FC2-2WY-U020	2 way valve + drain pan for 2-pipe cassette models U050-U070. ----- PAW-FC2-2WY-U050	3 way valve + drain pan for 2-pipe cassette models U020-U040. ----- PAW-FC2-3WY-U020	3 way valve + drain pan for 2-pipe cassette models U050-U070. ----- PAW-FC2-3WY-U050
2 way valve + drain pan for 4-pipe cassette models U020-U040. ----- PAW-FC4-2WY-U020	2 way valve + drain pan for 4-pipe cassette models U050-U070. ----- PAW-FC4-2WY-U050	3 way valve + drain pan for 4-pipe cassette models U020-U040. ----- PAW-FC4-3WY-U020	3 way valve + drain pan for 4-pipe cassette models U050-U070. ----- PAW-FC4-3WY-U050

Fan coil wall-mounted valve accessories

2 way valve for 2-pipe wall-mounted K007-K022. ----- PAW-FC2-2WY-K007	3 way valve for 2-pipe wall-mounted k007-K022. ----- PAW-FC2-3WY-K007
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Smart fan coil accessories

Kits of 2 legs to protect the water pipings. ----- PAW-AAIR-LEGS-1	Motor connection cable for units with hydraulic connections on the right. ----- PAW-AAIR-RHCABLE
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Hagenauer Strasse 43, 65203 Wiesbaden, Germany



Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of the other refrigerant.
The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.

