

Panasonic

*ECO*i*-W*

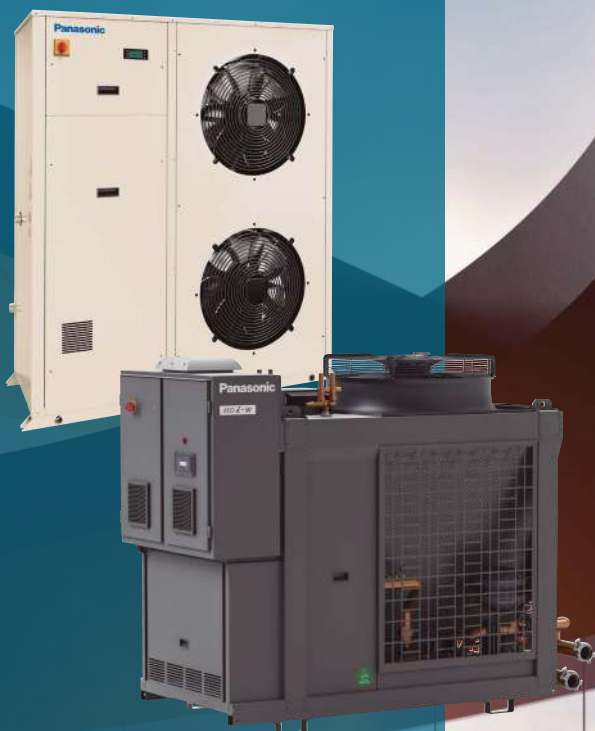
CHILLERS, HEAT PUMPS AND WATER SOURCE HEAT PUMPS 2026 / 2027

TOTAL HVAC&R SOLUTION



heating & cooling solutions

ECO i - W



Chillers, heat pumps and water source heat pumps

These new Series provide a wide variety of HVAC system solutions, to meet all of your commercial and industrial needs.

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The reasons to choose Panasonic as your partner

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.



A wide variety of HVAC system solutions



Panasonic solutions to suit a variety of commercial and industrial applications. Our systems provide the optimal performance in any climatic conditions.

Air cooled chillers, heat pumps and condensing units - ECOi-W

The ECOi-W hydronic systems are perfect for any type of building. The air cooled chiller variant of the system is also a fundamental part of many industrial processes.



Water cooled chillers, heat pumps and condenserless units - ECOi-W

This system is particularly well suited for applications such as office buildings, hotels, shopping centers and hospitals.



Water source heat pumps - ECOi-LOOP

Water source heat pumps are ideal for best in class hotels, offices or shopping centers. ECOi-LOOP solutions offer improved comfort by having several different indoor climates inside a building, while maintaining the energy through an internal closed water loop.



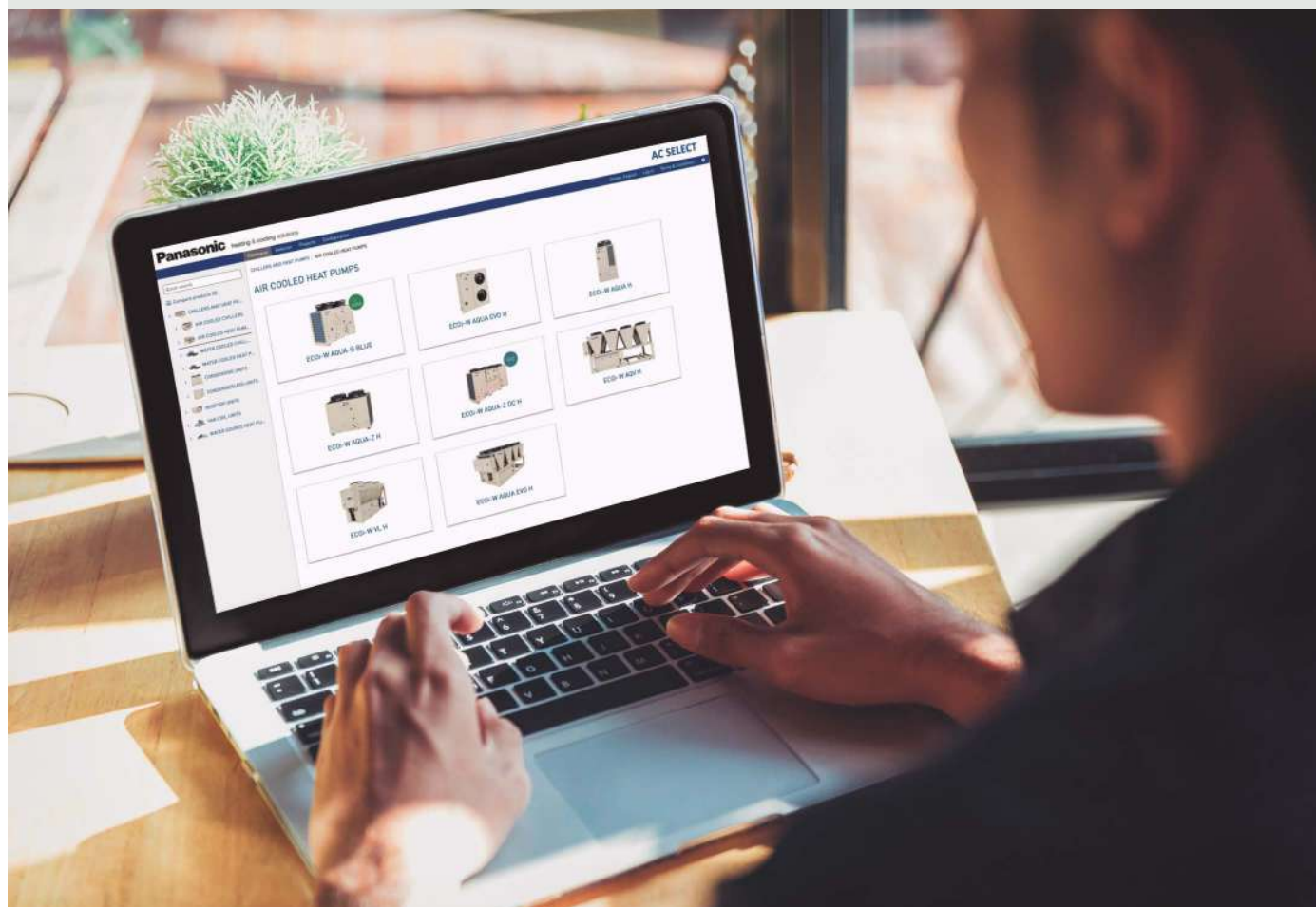
AC SELECT.

Use AC SELECT to choose and configure your hydronic solution.

Panasonic online selection tool offers an easy and quick solution to specify all the hydronics ranges and rooftops at required conditions.



<https://acselect.panasonic.eu/>



A wide coverage of applications

Energy efficiency, high performance and comfort.

Chillers and heat pumps.

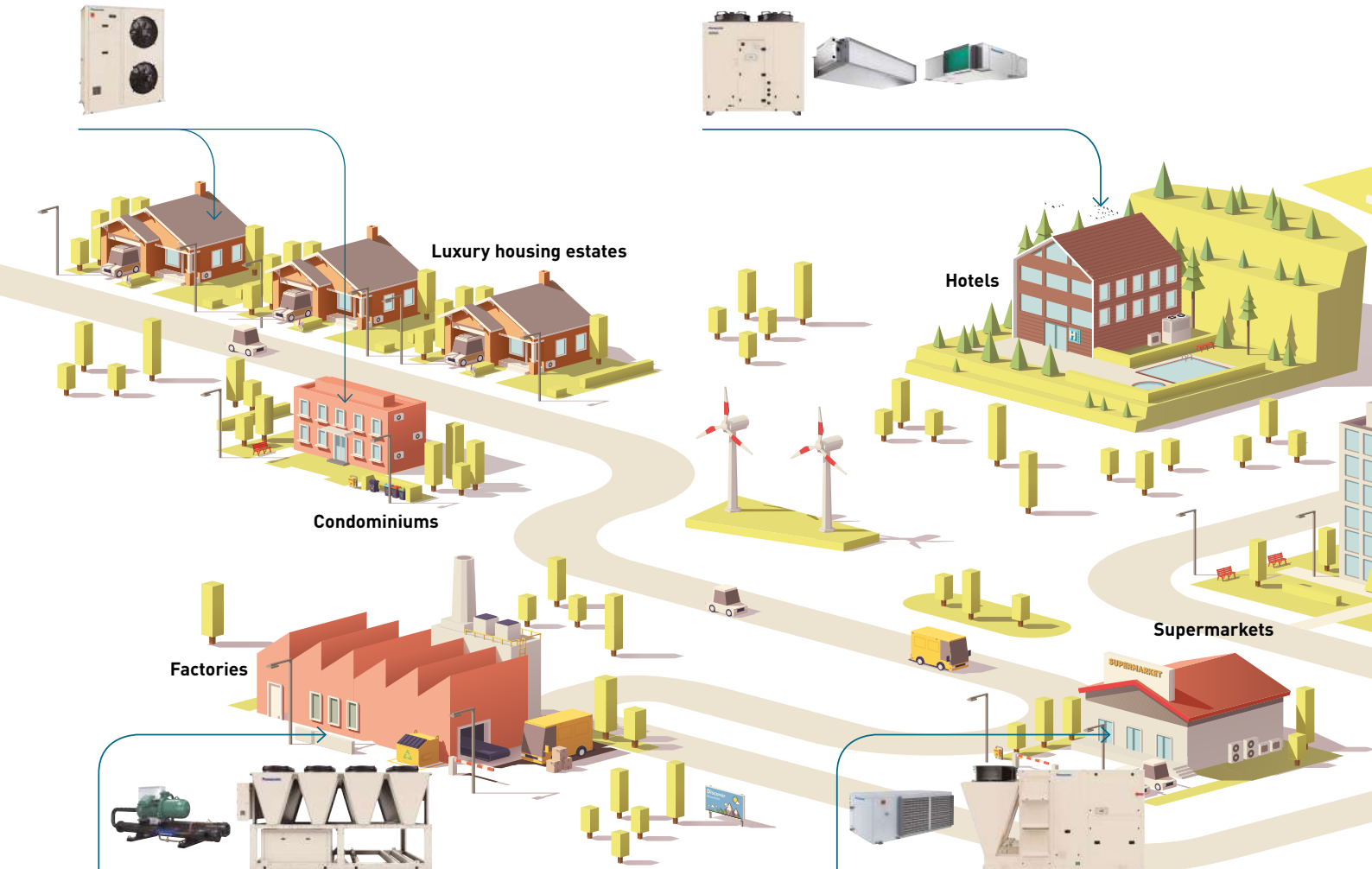
In residential applications a good indoor climate is important to ensure greater comfort and well-being. Our chillers and heat pump units with small capacities and DHW management are the ideal solutions.



Chillers and heat pumps, fan coils and water source heat pumps.

Ensuring a comfortable environment for the guests is the main challenge in all the types of hotel.

Panasonic offers a complete system thanks to the wide capacity range of its chillers, the design and low-noise operation of its fan coil units and the zone independent management of different spaces with its water source heat pumps.



Chillers and heat pumps.

Factories have high energy requirements. Panasonic chillers and heat pumps can meet this need due to the available capacity ranges. They also have high seasonal performance and are easy to install and maintain.

Chiller application temperatures.

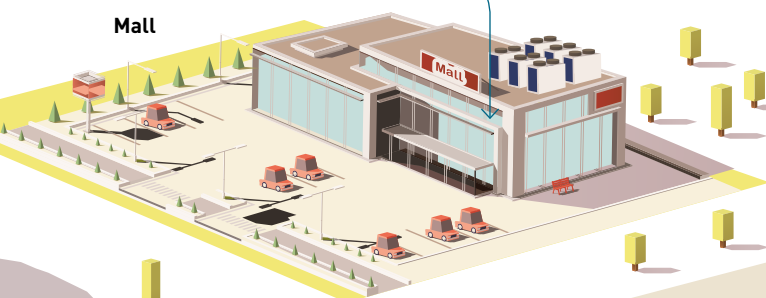


Water source heat pumps and rooftops.

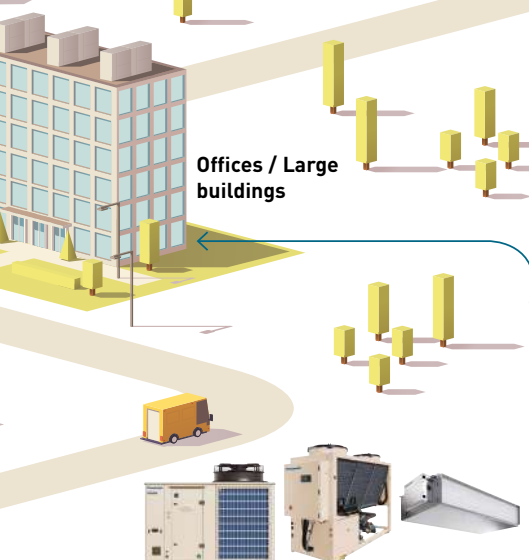
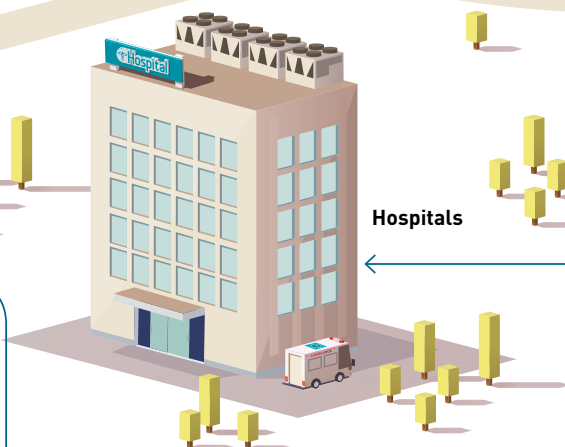
For supermarket applications, Panasonic has a wide range of solutions suitable to satisfy the required conditions: rooftops units can manage indoor ambient temperature and control the air quality, water source heat pumps have high-efficiency and can allow independent zone management.

Water source heat pumps and rooftops.

Comfort and air conditioning needs in commercial buildings must take into account the high demand for energy, the high number of people during the day, and the need to heat or cool quickly, changing loads and constantly renewing air. Rooftops are the ideal solutions due to their high capacities and high air flow that ensures better air quality. Water source heat pumps, on the other hand, provide accurate local control of different spaces, with high reliability and allow the overall energy consumption to be broken down by zone.

**Mall****Chillers and heat pumps, and rooftops.**

Energy consumption at airports has significant variability, and the number of users and passengers fluctuates throughout the day. For optimal air quality management and to meet the large energy needs of facilities, Panasonic offers a wide range of solutions like chillers and heat pumps and rooftops that guarantee high-efficiency and minimise waste energy consumption.

**AIRPORT****Airports****Offices / Large buildings****Hospitals****Chillers and heat pumps, and fan coils.**

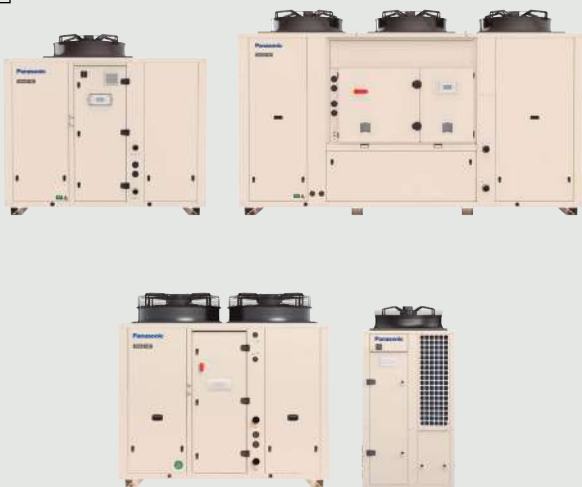
In offices, indoor climate is important for staff productivity and health. Panasonic chillers, heat pumps and fan coil units help create comfortable environments with high temperature control. Thanks to their natural refrigerant, R290 units are also the best solution for achieving high performance with reduced impact on the environment.

Chillers and heat pumps, and rooftops.

Hospitals require a high level of air quality and precise temperature control. Rooftop units are the best solutions due to their reliability and ability to provide fresh air through cooling, heating and ventilation of the building. The chiller and heat pump ranges help create an optimal indoor climate through their high performance and capacity. Our R32 ranges also have a low impact on the environment due to their low GWP refrigerant.

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.

**1**

High quality chillers and heat pumps.

ECOi-W Series provides a fully customisable design to meet the business application needs, with a capacity range from 20 kW to 1650 kW. Reliable quality and an optimised design for service and maintenance are ideal for hospital projects.

2

A wide variety of fan coils.

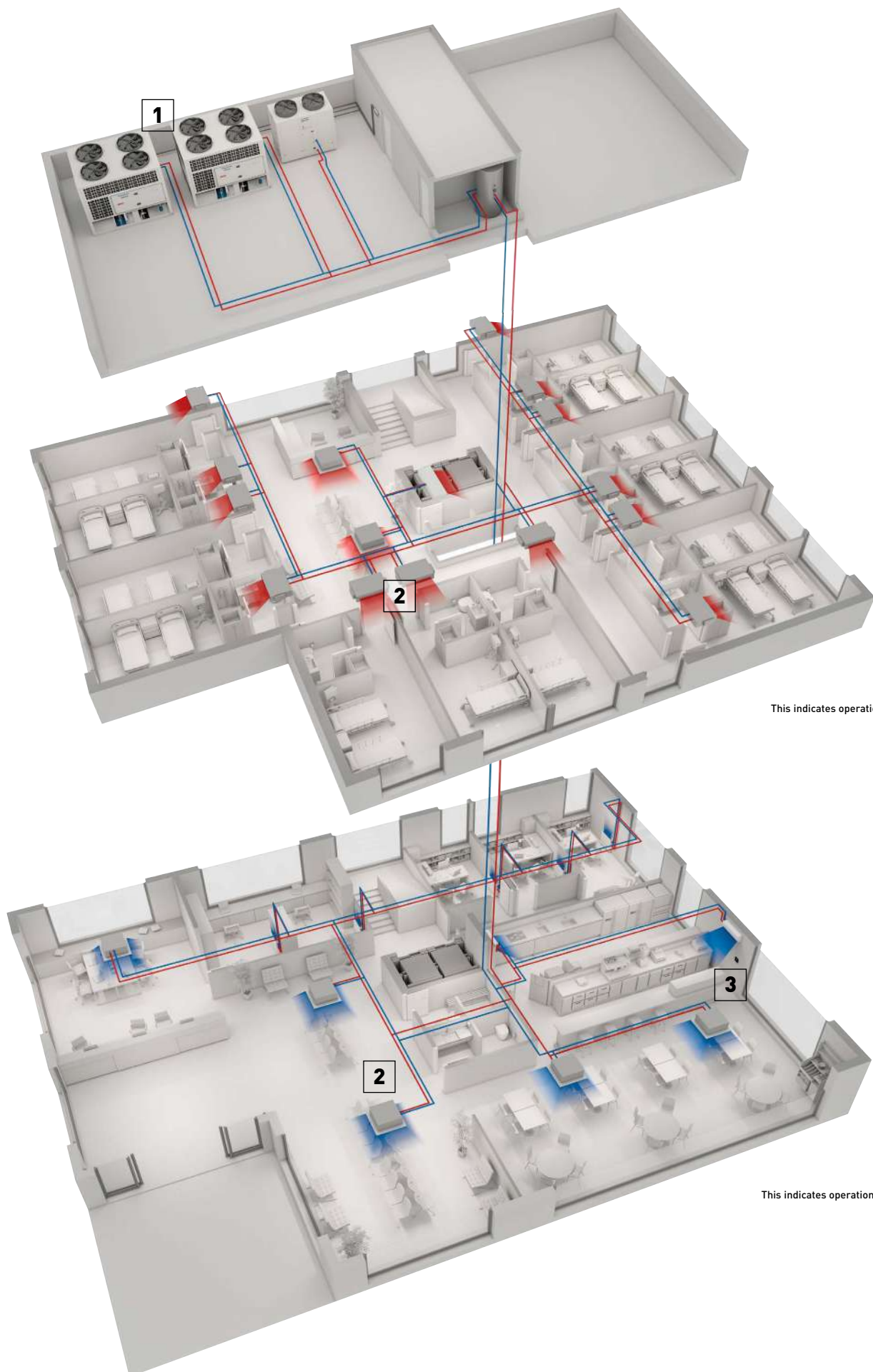
A wide variety of units to suit your needs, with flexible installation options. High-efficiency and low noise operation allows for optimum comfort.

Operation in both heating and cooling is possible.

3

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.

Air cooled chillers, heat pumps and condensing units

Energy efficiency, high performance and comfort!

The ECOi-W hydronic systems offer the perfect combination of comfort and high-efficiency. They are perfect for any type of building. The air cooled chiller variant of the system is also a fundamental part of many industrial processes.

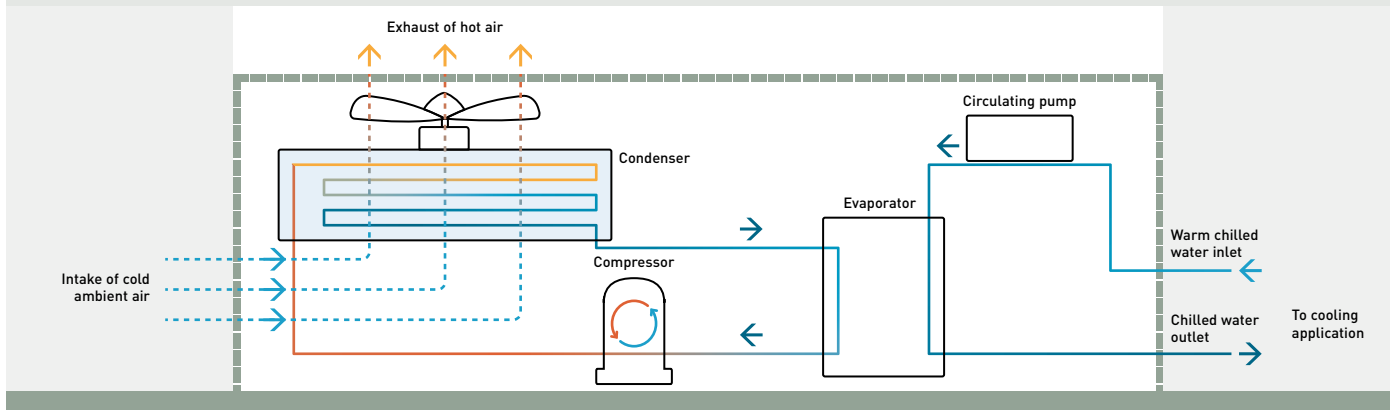


An air cooled chiller uses ambient air to cool and condense the hot refrigerant in the condenser.

Advantages:

- Simple design (no need for cooling systems such as cooling towers), low installation costs
- Small footprint, easier to maintain and manage than water cooled systems
- Reduced initial cost

*The below illustration show cooling application.



Compressors and refrigerants combination

Scroll compressors.

Scroll compressors have excellent low vibration and low noise properties. Compact in size and suitable for designs where space is restricted.



R290

R32

R410A

Screw compressors.

Screw compressors can be operated continuously and are therefore suitable for applications where a constant and consistent cooling load is required. Due to their high energy efficiency, our products use these compressors in combination with high-efficiency refrigerants.



R513A

In-house manufactured coils

100% quality certified by Panasonic is ensured by coil production in our factory. Hydrophilic aluminium (Bluefin) treatment is available as standard. Special epoxy coating with strong protection against corrosion can be requested as option.

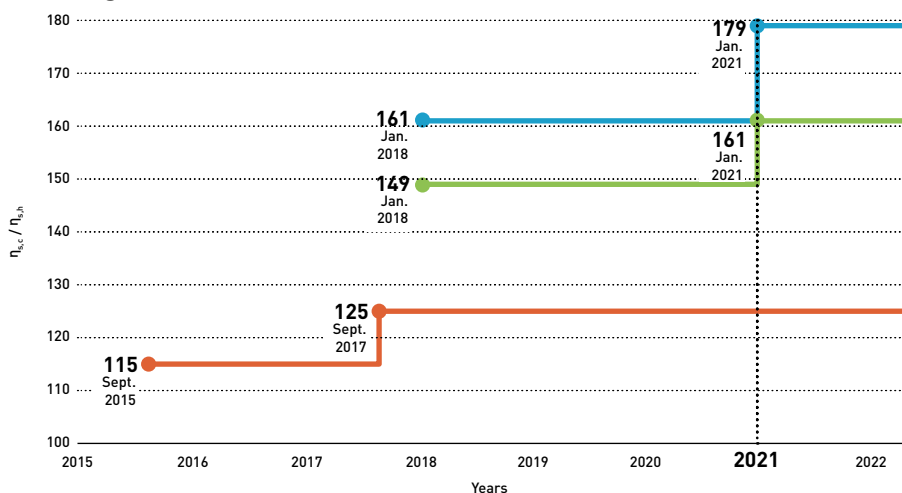


Microchannel coils

Significant reduction on refrigerant charge and operating weight.



Ecodesign



Air to water comfort chiller ¹⁾

≤400 kW.
Minimum η_{ac} to be Ecodesign compliant.
COMMISSION REGULATION (EU) 2016/2281.

>400 kW.
Minimum η_{ac} to be Ecodesign compliant.
COMMISSION REGULATION (EU) 2016/2281.

Air to water heat pumps ²⁾

≤400 kW.
Minimum η_{ah} to be Ecodesign compliant.
COMMISSION REGULATION (EU) No 813/2013.

>400 kW.
Minimum η_{ah} to be Ecodesign compliant.
COMMISSION REGULATION (EU) 2016/2281.

1) Calculated at nominal conditions: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB.
2) Rated heat output of space heaters and combination heaters at reference design conditions (Tdesign -10 °C) as stated in COMMISSION REGULATION (EU) No 813/2013.

ECOi-W AQUA-G EVO range.

Unmatched innovation

Introducing an innovative solution with Inverter technology and natural refrigerant R290. Combine efficiency and comfort in one compact package.

**INVERTER**

¹⁾ Scale A+++ to D. According to EN 14825 and Following COMMISSION REGULATION (EU) No 813/2013.

NEW



ECOi-W AQUA-G EVO – Heating optimised solution for superior efficiency in low ambient climates.

High-performance components, enhanced refrigerant circuits, and optimised defrost management. This solution is suitable for gas boiler replacement and DHW production.

Inverter technology: reliable performances under variable load conditions

Inverter compressor and inverter driven pump for high energy-efficiency and stable temperature control, improving comfort and reducing energy consumption.

Enhanced capacity with cascade and modular configurations

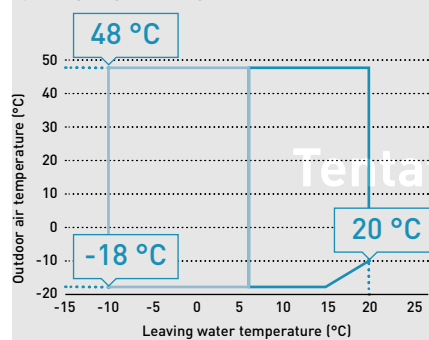
- Scalable up to 880 kW with multiple units
- Modular configuration with minimum installation space*

*Up to 440 kW.

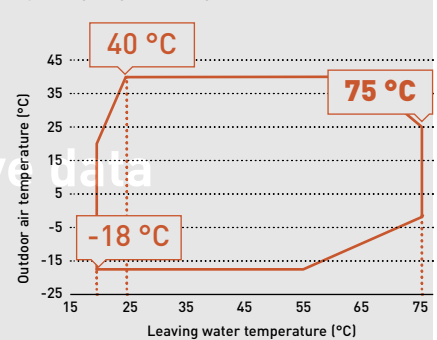
Extended operating limits for high temperature heating

Exceptional operating limits delivering leaving water temperatures up to **75 °C** at 0 °C outdoor air temperature for domestic hot water production.

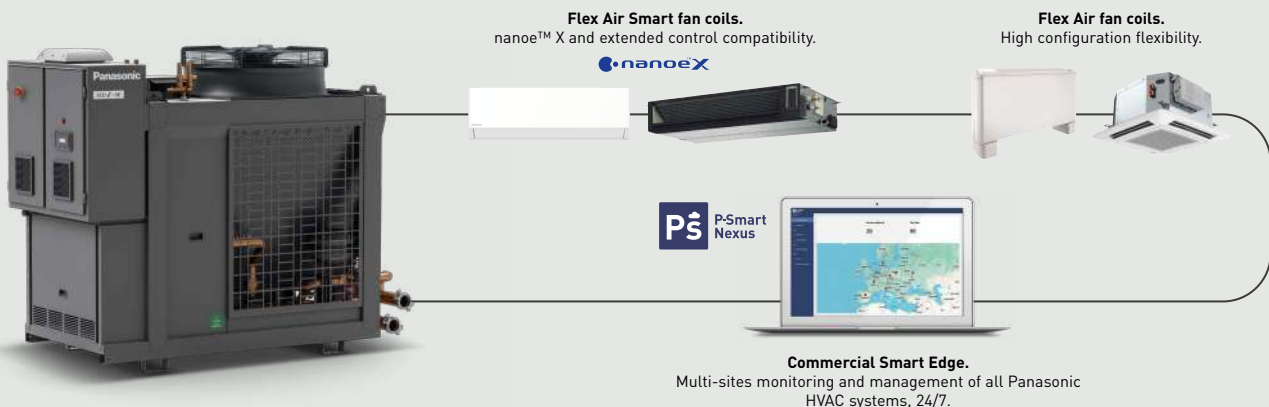
Operating range in cooling mode.



Operating range in heating mode.



Comprehensive range of solutions for commercial applications.



Extension of the R290 heat pump range.

ECOi-W AQUA-G BLUE — Cooling optimised solution.

- Reliable and stable cooling capacity at high ambient temperatures
- Capacities from 50 to 80 kW
- Scalable solution and intelligent control logic
- Quiet operation: low sound power of only 79,9 dB(A)*
- Wide range of applications including offices, hotels, and multi-family houses

*Size 50.



Quick selection guide - Air cooled chillers

Page	Size	Cooling capacity (kW)	SEER	Sound power (dB(A))	Dimension ¹⁾ L x H x W (mm)
P. 26	ECOi-W AQUA C · R410A				
	20	19,2	4,78	75	1000 x 1983 x 1000
	25	24,3	4,38	75	1000 x 1983 x 1000
	30	27,1	4,43	75	1000 x 1983 x 1000
	35	36,7	4,43	76	1000 x 1983 x 1000
	40	39,0	4,48	76	1000 x 1983 x 1000
P. 30	ECOi-W AQUA-Z C · R32				
	50	51,6	4,60	83	2180x x 1986 x 1160
	60	57,6	4,59	84	2180x x 1986 x 1160
	70	69,7	4,61	81	2180x x 1986 x 1160
	75	78,2	4,72	81	2180x x 1986 x 1160
	85	82,8	4,45	84	2180x x 2286 x 1160
	100	100,0	4,88	86	2180x x 2286 x 1160
	115	116,0	4,59	87	2180x x 2286 x 1160
	130	126,0	4,43	87	2180x x 2286 x 1160
	ECOi-W AQUA-Z DC C · R32				
P. 32	150	151,0	4,93	89,6	3795 x 2240 x 1096
	170	170,0	4,90	90,4	3795 x 2240 x 1096
	190	189,0	4,68	91,1	2650 x 2250 x 2211
	210	212,0	4,62	91,5	2650 x 2250 x 2211
	230	229,0	4,48	92,0	2650 x 2250 x 2211
	260	260,0	4,40	92,4	2650 x 2250 x 2211
	290	307,0	4,63	93,3	3775 x 2250 x 2211
	320	326,0	4,33	94,3	3775 x 2250 x 2211
	350	346,0	4,43	95,2	3775 x 2250 x 2211
	380	377,0	4,35	95,4	3775 x 2250 x 2211
	420 (210+210)	424,0	4,62	95,5	5310 x 2250 x 2211
	460 (230+230)	458,0	4,48	96	5310 x 2250 x 2211
	520 (260+260)	520,0	4,4	96,4	5310 x 2250 x 2211
	580 (290+290)	614,0	4,63	97,3	7556 x 2250 x 2211
	640 (320+320)	652,0	4,33	98,3	7556 x 2250 x 2211
	700 (350+350)	692,0	4,43	99,2	7556 x 2250 x 2211
	760 (380+380)	754,0	4,35	99,4	7556 x 2250 x 2211

1) Dimensions without water tank.

Page	Size	Cooling capacity (kW)	SEER	Sound power (dB(A))	Dimension ¹⁾ L x H x W (mm)
P. 40	ECOi-W AQV C · R410A				
	85	83,5	4,55	84	2555 x 2185 x 1095
	95	93,6	4,80	84	2555 x 2185 x 1095
	105	103,0	4,78	84	2555 x 2185 x 1095
	115	110,1	4,80	84	2555 x 2185 x 1095
	125	121,9	4,73	88	3155 x 2185 x 1095
P. 44	ECOi-W AQUA EVO C · R410A				
	400	390,4	4,48	92	4580 x 2500 x 2175
	450 S ²⁾	431,1	4,63	87	5620 x 2500 x 2175
	490 S ²⁾	470,2	4,58	87	6680 x 2500 x 2175
	530 S ²⁾	513,7	4,78	87	6680 x 2500 x 2175
	600	584,5	4,58	94	7760 x 2500 x 2175
	670	653,2	4,59	94	7760 x 2500 x 2175
	750 S ²⁾	727,7	4,73	89	8900 x 2500 x 2175
P. 46	ECOi-W SW-N EVO C · R513A				
	380	365,7	4,53	97	4660 x 2510 x 2192
	440	443,0	4,64	98	5712 x 2510 x 2192
	510	500,2	4,65	100	5712 x 2510 x 2192
	590	565,8	4,80	100	6764 x 2510 x 2192
	660	643,5	4,66	100	7816 x 2510 x 2192
	730	704,3	4,56	101	7816 x 2510 x 2192
	810	778,1	4,62	101	8868 x 2510 x 2192
	900	896,9	4,56	102	9920 x 2510 x 2192
	980	983,5	4,60	102	10972 x 2510 x 2192
	1060	1047,4	4,87	103	12024 x 2510 x 2192
	1160	1154,0	4,86	103	13076 x 2510 x 2192
	1260	1240,5	4,85	103	13076 x 2510 x 2192

1) Dimensions without water tank. 2) S version.

Increased capacity with modular configuration units.

Our ECOi-W AQUA-Z DC units are available in both single and twin configurations. For large-scale projects, combine two double circuit units to significantly boost the capacity.

- 2x AQUA-Z DC units installed back to back from rear side
- Common hydraulic connections
- Common hydraulic kit: pumps (option)
- Separate power supply (1 per unit)



R32

Quick selection guide - Air cooled heat pumps

Page	Size	Cooling and heating capacity (kW)	SEER / SCOP	Sound power (dB(A))	Dimension ¹⁾ L x H x W (mm)
P. 20	20	21,0	3,30 / 3,75	74	1477 x 1615 x 539
		20,4			
P. 22	30	28,0	3,98 / 3,68	75	1477 x 1615 x 539
	30	26,1			
	50	48,2			
	50	49,2			
P. 24	60	56,1	4,30 / 3,70	84	2180 x 2011 x 1160
	60	61,1			
	70	64,9			
	70	73,5			
P. 26	80	74,1	4,30 / 3,90	85	2180 x 2030 x 1160
	80	83,6			
	110	91,0			
	110	101,9			
P. 28	40	41,5	5,59 / 4,22	79,5	2209 x 1732 x 1100
	40	41,0			
	50	48,5			
	50	48,2			
	50	48,2			

1) Dimensions without water tank.

New ECOi-W AQUA-G EVO.

The future of comfort: eco-friendly performance and advance technology in a groundbreaking solution.



NATURAL REFRIGERANT R290 WITH GWP 0,02*



INVERTER TECHNOLOGY

880 kW / **BOOST CAPACITY UP TO 880 KW**



*Based on the Sixth Assessment Report (AR6) adopted by the Intergovernmental Panel on Climate Change (IPCC).

Quick selection guide – Air cooled heat pumps

Page	Size	Cooling and heating capacity (kW)	SEER / SCOP	Sound power (dB(A))	Dimension ¹⁾ L x H x W (mm)
P. 30	ECOi-W AQUA-Z H · R32				
	50		4,46 / 3,63	83	2180 x 1986 x 1160
	60		4,42 / 3,51	84	2180 x 1986 x 1160
	70		4,51 / 3,49	81	2180 x 1986 x 1160
	75		4,61 / 3,56	81	2180 x 1986 x 1160
	85		4,33 / 3,76	84	2180 x 2286 x 1160
	100		4,77 / 3,56	86	2180 x 2286 x 1160
	115		4,44 / 3,77	87	2180 x 2286 x 1160
	130		4,23 / 3,81	87	2180 x 2286 x 1160
	R32				
	150		4,59 / 3,78	89	3789 x 2285 x 1151
	170		4,49 / 3,70	91	3789 x 2285 x 1151
P. 32	ECOi-W AQUA-Z DC H · R32				
	150		4,75 / 3,83	89,6	3795 x 2240 x 1096
	170		4,71 / 3,90	90,4	3795 x 2240 x 1096
	R32				
	190		4,45 / 3,46	91,1	2650 x 2250 x 2211
	210		4,39 / 3,44	91,5	2650 x 2250 x 2211
	220 ²⁾		5,03 / 3,86	91,3	2650 x 2300 x 2211
	230		4,34 / 3,64	92,0	2650 x 2250 x 2211
	260		4,21 / 3,52	92,4	2650 x 2250 x 2211
	270 ²⁾		5,01 / 3,82	92,8	3775 x 2300 x 2211
	290		4,34 / 3,51	93,3	3775 x 2250 x 2211
	300 ²⁾		5,01 / 3,92	93,1	3775 x 2300 x 2211
	320		4,33 / 3,50	94,3	3775 x 2250 x 2211
	350		4,40 / 3,50	95,2	3775 x 2250 x 2211
	380		4,34 / 3,66	95,4	3775 x 2250 x 2211
	R32				
	420 [210+210]		4,39 / 3,44	95,5	5310 x 2250 x 2211
	440 [220+220]		5,03 / 3,86	95,3	5310 x 2250 x 2211
	460 [230+230] ²⁾		4,34 / 3,64	96,0	5310 x 2250 x 2211
	520 [260+260]		4,21 / 3,52	96,4	5310 x 2250 x 2211
	540 [270+270] ²⁾		5,01 / 3,82	96,8	7556 x 2250 x 2211
	580 [290+290]		4,34 / 3,51	97,3	7556 x 2250 x 2211
	600 [300+300] ²⁾		5,01 / 3,92	97,1	7556 x 2250 x 2211
	640 [320+320]		4,33 / 3,50	98,3	7556 x 2250 x 2211
	700 [350+350]		4,40 / 3,50	99,2	7556 x 2250 x 2211
	760 [380+380]		4,34 / 3,66	99,4	7556 x 2250 x 2211

1) Dimensions without water tank. 2) Only EC fans version.

Quick selection guide – Air cooled heat pumps

Page	Size	Cooling and heating capacity (kW)	SEER / SCOP	Sound power (dB(A))	Dimension ¹⁾ L x H x W (mm)
P. 36	ECOi-W AQR H · R410A				
	85	81,0 91,8	4,25 / 3,61	84	2555 x 2185 x 1095
	95	89,9 102,8	4,68 / 3,64	84	2555 x 2185 x 1095
	105	98,9 110,0	4,63 / 3,78	84	2555 x 2185 x 1095
	115	106,9 119,0	4,17 / 3,77	84	2555 x 2185 x 1095
	125	115,8 134,0	4,33 / 3,47	88	3155 x 2185 x 1095
P. 40	ECOi-W VL H · R410A				
	704	173,2 200,1	3,63 / 3,41	93	4300 x 2300 x 1100
	804	197,1 223,2	3,55 / 3,42	93	4300 x 2300 x 1100
	904	226,4 254,7	3,35 / 3,28	94	4300 x 2300 x 1100
	1004	246,3 270,8	3,50 / 3,39	94	4300 x 2300 x 1100
	1104	273,1 302,1	3,53 / 3,30	95	4300 x 2300 x 1100
	1204	299,9 337,4	3,43 / 3,19	95	4300 x 2300 x 1100

1) Dimensions without water tank. 2) Only EC fans version.

Quick selection guide – Air cooled condensing units

Page	Size	Cooling capacity (kW)	EER	Sound power (dB(A))	Dimension ¹⁾ L x H x W (mm)
P. 26	ECOi-W AQUA E · R410A				
	25	32,4	3,24	75	1000 x 1983 x 1000
	30	33,7	3,15	75	1000 x 1983 x 1000
	35	43,1	2,90	76	1000 x 1983 x 1000
P. 36	ECOi-W AQR E · R410A				
	85	92,1	3,36	84	2555 x 2185 x 1095
	95	103,2	3,29	84	2555 x 2185 x 1095
	105	113,2	3,32	84	2555 x 2185 x 1095
	115	121,8	3,30	84	2555 x 2185 x 1095
P. 40	ECOi-W VL E · R410A				
	704	199,0	2,90	93	4300 x 2300 x 1100
	804	224,0	3,00	93	4300 x 2300 x 1100
	904	258,0	2,98	94	4300 x 2300 x 1100
	1004	283,0	3,12	94	4300 x 2300 x 1100
	1104	315,0	2,98	95	4300 x 2300 x 1100
	1204	347,0	2,90	95	4300 x 2300 x 1100

1) Dimensions without water tank.

Commercial Smart Edge

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.



**COMPATIBLE
WITH ENTIRE
HVAC RANGE**



**SIMPLIFIED
COMMISSIONING**



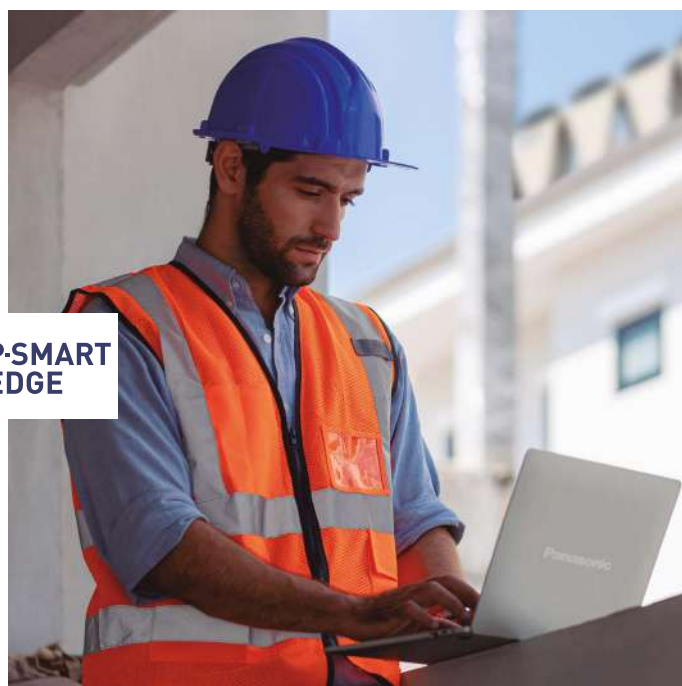
**OPTIMISED
PLANT
MANAGEMENT**



**ADVANCED
ANALYTICS**



**PS P-SMART
EDGE**



**PS P-SMART
EDGE**

P-Smart Edge*.
A powerful smart control platform designed for single-site installations, giving you seamless management of the complete Panasonic HVAC range.

***Edge controller box (PAW-CSE**) is required.**

**PS P-SMART
Nexus**

P-Smart Nexus*.
An online multi-site control solution that provides remote, centralised supervision of all your locations worldwide.

Model code	Control points	Indoor unit connections ¹⁾
PAW-CSE-1B	100	4
PAW-CSE-2B	200	10

Model code	Control points	Indoor unit connections ¹⁾
PAW-CSE-10	1000	50
PAW-CSE-20	2000	100

¹⁾ The final number of connected indoor units may vary depending on the range. *For the detail information, please contact an authorised Panasonic dealer.



ECOi-W AQUA EVO H - R410A

Air cooled heat pumps Inverter.

Cooling capacity: 20,0 to 35,9 kW.

Heating capacity: 20,4 to 34,0 kW.



The range at a glance

- 1 version: H (heat pump)
- 2 sizes

Advantages

- Wide load variation capability:
 - Cooling operation down to 30% and up to 140% of nominal capacity
 - Heating operation down to 40% and up to 130% of nominal capacity
- Unit optimization in heating mode for both fan coil and floor applications
- Wide operating limits in heating mode
- Domestic Hot Water management
- Inverter compressor
- New fan motors (ErP compliant) with integrated grill and fan speed control as standard

Equipment

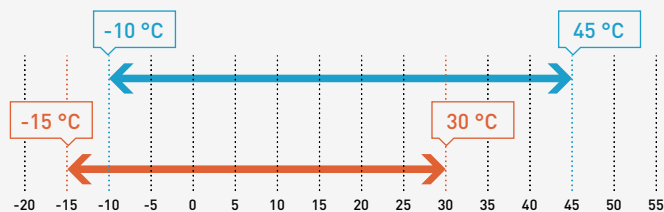
- A single Inverter driven 3-phase scroll compressor equipped with variable frequency brushless motor (20-120 Hz)
- Plate evaporator (AISI 316)
- 1 refrigerant circuit
- Bi-flow electronic expansion valve
- Multistage centrifugal pump as standard
- Bluefin coil
- Operating low water content in the plant
- Automatic circuit breaker
- Coil grilles
- Fan speed control
- Power factor corrector capacitors
- Phase sequence control
- Soft starter
- Water differential pressure switch
- Water filter
- DHW function available on the controller with DHW probe and 3 way valve available as options

Operating limits

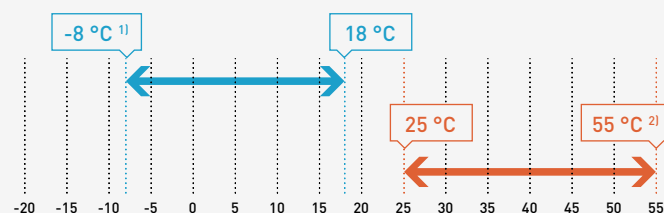
To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Ambient temperature.



Leaving water temperature.



Cooling: outside air temperature (°C (DB)). Heating: outside air temperature (°C (WB)).

1) Below 5 °C, glycol is required. For operation below 0 °C contact sales office.

2) Maximum leaving water temperature 55 °C (minimum outdoor air temperature -10 °C size 20, -15 °C size 30) to be confirmed with AC SELECT.

Chillers suitable for operation without buffer tank for water content greater than 2,5 liters of water per kW of output.

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>





Technical performance

Power supply	Voltage	V	400	400
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Size			20	30
ECOi-W AQUA EVO H - heat pump			P-AQAVE0020HA	P-AQAVE0030HA
Cooling capacity ¹⁾	Nominal (Min - Max)	kW	20,0 [9,33 - 28,0]	29,0 [13,9 - 35,9]
Input power ¹⁾	Nominal (Min - Max)	kW	4,15 [2,38 - 6,61]	7,24 [3,51 - 13,0]
EER ¹⁾	Nominal (Min - Max)		4,82 [3,92 - 4,24]	4,01 [3,96 - 2,76]
Cooling capacity ²⁾	Nominal (Min - Max)	kW	21,0 [6,60 - 25,2]	28,0 [9,43 - 31,1]
Input power ²⁾	Nominal (Min - Max)	kW	6,95 [2,52 - 10,3]	10,9 [3,14 - 12,4]
EER ²⁾	Nominal (Min - Max)		3,02 [2,62 - 2,45]	2,57 [3,00 - 2,51]
EER 75%			3,83	3,65
EER 50%			4,53	4,48
EER 25%			3,80	4,79
SEER ³⁾			3,30	3,98
η_{s,c} ³⁾			129	156
Nominal water flow (in the evaporator)	m³/h		3,64	5,92
Heating capacity ⁴⁾	Nominal (Min - Max)	kW	20,4 [9,94 - 29,4]	26,1 [11,5 - 34,0]
Input power ⁴⁾	Nominal (Min - Max)	kW	5,02 [2,98 - 8,37]	6,45 [3,01 - 9,80]
COP ⁴⁾	Nominal (Min - Max)		4,06 [3,34 - 3,51]	4,05 [3,82 - 3,47]
Heating capacity ⁵⁾	Nominal (Min - Max)	kW	20,4 [8,90 - 27,4]	26,1 [10,2 - 33,9]
Input power ⁵⁾	Nominal (Min - Max)	kW	6,44 [3,34 - 9,64]	8,42 [3,97 - 11,6]
COP ⁵⁾	Nominal (Min - Max)		3,17 [2,66 - 2,84]	3,10 [2,57 - 2,91]
SCOP ^{6) 7)}			3,75	3,68
Energy efficiency class ^{6) 7)}		A+++ to D	A+	A+
η_{s,h} ^{6) 7)}			147	144
SCOP ^{6) 8)}			3,00	2,95
Energy efficiency class ^{6) 8)}		A+++ to D	A+	A+
η_{s,h} ^{6) 8)}			117	115
Nominal water flow (in the evaporator)	m³/h		3,64	5,92
Sound power ⁹⁾	dB(A)		74	75
Sound pressure at 10 m ¹⁰⁾	dB(A)		43	44

Physical features

ECOi-W AQUA EVO H - heat pump			20	30
Dimension	H x W x L	mm	1615 x 539 x 1477	1615 x 539 x 1477
Operating weight		kg	260	275
Water connections				
Type of connections (evaporator)			Male gas threaded	Male gas threaded
Inlet/outlet diameter	Inch		1 ¼	1 ¼

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 23/18 °C, outdoor ambient temperature 35 °C. 2) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 3) According to EN 14825 standard. 4) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 5) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 6) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 7) According to EN 14825 standard - low temperature application (35 °C). 8) According to EN 14825 standard - medium temperature application (55 °C). 9) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 10) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

Accessories and options

Buffer tank placed under unit
Chassis acoustic insulation

Accessories and options

Coils treatments

Accessories supplied loose

P-373705 Water temperature sensor for second set-point zone
P-347941 Remote ON / OFF control
P-364735 Remote keyboard panel
P-362577 Flow switch
P-473465 Pressure switch

Accessories supplied loose

P-362384 Valves in - out
P-348144 3 way valve for DHW production - ON / OFF - DN 20
P-375890 3 way valve for second set-point zone - 0-10 V - DN 25
P-375891 3 way valve for second set-point zone - 0-10 V - DN 32



ECOi-W AQUA-G BLUE 50-80 H - R290

Air cooled heat pumps.

Cooling capacity: 48,2 to 74,1 kW.

Heating capacity: 49,2 to 83,6 kW.



The range at a glance

- 1 version: H (heat pump)
- 4 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

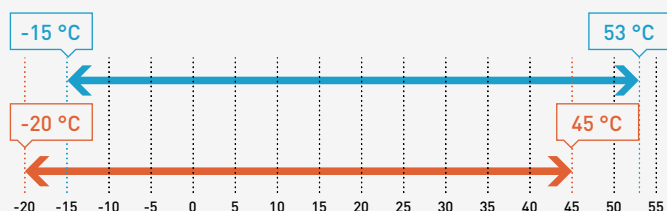
Advantages

- Natural refrigerant R290
- Very high performance and improved energy efficiencies
- Smart energy consumption
- Expanded operating limit
- Domestic Hot Water management
- Compact chassis
- Very quiet operation
- Cascade controller available for multi system operation
- SG Ready
- Very low refrigerant charge
- Reliable safety measurements

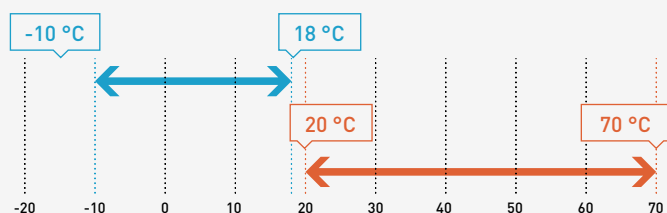
Operating limits

To be confirmed with AC SELECT:
<https://acselect.panasonic.eu/>

Ambient temperature.



Leaving water temperature.



Equipment

- Fan speed control. All units are equipped with EC fan technology
- Variable speed pump - option. A variable speed pump can be added to the unit for even greater energy savings
- Controller. This new high standard control system provides excellent pressure control, as well as global and optimised unit management
- Removable panels. Great accessibility to internal components for service operations
- Condenser. Highly optimised heat exchanger design enables a refrigerant charge reduction. Lower than 5,0 kg of R290 for the sizes 50 and 60
- Electronic expansion valve. This reliable and high-performant valve minimises overheating of the evaporator. It is directly managed by the control system
- Modbus RTU, Modbus TCP/IP, BACnet MSTP or BACnet IP
- Leak detector and safety ventilation fans to detect R290 leakages and exhaust refrigerant to atmosphere in the event of a leak
- DHW function available on the controller with DHW probe and 3 way valve available as options

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>





Technical performance

Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Size			50	60	70	80
ECOi-W AQUA-G BLUE 50-80 H EC fan - heat pump			P-AQAG0050HA	P-AQAG0060HA	P-AQAG0070HA	P-AQAG0080HA
Cooling capacity ¹⁾	kW		48,2	56,1	64,9	74,1
Input power ¹⁾	kW		15,0	19,0	21,6	25,0
EER ¹⁾			3,20	3,00	3,00	3,00
SEER ²⁾			4,37	4,30	4,31	4,21
$\eta_{s,c}$ ²⁾	%		171,9	168,9	169,4	165,4
Heating capacity ³⁾	kW		49,2	61,1	73,5	83,6
Input power ³⁾	kW		15,6	18,6	21,7	24,9
COP ³⁾			3,2	3,3	3,4	3,4
SCOP ⁴⁾			3,67	3,75	3,87	3,84
$\eta_{s,h}$ ⁴⁾			143,7	146,8	151,8	150,5
Energy efficiency class (SCOP) ⁴⁾	A+++ to D		A+	A+	A++	A++
SCOP _{MT} ⁴⁾			3,11	3,14	3,26	3,22
$\eta_{s,hMT}$ ⁴⁾			121,4	122,7	127,3	126,0
Energy efficiency class (SCOP _{MT}) ⁴⁾	A+++ to D		A+	A+	A++	A++
Sound power (STD / S)	dB(A)		82,7 / 79,9	84,1 / 80,5	85,1 / 81,5	85,8 / 81,9
Sound pressure at 10 m (STD / S) ⁵⁾	dB(A)		51,0 / 48,2	52,3 / 48,7	53,3 / 49,7	54,0 / 50,1

Physical features

ECOi-W AQUA-G BLUE 50-80 H EC fan - heat pump			50	60	70	80
Dimension	Height	mm	1730	2011	2030	2030
	Length w/o / w water tank	mm	2215 / 2915 ⁴⁾	2180 / 2680	2180 / 2680	2180 / 2680
	Width	mm	1032	1160	1160	1160
Operating weight	kg		538	603	628	669
Refrigerant and compressors						
Number of refrigerant circuits			1	1	1	1
Refrigerant (R290)	kg		4,50	4,80	5,30	6,80
GWP ⁷⁾	CO ₂ eq.		0,02	0,02	0,02	0,02
Compressors	Number / type		2 / Scroll	2 / Scroll	2 / Scroll	2 / Scroll
Capacity steps	%		50 / 100	40 / 60 / 100	40 / 60 / 100	50 / 100
Water connections						
Type of connections			Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
Inlet/outlet diameter	Inch		1 ¼	2	2	2 ½
Buffer tank (option)						
Volume	l		200	300	300	300

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and following COMMISSION REGULATION (EU) 2016/2281.

3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and following COMMISSION REGULATION

(EU) No 813/2013. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 6) Tank is external to the unit chassis. 7) Based on the Sixth Assessment Report (AR6) adopted by the Intergovernmental Panel on Climate Change (IPCC).

*w/o: without, w: with.

Accessories and options

Anti-vibration rubber mount / spring dampers

Refrigerant gauges HP/LP

Shut off valves

Soft starter

Accessories and options

Electric heater for the water tank

Variable or fixed speed pumps

Water tank 200 L for sizes 50

Water tank 300 L for sizes 60-70-80

Accessories supplied loose

P-375281 SRC – mini BMS controller

P-586595_G Cascade controller

P-372061_G Remote keyboard panel

P-372615_G Kit 4G modem

SVC-HYD-COMM-CLD1 1-year pre-paid Cloud access

Accessories supplied loose

SVC-HYD-COMM-CLD3 3-year pre-paid Cloud access

P-3721027 3 way valve and probe for DHW management for size 50

P-3721028 3 way valve and probe for DHW management for sizes 60-80

P-3721050 Kit temperature probe for deported tank



NEW! ECOi-W AQUA-G EVO 60-110 H - R290

Air cooled heat pumps Inverter.

Cooling capacity: 56,7 to 91,0 kW.

Heating capacity: 61,2 to 101,9 kW.



NEW



The range at a glance

- 1 version: H (heat pump)
- 3 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

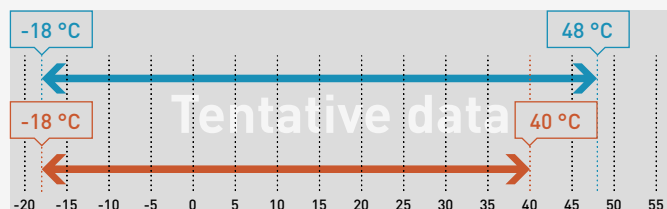
- Natural refrigerant R290
- Inverter driven compressor
- Very high performance
- Improved heating capacity at low ambient temperature
- Expanded operating limit
- Domestic Hot Water management
- Compact chassis
- Very quiet operation
- Modular configuration with integrated main/sub logic
- Ultra-compact design allows multiple units to be installed side by side with minimal spacing.
- SG Ready
- Reliable safety measurements
- Suitable for boiler replacement with DT 12 °C in heating

Operating limits

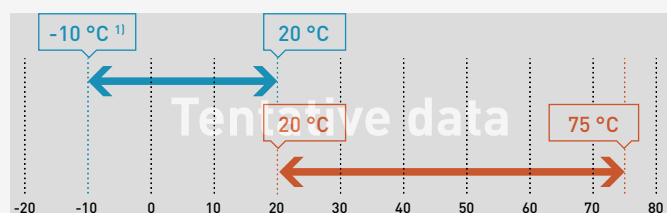
To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Ambient temperature.



Leaving water temperature.



1) With glycol, 5 °C without glycol.

Equipment

- Fan speed control. All units are equipped with EC fan technology and flow grid to reduce Sound power
- Electronic expansion valve. This reliable and high-performant valve minimises overheating of the evaporator. It is directly managed by the control system
- Compressor: 1 inverter compressor for size 60 and tandem compressor (fixed + Inverter) for sizes 80-110
- Compressor box providing both protection and noise reduction
- Automatic circuit breakers
- Integrated HMI to manage unit operation
- An advanced built-in controller enabling fully autonomous operation
- Communication protocol: Modbus RTU, Modbus TCP/IP
- Highly optimised finned tube Al/Cu heat exchanger with Bluefin treatment
- Condensate drain pan to collect and direct the condensate away from the unit
- Antifreeze electric heater on the plate heat exchanger
- Pressure relief valve
- Differential pressure switch on the plate heat exchanger from water side
- Water expansion vessel (only with pump and/or tank)
- Leak detector and safety ventilation fans to detect R290 leakages and exhaust refrigerant to atmosphere in the event of a leak
- DHW function available on the controller with DHW probe and 3 way valve available as options
- Removable panels. Great accessibility to internal components for service operations
- Multiple lifting point (lateral, frontal and upper side) for an easy handling of the unit



Technical performance

Power supply	Voltage	V	400	400	400
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Size			60	80	110
ECOi-W AQUA-G EVO 60-110 H - heat pump			P-AQAVG0060CA	P-AQAVG0080CA	P-AQAVG0110CA
Cooling capacity ¹⁾	kW		56,7	67,4	91,0
Input power ¹⁾	kW		18,9	22,6	33,9
Total EER ¹⁾			3,00	2,98	2,68
Total EER (A 35 °C, W 23/18 °C)			2,48	3,68	3,29
SEER ²⁾			4,07	4,84	4,77
$\eta_{s,c}$ ²⁾	%		160,0	190,5	187,2
Heating capacity ³⁾	kW		61,2	80,8	101,9
Input power ³⁾	kW		17,6	22,3	29,7
Total COP ³⁾			3,48	3,62	3,43
Heating capacity (A 7 °C, W 30/35 °C)	kW		62,7	83,2	104,8
Input power (A 7 °C, W 30/35 °C)	kW		14,9	18,7	25,4
COP (A 7 °C, W 30/35 °C)			4,21	4,45	4,13
SCOP ⁴⁾			4,32	4,13	4,49
$\eta_{s,h}$ ⁴⁾	%		169,6	162,0	176,5
SCOP ⁵⁾			3,72	3,56	3,87
$\eta_{s,h}$ ⁵⁾	%		145,9	139,4	151,7
SCOP ⁶⁾			3,41	3,25	3,55
$\eta_{s,h}$ ⁶⁾	%		133,3	127,1	138,8
SCOP ⁷⁾			3,00	2,88	3,15
$\eta_{s,h}$ ⁷⁾	%		118,1	112,2	123,1
Energy efficiency class (SCOP) ⁴⁾	A+++ to D		A++	A++	A++
Sound power (STD)	dB(A)		79,0	80,0	81,0
Sound pressure at 10 m (STD) ⁸⁾	dB(A)		47,2	48,0	49,0

Physical features

ECOi-W AQUA-G EVO 60-110 H - heat pump			60	80	110
Dimension	Height x Width	mm	1998 x 1116	1998 x 1116	1998 x 1116
	Length w/o / w water tank	mm	2385	3385	3385
Operating weight (STD)		kg	572	906	950
Refrigerant and compressors					
Number of refrigerant circuit			1	1	1
Compressor	Number / type		1 / Scroll	2/ Scroll	2 / Scroll
Capacity steps		%	25-100	25-100	25-100
Water connections					
Type of connections			Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter	Inch		2	2 ½	2 ½
Buffer tank (option)					
Volume	l		Not available	230	230

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and following COMMISSION REGULATION (EU) 2016/2281. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and following COMMISSION REGULATION (EU) No 813/2013. 5) According to EN 14825 and following COMMISSION REGULATION (EU) No 813/2013: low temperature application. 6) According to EN 14825 and following COMMISSION REGULATION (EU) No 813/2013: intermediate temperature application. 7) According to EN 14825 and following COMMISSION REGULATION (EU) No 813/2013: high temperature application. 8) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

*w/o: without, w: with.

Accessories and options	Accessories and options	Accessories and options
Dual pressure safety valve with changeover device	Pump acoustic box (super low noise version)	Water tank (for sizes 80-110)
Epoxy or blygold treatment	Power factor corrector capacitor (for sizes 80-110)	Hydro connection pipes
Chiller protection grids	Variable pump	Energy meter
Anti-vibration rubber mount / spring dampers	Water pressure switch	Flow meter
Compressor jacket (super low noise version)	Shut off valve	BACnet MSTP or BACnet IP

Accessories supplied loose	Accessories supplied loose
Water filter	Separator refrigerant/water
Kit remote control	Manifold 3" for modular configuration standard (60 cm distance)
Kit 4G modem	Manifold 3" for modular configuration ultra-compact (5 cm distance)
1-year pre-paid Cloud access	Manifold 4" for modular configuration standard (60 cm distance)
3-year pre-paid Cloud access	Manifold 4" for modular configuration ultra-compact (5 cm distance)
Flow switch	DHW kit including a water temperature probe, a 230 V motorised 3 way valve



ECOi-W AQUA 20-40 C/H/E - R410A

Air cooled chillers, heat pumps and condensing units.

Cooling capacity: 19,3 to 40,9 kW.

Heating capacity: 19,5 to 41,6 kW.



The range at a glance

- 3 versions: C (chiller), H (heat pump) and E (condensing unit)
- SEER up to 4,59
- SCOP up to 3,40
- 5 sizes (4 sizes for E type)
- 2 configurations: STD (standard) and HPF (high pressure fan)

Advantages

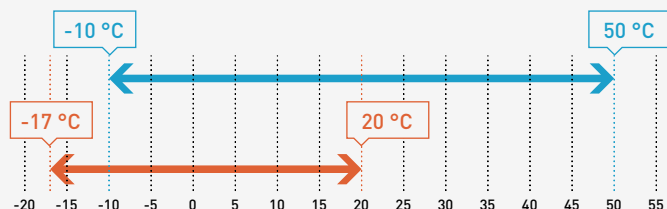
- Very high performance
- Low noise units
- Wide operating limits
- Easy maintenance: great accessibility to the internal components
- Low footprint
- Smart defrost technology: 1 defrost every 130 minutes for a constant LWT even at very low OAT (H type)
- Optimised for partial load operation
- 100% factory tested

Operating limits

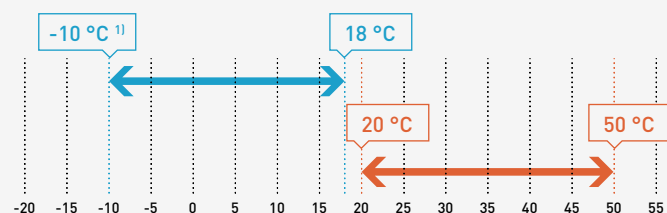
To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Ambient temperature (chiller, heat pump and condensing unit).



Leaving water temperature (chiller and heat pump).



1) With glycol, 5 °C without glycol.

Equipment

- 1 refrigerant circuit with tandem scroll compressors for a higher efficiency at partial load
- Stainless steel plate heat exchanger insulated with closed cell synthetic foam (C/H types)
- Finned coil condenser constructed with seamless copper tubes mechanically expanded into aluminium fins - Bluefin treatment for H type
- Hydraulic circuit without pump (C type) / without or with a fixed speed pump (H type)
- Super low noise units: acoustic box around the compressors
- Complete integrated control system with an external control panel that displays operating parameters and alarms
- Modbus RTU communication protocol as standard
- Night mode for energy savings and reduced sound levels
- Double water set point (H type)
- Water compensation curve control (C/H types)
- Return and leaving water temperature control (C/H types)
- Water filter and water flow switch (C/H types)
- Phase sequence monitor
- Suction and liquid line shut-off valves + a suction receiver (E type)

AC SELECT.

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Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>





Technical performance

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
Size			20	25	30	35	40
ECOi-W AQUA 20-40 C - chiller			P-AQAE0020CA	P-AQAE0025CA	P-AQAE0030CA	P-AQAE0035CA	P-AQAE0040CA
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
EER ¹⁾			3,25	3,17	2,9	3,01	3,0
SEER ^{2) 3)}			4,78	4,38	4,43	4,43	4,48
η_{s,c} ^{2) 3)}			188	172	174	174	176
Nominal water flow (in the evaporator)	m³/h		3,3	4,2	4,7	6,3	6,7
Sound power (STD fan)	dB(A)		75	76	76	77	77
Sound pressure at 10 m (STD fan) ⁴⁾	dB(A)		42,8	43,8	43,8	44,8	44,8
ECOi-W AQUA 20-40 H - heat pump			P-AQAE0020HA	P-AQAE0025HA	P-AQAE0030HA	P-AQAE0035HA	P-AQAE0040HA
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
EER ¹⁾			3,15	3,07	2,81	2,92	2,92
SEER ²⁾			4,68	4,31	4,28	4,25	4,33
η_{s,c} ²⁾			184	169	168	167	170
Nominal water flow (in the evaporator)	m³/h		3,3	4,3	4,6	6,2	6,4
Heating capacity ⁵⁾	kW		19,5	26,9	29,7	37,3	41,6
Input power ⁵⁾	kW		6,1	9,3	9,9	13,2	13,5
COP ⁵⁾			3,19	2,90	2,99	2,82	3,08
COP ⁶⁾			4,17	4,10	4,10	4,11	3,86
SCOP ^{2) 7)}			3,50	3,38	3,45	3,50	3,50
Energy efficiency class ^{2) 7)}		A+++ to D	A+	A+	A+	A+	A+
η_{s,h} ^{2) 7)}			137	132	135	137	137
Nominal water flow (in the evaporator)	m³/h		3,4	4,7	5,2	6,5	7,2
Sound power (STD fan)	dB(A)		75	76	76	77	77
Sound pressure at 10 m (STD fan) ⁴⁾	dB(A)		42,8	43,8	43,8	44,8	44,8
ECOi-W AQUA 25-40 E - condensing unit			—	P-AQAE0025EA	P-AQAE0030EA	P-AQAE0035EA	P-AQAE0040EA
Cooling capacity ⁸⁾	kW		—	32,4	33,7	43,1	44,8
Input power ⁸⁾	kW		—	10,0	10,7	14,9	15,0
EER ⁸⁾			—	3,24	3,15	2,90	2,99
Sound power	dB(A)		—	75	75	76	76

Physical features

ECOi-W AQUA 20-40 C/H - chiller / heat pump			20	25	30	35	40
Dimension	Height (STD / HPF)	mm	1983 / 2025	1983 / 2025	1983 / 2025	1983 / 2025	1983 / 2025
	Width w/o / w water tank	mm	1000 / 1507	1000 / 1507	1000 / 1507	1000 / 1507	1000 / 1507
	Length	mm	1000	1000	1000	1000	1000
Operating weight without / with water tank - 1 pump			kg	285 / 450	295 / 460	325 / 490	335 / 500
Water connections							
Type of connections (evaporator)			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/outlet diameter	Inch		1 ½	1 ½	1 ½	1 ½	1 ½
ECOi-W AQUA 25-40 E - condensing unit			—	25	30	35	40
Dimension	HxWxL	mm	—	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000
Operating weight			kg	—	260	270	280
Refrigerant connections							
Liquid / suction line	Inch		— / —	5/8 / 1 ½	5/8 / 1 ½	5/8 / 1 ½	5/8 / 1 ½

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 5) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 6) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 7) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 8) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according to EN 14511-2013 standard.

*w/o: without, w: with.

Accessories and options

Anti-vibration rubber mount / spring dampers
BACnet IP or BACnet MSTP
Fan speed control
Finned coil blygold treatment (upon request) or epoxy
High pressure fan (HPF)

Accessories and options

Modbus TCP/IP
Outdoor coil protection grid
Nordic pack (H type only)
Shut off valves
Soft starter

Accessories and options

Variable or fixed* speed pumps
Water pressure switch
Water tank 100 L
Without neutral (upon request)

*Not available with ECOi-W AQUA C and ECOi-W AQUA H 20-30 due to Ecodesign compliance.

Accessories supplied loose

P-375281 SRC – mini BMS controller
P-372061 Remote keyboard panel
P-372615 Kit 4G modem

Accessories supplied loose

SVC-HYD-COMM-CLD1 1-year pre-paid Cloud access
SVC-HYD-COMM-CLD3 3-year pre-paid Cloud access
P-378016 Kit anti-vibration mount rubber



ECOi-W AQUA-Z EVO 40-50 H - R32

Air cooled heat pumps Inverter.

Cooling capacity: 41 to 48 kW.

Heating capacity: 42 to 49 kW.

R32
REFRIGERANT



The range at a glance

- 1 version: H (heat pump)
- 2 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

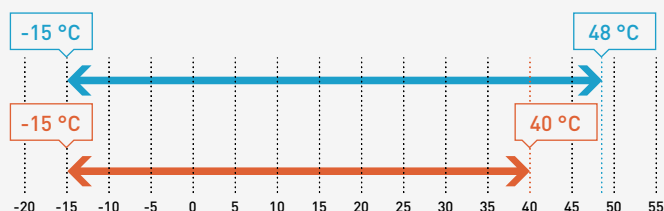
- Low GWP R32 refrigerant (GWP= 675)
- Inverter driven compressor
- Very high performance (SEER up to 5,65, SCOP up to 4,52)
- Low energy consumption
- Expanded operating limit (LWT 58 °C with OAT 40 °C)
- Compact chassis
- Very quiet operation
- Cascade configuration through MAIN/SUB management: up to 8 units
- SG Ready
- Very low refrigerant charge
- Removable panels for great accessibility to internal components

Operating limits

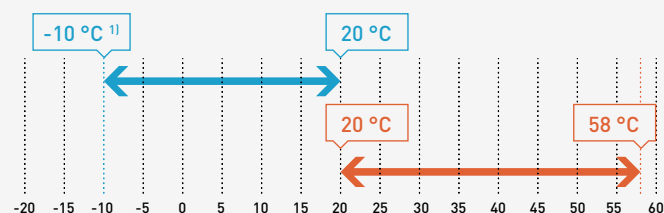
To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Ambient temperature.



Leaving water temperature.



Operating limits at nominal speed.

1) Below 5 °C, glycol is required.

Equipment

- 1 refrigerant circuit with Inverter scroll compressors for a higher efficiency at partial load
- EC fan
- Stainless steel plate heat exchanger insulated with closed cell synthetic foam
- Finned coil condenser constructed with seamless copper tubes mechanically expanded into aluminium fins - Bluefin treatment
- Hydraulic circuit without pump
- Complete integrated control system with an external control panel that displays the operating parameters and alarms
- Modbus RTU, Modbus TCP/IP
- Reduced mode for energy savings and low sound levels
- Electronic expansion valve
- Return or leaving water temperature control
- External switch (cooling/heating, ON / OFF, reduced mode)
- Water filter and differential pressure switch
- Phase sequence monitor
- Without neutral
- DHW function available on the controller with DHW probe and 3 way valve available as options

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>





Technical performance

Power supply	Voltage	V	400	400
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Size			40	50
ECOi-W AQUA-Z EVO 40-50 H EC fan - heat pump			P-AQAVZ0040HA	P-AQAVZ0050HA
Cooling capacity ¹⁾	kW		41,0	48,2
Input power ¹⁾	kW		12,8	15,1
EER ¹⁾			3,20	3,19
SEER ²⁾			5,59	5,65
$\eta_{s,c}$ ²⁾	%		221	223
Heating capacity ³⁾	kW		41,5	48,5
Input power ³⁾	kW		13,4	16,2
COP ³⁾			3,10	2,99
SCOP ⁴⁾			4,22	4,52
$\eta_{s,h}$ ⁴⁾			166	178
Energy efficiency class (SCOP) ⁴⁾		A+++ to D	A+++	A+++
Sound power [STD / S]	dB(A)		79,5 / 78,5	80,5 / 79,5
Sound pressure at 10 m [STD / S] ⁵⁾	dB(A)		47,8 / 46,8	48,8 / 47,8

Physical features

ECOi-W AQUA-Z EVO 40-50 H EC fan - heat pump			40	50
Dimension	Height	mm	1732	1732
	Length w/o / w water tank	mm	2209 / 2913 ⁶⁾	2209 / 2913 ⁶⁾
	Width	mm	1100	1100
Operating weight		kg	348	368
Refrigerant and compressors				
Number of refrigerant circuits			1	1
Refrigerant (R32)		kg	5	6
GWP ⁷⁾		CO ₂ eq.	675	675
Compressors	Number / type		1 / Scroll Inverter	1 / Scroll Inverter
Capacity steps		%	0-100	0-100
Water connections				
Type of connections			Male gas threaded	Male gas threaded
Inlet/outlet diameter		Inch	1 ¼	1 ¼
Buffer tank (option)				
Volume		l	200	200

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and following COMMISSION REGULATION (EU) 2016/2281. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and following COMMISSION REGULATION (EU) No 813/2013: low temperature application. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 6) Tank is external to the unit chassis. 7) Based on the Sixth Assessment Report (AR6) adopted by the Intergovernmental Panel on Climate Change (IPCC).

*w/o: without, w: with.

Accessories and options

BACnet MSTP or BACnet IP
Energy meter for power input
Coil guards
Compressor jackets
Variable speed pumps
Water filter
Water flow switch

Accessories and options

Water tank
Fin&Tube Al/Cu with epoxy
Anti-vibration mount rubber
Anti-vibration spring
Kit water flow switch
Water pressure switch
Shut off valves

Accessories supplied loose

P-364735 Kit remote control

Accessories supplied loose

P-3721027 Kit DHW



ECOi-W AQUA-Z 50-170 C/H - R32

Air cooled chillers and heat pumps.

Cooling capacity: 51,6 to 173,0 kW.

Heating capacity: 51,7 to 180,0 kW.

R32
REFRIGERANT



The range at a glance

- 2 versions: C (chiller) and H (heat pump)
- 10 sizes
- SEER up to 4,88 (STD AC) / 5,31 (STD EC)
- SCOP up to 3,72 (STD AC) / 4,10 (STD EC)
- 2 configurations: STD (standard) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (high-efficiency fan)
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

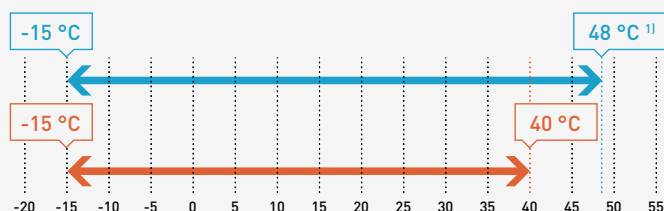
- Low GWP R32 refrigerant (GWP= 675)
- Very high-efficiency
- Wide operating limits
- Low footprint: one of the smallest footprint on the market with only 2,53 m² for sizes 50-130 and 4,36 m² for sizes 150-170
- Reduced sound levels: S version (super low noise) with EC fan and compressor sound jackets
- New advanced control system
- Easy maintenance: great accessibility to the internal components
- Cascade controller available for multi system operation
- SG Ready
- 100% factory tested

Operating limits

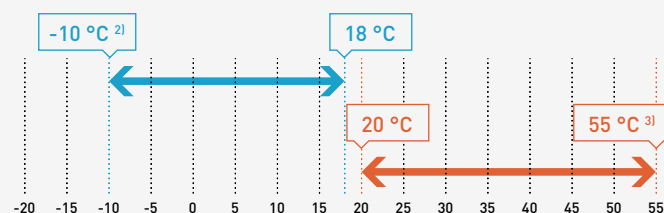
To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Ambient temperature.



Leaving water temperature.



1) 47 °C for sizes 150-170.

2) With glycol, 5 °C without glycol.

3) 53 °C for sizes 150-170.

Equipment

- 1 refrigerant circuit with tandem scroll compressors for a higher efficiency at partial load
- Stainless steel plate heat exchanger insulated with closed cell synthetic foam
- Finned coil condenser constructed with seamless copper tubes mechanically expanded into aluminium fins - Bluefin treatment for H type
- Hydraulic circuit without pump
- Complete integrated control system with an external control panel that displays the operating parameters and alarms
- Modbus RTU, Modbus TCP/IP, BACnet MSTP or BACnet IP
- Night mode for energy savings and reduced sound levels
- Electronic expansion valve
- Water compensation curve control
- Return and leaving water temperature control
- External switch (cooling/heating, night mode, load shedding)
- Water filter and water flow switch
- Phase sequence monitor
- Without neutral

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>





Technical performance

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
Size			50	60	70	75	85	100	115	130	150	170
ECOi-W AQUA-Z 50-170 C - chiller	P-AQAZ****CA	0050	0060	0070	0075	0085	0100	0115	0130	0150	0170	
Cooling capacity ¹⁾	kW		51,6	57,6	69,7	78,2	82,8	100	116	126	154	173
Input power ¹⁾	kW		16,5	19,6	22,4	24	26,8	31,4	37,4	42,3	47,4	55,7
EER (STD AC / STD EC) ^{*1)}			3,13/3,25	2,94/3,03	3,11/3,29	3,26/3,41	3,09/3,23	3,18/3,30	3,10/3,20	2,98/3,07	3,25/3,38	3,11/3,20
SEER (STD AC / STD EC) ^{*2) 3)}			4,60/5,05	4,59/5,02	4,61/5,31	4,72/5,29	4,45/4,96	4,88/5,19	4,59/5,01	4,43/4,71	4,70/5,22	4,68/5,16
η _{s,c} (STD AC / STD EC) ^{*2) 3)}			180,9 / 198,9	180,5 / 197,8	181,3 / 209,6	185,6 / 208,7	175,0 / 195,6	192,3 / 204,9	180,5 / 197,3	174,2 / 185,6	184,8 / 205,6	184,2 / 203,2
Nominal water flow (in the evaporator)	m³/h		9,2	10,6	12,2	13,2	14,7	17,9	21,1	23,5	27,2	30,7
Sound power (STD AC / S) *	dB(A)		83 / 81	84 / 81	81 / 78	81 / 78	84 / 82	86 / 83	87 / 84	87 / 84	89 / 86	91 / 88
Sound pressure at 10 m (STD AC / S) ^{*4)}	dB(A)		51 / 49	52 / 49	50 / 47	49 / 46	52 / 50	54 / 51	55 / 52	55 / 53	57 / 54	59 / 56
ECOi-W AQUA-Z 50-170 H - heat pump	P-AQAZ****HA	0050	0060	0070	0075	0085	0100	0115	0130	0150	0170	
Cooling capacity ¹⁾			51,1	57	69	77,4	82	99,3	115	125	152	170
Input power ¹⁾			16,7	19,8	22,6	24,3	27,1	31,8	37,7	42,7	47,9	57,1
EER (STD AC / STD EC) ^{*1)}			3,06/3,17	2,88/2,97	3,05/3,22	3,19/3,35	3,03/3,17	3,12/3,25	3,05/3,14	2,93/3,00	3,17/3,30	2,98/3,07
EER (STD AC / STD EC) ^{*5)}			3,53/3,67	3,40/3,50	3,57/3,64	3,78/3,96	3,52/3,66	3,63/3,76	3,51/3,54	3,39/3,50	3,63/3,76	3,39/3,56
SEER (STD AC / STD EC) ^{*2)}			4,46/4,83	4,42/4,50	4,51/5,04	4,61/4,99	4,33/4,80	4,77/4,93	4,44/4,82	4,23/4,51	4,59/5,04	4,49/4,92
η _{s,c} (STD AC / STD EC) ^{*2)}			175,2 / 190,2	173,6 / 176,9	177,5 / 198,8	181,5 / 196,7	170,3 / 188,9	187,7 / 194,1	174,6 / 190,0	166 / 177,2	180,5 / 198,7	176,6 / 193,8
Nominal water flow (in the evaporator)	m³/h		8,7	10,6	12,2	13,2	14,7	17,9	21,1	23,5	27,2	30,7
Heating capacity ⁶⁾	kW		51,7	59,7	71,8	78,5	86,5	107,6	122,3	137,5	159,1	180,1
Input power ⁶⁾	kW		17,1	19,9	22,9	25,0	28,0	33,6	38,2	42,4	49,8	56,2
COP (STD AC / STD EC) ^{*6)}			3,01/3,27	2,99/3,21	3,13/3,43	3,13/3,19	3,08/3,30	3,20/3,45	3,20/3,42	3,24/3,42	3,19/3,48	3,20/3,40
COP (STD AC / STD EC) ^{*7)}			3,81/4,00	3,80/3,92	3,92/4,21	3,91/4,16	3,92/4,16	3,99/4,19	4,10/4,26	4,04/4,12	4,07/4,31	4,02/4,16
SCOP (STD AC / STD EC) ^{*2) 8)}			3,53/3,90	3,54/3,94	3,47/3,71	3,65/3,80	3,60/4,02	3,64/4,10	3,66/4,02	3,72/3,97	3,57/4,04	3,60/3,95
Energy efficiency class (STD AC / STD EC) ^{*2) 7)}	A+++ to D		A+ / A+	A+ / A+	A+ / A++	A+ / A++	A+ / A++	— / —	— / —	— / —	— / —	— / —
η _{s,h} (STD AC / STD EC) ^{*2) 7)}			138,0 / 152,8	138,5 / 154,5	135,6 / 145,3	143,2 / 148,8	141,2 / 157,8	142,5 / 160,9	143,2 / 157,9	145,7 / 155,9	139,9 / 158,4	140,9 / 155,2
Nominal water flow (in the evaporator)	m³/h		9,3	10,7	12,5	13,9	15,0	18,3	21,5	23,9	27,5	31,7
Sound power (STD AC / S) *	dB(A)		83 / 81	84 / 81	81 / 78	81 / 78	84 / 82	86 / 83	87 / 84	87 / 84	89 / 86	91 / 88
Sound pressure at 10 m (STD AC / S) ^{*4)}	dB(A)		51 / 49	52 / 49	50 / 47	50 / 46	52 / 50	54 / 51	55 / 52	56 / 53	57 / 54	59 / 56

Physical features

ECOi-W AQUA-Z 50-170 C/H - chiller / heat pump			50	60	70	75	85	100	115	130	150	170
Dimension	Height (STD / EC/HPF)	mm	1986/2034	1986/2034	1986/2034	1986/2034	2286/2334	2286/2334	2286/2334	2286/2334	2285/2333	2285/2333
	Width	mm	1160	1160	1160	1160	1160	1160	1160	1160	1151	1151
	Length without water tank	mm	2180	2180	2180	2180	2180	2180	2180	2180	3789	3789
Operating weight without water tank - 1 pump		kg	527	547	621	637	701	731	813	815	1265	1279
Water connections												
Type of connections (evaporator)			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	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/outlet diameter		Inch	2	2	2	2	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½

1) According to EN 14511-2018: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 5) According to EN 14511-2018: chilled water inlet/outlet temperature: 23/18 °C, outdoor ambient temperature 35 °C DB. 6) According to EN 14511-2018: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 7) According to EN 14511-2018: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 8) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013.

*STD AC: standard version with AC fan, STD EC: standard version with high-efficiency EC fan, S: super low noise version with high-efficiency EC fan + compressor sound jackets.

Accessories and options

Anti-vibration rubber mount / spring dampers *

Compressor jackets (standard for S versions)

Desuperheater

Electric heater for the water tank

Fin&Tube Al/Cu with epoxy / Blygold treatment

High efficiency EC fan

High pressure fan (HPF)

Accessories and options

Outdoor coil protection grid

Power factor corrector capacitors

Refrigerant gauges HP/LP

Shut off valves

Soft starter

Variable speed pumps

Water pressure switch *

Accessories and options

Water tank 300 L

Without neutral

Communication protocols: Modbus RTU (Std.), Modbus TCP/IP, BACnet MSTP, BACnet IP

*Field-installed accessories. All other accessories are factory-installed.

Accessories supplied loose

P-375281 SRC – mini BMS controller

P-586595 Cascade controller

P-372061 Remote keyboard panel

Accessories supplied loose

P-372615 Kit 4G modem

SVC-HYD-COMM-CLD1 1-year pre-paid Cloud access

SVC-HYD-COMM-CLD3 3-year pre-paid Cloud access





ECOi-W AQUA-Z DC 150-380 C/H · R32

Air cooled chillers and heat pumps.

Cooling capacity: 151 to 377 kW (single unit). **NEW!** Up to 754 kW (twin units).

Heating capacity: 154 to 384 kW (single unit). **NEW!** Up to 768 kW (twin units).

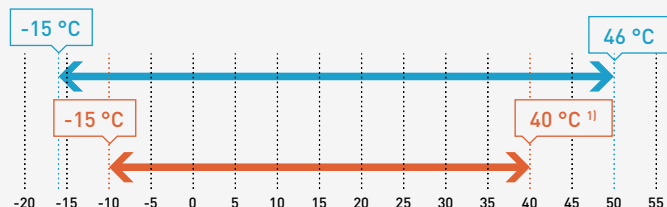
R32
REFRIGERANT



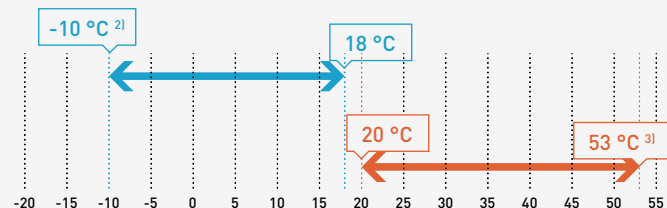
Operating limits

To be confirmed with AC SELECT:
<https://acselect.panasonic.eu/>

Ambient temperature.



Leaving water temperature.



1) With EC fans. 2) With glycol, 5 °C without glycol. 3) 55 °C sizes 150-170.

The range at a glance

- 2 versions: C (chiller) and H (heat pump)
- **NEW!** Single and twin (back-to-back) configurations
- Single unit: 10 sizes for C version and 13 sizes for H version in 3 different chassis
- SEER up to 4,93 (STD AC) / 5,23 (STD EC)
- SCOP up to 3,90 (STD AC) / 4,00 (STD EC)
- 2 configurations: STD (standard) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (high-efficiency fan)
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- Low GWP R32 refrigerant (GWP= 675)
- Double circuit units able to work in partial load from around 20% of total capacity
- Very high-efficiency
- Wide operating limits
- Reduced sound levels: S version (super low noise) with EC fan and compressor sound jackets for sizes 150-380, additional compressor box for sizes 190-380
- Advanced control logic
- Easy maintenance: great accessibility to the internal components
- Cascade configuration available for multi system operation with capacity boost up to 3040 kW (for single unit)
- SG Ready
- 100% factory tested

Equipment for single units

- 2 refrigerant circuits with tandem scroll compressors for a higher efficiency at partial load
- Stainless steel plate heat exchanger insulated with closed cell synthetic foam
- Microchannel coils only for C version (sizes 190-380)
- Fin&Tube coil condenser constructed with seamless copper tubes mechanically expanded into aluminium fins
- Bluefin treatment for H version
- Hydraulic circuit without pump
- Complete integrated control system with an external control panel that displays the operating parameters and alarms
- Modbus RTU, Modbus TCP/IP, BACnet MSTP or BACnet IP
- Digital input for Night Mode, Demand mode or Eco Mode for energy savings and reduced sound levels
- Electronic expansion valve
- Water compensation curve control
- Return and leaving water temperature control
- Water flow switch (sizes 150-170)
- Differential pressure switch (sizes 190-380)
- Phase sequence monitor
- Automatic circuit breaker
- Without neutral

NEW! Equipment for twin units

In addition to single units equipment:

- Mechanical, hydraulic (without pump), and control-wise connection, as a single chassis



Technical performance – Single units

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400			
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase			
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50			
Size			150	170	190	210	230	260	290	320	350	380			
ECOi-W AQUA-Z DC 150-380 C - chiller	P-AQADZ****CA		STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC			
Cooling capacity ¹⁾	kW		151,0/ 151,0	170,0/ 170,0	189,0/ 189,0	212,0/ 214,0	229,0/ 229,0	260,0/ 260,0	307,0/ 307,0	326,0/ 325,0	346,0/ 347,0	377,0/ 377,0			
Input power ¹⁾	kW		49,7/ 49,0	56,7/ 55,9	59,4/ 57,3	69,1/ 66,5	75,1/ 72,7	90,0/ 87,8	95,9/ 92,5	104,2/ 100,0	112,0/ 108,1	126,9/ 122,8			
EER ¹⁾			3,04/3,08	3,00/3,04	3,18/3,30	3,07/3,22	3,05/3,15	2,89/2,96	3,20/3,32	3,13/3,25	3,09/3,21	3,00/3,10			
SEER ²⁾			4,93/5,20	4,90/5,15	4,68/5,23	4,62/5,20	4,48/4,90	4,40/4,79	4,63/5,13	4,33/5,12	4,43/4,79	4,35/4,80			
η _{s,c} ²⁾	%		194,0/ 204,0	192,8/ 203,0	184,3/ 206,1	181,8/ 204,8	176,3/ 192,9	173,1/ 188,4	182,0/ 202,2	170,0/ 188,8	174,2/ 188,5	171,0/ 188,8			
Cooling capacity (A 35 °C, W 23/18 °C)	kW		191,0/ 193,0	213,0/ 217,0	242,0/ 243,0	269,0/ 271,0	294,0/ 295,0	331,0/ 339,7	389,0/ 390,0	415,0/ 412,0	442,0/ 444,0	483,0/ 484,0			
Input power (A 35 °C, W 23/18 °C)	kW		53,8/ 52,7	62,1/ 61,2	64,2/ 61,3	74,5/ 71,6	82,9/ 79,9	98,2/ 96,8	103,0/ 99,4	112,0/ 109,0	123,0/ 119,0	139,0/ 136,0			
Water flow	m³/h		26,0/25,9	29,2/29,2	32,5/32,5	36,5/36,8	39,4/39,4	44,7/44,7	52,8/52,8	56,1/55,9	59,5/59,7	64,8/64,8			
Sound power (STD) ⁵⁾	dB(A)		89,6/89,0	90,4/89,9	91,1/90,9	91,5/1,3	92,0/91,9	92,4/92,3	93,3/93,1	94,3/94,2	95,2/95,1	95,4/95,3			
Sound pressure (STD)	dB(A)		57,5/56,9	58,3/57,8	59,0/58,8	59,4/59,2	59,9/59,8	60,3/60,2	61,1/60,9	62,1/62,0	63,0/62,9	63,2/63,1			
Sound power (S) ⁵⁾	dB(A)		—/85,0	—/85,4	—/87,2	—/87,4	—/87,6	—/87,8	—/88,6	—/89,7	—/90,1	—/90,3			
Sound pressure (S)	dB(A)		—/52,9	—/53,3	—/55,1	—/55,3	—/55,5	—/55,7	—/56,4	—/57,5	—/57,9	—/58,1			
Size			150	170	190	210	220	230	260	270	290	300	320	350	380
ECOi-W AQUA-Z DC 150-380 H - heat pump	P-AQADZ****HA		STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD EC	STD AC/EC	STD AC/EC	STD EC	STD AC/EC	STD EC	STD AC/EC	STD AC/EC	STD AC/EC
Cooling capacity ¹⁾	kW		150,0/ 150,0	167,0/ 167,0	184,0/ 183,0	204,0/ 204,0	208,0	224,0/ 224,0	251,0/ 251,0	265,0	291,1/ 289,3	295,0	307,7/ 310,7	330,0/ 331,0	364,0/ 364,3
Input power ¹⁾	kW		49,7/ 49,0	56,6/ 55,9	62,0/ 59,6	72,1/ 69,9	67,3	76,7/ 74,4	93,0/ 90,6	83,1	101,3/ 96,6	93,1	107,5/ 103,3	114,2/ 110,0	131,7/ 128,1
Total EER ¹⁾			3,02/ 3,06	2,95/ 2,99	2,97/ 3,07	2,83/ 2,92	3,09	2,92/ 3,01	2,7/ 2,77	3,19	2,87/ 2,99	3,17	2,86/ 3,00	2,89/ 3,01	2,76/ 2,84
Total EER (A 35 °C, W 23/18 °C)			3,53/ 3,60	3,41/ 3,51	3,41/ 3,58	3,22/ 3,37	3,63	3,45/ 3,60	3,12/ 3,18	3,83	3,32/ 3,46	3,72	3,31/ 3,52	3,32/ 3,52	3,16/ 3,30
SEER ²⁾			4,75/ 5,03	4,71/ 4,97	4,45/ 4,94	4,39/ 4,82	5,03	4,34/ 4,71	4,21/ 4,55	5,01	4,34/ 4,83	5,01	4,33/ 4,89	4,40/ 4,79	4,34/ 4,65
η _{s,c} ²⁾	%		187,1/ 198,1	185,3/ 195,7	175,2/ 194,6	172,5/ 189,6	198,0	170,6/ 185,5	165,5/ 179,1	197,5	170,4/ 190,1	197,3	170,0/ 192,4	172,9/ 188,5	170,5/ 182,9
Water flow	m³/h		25,8/ 25,8	28,7/ 28,7	31,6/ 31,5	35,1/ 35,1	35,8	38,5/ 38,5	43,2/ 43,2	45,6	50,1/ 49,8	50,7	52,9/ 53,4	56,8/ 56,9	62,6/ 62,7
Heating capacity ³⁾	kW		154,0/ 154,0	178,0/ 179,0	190,0/ 190,0	201,0/ 201,0	219,0	241,0/ 241,0	256,9/ 258,5	288,0	285,6/ 284,8	312,0	301,3/ 316,5	337,0/ 340,0	384,0/ 384,5
Input power ³⁾	kW		48,8/ 48,2	54,9/ 54,4	61,3/ 58,6	68,5/ 65,9	67,0	75,4/ 72,0	87,6/ 85,0	88,3	97,5/ 93,2	94,6	103,2/ 100,1	111,0/ 107,0	128/ 122,4
Total COP ³⁾			3,16/ 3,20	3,24/ 3,29	3,10/ 3,24	2,93/ 3,05	3,27	3,20/ 3,35	2,93/ 3,04	3,26	2,93/ 3,05	3,30	2,92/ 3,16	3,04/ 3,18	3,00/ 3,14
Total COP (A 7 °C, W 30/35 °C)			3,67/ 3,82	3,98/ 4,04	3,57/ 3,80	3,43/ 3,59	4,01	3,86/ 4,04	3,56/ 3,68	4,00	3,47/ 3,61	3,86	3,45/ 3,86	3,69/ 3,82	3,54/ 3,66
SCOP ⁴⁾			3,83/ 4,00	3,90/ 4,00	3,46/ 3,89	3,44/ 3,90	3,86	3,64/ 3,99	3,52/ 3,85	3,82	3,51/ 3,91	3,92	3,50/ 3,85	3,50/ 3,87	3,66/ 3,95
η _{s,h} ⁴⁾	%		150,0/ 157,1	152,8/ 156,8	135,6/ 152,7	134,7/ 152,8	151,3	142,5/ 156,4	137,9/ 151,0	149,7	137,4/ 153,2	153,7	137,0/ 151,2	136,9/ 151,9	143,4/ 155,1
Water flow	m³/h		26,5/ 26,5	30,6/ 30,8	32,7/ 32,7	34,6/ 34,6	37,7	41,5/ 41,5	44,2/ 44,5	49,5	49,1/ 49,0	53,7	51,8/ 54,4	58,0/ 58,5	66,0/ 66,1
Sound power (STD) ⁵⁾	dB(A)		89,6/ 89,0	90,4/ 89,9	91,1/ 90,9	91,5/ 91,3	91,3	92,0/ 91,9	92,4/ 92,3	92,8	93,3/ 93,1	93,1	94,3/ 94,2	95,2/ 95,1	95,4/ 95,3
Sound pressure (STD)	dB(A)		57,5/ 56,9	58,3/ 57,8	59,0/ 58,8	59,4/ 59,2	59,2	59,9/ 59,8	60,3/ 60,2	60,7	61,1/ 60,9	60,9	62,1/ 62,0	63,0/ 62,9	63,2/ 63,1
Sound power (S) ⁵⁾	dB(A)		—/ 85,0	—/ 85,4	—/ 87,2	—/ 87,4	87,4	—/ 87,6	—/ 87,8	88,5	—/ 88,6	88,6	—/ 89,7	—/ 90,1	—/ 90,3
Sound pressure (S)	dB(A)		—/ 52,9	—/ 53,3	—/ 55,1	—/ 55,3	55,3	—/ 55,5	—/ 55,7	56,4	—/ 56,4	56,4	—/ 57,5	—/ 57,9	—/ 58,1

1) According to EN 14511-2018: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and Following COMMISSION REGULATION (EU) 2016/2281.

3) According to EN 14511-2018: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and Following COMMISSION REGULATION (EU) No 813/2013. 5) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard.



Technical performance – NEW! Twin units

Power supply	Voltage	V	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Size			420 (210+210)	460 (230+230)	520 (260+260)	580 (290+290)	640 (320+320)	700 (350+350)	760 (380+380)	
ECOi-W AQUA-Z DC 420-760 C - chiller	P-AQADZ****CA	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC	STD AC/EC
Cooling capacity ¹⁾	kW	424,0/428,0	458,0/458,0	520,0/520,0	614,0/614,0	652,0/650,0	692,0/694,0	754,0/754,0		
Input power ¹⁾	kW	138,2/133	150,2/145,4	180/175,6	191,8/185	208,4/200	224/216,2	253,8/245,6		
EER ¹⁾		3,07/3,22	3,05/3,15	2,89/2,96	3,20/3,32	3,13/3,25	3,09/3,21	3,0/3,1		
SEER ²⁾		4,62/5,20	4,48/4,90	4,40/4,79	4,63/5,13	4,33/5,12	4,43/4,79	4,35/4,8		
$\eta_{s,c}$ ²⁾	%	181,8/204,8	176,3/192,9	173,1/188,4	182,0/202,2	170,0/188,8	174,2/188,5	171,0/188,8		
Cooling capacity (A 35 °C, W 23/18 °C)	kW	538/542	588/590	662/679	778/780	830/824	884/888	966/968		
Input power (A 35 °C, W 23/18 °C)	kW	149/143	166/160	196/194	206/199	224/218	246/238	278/272		
Water flow	m ³ /h	72,9/73,6	78,8/78,8	89,4/89,4	105,6/105,6	112,1/111,8	119/119,4	129,7/129,7		
Sound power [STD] ⁵⁾	dB(A)	95,5/95,3	96/95,9	96,4/96,3	97,3/97,1	98,3/98,2	99,2/99,1	99,4/99,3		
Sound pressure [STD]	dB(A)	63,4/63,2	63,9/63,8	64,3/64,2	65,1/64,9	66,1/66	67/66,9	67,2/67,1		
Sound power [S] ⁵⁾	dB(A)	—/91,4	—/91,6	—/91,8	—/92,6	—/93,7	—/94,1	—/94,3		
Sound pressure [S]	dB(A)	—/59,3	—/59,5	—/59,7	—/60,4	—/61,5	—/61,9	—/62,1		

Size		420 (210+210)	440 (220+220)	460 (230+230)	520 (260+260)	540 (270+270)	580 (290+290)	600 (300+300)	640 (320+320)	700 (350+350)	760 (380+380)
ECOi-W AQUA-Z DC 420-7600 H - heat pump	P-AQADZ****HA	STD AC/EC	STD EC	STD AC/EC	STD AC/EC	STD EC	STD AC/EC	STD EC	STD AC/EC	STD AC/EC	STD AC/EC
Cooling capacity ¹⁾	kW	408,0/408,0	416	448,0/448,0	502,0/502,0	530	582,2/578,6	590	615,4/617,8	660,0/662,0	728,0/728,6
Input power ¹⁾	kW	144,2/139,8	134,6	153,4/148,8	185,9/181,2	166,1	202,5/193,3	186,1	215/206,7	228,4/219,9	263,5/256,3
Total EER ¹⁾		2,83/2,92	3,09	2,92/3,01	2,7/2,77	3,19	2,87/2,99	3,17	2,86/3,00	2,89/3,01	2,76/2,84
Total EER (A 35 °C, W 23/18 °C)		3,22/3,37	3,63	3,45/3,60	3,12/3,18	3,83	3,32/3,46	3,72	3,31/3,52	3,32/3,52	3,16/3,30
SEER ²⁾		4,39/4,82	5,03	4,34/4,71	4,21/4,55	5,01	4,34/4,83	5,01	4,33/4,89	4,40/4,79	4,34/4,65
$\eta_{s,c}$ ²⁾	%	172,5/189,6	198	170,6/185,5	165,5/179,1	197,5	170,4/190,1	197,3	170/192,4	172,9/188,5	170,5/182,9
Water flow	m ³ /h	70,2/70,2	71,6	77,1/77,1	86,3/86,3	91,2	100,1/99,5	101,5	105,8/106,9	113,5/113,9	125,2/125,3
Heating capacity ³⁾	kW	402,0/402,0	438	482,0/482,0	513,8/517,0	576	571,2/569,6	624	602,6/612,2	674,0/680,0	768,0/769,0
Input power ³⁾	kW	137,0/131,8	134,0	150,5/144,0	195,2/170,0	176,6	195,0/186,4	189,2	204,4/200,2	222,0/214,0	256,0/244,8
Total COP ³⁾		2,93/3,05	3,27	3,20/3,35	2,93/3,04	3,26	2,93/3,05	3,30	2,92/3,16	3,04/3,18	3,00/3,14
Total COP (A 7 °C, W 30/35 °C)		3,43/3,59	4,01	3,86/4,04	3,56/3,68	4,00	3,47/3,61	3,86	3,45/3,86	3,69/3,82	3,54/3,66
SCOP ⁴⁾		3,44/3,90	3,86	3,64/3,99	3,52/3,85	3,82	3,51/3,91	3,92	3,50/3,85	3,50/3,87	3,66/3,95
$\eta_{s,h}$ ⁴⁾	%	134,7/152,8	151,3	142,5/156,4	137,9/151	149,7	137,4/153,2	153,7	137/151,2	136,9/151,9	143,4/155,1
Water flow	m ³ /h	69,1/69,1	75,3	82,9/82,9	88,4/88,9	99,1	98,2/98	107,3	103,6/108,9	115,9/117	132,1/132,3
Sound power [STD]	dB(A)	95,5/95,3	95,3	96/95,9	96,4/96,3	96,8	97,3/97,1	97,1	98,3/98,2	99,2/99,1	99,4/99,3
Sound pressure [STD] ⁵⁾	dB(A)	63,4/63,2	63,2	63,9/63,8	64,3/64,2	64,7	65,1/64,9	64,9	66,1/66	67/66,9	67,2/67,1
Sound power [S]	dB(A)	—/91,4	91,4	—/91,6	—/91,8	92,5	—/92,6	92,6	—/93,7	—/94,1	—/94,3
Sound pressure [S] ⁵⁾	dB(A)	—/59,3	59,3	—/59,5	—/59,7	60,4	—/60,4	60,4	—/61,5	—/61,9	—/62,1

1) According to EN 14511-2018: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and Following COMMISSION REGULATION (EU) 2016/2281.

3) According to EN 14511-2018: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and Following COMMISSION REGULATION (EU) No 813/2013. 5) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard.

**Physical features – Single units**

ECOi-W AQUA-Z DC 150-380 C/H - chiller / heat pump			150	170	190	210	220	230	260	270	290	300	320	350	380
Dimension	Height (STD AC) / (EC/HPF)	mm	2240 / 2312	2240 / 2312	2250 / 2300	2250 / 2300	— / 2300	2250 / 2300	2250 / 2300	— / 2300	2250 / 2300	— / 2300	2250 / 2300	2250 / 2300	2250 / 2300
	Width	mm	1096	1096	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211
	Length	mm	3795	3795	2650	2650	2650	2650	2650	3775	3775	3775	3775	3775	3775

Physical features NEW! Twin units

ECOi-W AQUA-Z DC 420-760 C/H - chiller / heat pump			420 (210+210)	440 (220+220)	460 (230+230)	520 (260+260)	540 (270+270)	580 (290+290)	600 (300+300)	640 (320+320)	700 (350+350)	760 (380+380)
Dimension	Height (STD AC) / (EC/HPF)	mm	2250 / 2300	— / 2300	2250 / 2300	2250 / 2300	— / 2300	2250 / 2300	— / 2300	2250 / 2300	2250 / 2300	2250 / 2300
	Width	mm	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211
	Length	mm	5310	5310	5310	5310	7556	7556	7556	7556	7556	7556

Accessories and options

Anti-vibration rubber mount *
BACnet IP or BACnet MSTP
Desuperheater for sizes 190-380 (single unit)
Energy meter for power input
Fin&Tube Al/Cu with epoxy / Blygold treatment
High efficiency EC fan
High pressure fan (HPF)
Mechanical gauges kit (HP and LP manometers)
Coil guards for sizes 150-170 (single unit)
Chiller grilles and drain pan for sizes 190-380

*Field-installed accessories. All other accessories are factory-installed.

Accessories and options

Power factor corrector capacitors
Shut off valves (single unit)*
Soft starter
Super low noise (S) version
Compressor jackets
Compressor box for sizes 190-380
Variable speed pumps
Water pressure switch
Water tank (single unit)

Accessories supplied loose

P-586595	Cascade controller (for single unit)
P-372061	Remote keyboard panel (for single unit)
P-364735	Remote keyboard panel (for twin units)
P-372615	Kit 4G modem
SVC-HYD-COMM-CLD1	1-year pre-paid Cloud access (for single unit)
SVC-HYD-COMM-CLD3	3-year pre-paid Cloud access (for single unit)
P-477042	Anti-vibration spring for sizes 150-170 (single unit)
P-477044	Anti-vibration spring for sizes 190-260 C version
P-477045	Anti-vibration spring for sizes 190-260 H version

Accessories supplied loose

P-477047	Anti-vibration spring for sizes 270-380
P-477043	Anti-vibration spring with tank for sizes 150-170
P-477046	Anti-vibration spring with tank for sizes 190-260
P-477048	Anti-vibration spring with tank for sizes 290-380 C version
P-477049	Anti-vibration spring with tank for sizes 270-380 H version
P-348619	Water filter (for single unit)
P-348620	Water filter (for twin units)
tbd	Back to back connection kit (for twin units)



ECOi-W AQV C/H/E - R410A

Air cooled chillers, heat pumps and condensing units.

Cooling capacity: 83,3 to 136,6 kW.

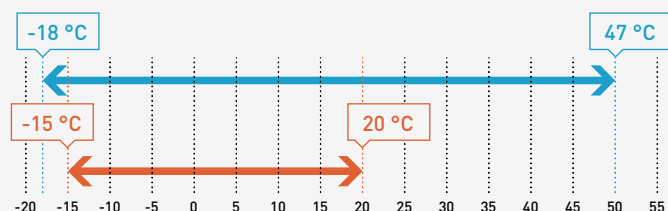
Heating capacity: 91,8 to 146,9 kW.



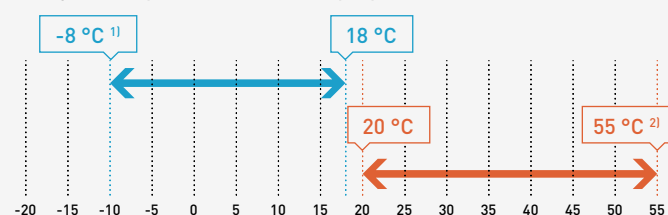
Operating limits

To be confirmed with AC SELECT:
<https://acselect.panasonic.eu/>

Ambient temperature (chiller and heat pump).



Leaving water temperature (chiller and heat pump).



1) With glycol, 5 °C without glycol.

2) Leaving water temperature maximum 55 °C (external air temperature minimum 6 °C) to be confirmed with AC SELECT selection software.

ECOi-W AQV 85-140 C/H - chiller / heat pump

		Cooling / heat pump		
Cooling	Outdoor air temperature	S	°C	From -18 to 44
		HT	°C	From -18 to 50 [85-115]
				From -18 to 47 [125-140]
Heating	Outdoor air temperature	S	°C	From -4 to 20
		Polar Version	°C	From -15 to 20
External static pressure		STD / HPF	Pa	0 / <120

ECOi-W AQV 85-140 E - condensing unit

Evaporating limit			°C	From 1 to 15
		STD	°C	From 0 to 48
Outdoor air temperature		S	°C	From -18 to 45
		HT	°C	From 0 to 50

The range at a glance

- 3 versions: C (chiller), H (heat pump) and E (condensing unit)
- 6 sizes
- 3 configurations: STD (standard), HT (high temperature) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (HSE model: high seasonal efficiency)
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- High seasonal performances: SEER up to 4,9
- Common configuration for the different versions: easy upgrade of the units in stock or on field
- Electronic expansion device: excellent control of superheating for the best performance at full and partial load and for a safe operation
- Microchannel coils: significant reduction on refrigerant charge and operating weight (C type)
- Compressor box: remarkable sound reduction even for the basic noise version
- Control platform: modular architecture, compressor envelope integration, corrective actions in border line areas, easy-friendly user interface

Equipment

- 2 refrigerant circuits
- 4 scroll compressors (tandem)
- Plate evaporator (AISI 316)
- Microprocessor control
- Low operating water content in the plant
- Electronic expansion valve as standard
- Brine version for process application
- Polar version for extreme conditions
- E-coating coil treatment as standard
- Compressor acoustic box
- Compressor jackets (standard on S)
- Phase sequence control
- Water flow switch



Technical performance

Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			85	95	105	115	125	140
ECOi-W AQV 85-140 C - chiller			P-AQVE0085CA	P-AQVE0095CA	P-AQVE0105CA	P-AQVE0115CA	P-AQVE0125CA	P-AQVE0140CA
Cooling capacity ¹⁾	kW		83,5	93,6	103,0	110,1	121,9	136,6
Input power ¹⁾	kW		26,9	31,0	33,5	36,5	41,1	46,1
EER ¹⁾			3,10	3,03	3,06	3,03	2,98	2,97
EER HSE ¹⁾			3,19	3,10	3,13	3,09	3,05	3,04
SEER ^{2) 3)}			4,55	4,8	4,78	4,8	4,73	4,53
$\eta_{s,c}$ ^{2) 3)}			179	189	188	189	186	178
SEER HSE ^{2) 3)}			4,73	4,75	4,95	4,95	4,78	4,6
$\eta_{s,c}$ HSE ^{2) 3)}			186	187	195	195	188	181
Nominal water flow (in the evaporator)	m ³ /h		14,3	16,1	17,6	19,0	21,0	23,5
Sound power ⁴⁾	dB(A)		84	84	84	84	88	88
Sound pressure at 10 m ⁵⁾	dB(A)		52	52	52	52	56	56
Sound power HPF ⁴⁾	dB(A)		92	92	92	92	95	95
Sound pressure at 10 m HPF ⁵⁾	dB(A)		60	60	60	60	63	63
ECOi-W AQV 85-140 C S - chiller			85	95	105	115	125	140
Cooling capacity ¹⁾	kW		80,6	90,2	98,6	106	119,1	133,1
Input power ¹⁾	kW		28	32,6	35,5	38,6	41,1	46,5
EER ¹⁾			2,87	2,76	2,77	2,73	2,90	2,86
EER HSE ¹⁾			3,00	2,87	2,87	2,81	2,96	2,91
SEER ^{2) 3)}			4,75	4,78	4,98	5,0	4,8	4,6
$\eta_{s,c}$ ^{2) 3)}			187	188	196	197	189	181
SEER HSE ^{2) 3)}			4,8	4,75	4,88	4,88	4,9	4,7
$\eta_{s,c}$ HSE ^{2) 3)}			189	187	192	192	193	185
Nominal water flow (in the evaporator)	m ³ /h		13,9	15,5	16,9	18,2	20,5	22,9
Sound power ⁴⁾	dB(A)		82	82	82	82	86	86
Sound pressure at 10 m ⁵⁾	dB(A)		50	50	50	50	54	54
ECOi-W AQV 85-140 C HT - chiller			85	95	105	115	125	140
Cooling capacity ¹⁾	kW		86,2	96,9	107	115	124	139
Input power ¹⁾	kW		28,1	31,6	33,9	36,4	41,1	46
EER ¹⁾			3,07	3,06	3,15	3,16	3,03	3,03
SEER ^{2) 3)}			4,73	4,75	4,95	4,95	4,78	4,6
$\eta_{s,c}$ ^{2) 3)}			186	187	195	195	188	181
Nominal water flow (in the evaporator)	m ³ /h		14,8	16,6	18,3	19,8	21,4	24,0
Sound power ⁴⁾	dB(A)		95	95	95	95	95	95
Sound pressure at 10 m ⁵⁾	dB(A)		63	63	63	63	63	63

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 3) According to EN 14825. 4) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

Accessories and options

Anti-vibration spring dampers
Automatic circuit breaker
Coils treatments
Desuperheater
Fan speed control
Hydrokit with 1 or 2 pumps with or without buffer tank
Mechanical gauges

Accessories and options

Overload protection for compressors
Power factor corrector capacitors
Several communication protocols
Soft starter
Unit protection grilles
Water differential pressure

Accessories supplied loose

P-376463 Sequencer for up to 4 chillers installation
P-347941 Remote ON / OFF
P-364735 Remote keyboard panel
P-348000 Coil guards for sizes 85-115
P-348001 Coil guards for sizes 125-140

Accessories supplied loose

P-347999 Chiller grilles for sizes 85-115
P-347998 Chiller grilles for sizes 125-140
P-473465 Pressure switch
P-348615 Water filter for sizes 85-105
P-348616 Water filter for sizes 115-140





Technical performance

Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			85	95	105	115	125	140
ECQi-W AQV 85-140 H - heat pump			P-AQVE0085HA	P-AQVE0095HA	P-AQVE0105HA	P-AQVE0115HA	P-AQVE0125HA	P-AQVE0140HA
Cooling capacity ¹⁾	kW		81	89,9	98,9	106,9	115,8	129,2
Input power ¹⁾	kW		27,5	31,5	34,2	36,9	41,8	46,5
EER ¹⁾			2,95	2,85	2,89	2,89	2,77	2,78
EER HSE ¹⁾			3,05	2,94	2,97	2,96	2,84	2,84
SEER ²⁾			4,25	4,68	4,63	4,17	4,33	4,28
η_{s,c} ²⁾			167	184	182	164	170	168
SEER HSE ²⁾			4,6	5,03	4,95	4,55	4,6	4,5
η_{s,c} HSE ²⁾			181	198	195	179	181	177
Nominal water flow (in the evaporator)	m ³ /h		13,9	15,5	17,0	18,4	19,9	22,2
Heating capacity ³⁾	kW		91,8	102,8	110	119	134	146,9
Input power ³⁾	kW		26,8	30,5	32,2	35,2	40,9	44,8
COP ³⁾			3,42	3,37	3,42	3,38	3,28	3,28
COP HSE ³⁾			3,54	3,47	3,52	3,47	3,36	3,36
COP ⁴⁾			4,35	4,28	4,36	4,32	4,16	4,17
COP HSE ⁴⁾			4,53	4,44	4,52	4,46	4,29	4,28
SCOP ^{2) 5)}			3,61	3,64	3,78	3,77	3,47	3,54
η_{s,h} ^{2) 5)}			141	143	148	148	136	139
Nominal water flow (in the evaporator)	m ³ /h		17,2	17,8	19,3	20,6	23,3	25,5
Sound power ⁶⁾	dB(A)		84	84	84	84	88	88
Sound pressure at 10 m ⁷⁾	dB(A)		52	52	52	52	56	56
Sound power HPF ⁶⁾	dB(A)		92	92	92	92	95	95
Sound pressure at 10 m HPF ⁷⁾	dB(A)		60	60	60	60	63	63
ECQi-W AQV 85-140 H S - heat pump			85	95	105	115	125	140
Cooling capacity ¹⁾	kW		78,4	86,7	95,1	102	112	124,6
Input power ¹⁾	kW		28,6	33,2	36,0	39,1	43,1	47,6
EER ¹⁾			2,75	2,61	2,64	2,62	2,61	2,63
EER HSE ¹⁾			2,84	2,69	2,71	2,69	2,65	2,67
SEER ²⁾			4,25	4,68	4,63	4,17	4,33	4,28
η_{s,c} ²⁾			167	184	182	164	170	168
SEER HSE ²⁾			4,6	5,03	4,95	4,55	4,6	4,5
η_{s,c} HSE ²⁾			181	198	195	179	181	177
Nominal water flow (in the evaporator)	m ³ /h		13,5	14,9	16,3	17,6	19,3	21,5
Heating capacity ³⁾	kW		89,5	99,8	108	115	129	142
Input power ³⁾	kW		26,4	30,1	32,0	34,7	39,3	43,0
COP ³⁾			3,39	3,32	3,36	3,32	3,29	3,30
COP HSE ³⁾			3,55	3,46	3,50	3,45	3,38	3,38
COP ⁴⁾			4,32	4,24	4,31	4,25	4,22	4,24
COP HSE ⁴⁾			4,58	4,46	4,51	4,44	4,34	4,35
SCOP ^{2) 5)}			3,61	3,64	3,78	3,77	3,47	3,54
η_{s,h} ^{2) 5)}			141	143	148	148	136	139
Nominal water flow (in the evaporator)	m ³ /h		15,6	17,4	18,8	20,1	22,5	24,7
Sound power ⁶⁾	dB(A)		82	82	82	82	86	86
Sound pressure at 10 m ⁷⁾	dB(A)		50	50	50	50	54	54
ECQi-W AQV 85-140 H HT - heat pump			85	95	105	115	125	140
Cooling capacity ¹⁾	kW		83,5	93,4	104	112	118	132
Input power ¹⁾	kW		28,4	32,0	34,4	37	42	46,2
EER ¹⁾			2,94	2,9	3,02	3,02	2,8	2,85
SEER ²⁾			4,6	5,02	4,95	4,55	4,6	4,5
η_{s,c} ²⁾			181	198	195	179	181	177
Nominal water flow (in the evaporator)	m ³ /h		14,3	16,0	17,8	19,2	20,3	22,7
Heating capacity ³⁾	kW		93,4	104,9	113,7	121,9	135	148
Input power ³⁾	kW		29,4	33,1	35,0	37,8	42,2	46,1
COP ³⁾			3,18	3,17	3,25	3,23	3,21	3,21
COP ⁴⁾			3,98	3,98	4,08	4,07	4,06	4,08
SCOP ^{2) 5)}			3,99	3,96	4,12	4,07	3,73	3,77
η_{s,h} ^{2) 5)}			157	155	162	160	146	148
Nominal water flow (in the evaporator)	m ³ /h		16,3	18,3	19,8	21,2	23,6	25,8
Sound power ⁶⁾	dB(A)		95	95	95	95	95	95
Sound pressure at 10 m ⁷⁾	dB(A)		63	63	63	63	63	63

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 5) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 6) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 7) Sound pressures refer to ISO 3744 standard, parallelepiped shape.



Technical performance

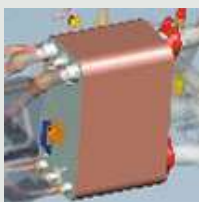
Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			85	95	105	115	125	140
ECOi-W AQV 85-140 E STD / HSE / HPF - condensing unit			P-AQVE0085EA	P-AQVE0095EA	P-AQVE0105EA	P-AQVE0115EA	P-AQVE0125EA	P-AQVE0140EA
Cooling capacity ¹⁾	kW		92,1	103,2	113,2	121,8	134,7	151,0
Input power ¹⁾	kW		27,4	31,4	34,1	37,0	41,7	46,8
Sound power ²⁾	dB(A)		84	84	84	84	88	88
Sound pressure at 10 m ³⁾	dB(A)		53	53	53	53	57	57
ECOi-W AQV 85-140 E STD / HSE S - condensing unit			85	95	105	115	125	140
Cooling capacity ¹⁾	kW		89	99,5	108,7	116,6	131,6	147,2
Input power ¹⁾	kW		28,6	33,1	36,1	39,3	41,9	47,3
Sound power ²⁾	dB(A)		82	82	82	82	86	86
Sound pressure at 10 m ³⁾	dB(A)		51	51	51	51	55	55
ECOi-W AQV 85-140 E HT - condensing unit			85	95	105	115	125	140
Cooling capacity ¹⁾	kW		95	106,8	117,7	127	137,2	153,8
Input power ¹⁾	kW		28,5	32,1	34,4	36,9	41,8	46,7
Sound power ²⁾	dB(A)		95	95	95	95	95	95
Sound pressure at 10 m ³⁾	dB(A)		64	64	64	64	64	64

Physical features

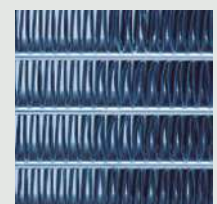
ECOi-W AQV 85-140 C/H/E - chiller / heat pump / condensing unit			85	95	105	115	125	140
Dimension	HxWxL	mm	2185 x 1095 x 2555	2185 x 1095 x 2555	2185 x 1095 x 2555	2185 x 1095 x 2555	2185 x 1095 x 3155	2185 x 1095 x 3155
Operating weight (C type)	STD / HT / S	kg	1058 / 1058 / 1088	1072 / 1072 / 1102	1111 / 1111 / 1141	1143 / 1143 / 1173	1183 / 1183 / 1213	1262 / 1262 / 1292
Operating weight (H type)	STD / HT / S	kg	1090 / 1090 / 1120	1105 / 1105 / 1135	1149 / 1149 / 1179	1180 / 1180 / 1210	1227 / 1227 / 1257	1301 / 1301 / 1331
Shipping weight (E type)	STD / S	kg	971 / 1001	983 / 1013	1013 / 1043	1043 / 1073	1066 / 1096	1142 / 1172
Water connections (85-140 C/H types)								
Type of connections (evaporator)			Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
Inlet/outlet diameter		Inch	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½
Condenser (85-140 E type)								
Connection type			To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed
Inlet diameter		Inch	5/8	5/8	5/8	5/8	7/8	7/8
Outlet diameter		Inch	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN 14511-2013 standard. 2) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 3) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

Special Inverter fan.
Option.



True dual circuit evaporator.
Optimised heat transfer coefficient.



Bluefin coil.
As standard on H models.



3 pump option.
Energy saving in partial load.

ECOi-W VL H/E · R410A

Air cooled heat pumps and condensing units.

Cooling capacity: 176,2 to 307 kW.

Heating capacity: 200 to 337,4 kW.



Operating limits

To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

ECOi-W VL 604-904 H - heat pump			704	804	904	
Cooling	Water outlet temperature	Water	°C	From 6 to 15		
		Water with glycol	°C	From 0 to 15		
		Water with glycol (Brine version)	°C	From -8 to 15		
		ΔT	K	From 3 to 8		
	Outdoor air temperature	STD	°C	-5 to 47	0 to 46	0 to 47
		L	°C	-5 to 45	0 to 44	0 to 45
		S	°C	-18 to 41	-18 to 40	-18 to 41
		HT	°C	-18 to 49	-18 to 48	-18 to 49
ECOi-W VL 1004-1204 H - heat pump			1004	1104	1204	
Cooling	Water outlet temperature	Water	°C	From 6 to 15		
		Water with glycol	°C	From 0 to 15		
		Water with glycol (Brine version)	°C	From -8 to 15		
		ΔT	K	From 3 to 8		
	Outdoor air temperature	STD	°C	0 to 46	0 to 45	0 to 45
		L	°C	0 to 44	0 to 42	0 to 42
		S	°C	-18 to 40	-18 to 38	-18 to 38
		HT	°C	-18 to 48	-18 to 47	-18 to 47
ECOi-W VL 604-1204 H - heat pump						
Heating	Water outlet temperature	°C	From 30 to 50 ¹⁾			
	Outdoor air temperature	°C	From -10 to 20 ¹⁾			
	L / S	°C	From - 4 to 20 ¹⁾			
External static pressure	STD fans	Pa	0			
	Inverter HPF	Pa	<120			
ECOi-W VL 604-904 E - condensing unit			704	804	904	
Evaporating temperature		°C	From 1 to 15			
Outdoor air temperature	STD	°C	-18 to 47 ¹⁾	-18 to 46 ¹⁾	-18 to 46 ²⁾	
	L / S	°C	-18 to 45 ¹⁾	-18 to 44 ¹⁾	-18 to 45 ²⁾	
	HT	°C	-18 to 49 ¹⁾	-18 to 48 ¹⁾	-18 to 49 ²⁾	
ECOi-W VL 604-904 E - condensing unit			1004	1104	1204	
Evaporating temperature		°C	1 to 15			
Outdoor air temperature	STD	°C	-18 to 46 ²⁾	-18 to 45 ²⁾	-18 to 45 ²⁾	
	L / S	°C	-18 to 44 ²⁾	-18 to 42 ²⁾	-18 to 42 ²⁾	
	HT	°C	-18 to 48 ²⁾	-18 to 47 ²⁾	-18 to 47 ²⁾	

1) Maximum water outlet temperature 50 °C (minimum temperature outdoor air +0 °C) to be confirmed with AC SELECT selection software. 2) At high pressure 40,5 bar. Chillers suitable for operation without buffer tank for water content greater than 3 liters of water per kW of output.

The range at a glance

- 2 versions: H (heat pump) and E (condensing unit)
- 6 sizes
- 3 configurations: STD (standard), HT (high temperature) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (HSE model: high seasonal efficiency)
- 3 acoustic options: STD (standard), L (low noise) and S (super low noise)

Advantages

- High seasonal performances: SCOP up to 3,4
- Small footprint
- Common configuration for the different versions: easy upgrade of the units in stock or on field
- Electronic expansion device: excellent control of superheating for the best performance at full and partial load and for a safe operation
- Compressor box: remarkable sound reduction even for the basic noise version
- Control platform: modular architecture, compressor envelope integration, corrective actions in border line areas, easy-friendly user interface

Equipment

- 2 refrigerant circuits
- 4 scroll compressors (tandem)
- Plate evaporator (AISI 316)
- Microprocessor control
- Electronic expansion valve
- E-coating coil treatment
- Compressor acoustic box
- Phase sequence control
- Water differential pressure switch

Accessories and options

Anti-vibration spring dampers
Automatic circuit breaker
Coils treatments
Compressor jackets (standard on S)
Desuperheater
Fan speed control (-18 °C)
Hydrokit with 1 or 2 pumps with or without buffer tank (500 L) (+1 m of length)
Inverter fans
Mechanical gauges
Overload protection for compressors
Power factor corrector capacitors
Several communication protocols
Soft starter
Unit protection grilles



Technical performance

Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			704	804	904	1004	1104	1204
ECOi-W VL 704-1204 H STD / HPF - heat pump			P-VLE0704HA	P-VLE0804HA	P-VLE0904HA	P-VLE1004HA	P-VLE1104HA	P-VLE1204HA
Cooling capacity ¹⁾	kW		173,2	197,1	226,4	246,3	273,1	299,9
Input power ¹⁾	kW		65,9	72,2	82,4	86,8	99,8	114,0
EER ¹⁾			2,62	2,73	2,74	2,84	2,74	2,63
SEER ²⁾			3,63	3,55	3,35	3,5	3,53	3,43
$\eta_{s,c}$ ²⁾			142	139	131	137	138	134
SEER HSE ²⁾			3,95	3,83	3,65	3,8	3,78	3,68
$\eta_{s,c}$ HSE ²⁾			155	150	143	149	148	144
Nominal water flow (in the evaporator)	m ³ /h		29,9	33,9	38,8	42,4	47,0	51,6
Heating capacity ³⁾	kW		200,1	223,2	254,7	270,8	302,1	337,4
Input power ³⁾	kW		67,4	70,4	79,6	87,6	100,0	112,5
COP ³⁾			2,97	3,17	3,20	3,09	3,02	3,00
COP ⁴⁾			3,71	3,96	3,99	3,86	3,78	3,77
SCOP ^{2) 5)}			3,41	3,42	3,28	3,39	3,30	3,19
$\eta_{s,h}$ ^{2) 5)}			133	134	128	133	129	125
SCOP HSE ^{2) 5)}			3,44	3,4	3,32	3,33	3,37	3,3
Nominal water flow (in the evaporator)	m ³ /h		34,7	38,6	43,6	47,0	52,3	58,4
Sound power ⁶⁾	dB(A)		93	93	94	94	95	95
Sound pressure at 10 m ⁷⁾	dB(A)		61	61	62	62	63	63
ECOi-W VL 704-1204 H L - heat pump			704	804	904	1004	1104	1204
Cooling capacity ¹⁾	kW		168,2	191,2	220,4	237,3	261,2	285,1
Input power ¹⁾	kW		66,2	73,3	83,8	88,5	102,8	119,8
EER ¹⁾			2,54	2,61	2,63	2,68	2,54	2,38
SEER ²⁾			3	3	3,1	3,28	3,3	3,23
$\eta_{s,c}$ ²⁾			117	117	121	128	129	126
SEER HSE ²⁾			3,95	3,83	3,65	3,80	3,78	3,68
$\eta_{s,c}$ HSE ²⁾			155	150	143	149	148	144
Nominal water flow (in the evaporator)	m ³ /h		29,0	32,9	38,2	40,8	45,0	49,1
Heating capacity ³⁾	kW		195,0	217,1	247,7	261,8	288,9	322,2
Input power ³⁾	kW		65,2	68,3	76,9	84,7	97,0	109,2
COP ³⁾			2,99	3,18	3,22	3,09	2,98	2,95
COP ⁴⁾			3,77	4,01	4,06	3,9	3,76	3,72
SCOP ^{2) 5)}			3,41	3,42	3,28	3,39	3,20	3,19
$\eta_{s,h}$ ^{2) 5)}			133	134	128	133	125	125
SCOP HSE ^{2) 5)}			3,44	3,4	3,32	3,33	3,37	3,24
Nominal water flow (in the evaporator)	m ³ /h		33,8	37,5	42,5	45,4	50,0	55,8
Sound power ⁶⁾	dB(A)		87	87	88	88	89	89
Sound pressure at 10 m ⁷⁾	dB(A)		55	55	56	56	57	57
ECOi-W VL 704-1204 H S - heat pump			704	804	904	1004	1104	1204
Cooling capacity ¹⁾	kW		164,3	185,2	214,5	230,4	253,3	276,1
Input power ¹⁾	kW		69,0	76,2	86,1	90,7	106,9	124,9
EER ¹⁾			2,38	2,43	2,49	2,54	2,37	2,21
SEER ²⁾			3,63	3,55	3,35	3,5	3,53	3,43
$\eta_{s,c}$ ²⁾			142	139	131	137	138	134
SEER HSE ²⁾			3,95	3,83	3,65	3,8	3,78	3,68
$\eta_{s,c}$ HSE ²⁾			155	150	143	149	148	144
Nominal water flow (in the evaporator)	m ³ /h		28,3	31,9	36,9	39,7	43,6	47,5
Heating capacity ³⁾	kW		184,9	202,9	232,6	245,7	266,8	297,0
Input power ³⁾	kW		64,9	67,0	75,8	83,9	95,0	108,0
COP ³⁾			2,85	3,03	3,07	2,93	2,81	2,75
COP HSE ³⁾			2,95	3,13	3,19	3,04	2,90	2,83
COP ⁴⁾			3,6	3,83	3,88	3,71	3,56	3,48
COP HSE ⁴⁾			3,76	3,98	4,07	3,87	3,7	3,59
SCOP ^{2) 5)}			3,41	3,42	3,28	3,39	3,30	3,19
$\eta_{s,h}$ ^{2) 5)}			133	134	128	133	129	125
SCOP HSE ^{2) 5)}			3,44	3,4	3,32	3,33	3,37	3,26
Nominal water flow (in the evaporator)	m ³ /h		32,0	35,2	40,4	42,5	46,3	51,5
Sound power ⁶⁾	dB(A)		83	83	84	84	85	85
Sound pressure at 10 m ⁷⁾	dB(A)		51	51	52	52	53	53

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 5) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 6) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 7) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

Accessories supplied loose

P-376463	Sequencer for up to 4 chillers installation
P-347941	Remote ON / OFF
P-364735	Remote keyboard panel
P-348003	Chiller grilles

Accessories supplied loose

P-365581	Flow switch
P-473465	Pressure switch
P-348619	Water filter





Technical performance

Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			704	804	904	1004	1104	1204
ECOi-W VL 704-1204 H HT - heat pump			704	804	904	1004	1104	1204
Cooling capacity ¹⁾	kW		175,6	199,7	229,5	250,1	276,5	305,6
Input power ¹⁾	kW		66,3	72,4	83,6	87,4	101,1	114,2
EER ¹⁾			2,64	2,75	2,74	2,85	2,73	2,67
SEER ²⁾			3	3	3,1	3,28	3,3	3,23
$\eta_{s,c}$ ²⁾			117	117	121	128	129	126
Nominal water flow (in the evaporator)	m ³ /h		30,1	34,3	39,4	42,9	47,5	52,5
Heating capacity ³⁾	kW		200,7	224,0	256,6	273,7	305,5	341,5
Input power ³⁾	kW		68,6	71,7	81,8	90,2	103	115
COP ³⁾			2,93	3,13	3,14	3,04	2,98	2,97
COP ⁴⁾			3,66	3,92	3,91	3,79	3,73	3,73
SCOP ^{2) 5)}			3,44	3,40	3,32	3,33	3,37	3,26
$\eta_{s,h}$ ^{2) 5)}			135	133	130	130	132	127
Nominal water flow (in the evaporator)	m ³ /h		34,9	39,0	44,7	47,6	53,2	59,4
Sound power ⁶⁾	dB(A)		99	99	100	100	100	100
Sound pressure at 10 m ⁷⁾	dB(A)		67	67	68	68	68	68
ECOi-W VL 704-1204 E STD / HPF - condensing unit			P-VLE0704EA	P-VLE0804EA	P-VLE0904EA	P-VLE1004EA	P-VLE1104EA	P-VLE1204EA
Cooling capacity ⁸⁾	kW		199,0	224,0	258,0	283,0	315,0	347,0
Input power ⁸⁾	kW		68,7	74,7	86,6	90,6	106	120
Sound power ⁶⁾	dB(A)		93	93	94	94	95	95
Sound pressure at 10 m ⁷⁾	dB(A)		61	61	62	62	63	63
ECOi-W VL 704-1204 E L - condensing unit			704	804	904	1004	1104	1204
Cooling capacity ⁸⁾	kW		194,0	218,0	251,0	272,5	301,0	330,0
Input power ⁸⁾	kW		69,6	76,6	87,8	92,8	109	126
Sound power ⁶⁾	dB(A)		87	87	88	88	89	89
Sound pressure at 10 m ⁷⁾	dB(A)		55	55	56	56	57	57
ECOi-W VL 704-1204 E S - condensing unit			704	804	904	1004	1104	1204
Cooling capacity ⁸⁾	kW		188,5	211,0	244,0	264,5	292,0	319,0
Input power ⁸⁾	kW		72,0	79,5	90,5	95,5	112	131
Sound power ⁶⁾	dB(A)		83	83	84	84	85	85
Sound pressure at 10 m ⁷⁾	dB(A)		51	51	52	52	53	53
ECOi-W VL 704-1204 E HT - condensing unit			704	804	904	1004	1104	1204
Cooling capacity ⁸⁾	kW		201,0	226,5	261,0	286,5	318,0	353,0
Input power ⁸⁾	kW		68,9	74,9	87,1	91,0	105	119
Sound power ⁶⁾	dB(A)		99	99	100	100	100	100
Sound pressure at 10 m ⁷⁾	dB(A)		67	67	68	68	68	68

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 5) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 6) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 7) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 8) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature.



Physical features

ECOi-W VL 704 - 1204 H/E - heat pump / condensing unit			704	804	904	1004	1104	1204
Dimension	HxWxL	mm	2300 x 1100 x 4300	2300 x 1100 x 4300	2300 x 1100 x 4300	2300 x 1100 x 4300	2300 x 1100 x 4300	2300 x 1100 x 4300
Operating weight - heat pump	STD / L	kg	1675	1820	1980	2125	2215	2225
	S	kg	1710	1855	2015	2165	2255	2265
	HT	kg	1705	1850	2020	2165	2255	2265
Shipping weight - condensing unit	STD / L	kg	1490	1615	1700	1825	1910	1920
	S	kg	1525	1650	1735	1865	1950	1960
	HT	kg	1520	1645	1740	1865	1950	1960
ECOi-W VL 704-1204 H STD / HPF - heat pump			704	804	904	1004	1104	1204
Water connections								
Type of connections (evaporator)			Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
Inlet/outlet diameter	Inch		2 ½	2 ½	3	3	3	3
ECOi-W VL 704-1204 E - condensing unit			704	804	904	1004	1104	1204
Refrigerant connections								
Inlet diameter	Inch		¾	¾	1 ⅛	1 ⅛	1 ⅛	1 ⅛
Outlet diameter	Inch		1 ⅝	1 ⅝	2 ⅛	2 ⅛	2 ⅛	2 ⅛

ECOi-W AQUA EVO 400-800 C - R410A

Air cooled chillers.

Cooling capacity: 390,4 to 775,4 kW.



Operating limits

To be confirmed with AC SELECT:
<https://acselect.panasonic.eu/>

ECOi-W AQUA EVO 400-800 C - chiller				
Chilled liquid	Liquid outlet temperature	Water	°C	From 5 to 18
		Water with glycol*	°C	From -10 to 5
		ΔT	K	From 3 to 7
	Maximum operating pressure		bar	6
Outdoor air temperature	Air entering temperature cooling	STD	°C	From 10 to 48
		S / EC / EC S	°C	From -18 to 48
		HT	°C	From -18 to 52
External static pressure	STD fans		Pa	0
	High pressure fan (HPF)		Pa	<120

*For liquid outlet temperature <-3 °C provide Brine version.

The range at a glance

- 1 version: C (chiller)
- 8 sizes
- 3 configurations: STD (standard), HT (high temperature) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (high-efficiency fan)
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- High seasonal performances: SEER up to 4,6
- Low sound emission and high-efficiency level in a single unit: Super Low Noise version
- Electronic expansion device: excellent control of superheating for the best performance at full and partial load and for a safe operation
- E-coated microchannel coils: Significant reduction on refrigerant charge and operating weight and excellent anticorrosion protection with the standard delivery
- Compressor box: remarkable sound reduction even for the basic noise version
- Control platform: modular architecture, compressor envelope integration, corrective actions in border line areas, easy-friendly user interface

Equipment

- Brine version: chiller for process application LWT -10 °C
- Plate evaporator
- Electronic expansion valve
- Modbus RS485 (standard for sizes 400-670)
- Microchannel coils (MCHX)
- E-coating coil treatment as standard on MCHX
- Compressor acoustic box
- Compressor jackets (standard as S version)
- Fan speed control (standard as EC/HPF/S versions)
- Phase sequence control
- Water differential pressure switch

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>





Technical performance

Power supply ¹⁾	Voltage	V	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Size			400	450 S	490 S	530 S	600	670	750 S	800 S
ECOi-W AQUA EVO 400-800 C AC - chiller	P-AQAVE		0400CA	0450CA	0490CA	0530CA	0600CA	0670CA	0750CA	0800CA
Nominal cooling capacity ²⁾	kW		390,4	431,1	470,2	513,7	584,5	653,2	727,7	775,4
Input power ²⁾	kW		126,7	138,6	152,7	167,9	189,1	210,7	234,7	250,1
EER ²⁾			3,08	3,11	3,08	3,06	3,09	3,10	3,10	3,10
SEER ^{3) 4)}			4,48	4,63	4,58	4,78	4,58	4,59	4,73	4,70
η _{s,c} ^{3) 4)}	%		176	182	180	188	180	180,7	186	185
Nominal water flow (in the evaporator)	m³/h		68,0	75,1	82,0	89,5	101,8	113,9	113,9	135,1
Sound power ⁵⁾	dB(A)		92	87	87	87	94	94	89	89
Sound pressure at 10 m ⁶⁾	dB(A)		60	54	54	54	61	61	56	56
ECOi-W AQUA EVO 400-800 C EC - chiller			400	450 S	490 S	530 S	600	670	750 S	800 S
Nominal cooling capacity ²⁾	kW		400,0	447,0	489,0	535,0	599,0	669,0	751,4	801,4
Input power ²⁾	kW		127,0	140,0	154,0	170,0	189,0	211,0	239,7	255,7
EER ²⁾			3,15	3,19	3,17	3,16	3,17	3,17	3,13	3,13
SEER ^{3) 4)}			4,65	4,58	4,68	4,55	4,78	4,87	4,65	4,68
η _{s,c} ^{3) 4)}	%		183	180	184	179	188	192	183	184
Nominal water flow (in the evaporator)	m³/h		68,8	76,9	84,2	92,2	103,1	115,1	131,0	139,7
Sound power ⁵⁾	dB(A)		92	93	93	94	94	94	95	95
Sound pressure at 10 m ⁶⁾	dB(A)		60	61	60	61	61	61	62	62

Physical features

ECOi-W AQUA EVO 400-800 C - chiller			400	450 S	490 S	530 S	600	670	750 S	800 S
Dimension	HxW	mm	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175
	Length STD / EC / HPF	mm	4580	5620	6680	6680	7760	7760	8900	8900
	Length S / EC S / HT	mm	5620	6680	7760	7760	8800	8800	11000	11000
Operating weight	STD / EC / HPF	kg	3028	3367	3783	4069	4317	4524	5536	5607
	S / EC S / HT	kg	3318	3656	4069	4369	4597	4789	6111	6183
Water connections (evaporator and condenser)										
Type of connections			Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	4	4	4	4	4	5	6	6

1) Voltage 400 V +/- 10%. 2) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) According to EN 14825. 5) Sound power is declared in nominal full load condition (cooling operation), referring to ISO standard 9614, in accordance with Eurovent certification program. 6) Sound pressure refer to ISO Standard 3744, parallelepiped shape in a free field on a reflective surface.

Accessories and options

Anti-vibration spring dampers
Automatic circuit breaker
Coils treatments
Desuperheater
Fan speed control [-14 °C in cooling mode – standard as EC/HPF/S versions]
Hydrokit with 1 or 2 pumps with or without buffer tank (500 L 400-450, 1000 L 470-670)

Accessories supplied loose

P-376463	Sequencer for up to 4 chillers installation
P-347941	Remote ON / OFF control
P-364735	Remote keyboard panel
P-365581	Flow switch

Accessories and options

Mechanical gauges
Overload protection for compressors
Power factor corrector capacitors
Several communication protocols
Soft starter
Unit protection grilles
Variable pump (for sizes 750-800 upon request)

Accessories supplied loose

P-473465	Pressure switch
P-348620	Water filter for sizes 400-530
P-348618	Water filter for sizes 580-750
P-362589	Water filter for size 800

ECOi-W SW-N EVO 380-1260 C - R513A

Air cooled chillers.

Cooling capacity: 366 to 1240,5 kW.



Operating limits

To be confirmed with AC SELECT:
<https://acselect.panasonic.eu/>

ECOi-W SW-N EVO 380-1260 C - chiller			
Leaving water temperature	Water	°C	From 5 to 15
	Water with glycol	°C	From 0 to 5
	Brine	°C	From -8 to 0
	ΔT	K	From 3 to 8
Outdoor air temperature	STD	°C	From -10 to 46
	S	°C	From -10 to 44
	HT	°C	From -10 to 49
	Minimum air temperature	°C	-10
External static pressure	STD fans	Pa	0
	High pressure fans	Pa	< 120

Accessories and options

Antifreeze electric heater for hydraulic manifolds
Anti-vibration spring dampers
Chiller grilles
Compressor acoustic box
Compressor star delta start
Compressor suction valve
E-coating treatment

Accessories supplied loose

P-347941	Remote ON / OFF
P-364735	Remote keyboard panel
P-365581	Flow switch

The range at a glance

- 1 version: C (chiller)
- 12 sizes
- 2 configurations: STD (standard) and HT (high temperature)
- 1 fan type: EC (high-efficiency fan)
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- High seasonal efficiency level exceeding ErP 2021 requirements
- High durability painting process for casing and frame, offering C4 corrosion category in accordance with ISO 12944
- Compressor metal box, providing basic acoustic protection and resistance to atmospheric agents
- Side panel on coil ends, protecting from corrosion and damage
- EC fan motors, improving part load efficiency, extending envelope operation and reducing noise level in part load operation
- Proprietary software logic, optimizing unit efficiency in accordance with plant needs and protecting unit operation with preventing actions

Equipment

- 2 refrigerant circuits
- 2 screw compressors
- Pure countercurrent shell and tubes direct expansion heat exchanger
- Axial type EC fan motors
- Micro-channels condensers
- Electronic expansion valve
- Hydronic / heat recovery options

Accessories and options

Finned tubes (Al/Cu)
Hydro kit 1P-SP/1P-HP/2P-SP/2PHP
Mechanical gauges kit (HP and LP manometers)
Power factor corrector capacitors
Several communication protocols
Variable pump

Accessories supplied loose

P-348620	Water filter for sizes 320-510
P-348618	Water filter for sizes 590-730
P-362589	Water filter for sizes 810-1260



Technical performance

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50	50
Size			380	440	510	590	660	730	810	900	980	1060	1160	1260
ECOi-W SW-N EVO 380-1260 C STD / HT / HP - chiller	P-SWVN****CA		0380	0440	0510	0590	0660	0730	0810	0900	0980	1060	1160	1260
Nominal cooling capacity ¹⁾	kW		365,7	443,0	500,2	565,8	643,5	704,3	778,1	896,9	983,5	1047,4	1154,0	1240,5
Input power ¹⁾	kW		126	146	168	185	217	233	259	296	328	340	378	416
EER ¹⁾			2,89	3,04	2,96	3,05	2,96	3,01	3,00	3,02	2,99	3,08	3,05	2,98
EER _{CONDITION B} [74%]			3,95	4,01	3,99	4,02	3,93	3,95	3,89	3,82	3,98	4,10	4,14	4,20
EER _{CONDITION C} [47%]			4,66	4,81	4,81	5,03	4,76	4,66	4,72	4,68	4,72	5,10	5,06	5,02
EER _{CONDITION D} [21%]			6,14	6,31	6,33	6,65	6,62	6,23	6,62	6,32	6,22	6,69	6,70	6,68
SEER ^{2) 3)}			4,53	4,64	4,65	4,80	4,66	4,56	4,62	4,56	4,60	4,87	4,86	4,85
η _{s,c} ^{2) 3)}	%		178	182	183	189	183	179	182	179	181	192	191	191
Number of refrigerant circuits			2	2	2	2	2	2	2	2	2	2	2	2
Total capacity steps ⁴⁾	%		22% ÷ 100%	18% ÷ 100%	16% ÷ 100%	14% ÷ 100%	13% ÷ 100%	15% ÷ 100%	13% ÷ 100%	14% ÷ 100%	13% ÷ 100%	17% ÷ 100%	15% ÷ 100%	14% ÷ 100%
Sound power ⁵⁾	dB(A)		97	98	100	100	100	101	101	102	102	103	103	103
Sound power ^{5)**/**}	dB(A)		102	103	104	104	104	105	105	106	106	107	108	108
Sound pressure at 10 m ⁶⁾	dB(A)		65	66	68	68	68	68	68	69	69	70	70	70
Sound pressure at 10 m ^{6)**/**}	dB(A)		70	71	72	72	72	72	72	73	73	74	75	75
ECOi-W SW-N EVO 380-1260 C S - chiller			380	440	510	590	660	730	810	900	980	1060	1160	1260
Nominal cooling capacity ¹⁾	kW		362,8	441,8	498,2	563,1	640,0	702,5	775,9	893,1	980,9	1045,5	1150,6	1234,8
Input power ¹⁾	kW		126,1	144,9	168,0	184,0	209,3	231,5	256,4	294,7	326,4	335,5	375,0	416,8
EER ¹⁾			2,88	3,05	2,97	3,06	3,06	3,03	3,03	3,03	3,01	3,12	3,07	2,96
EER _{CONDITION B} [74%]			3,90	4,03	3,99	4,00	3,96	3,97	4,01	3,84	4,18	4,15	4,22	4,31
EER _{CONDITION C} [47%]			4,69	5,04	5,05	5,21	4,95	4,91	4,98	4,94	5,02	5,24	5,36	5,30
EER _{CONDITION D} [21%]			6,44	6,82	6,75	6,92	6,93	6,64	6,71	6,60	6,55	7,00	7,24	7,04
SEER ^{2) 3)}			4,56	4,82	4,79	4,89	4,78	4,73	4,77	4,69	4,82	4,98	5,07	5,03
η _{s,c} ^{2) 3)}	%		180	190	189	193	188	186	188	185	190	196	200	198
Number of refrigerant circuits			2	2	2	2	2	2	2	2	2	2	2	2
Total capacity steps ⁴⁾	%		22% ÷ 100%	18% ÷ 100%	16% ÷ 100%	14% ÷ 100%	13% ÷ 100%	15% ÷ 100%	13% ÷ 100%	14% ÷ 100%	13% ÷ 100%	17% ÷ 100%	15% ÷ 100%	14% ÷ 100%
Sound power ⁵⁾	dB(A)		94	94	97	97	97	98	98	99	99	99	100	100
Sound pressure at 10 m ⁶⁾	dB(A)		62	62	65	65	65	65	65	66	66	66	67	67

Physical features

ECOi-W SW-N EVO 380-1260 C - chiller			380	440	510	590	660	730	810	900	980	1060	1160	1260
Dimension	Height	mm	2510	2510	2510	2510	2510	2510	2510	2510	2510	2510	2510	2510
	Height S	mm	2590	2590	2590	2590	2590	2590	2590	2590	2590	2590	2590	2590
	Width	mm	2192	2192	2192	2192	2192	2192	2192	2192	2192	2192	2192	2192
	Length	mm	4660	5712	5712	6764	7816	7816	8868	9920	10972	12024	13076	13076
Operating weight	STD / HT / HP	kg	3896	4259	4897	5241	5620	6207	6531	7326	7764	8491	8875	9074
	S	kg	3981	4352	4990	5323	5702	6293	6617	7412	7852	8579	8963	9162

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN 14511-2013 standard. 2) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281.

3) According to EN 14825. 4) This value can change for BC version or other special applications. 5) Sound levels are at fully loaded conditions. Sound power values refer to ISO standard 3744, parallelepiped shape.

*High temperature units (HT), data with fans at maximum speed (1100 r.p.m.). **HPF units, data with fans at maximum speed (1100 r.p.m.).

Technological innovation - All-round variable volume flow management.

Refrigerant.

Inverter driven compressor technology and electronic expansion valve.



Air.

EC brushless fan motor technology.



Water.

Inverter driven pump technology.

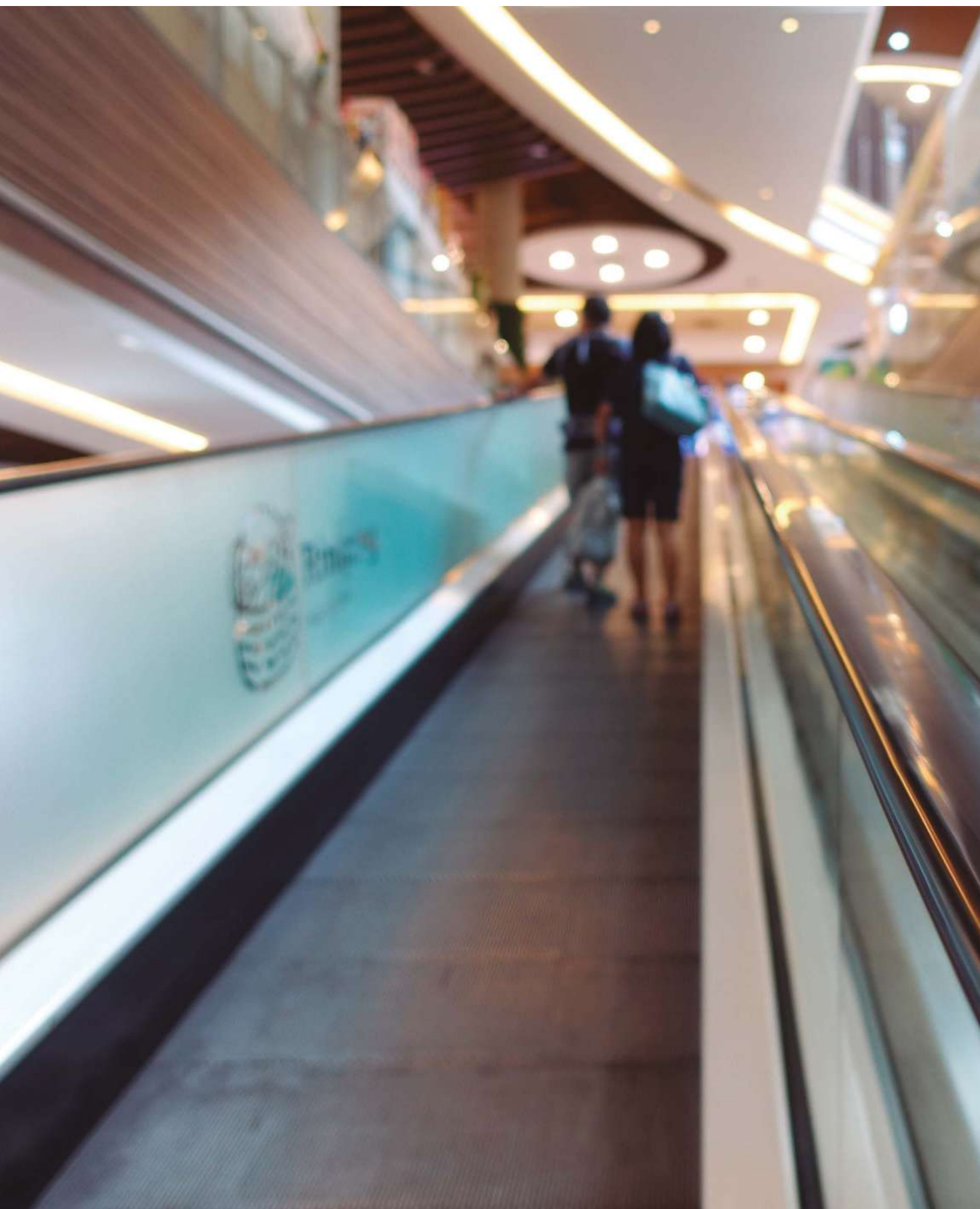


Improved part load efficiency.
Continuous capacity control.
Flexible offer in plant integration.



Water cooled chillers, heat pumps and condenserless units

Quality and comfort for all your projects with ECOi-W units! Perfect for any type of building, the system consists of water cooled chillers or heat pumps that provide cold or hot water to water terminals. This system is particularly well suited for applications such as office buildings, hotels, shopping centers and hospitals.

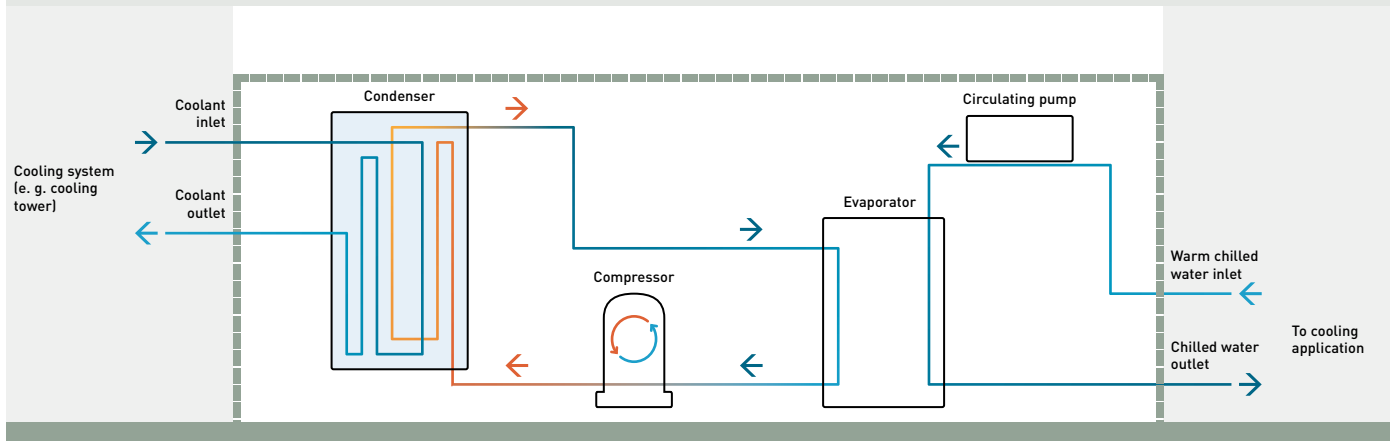


Water cooled chillers ECOi-W use water as the cooling medium to extract heat from the cooling circuit by cooling and condensing the refrigerant.

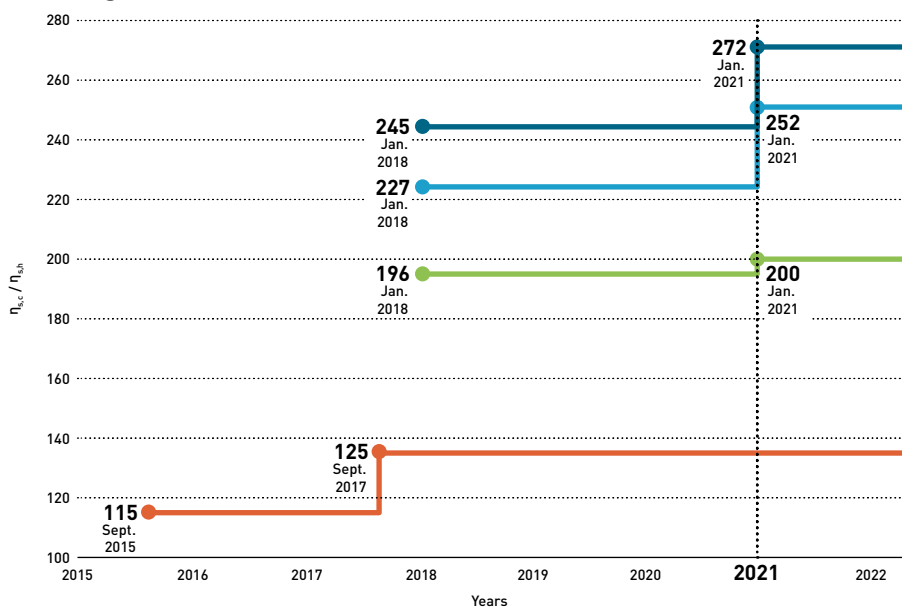
Advantages:

- Higher cooling efficiency compared to air cooled chillers
- Less impact on the environment with less waste heat or fan noise

*The below illustration show cooling application.



Ecodesign



Water to water comfort chiller ¹⁾

≤400 kW. Minimum η_{ec} to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.	>400 kW and ≤1500 kW. Minimum η_{ec} to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.	>1500 kW. Minimum η_{ec} to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.
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Water to water heat pumps ²⁾

≤400 kW. Minimum $\eta_{s,h}$ to be Ecodesign compliant. COMMISSION REGULATION (EU) No 813/2013.	>400 kW and ≤1500 kW. Minimum $\eta_{s,h}$ to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.	>1500 kW. Minimum $\eta_{s,h}$ to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.
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1) Calculated at nominal conditions: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 30/35 °C DB.

2) Rated heat output of space heaters and combination heaters at reference design conditions (Tdesign -10 °C) as stated in COMMISSION REGULATION (EU) No 813/2013.

Quick selection guide - Water cooled chillers

Page	Size	Cooling capacity (kW)	SEER	Sound power (dB(A))	Dimension L x H x W (mm)
P. 54	ECOi-W WQ C				
	20	21,2	5,58	65	821 x 1350 x 455
	25	26,2	5,60	67	821 x 1350 x 455
	30	31,1	5,45	67	821 x 1350 x 455
	35	34,8	5,50	68	821 x 1350 x 455
	40	39,2	5,35	68	821 x 1350 x 455
	45	46,6	5,83	70	821 x 1350 x 455
	50	50,9	6,13	70	1210 x 1500 x 850
	60	61,1	6,38	70	1210 x 1500 x 850
	75	77,3	5,95	72	1210 x 1500 x 850
	90	91,1	6,70	73	1210 x 1500 x 850
	120	118,4	5,90	78	1210 x 1500 x 850
	150	147,1	6,13	81	1210 x 1500 x 850
	170	170	6,08	81	1210 x 1500 x 850
	190	192,7	6,20	81	1210 x 1500 x 850
	524	154,3	5,55	81	2250 x 1845 x 850
	604	181,8	6,28	82	2250 x 1845 x 850
	704	208,9	6,10	85	2250 x 1845 x 850
P. 56					
	804	232,6	5,75	87	2250 x 1845 x 850
	904	265,8	6,10	89	2250 x 1845 x 850
	1004	295,6	6,10	90	2250 x 1845 x 850
	1104	338	6,20	90	2250 x 1845 x 850
	1204	379,2	6,25	90	2250 x 1845 x 850
	1404	421,1	6,43	92	2250 x 1845 x 850
	1604	459,8	6,47	94	2250 x 1845 x 850
P. 58	ECOi-W WSW-N EVO C				
	440	418,6	6,38	95	4250 x 1650 x 1350
	490	471,6	6,38	95	4250 x 1650 x 1350
	570	539,3	6,52	95	4210 x 1650 x 1350
	630	601,9	6,42	95	4210 x 1650 x 1350
	700	664,4	6,38	95	4180 x 1650 x 1350
	770	734,6	6,38	95	4180 x 1650 x 1350
	860	825,0	6,41	98	4510 x 1710 x 1520
	920	874,1	6,41	98	4510 x 1710 x 1520
	990	936,6	6,41	98	4600 x 1710 x 1520
	1070	1019,1	6,42	98	4650 x 1710 x 1520
	1130	1071,8	6,53	98	4650 x 1710 x 1520
	1220	1159,3	6,51	98	4650 x 1710 x 1520
	1280	1226,1	6,44	98	4650 x 1710 x 1520
	1400	1334,6	6,45	98	5350 x 1710 x 1520
	1550	1457,9	6,42	98	5350 x 1710 x 1520



Quick selection guide - Water cooled heat pumps

Page	Size	Cooling and heating capacity (kW)	SEER / SCOP	Sound power (dB(A))	Dimension LxHxW (mm)
P. 54	ECOi-W WQ H				
	20	20,8 23,8	5,13 / 5,17	65	821 x 1350 x 455
	25	26,1 29,0	5,00 / 5,45	67	821 x 1350 x 455
	30	30,2 33,9	4,88 / 5,33	67	821 x 1350 x 455
	35	34,1 38,6	5,10 / 5,05	68	821 x 1350 x 455
	40	38,3 43,1	5,00 / 4,83	68	821 x 1350 x 455
	45	45,7 51,2	5,48 / 5,28	70	821 x 1350 x 455
	50	50,1 58,6	4,48 / 5,70	70	1210 x 1500 x 850
	60	59,1 65,8	4,83 / 5,88	70	1210 x 1500 x 850
	75	76,3 87,5	4,70 / 5,70	72	1210 x 1500 x 850
	90	88,9 103,0	4,88 / 5,78	73	1210 x 1500 x 850
	120	115,0 134,0	4,93 / 5,75	78	1210 x 1500 x 850
	150	145,0 167,0	4,98 / 5,63	81	1210 x 1500 x 850
	170	166,0 193,0	5,65 / 5,95	81	1210 x 1500 x 850
	190	186,0 215,0	5,10 / 5,63	81	1210 x 1500 x 850
	524	151,0 172,0	4,65 / 5,40	81	2250 x 1845 x 850
	604	177,0 203,0	4,93 / 5,20	82	2250 x 1845 x 850
	704	205,0 234,0	4,93 / 5,38	85	2250 x 1845 x 850
	804	226,0 259,0	4,68 / 5,35	87	2250 x 1845 x 850
P. 56	ECOi-W WSW-N EVO H				
	904	264,0 298,0	5,15 / 5,73	89	2250 x 1845 x 850
	1004	292,0 333,0	5,10 / 5,85	90	2250 x 1845 x 850
	1104	333,0 379,0	5,28 / 5,83	90	2250 x 1845 x 850
	1204	371,0 422,0	5,30 / 5,85	90	2250 x 1845 x 850
	1404	421,0 471,0	6,43 / —	92	2250 x 1845 x 850
	1604	460,0 508,0	6,47 / —	94	2250 x 1845 x 850
	440	365,9 470,3	6,53 / 4,46	95	4590 x 1650 x 1450
	490	418,9 536,5	6,38 / 4,52	95	4590 x 1650 x 1450
	570	483,2 621,7	6,40 / 4,4	95	4630 x 1650 x 1450
P. 58	ECOi-W WSW-N EVO H				
	630	541,0 698,6	6,38 / 4,31	95	4630 x 1650 x 1450
	700	595,6 764,7	6,45 / 4,47	95	4320 x 1650 x 1450
	770	646,6 835,9	6,60 / 4,37	95	4560 x 1650 x 1450
	860	715,5 923,0	6,40 / 4,39	98	5110 x 1680 x 1520
	920	772,0 992,7	6,50 / 4,44	98	5110 x 1680 x 1520
	990	828,1 1063,0	6,40 / 4,49	98	5100 x 1680 x 1520
	1070	891,5 1146,0	6,40 / 4,45	98	5100 x 1680 x 1520
	1130	958,8 1231,8	6,50 / 4,45	98	5000 x 1680 x 1520
	1220	1023,8 1315,8	6,48 / 4,41	98	5000 x 1680 x 1520
	1280	1078,2 1386,1	6,48 / 4,37	98	5000 x 1680 x 1520
	1400	1186,9 1523,8	6,50 / 4,45	98	5300 x 1710 x 1580
	1550	1285,5 1654,6	6,70 / 4,38	98	5300 x 1710 x 1580

Quick selection guide - Water cooled condenserless units

Page	Size	Cooling capacity (kW)	Sound power (dB(A))	Dimension LxWxH (mm)
P. 54	ECOi-W WQ R			
	20	18,3	65	821 x 1350 x 455
	25	22,7	67	821 x 1350 x 455
	30	27,1	67	821 x 1350 x 455
	35	30,0	68	821 x 1350 x 455
	40	34,2	68	821 x 1350 x 455
	45	43,1	70	821 x 1350 x 455
	50	45,0	70	1210 x 1500 x 850
	60	53,4	70	1210 x 1500 x 850
	75	67,5	72	1210 x 1500 x 850
	90	80,1	73	1210 x 1500 x 850
	120	104,0	78	1210 x 1500 x 850
	150	128,0	81	1210 x 1500 x 850
	170	148,0	81	1210 x 1500 x 850
	190	168,0	81	1210 x 1500 x 850
	524	130,0	81	2250 x 1845 x 850
	604	155,3	82	2250 x 1845 x 850
	704	177,6	85	2250 x 1845 x 850
P. 56				
	804	196,5	87	2250 x 1845 x 850
	904	224,2	89	2250 x 1845 x 850
	1004	247,2	90	2250 x 1845 x 850
	1104	285,9	90	2250 x 1845 x 850
	1204	316,1	90	2250 x 1845 x 850
	1404	368,0	92	2250 x 1845 x 850
	1604	397,0	94	2250 x 1845 x 850
	ECOi-W WSW-N EVO R			
	440	358,6	95	4590 x 1650 x 1450
P. 58	490	405,3	95	4590 x 1650 x 1450
	570	472,7	95	4630 x 1650 x 1450
	630	535,6	95	4630 x 1650 x 1450
	700	586,2	95	4320 x 1650 x 1450
	770	638,1	95	4560 x 1650 x 1450
	860	708,9	98	5110 x 1680 x 1520
	920	758,1	98	5110 x 1680 x 1520
	990	817,2	98	5100 x 1680 x 1520
	1070	886,2	98	5100 x 1680 x 1520
	1130	947,7	98	5000 x 1680 x 1520
	1220	1015,0	98	5000 x 1680 x 1520
	1280	1075,9	98	5000 x 1680 x 1520
	1400	1181,4	98	5300 x 1710 x 1580
	1550	1277,8	98	5300 x 1710 x 1580





ECOi-W WQ 20-190 C/H/R - R410A

Water cooled chillers, heat pumps and condenserless units.

Cooling capacity: 21,2 to 192,7 kW.

Heating capacity: 23,7 to 212,3 kW.

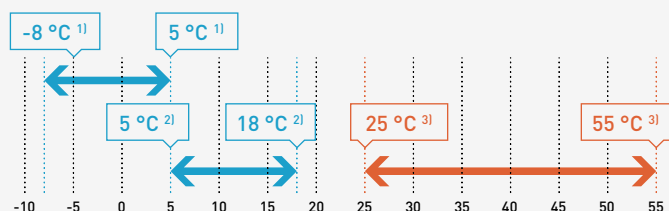


Operating limits

To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Leaving water temperature.



1) With glycol + EEV.

2) Without glycol + EEV.

3) Only C/H types 20-190.

Note: maximum % glycol (ethylenic or propylenic): 40%.

ECOi-W WQ 20-190 C/H/R				
Cooling	Leaving water temperature	ΔT	K	From 3 to 8
Heating ¹⁾	Leaving water temperature	ΔT	K	From 3 to 15

1) Only C/H types 20-190.

Accessories supplied loose

P-348089	Valves in - out for sizes 20-45
P-376463	Sequencer for up to 4 chillers installation
P-348682	Water temperature sensor for second set-point zone
P-347940	Remote ON / OFF control
P-348684	Remote keyboard panel
P-365581	Flow switch [operational only on the evaporator side]
P-473465	Pressure switch

The range at a glance

- 3 versions: C (chiller), H (heat pump) and R (condenserless unit)
- 14 sizes
- 2 acoustic options: STD (standard) and S (super low noise)
- 2 frames: F1 (size from 20 to 45) and F2 (size from 50 to 190)

Advantages

- High full load efficiency: EER up to 4,50, COP up to 3,90
- High seasonal performances: SEER up to 6,70
- Compressor box: remarkable sound reduction
- Reduced refrigerant charge: less than 10 kg per circuit for units up to size 90
- Advanced electronic controller: auto-adaptive function to reduce water content in the piping system
- Condensing pressure control option suitable for well application
- Wide range of Plug & Play hydrokit: easy hydraulic installation
- DHW function available on the controller with DHW probe and 3 way valve available as options
- Desuperheater heat exchanger available as option (50-190 sizes)

Equipment

- 1 refrigerant circuit
- 1 or 2 scroll compressors
- Plate evaporator (AISI 316)
- Compressor acoustic box (standard on S)
- Differential pressure switch
- Electronic expansion valve (standard C type 170-190)
- Phase sequence control

Accessories and options

Compressor jackets
Desuperheater available for sizes 50-190
Hydrokit with 1 or 2 pumps for evaporator and condenser
Mechanical gauges kit
Modbus communication protocol
Power factor corrector capacitors
Soft starter

Accessories supplied loose

P-348612	Water filter for sizes 20-45
P-348615	Water filter for sizes 50-120
P-348619	Water filter for sizes 150-190
P-348144	3 way valve for DHW production - ON / OFF - DN 20 for sizes 20-45
P-348145	3 way valve for DHW production - ON / OFF - DN 20 for sizes 50-90
P-348143	3 way valve for DHW production - ON / OFF - DN 20 for sizes 120-190



Technical performance

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Size			20	25	30	35	40	45	50	60	75	90	120	150	170	190
ECOi-W WQ 20-190 C - chiller	P-WQE****CA		0020	0025	0030	0035	0040	0045	0050	0060	0075	0090	0120	0150	0170	0190
Cooling capacity ¹⁾	kW		21,2	26,2	31,1	34,8	39,2	46,6	50,9	61,1	77,3	91,1	118,4	147,1	170,0	192,7
Input power ¹⁾	kW		4,56	5,67	6,84	7,54	8,60	10,1	11,7	13,5	17,1	20,7	26,5	33,0	37,7	42,8
EER ¹⁾			4,67	4,65	4,57	4,64	4,58	4,65	4,35	4,53	4,52	4,40	4,48	4,47	4,51	4,51
SEER ^{2) 3)}			5,58	5,6	5,45	5,5	5,35	5,83	6,13	6,38	5,95	6,7	5,90	6,13	6,08	6,2
η_{s,c} ^{2) 3)}			220	221	215	217	211	230	242	252	235	265	233	242	240	245
Sound power (STD / S) ⁴⁾	dB(A)		65 / 62	67 / 64	67 / 64	68 / 65	68 / 66	70 / 67	70 / 68	70 / 68	72 / 70	73 / 71	78 / 76	81 / 79	81 / 79	81 / 79
Sound pressure at 10 m (STD / S) ⁵⁾	dB(A)		34 / 31	36 / 33	36 / 33	37 / 34	38 / 35	39 / 36	39 / 37	39 / 37	40 / 39	42 / 40	47 / 45	50 / 48	50 / 48	50 / 48
ECOi-W WQ 20-190 H - heat pump	P-WQE****HA		0020	0025	0030	0035	0040	0045	0050	0060	0075	0090	0120	0150	0170	0190
Cooling capacity ¹⁾	kW		20,8	26,1	30,2	34,1	38,3	45,7	50,1	59,1	76,3	88,9	115,0	145,0	166,0	186,0
Input power ¹⁾	kW		4,61	5,71	6,90	7,68	8,69	10,20	11,80	13,70	17,20	20,90	26,70	33,10	38,00	43,20
EER ¹⁾			4,52	4,56	4,37	4,44	4,41	4,46	4,23	4,31	4,42	4,25	4,31	4,36	4,37	4,30
SEER ²⁾			5,13	5,00	4,88	5,10	5,00	5,48	4,48	4,83	4,70	4,88	4,93	4,98	5,65	5,10
η_{s,c} ²⁾			202	197	192	201	197	216	185	192	176	190	194	196	223	201
Heating capacity ⁶⁾	kW		23,8	29,0	33,9	38,6	43,1	51,2	58,6	65,8	87,5	103,0	134,0	167,0	193,0	215,0
Input power ⁶⁾	kW		6,26	7,81	9,32	10,90	12,10	14,20	15,50	17,90	22,00	26,30	33,70	41,60	48,50	54,10
COP ⁶⁾			3,80	3,72	3,64	3,54	3,57	3,61	3,79	3,67	3,97	3,93	3,97	4,01	3,97	3,98
COP ⁷⁾			5,66	5,62	5,58	5,60	5,52	5,24	5,32	5,12	5,43	5,23	5,29	5,38	5,33	5,33
SCOP ^{8) 9)}			5,17	5,45	5,33	5,05	4,83	5,28	5,70	5,88	5,70	5,78	5,75	5,63	5,95	5,63
Energy efficiency class ^{8) 9)}	A+++ to D	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	—	—	—	—	—	—
η_{s,h} ^{8) 9)}			204	210	205	194	185	203	220	227	220	223	222	217	230	217
SCOP ^{8) 10)}			4,00	4,48	4,45	4,30	4,28	4,45	4,63	4,78	4,75	4,75	4,73	4,48	4,88	4,68
Energy efficiency class ^{8) 10)}	A+++ to D	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	—	—	—	—	—	—
η_{s,h} ^{8) 10)}			152	171	170	164	163	170	177	183	182	182	181	171	187	179
Sound power (STD / S) ⁴⁾	dB(A)		65 / 62	67 / 64	67 / 64	68 / 65	69 / 66	70 / 67	70 / 68	70 / 68	72 / 70	73 / 71	78 / 76	81 / 79	81 / 79	81 / 79
Sound pressure at 10 m (STD / S) ⁵⁾	dB(A)		34 / 31	36 / 33	36 / 33	37 / 34	38 / 35	39 / 36	39 / 37	39 / 37	40 / 39	42 / 40	47 / 45	50 / 48	50 / 48	50 / 48
ECOi-W WQ 20-190 R - condenserless unit	P-WQE****RA		0020	0025	0030	0035	0040	0045	0050	0060	0075	0090	0120	0150	0170	0190
Cooling capacity ¹¹⁾	kW		18,3	22,7	27,1	30,0	34,2	43,1	45,0	53,4	67,5	80,1	104,0	128,0	148,0	168,0
Input power ¹¹⁾	kW		5,70	6,97	8,07	9,15	10,1	12,2	13,7	16	20,1	23,9	30,8	38,1	44,2	49,7
Sound power (STD / S) ⁴⁾	dB(A)		65/62	67 / 64	67 / 64	68 / 65	69 / 66	70 / 67	70 / 68	70 / 68	72 / 70	73 / 71	78 / 76	81 / 79	81 / 79	81 / 79
Sound pressure at 10 m (STD / S) ⁵⁾	dB(A)		34/31	36 / 33	36 / 33	37 / 34	38 / 35	39 / 36	39 / 37	39 / 37	41 / 39	42 / 40	47 / 45	50 / 48	50 / 48	50 / 48

Physical features

ECOi-W WQ 20-190 C/H - chiller / heat pump			20	25	30	35	40	45	50	60	75	90	120	150	170	190
Dimension	Height	mm	1350	1350	1350	1350	1350	1350	1500	1500	1500	1500	1500	1500	1500	1500
	Width	mm	455	455	455	455	455	455	850	850	850	850	850	850	850	850
	Length	mm	821	821	821	821	821	821	1210	1210	1210	1210	1210	1210	1210	1210
Operating weight	Chiller	kg	162	182	179	185	191	214	352	371	392	411	597	666	701	745
	Heat pump	kg	165	187	184	190	195	219	360	379	403	422	610	683	718	762

Water connections (evaporator and condenser)

Connection type		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter	Inch	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½

ECOi-W WQ 20-190 R - condenserless unit			20	25	30	35	40	45	50	60	75	90	120	150	170	190
Dimension	Height	mm	1350	1350	1350	1350	1350	1350	1500	1500	1500	1500	1500	1500	1500	1500
	Width	mm	455	455	455	455	455	455	850	850	850	850	850	850	850	850
	Length	mm	821	821	821	821	821	821	1210	1210	1210	1210	1210	1210	1210	1210
Operating weight	kg	144	164	166	166	172	172	172	332	344	365	376	558	612	643	674

Water connections (evaporator)

Connection type		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter	Inch	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½

Remote condenser refrigerant connections

Connection type		To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed
Inlet diameter	Inch	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	7/8	7/8	7/8	7/8	1 1/8	1 1/8	1 1/8
Outlet diameter	Inch	5/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	1 1/8	1 1/8	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8

1) According to EN 14511 standard: evaporator EWT/LWT 12 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 2) According to EN 14825 standard. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. These values are not Eurovent certified. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 6) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 40 °C/45 °C. 7) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 8) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 9) According to EN 14825 standard - low temperature application (35 °C). 10) According to EN 14825 standard - medium temperature application (55 °C). 11) Data refers to evaporator water temperature 12/7 °C and condensing temperature 50 °C.



ECOi-W WQ 524-1604 C/H/R - R410A

Water cooled chillers, heat pumps and condenserless units.

Cooling capacity: 154,3 to 459,8 kW.

Heating capacity: 170,2 to 508,4 kW.



The range at a glance

- 3 versions: C (chiller), H (heat pump) and R (condenserless unit)
- 10 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

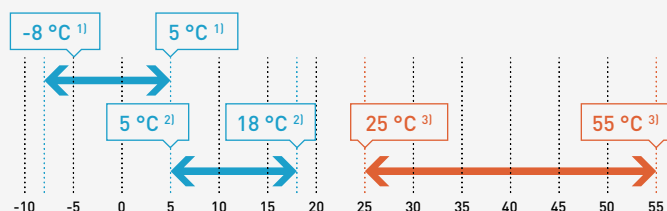
- High full load efficiency: EER up to 4,50, COP up to 3,90
- High seasonal performances: SEER up to 6,50
- Advanced electronic controller: auto-adaptive function to reduce water content in the piping system
- Condensing pressure control option: suitable for well application
- Wide range of Plug & Play hydrokit: easy hydraulic installation
- Desuperheater heat exchanger available as option: heating capacity for free thanks to heat recovery

Operating limits

To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Leaving water temperature.



1) With glycol + EEV.

2) Without glycol + EEV.

3) Only C/H types 20-190.

Note: maximum % glycol (ethylenic or propylenic): 40%.

ECOi-W WQ 524-1604 C/H/R

Cooling	Leaving water temperature	ΔT	K	From 3 to 8
Heating	Leaving water temperature	ΔT	K	From 3 to 15

Equipment

- 2 refrigerant circuits
- 4 scroll compressors (tandem)
- Plate evaporator (AISI 316)
- Differential pressure switch
- Electronic expansion valve (standard 1104-1604)
- Phase sequence control

Accessories and options

Desuperheater
Hydrokit with 1 or 2 pumps for evaporator and condenser
Mechanical gauges
Modbus communication protocol
Soft starter

Accessories supplied loose

P-376463	Sequencer for up to 4 chillers installation
P-347941	Remote ON / OFF control
P-348684	Remote keyboard panel
P-365581	Flow switch (operational only on the evaporator side)
P-473465	Pressure switch
P-348619	Water filter for sizes 524-1204
P-348620	Water filter for sizes 1404-1604

AC SELECT.

Smart and user-friendly selection tool.

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Technical performance

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
Size			524	604	704	804	904	1004	1104	1204	1404	1604
ECoi-W WQ 524-1604 C - chiller	P-	WQE0524CA	WQE0604CA	WQE0704CA	WQE0804CA	WQE0904CA	WQE1004CA	WQE1104CA	WQE1204CA	WQE1404CA	WQE1604CA	
Cooling capacity ¹⁾	kW		154,3	181,8	208,9	232,6	265,8	295,6	338,0	379,2	421,1	459,8
Input power ¹⁾	kW		34,9	42,4	48,4	54,4	60,5	69,0	76,4	85,2	97,0	109,0
EER ¹⁾			4,42	4,28	4,31	4,27	4,39	4,28	4,42	4,45	4,34	4,19
SEER ^{2) 3)}			5,55	6,28	6,1	5,75	6,1	6,1	6,2	6,25	6,43	6,47
η _{s,c} ^{2) 3)}			219	248	241	227	241	241	245	247	254	256
Sound power (STD / S) ⁴⁾	dB(A)		81 / 75	82 / 76	85 / 79	87 / 81	89 / 83	90 / 84	90 / 84	90 / 84	92 / 86	94 / 88
Sound pressure at 10 m (STD / S) ⁵⁾	dB(A)		49 / 43	50 / 44	53 / 47	55 / 49	57 / 51	58 / 52	58 / 52	58 / 52	60 / 54	62 / 56
ECoi-W WQ 524-1604 H - heat pump	P-	WQE0524HA	WQE0604HA	WQE0704HA	WQE0804HA	WQE0904HA	WQE1004HA	WQE1104HA	WQE1204HA	WQE1404HA	WQE1604HA	
Cooling capacity ¹⁾	kW		151,0	177,0	205,0	226,0	264,0	292,0	333,0	371,0	421,0	460,0
Input power ¹⁾	kW		35,60	43,60	49,40	55,50	61,00	67,70	77,70	86,90	97,00	109,00
EER ¹⁾			4,24	4,05	4,15	4,07	4,32	4,31	4,28	4,27	4,35	4,22
SEER ²⁾			4,65	4,93	4,93	4,68	5,15	5,10	5,28	5,30	6,43	6,47
η _{s,c} ²⁾			183	194	194	184	203	201	208	209	254	256
Heating capacity ⁶⁾	kW		172,0	203,0	234,0	259,0	298,0	333,0	379,0	422,0	471,0	508,0
Input power ⁶⁾	kW		44,20	53,70	60,00	68,40	77,50	84,10	95,70	106,00	122,00	132,00
COP ⁶⁾			3,89	3,78	3,90	3,79	3,85	3,96	3,97	3,97	3,85	3,85
COP ⁷⁾			5,36	5,08	5,25	5,11	5,33	5,44	5,30	5,30	5,08	4,99
SCOP ^{8) 9)}			5,40	5,20	5,38	5,35	5,73	5,85	5,83	5,85	—	—
η _{s,h} ^{8) 9)}			208	200	207	206	221	226	225	226	—	—
SCOP ^{8) 10)}			4,55	4,38	4,48	4,43	4,53	4,58	4,60	4,60	—	—
η _{s,h} ^{8) 10)}			174	167	171	169	173	175	176	176	—	—
Sound power (STD / S) ⁴⁾	dB(A)		81 / 75	82 / 76	85 / 79	87 / 81	89 / 83	90 / 84	90 / 84	90 / 84	92 / 86	94 / 88
Sound pressure at 10 m (STD / S) ⁵⁾	dB(A)		49 / 43	50 / 44	53 / 47	55 / 49	57 / 51	58 / 52	58 / 52	58 / 52	60 / 54	62 / 56
ECoi-W WQ 524-1604 R - condenserless unit	P-	WQE0524RA	WQE0604RA	WQE0704RA	WQE0804RA	WQE0904RA	WQE1004RA	WQE1104RA	WQE1204RA	WQE1404RA	WQE1604RA	
Cooling capacity ¹¹⁾	kW		130,0	155,3	177,6	196,5	224,2	247,2	285,9	316,1	368,0	397,0
Input power ¹¹⁾	kW		43,2	51,5	59,5	66,4	74,8	83	95	106	120	134
Sound power (STD / S) ⁴⁾	dB(A)		81 / 75	82 / 76	85 / 79	87 / 81	89 / 83	90 / 84	90 / 84	90 / 84	92 / 86	94 / 88
Sound pressure at 10 m (STD / S) ⁵⁾	dB(A)		49 / 43	50 / 44	53 / 47	55 / 49	57 / 51	58 / 52	58 / 52	58 / 52	60 / 54	62 / 56

Physical features

ECOi-W WQ 524-1604 C/H/R - chiller / heat pump / condenserless unit			524	604	704	804	904	1004	1104	1204	1404	1604
Dimension	Height	mm	1845 ¹²⁾ / 1880 ¹³⁾	1845 ¹²⁾ / 1880 ¹³⁾	1845 ¹²⁾ / 1880 ¹³⁾	1845 ¹²⁾ / 1880 ¹³⁾	1845 ¹²⁾ / 1880 ¹³⁾	1845 ¹²⁾ / 1880 ¹³⁾	1845 ¹²⁾ / 1880 ¹³⁾	1845 ¹²⁾ / 1880 ¹³⁾	1845 ¹²⁾ / 1880 ¹³⁾	1845 ¹²⁾ / 1880 ¹³⁾
	Width	mm	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}	850 ¹²⁾ / 854 ¹³⁾ / 885 ^{12) 14)} - 1005 ^{13) 14)}
			2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
	Length	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
Operating weight - chiller	STD	kg	890	971	1156	1329	1340	1453	1552	1660	1743	1798
	S	kg	993	1074	1259	1432	1443	1556	1655	1763	1846	1901
Operating weight - heat pump	STD	kg	909	989	1187	1360	1376	1500	1598	1704	1787	1842
	S	kg	1012	1092	1290	1463	1479	1603	1701	1807	1890	1945
Operating weight - condenserless unit	STD	kg	770	812	988	1163	1188	1241	1328	1388	1463	1502
	S	kg	873	915	1091	1266	1291	1344	1431	1491	1566	1605

Water connections

Connection type		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter	Inch	2 1/2	2 1/2	2 1/2	2 1/2	4	4	4	4	4	4	4

ECOi-W WQ 524-1604 R - condenserless unit	524	604	704	804	904	1004	1104	1204	1404	1604
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Remote condenser refrigerant connections

Connection type		To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed
Inlet diameter	Inch	7/8	7/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8
Outlet diameter	Inch	1 1/8	1 1/8	1 3/8	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8

1) According to EN 14511 standard: evaporator EWT/LWT 12 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 2) According to EN 14825 standard. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. These values are not Eurovent certified. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 6) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 40 °C/45 °C. 7) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 8) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 9) According to EN 14825 standard - low temperature application (35 °C). 10) According to EN 14825 standard - medium temperature application (55 °C). 11) Data refers to evaporator water temperature 12/7 °C and condensing temperature 50 °C. 12) Standard version. 13) S version. 14) Only for handling.

ECOi-W WSW-N EVO 440-1550 C/H/R - R513A

Water cooled chillers, heat pumps and condenserless units.

Cooling capacity: 410 to 1460 kW.

Heating capacity: 470 to 1650 kW.



Operating limits

To be confirmed with AC SELECT:
<https://acselect.panasonic.eu/>

ECOi-W WSW-N EVO 440-1550 C - chiller				
Evaporator	Leaving water temperature	Water	°C	From 5 to 15
		Water + glycol	°C	From 0 to 5
		Brine	°C	From -8 to 0
		ΔT	K	From 3 to 7
Condenser	Leaving water temperature		°C	From 25 to 45
ECOi-W WSW-N EVO 440-1550 H - heat pump				
Evaporator	Leaving water temperature	Water	°C	From 5 to 15
		Water + glycol	°C	From -8 to 5
		ΔT	K	From 3 to 7
Condenser	Leaving water temperature		°C	From 25 to 60
ECOi-W WSW-N EVO 440-1550 R - condenserless unit				
Evaporator	Leaving water temperature	Water	°C	From 5 to 15
		Water + glycol	°C	From -8 to 5
		ΔT	K	From 3 to 7
Condenser	Condensing temperature		°C	From 30 to 63

Accessories supplied loose	
P-376463	Sequencer for up to 4 chillers installation
P-347941	Remote ON / OFF control
P-364735	Remote keyboard panel
P-365581	Flow switch

The range at a glance

- 3 versions: C (chiller), H (heat pump) and R (condenserless unit)
- 15 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- High full load performances: EER up to 4,90
- High seasonal performances: SEER up to 6,70
- Compressor optimization (high / low pressure ratio), according application: Maximum benefit in terms of efficiency design
- Electronic expansion device: excellent control of superheating for the best performance at full and partial load and for a safe operation
- New generation of pure counter-current shell and tube evaporators and condensers: maximum efficiency and new levels of competitiveness
- Control platform: modular architecture, compressor envelope integration, corrective actions in border line areas, easy-friendly user interface

Equipment

- 1 or 2 refrigerant circuit(s)
- Twin-screw compressors
- Shell and tube evaporator and condenser
- Electronic expansion valve
- Compressor acoustic box (standard for S version)
- Phase sequence control

Accessories and options	
	Automatic circuit breaker
	Compressor stepless control
	Mechanical gauges
	Power factor corrector capacitors
	Several communication protocols
	Soft starter

Accessories supplied loose	
P-348620	Water filter for sizes 440-490
P-348618	Water filter for sizes 570-770
P-362589	Water filter for sizes 860-1550

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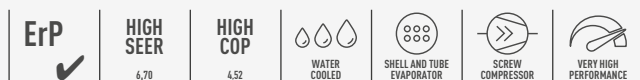




Technical performance

Power supply	Voltage	V		400															
	Phase	Three phase																	
	Frequency	Hz		50															
Size		440		490		570		630		700		770							
ECOi-W WSW-N EVO 440-770 C - chiller		P-WSWVN0440CA		P-WSWVN0490CA		P-WSWVN0570CA		P-WSWVN0630CA		P-WSWVN0700CA		P-WSWVN0770CA							
Cooling capacity ¹⁾	kW	418,6		471,6		539,3		601,9		664,4		734,6							
Input power ¹⁾	kW	88,1		101,1		115,1		127,5		144		158,7							
Total heat rejection ¹⁾	kW	506,7		572,7		654,3		729,4		808,4		893,4							
EER ¹⁾		4,75		4,67		4,69		4,72		4,61		4,63							
SEER ²⁾		6,38		6,38		6,52		6,42		6,38		6,38							
η _{s,c} ²⁾		252		252		258		254		252		252							
Sound power STD / S ³⁾	dB(A)	95 / 85		95 / 85		95 / 85		95 / 85		95 / 85		95 / 85							
Sound pressure at 1 m STD / S ⁴⁾	dB(A)	76 / 66		76 / 66		76 / 66		76 / 66		76 / 66		76 / 66							
Size		860		920		990		1070		1130		1220		1280		1400		1550	
ECOi-W WSW-N EVO 860-1550 C - chiller	P-	WSWVN0860CA	WSWVN0920CA	WSWVN0990CA	WSWVN1070CA	WSWVN1130CA	WSWVN1220CA	WSWVN1280CA	WSWVN1400CA	WSWVN1550CA									
Cooling capacity ¹⁾	kW	825	874,1	936,6	1019,1	1071,8	1159,3	1226,1	1334,6	1457,9									
Input power ¹⁾	kW	177,2	190,3	201,4	215,7	228,1	243,8	257,9	286,3	319									
Total heat rejection ¹⁾	kW	1002,2	1064,3	1137,9	1234,7	1299,8	1403,0	1484,0	1620,9	1776,9									
EER ¹⁾		4,66	4,59	4,65	4,73	4,70	4,76	4,75	4,66	4,57									
SEER ²⁾		6,41	6,41	6,41	6,42	6,53	6,51	6,44	6,45	6,42									
η _{s,c} ²⁾		254	253	254	254	258	257	254	255	254									
Sound power STD / S ²⁾	dB(A)	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89									
Sound pressure at 1 m STD / S ³⁾	dB(A)	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70									
ECOi-W WSW-N EVO 440-770 H - heat pump	P-WSWVN0440HA	P-WSWVN0490HA	P-WSWVN0570HA	P-WSWVN0630HA	P-WSWVN0700HA	P-WSWVN0770HA													
Cooling capacity ¹⁾	kW	419	479	547	612	673	731												
Input power ¹⁾	kW	86,5	98	115	132	147	156												
EER ¹⁾		4,85	4,89	4,75	4,64	4,58	4,69												
Cooling capacity ⁵⁾	kW	365,9	418,9	483,2	541	595,6	646,6												
Input power ⁵⁾	kW	105,2	118,8	141,3	162,1	171,2	191,3												
EER ⁵⁾		3,48	3,53	3,42	3,34	3,48	3,38												
SEER ²⁾		6,53	6,38	6,4	6,38	6,45	6,6												
η _{s,c} ²⁾		258	252	253	252	255	261												
Heating capacity ¹⁾	kW	504	576	661	742	813	887												
COP ¹⁾		5,83	5,88	5,74	5,62	5,53	5,68												
Heating capacity ⁵⁾	kW	470,3	536,5	621,7	698,6	764,7	835,9												
COP ⁵⁾		4,46	4,52	4,4	4,31	4,47	4,37												
Sound power STD / S ³⁾	dB(A)	95 / 85	95 / 85	95 / 85	95 / 85	95 / 85	95 / 85												
Sound pressure at 1 m STD / S ⁴⁾	dB(A)	76 / 66	76 / 66	76 / 66	76 / 66	76 / 66	76 / 66												
ECOi-W WSW-N EVO 860-1550 H - heat pump	P-	WSWVN0860HA	WSWVN0920HA	WSWVN0990HA	WSWVN1070HA	WSWVN1130HA	WSWVN1220HA	WSWVN1280HA	WSWVN1400HA	WSWVN1550HA									
Cooling capacity ¹⁾	kW	818	882	946	1013	1083	1156	1217	1340	1451									
Input power ¹⁾	kW	170	183	195	211	227	242	257	297	306									
EER ¹⁾		4,81	4,83	4,85	4,80	4,78	4,78	4,74	4,52	4,74									
Cooling capacity ⁵⁾	kW	715,5	772	828,1	891,5	958,8	1023,8	1078,2	1186,9	1285,5									
Input power ⁵⁾	kW	210,1	223,4	236,7	257,3	277	298,6	317,4	342,7	377,4									
EER ⁵⁾		3,41	3,46	3,5	3,46	3,46	3,43	3,4	3,46	3,41									
SEER ²⁾		6,4	6,5	6,4	6,4	6,5	6,48	6,48	6,5	6,7									
η _{s,c} ²⁾		253	257	253	253	257	256	256	257	265									
Heating capacity ¹⁾	kW	987	1064	1141	1222	1308	1396	1470	1619	1754									
COP ¹⁾		5,8	5,83	5,85	5,8	5,77	5,77	5,73	5,46	5,73									
Heating capacity ⁵⁾	kW	923	992,7	1063	1146	1231,8	1315,8	1386,1	1523,8	1654,6									
COP ⁵⁾		4,39	4,44	4,49	4,45	4,45	4,41	4,37	4,45	4,38									
Sound power STD / S ³⁾	dB(A)	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89									
Sound pressure at 1 m STD / S ⁴⁾	dB(A)	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70									
ECOi-W WSW-N EVO 440-770 R - condenserless unit		P-WSWVN0440RA		P-WSWVN0490RA		P-WSWVN0570RA		P-WSWVN0630RA		P-WSWVN0700RA		P-WSWVN0770RA							
Cooling capacity ⁶⁾	kW	358,6		405,3		472,7		535,6		586,2		638,1							
Input power ⁶⁾	kW	106,9		120,2		143,4		161,4		174,9		192,6							
Total heat rejection ⁶⁾	kW	465,8		525,8		614,6		694		760,9		828,8							
Sound power STD / S ³⁾	dB(A)	95 / 85		95 / 85		95 / 85		95 / 85		95 / 85		95 / 85							
Sound pressure at 1 m STD / S ⁴⁾	dB(A)	76 / 66		76 / 66		76 / 66		76 / 66		76 / 66		76 / 66							
ECOi-W WSW-N EVO 860-1550 R - condenserless unit	P-	WSWVN0860RA	WSWVN0920RA	WSWVN0990RA	WSWVN1070RA	WSWVN1130RA	WSWVN1220RA	WSWVN1280RA	WSWVN1400RA	WSWVN1550RA									
Cooling capacity ⁶⁾	kW	708,9	758,1	817,2	886,2	947,7	1015,0	1075,9	1181,4	1277,8									
Input power ⁶⁾	kW	213,7	226,9	240,7	263,1	284	306,3	325,4	348,4	384,4									
Total heat rejection ⁶⁾	kW	922,3	984,7	1057,4	1147,9	1230,6	1316,3	1395,1	1527,5	1657,7									
Sound power STD / S ³⁾	dB(A)	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89									
Sound pressure at 1 m STD / S ⁴⁾	dB(A)	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70									

1) According to EN 14511 standard: evaporator EWT/LWT 12 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 2) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281 and according to EN 14825 standard. 3) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 4) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 5) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 40 °C/45 °C. 6) Conditions: evaporator EWT/LWT 12 °C/7 °C, condensing Temperature 49 °C.





Physical features

ECOi-W WSW-N EVO 440-770 C - chiller			440	490	570	630	700	770			
Dimension	Height	mm	1650	1650	1650	1650	1650	1650			
	Height S	mm	1750	1750	1750	1750	1750	1750			
	Width	mm	1350	1350	1350	1350	1350	1350			
	Length	mm	4250	4250	4210	4210	4180	4180			
Operating weight	STD	kg	2690	2700	2875	3003	3472	3521			
	S	kg	2884	2894	3069	3197	3666	3715			
Water connections											
Connection type	Evaporator		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®			
Inlet/outlet diameter		Inch	6	6	6	6	8	8			
Connection type	Condenser		Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded			
Inlet/outlet diameter		Inch	4	4	5	5	5	5			
ECOi-W WSW-N EVO 860-1550 C - chiller			860	920	990	1070	1130	1220	1280	1400	1550
Dimension	Height	mm	1710	1710	1710	1710	1710	1710	1710	1710	1710
	Height S	mm	1780	1780	1780	1780	1780	1780	1780	1780	1780
	Width	mm	1520	1520	1520	1520	1520	1520	1520	1520	1520
	Length	mm	4510	4510	4600	4650	4650	4650	4650	5350	5350
	Length S	mm	4510	4510	4690	4690	4690	4690	4690	5400	5400
Operating weight	STD	kg	5000	5010	5642	5818	6012	6077	6124	6698	6752
	S	kg	5388	5398	6030	6206	6400	6465	6512	7086	7140
Water connections											
Connection type	Evaporator		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	8	8	10	10	10	10	10	10	10
Connection type	Condenser		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	4 / 4	4 / 4	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5
ECOi-W WSW-N EVO 440-770 H - heat pump			440	490	570	630	700	770			
Dimension	Height	mm	1650	1650	1650	1650	1650	1650			
	Height S	mm	1750	1750	1750	1750	1750	1750			
	Width	mm	1450	1450	1450	1450	1450	1450			
	Length	mm	4590	4590	4630	4630	4320	4560			
Operating weight	STD	kg	3055	3186	3277	3197	4027	3824			
	S	kg	3249	3380	3471	3491	4221	4017			
Water connections											
Connection type	Evaporator		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	6	6	6	6	8	8			
Connection type	Condenser		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	4	4	5	5	5	5			
ECOi-W WSW-N EVO 860-1550 H - heat pump			860	920	990	1070	1130	1220	1280	1400	1550
Dimension	Height	mm	1680	1680	1680	1680	1680	1680	1680	1710	1710
	Height S	mm	1780	1780	1780	1780	1780	1780	1780	1780	1780
	Width	mm	1520	1520	1520	1520	1520	1520	1520	1580	1580
	Length	mm	5110	5110	5100	5100	5000	5000	5000	5300	5300
	Length S	mm	5130	5130	5120	5120	5020	5020	5020	5320	5320
Operating weight	STD	kg	5818	5841	6119	6545	6768	6807	6844	7991	8071
	S	kg	6205	6229	6506	6932	7155	7194	7232	8378	8458
Water connections											
Connection type	Evaporator		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	8	8	10	10	10	10	10	10	10
Connection type	Condenser		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	4 / 4	4 / 4	4 / 4	4 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5

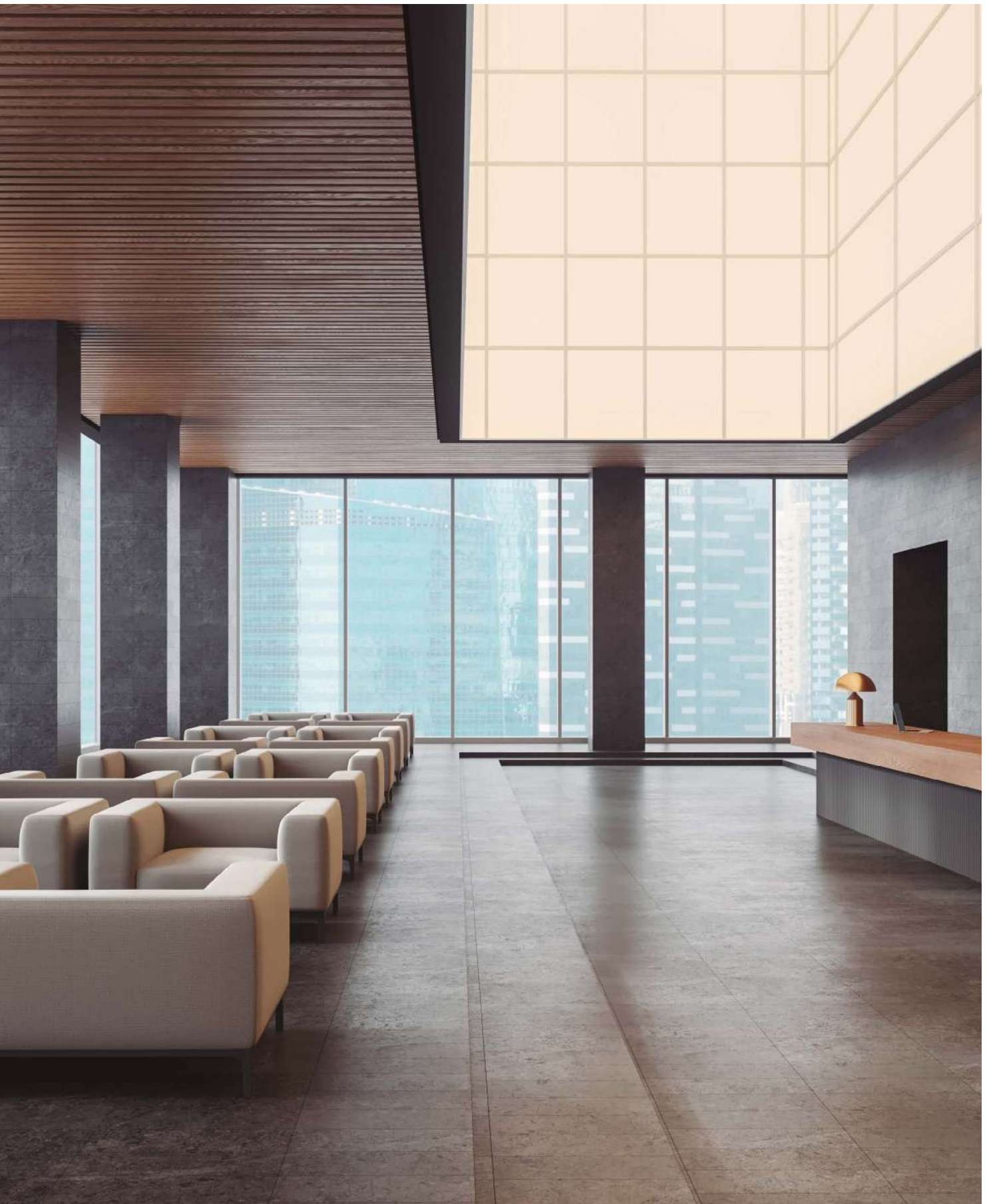
**Physical features**

ECOi-W WSW-N EVO 440-770 R - condenserless unit			440	490	570	630	700	770			
Dimension	Height	mm	1650	1650	1650	1650	1650	1650			
	Height S	mm	1750	1750	1750	1750	1750	1750			
	Width	mm	1350	1350	1350	1350	1350	1350			
	Length	mm	3620	3620	4210	4210	4180	4180			
Operating weight	STD	kg	2302	2312	2456	2476	2952	2992			
	S	kg	2496	2506	2650	2670	3146	3186			
Water connections (evaporator)											
Connection type			Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®			
Inlet/outlet diameter		Inch	6	6	6	6	8	8			
Remote condenser refrigerant connections											
Connection type			To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed			
Inlet diameter circuit 1		Inch	1 5/8	1 5/8	2 1/8	2 1/8	2 1/8	2 1/8			
Outlet diameter circuit 1		Inch	3 1/8	3 1/8	3 5/8	3 5/8	4 1/8	4 1/8			
ECOi-W WSW-N EVO 860-1550 R - condenserless unit			860	920	990	1070	1130	1220	1280	1400	1550
Dimension	Height	mm	1710	1710	1710	1710	1710	1710	1710	1710	1710
	Height S	mm	1770	1770	1770	1770	1770	1770	1770	1770	1770
	Width	mm	1520	1520	1520	1520	1520	1520	1520	1520	1520
	Length	mm	4400	4400	4600	4650	4650	4650	4650	5350	5350
	Length S	mm	4650	4650	4650	4650	4650	4650	4650	5400	5400
Operating weight	STD	kg	4804	4814	4998	5071	5131	5170	5190	5596	5676
	S	kg	5191	5201	5385	5458	5518	5557	5577	5983	6063
Water connections (evaporator)											
Connection type			Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter			Inch	8	8	10	10	10	10	10	10
Remote condenser refrigerant connections											
Connection type			To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed
Inlet diameter circuit 1			Inch	1 5/8	1 5/8	1 5/8	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8
Outlet diameter circuit 1			Inch	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	4 1/8	4 1/8
Inlet diameter circuit 2			Inch	1 5/8	1 5/8	1 5/8	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8
Outlet diameter circuit 2			Inch	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	4 1/8	4 1/8

Water source heat pumps

One building, different needs!

ECOi-LOOP water source heat pumps are ideal for best in class hotels, offices or shopping centers. This solution offers improved comfort by having several different indoor climates inside a building, while maintaining the energy through an internal closed water loop.



What is a water loop system with water source heat pumps?

The water loop system enables distributed cooling and heating production at different temperatures with a single water circuit.

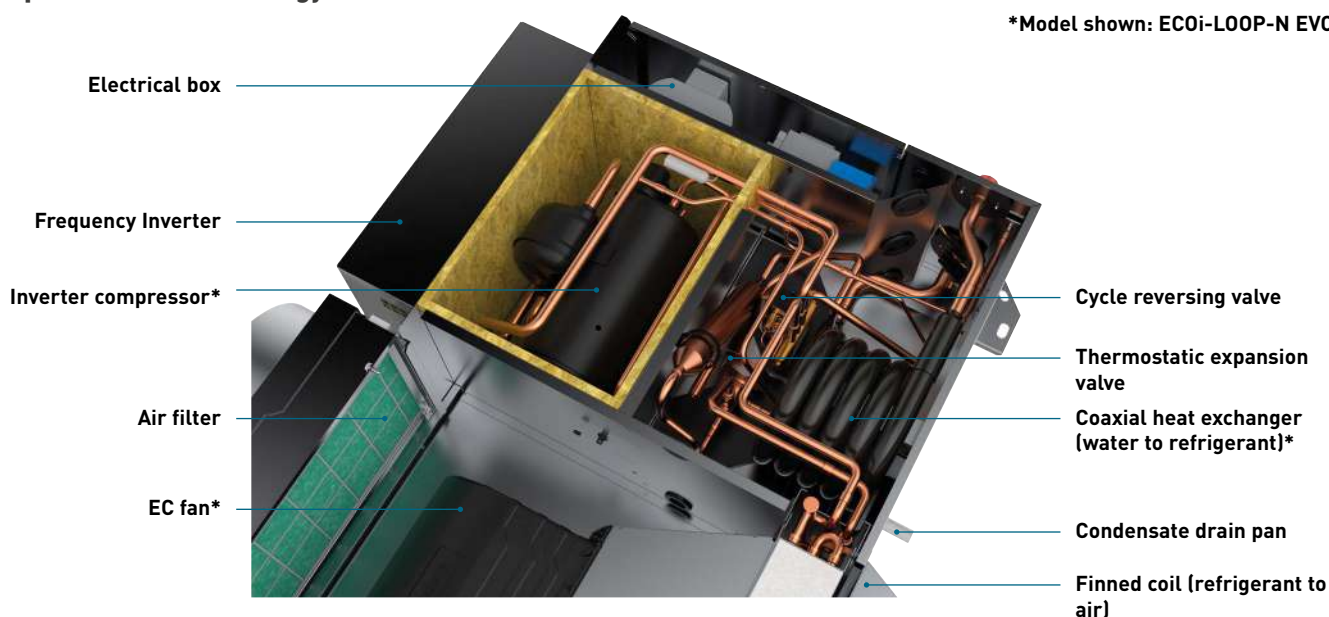
The recovery of condensation heat units in cooling can be used for units in heating and vice-versa, thus providing a balanced and highly efficient system.

These indoor units are called water source heat pumps which are equipped with a compressor and 2 heat exchangers to allow energy transfer between the water loop and air within the space.



High-performance technology

*Model shown: ECOi-LOOP-N EVO.



Key features for ECOi-LOOP.

- High-efficiency
- Heating and cooling of rooms at the same time. All units are connected to the same water loop
- Decentralised cool/heat production (closed water circuit)
- Water heater or cooling tower do not need to be operated as long as cooling and heating loads are roughly balanced. Temperature in the water loop will be kept between 16 and 32 °C
- Reduced refrigerant charge (no refrigerant pipes to an outdoor unit required)
- Low risk of leakage (hermetically sealed systems)
- Water source heat pumps can be easily added or removed without changing the system layout
- Each unit is autonomous and has its own controller allowing also its own safety



Quick selection guide - Water source heat pumps

Page	Size	Cooling and heating capacity (kW)	NR sound levels (at MS)	Nominal air flow ¹⁾ (m³/h)	Pressure (Pa)	Fan	Dimension LxWxH (mm)
P. 66 	15	<div><div>1,5</div><div>1,9</div></div>	26	435	0-140	EC	900 x 530 x 250 ²⁾
	20	<div><div>2,2</div><div>2,5</div></div>	30	465	0-140	EC	900 x 530 x 250 ²⁾
	30	<div><div>2,9</div><div>3,7</div></div>	34	525	0-140	EC	900 x 530 x 250 ²⁾
P. 68 	70	<div><div>7,0</div><div>8,1</div></div>	52	1727	0-495	EC	1142 x 762 x 516 ²⁾
	85	<div><div>8,4</div><div>9,8</div></div>	50	2165	0-495	EC	1142 x 762 x 516 ²⁾
	100	<div><div>10,3</div><div>11,3</div></div>	56	2826	0-335	EC	1333 x 818 x 580 ²⁾
	110	<div><div>11,2</div><div>12,5</div></div>	54	3078	0-250	EC	1333 x 818 x 580 ²⁾
	120	<div><div>12,1</div><div>13,8</div></div>	55	3309	0-350	EC	1333 x 818 x 580 ²⁾
	135	<div><div>13,3</div><div>14,6</div></div>	57	3677	0-260	EC	1333 x 818 x 580 ²⁾
P. 70 		<div><div>2,9</div><div>3,8</div></div>	25,8 ³⁾	525	0-140	EC	900 x 636 x 250 ²⁾

1) At high speed. 2) Without air inlet/outlet options. 3) At minimum thermal load.

Commercial Smart Edge.

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.

Model code	Control points	Indoor unit connections ¹⁾
PAW-CSE-1B	100	4
PAW-CSE-2B	200	10
PAW-CSE-10	1000	50
PAW-CSE-20	2000	100

1) The final number of connected indoor units may vary depending on the range. *For the detail information, please contact an authorised Panasonic dealer.



P-Smart Edge*.
A powerful smart control platform designed for single-site installations, giving you seamless management of the complete Panasonic HVAC range.



P-Smart Nexus*.
An online multi-site control solution that provides remote, centralised supervision of all your locations worldwide.



*Edge controller box (PAW-CSE**) is required.

Page	Size	Cooling and heating capacity (kW)	NR sound levels (at MS)	Nominal air flow ¹⁾ (m³/h)	Pressure (Pa)	Fan	Dimension LxWxH (mm)
ECOi-LOOP HRW H · R407C ECOi-LOOP HRWE H · R407C 	19	<div>5,3</div> <div>5,8</div>	37	1250	>50	AC	900 x 600 x 439
	27	<div>7,4</div> <div>8,3</div>	34	1190	>50	AC	1050 x 600 x 460
	27 HE	<div>7,5</div> <div>9,3</div>	34	1180	>50	AC	1050 x 660 x 460
	30	<div>8,7</div> <div>9,8</div>	35	1490	>100	AC	1050 x 660 x 460
	30 HE	<div>8,9</div> <div>10,0</div>	35	1500	>100	AC	1050 x 660 x 460
	36	<div>10,1</div> <div>11,0</div>	37	1580	>100	AC	1050 x 660 x 460
	36 HE	<div>11,1</div> <div>12,2</div>	37	1580	>100	AC	1250 x 705 x 513
	42	<div>11,4</div> <div>14,4</div>	40	2040	>100	AC	1250 x 705 x 513
	42 HE	<div>12,5</div> <div>14,5</div>	40	2040	>100	AC	1250 x 705 x 513
	48	<div>13,0</div> <div>14,9</div>	43	2750	>100	AC	1250 x 705 x 513
	60	<div>14,3</div> <div>16,1</div>	43	2840	>100	AC	1250 x 705 x 513
	60 HE	<div>16,7</div> <div>18,8</div>	43	2840	>100	AC	1250 x 705 x 583
	72	<div>17,1</div> <div>21,5</div>	39	3570	>100	AC	1250 x 705 x 513
	72 HE	<div>20,6</div> <div>22,6</div>	39	3800	>100	AC	1680 x 955 x 770
	96	<div>21,7</div> <div>26,6</div>	54	4700	>100	AC	1680 x 955 x 770
	96 HE	<div>24,5</div> <div>28,5</div>	54	4700	>100	AC	1680 x 955 x 770
	120	<div>30,0</div> <div>38,1</div>	53	5600	>200	AC	1680 x 955 x 770
ECOi-LOOP FS H · R407C 	12	<div>2,7</div> <div>3,2</div>	40	510	0	AC/EC	1138 x 251 x 821 ²⁾
	7	<div>1,7</div> <div>1,8</div>	34	340	0	AC/EC	1138 x 260 x 821 ²⁾
ECOi-LOOP-N FS H · R513A 	9	<div>2,0</div> <div>2,6</div>	36	400	0	AC/EC	1138 x 260 x 821 ²⁾

1) At high speed. 2) Standard unit with cabinet and feet.



ECOi-LOOP 15-30 C/H · R410A

Water source heat pumps cooling only and reversible.

Cooling capacity: 1,5 to 2,9 kW.

Heating capacity: 1,9 to 3,7 kW.



Optional controller.
RCS remote control.



Optional controller.
SRC - mini BMS controller.

SEE PAGE 78 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS



The range at a glance

- 2 versions: C (cooling only) and H (reversible)
- 3 sizes
- Horizontal installation
- Nominal air flow from 435 to 525 m³/h
- Many air and water configurations available
- 140 Pa maximum external static pressure
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 11 °C to 45 °C

Advantages

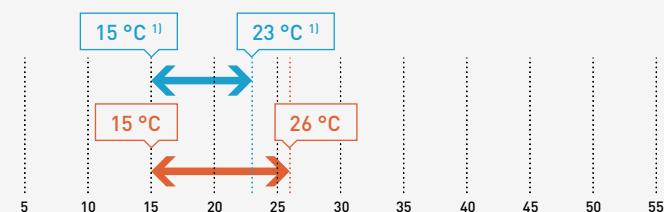
- Very high performances: EER up to 5,05 and COP up to 5,70
- Low energy consumption EC fan
- In-line or perpendicular air flow
- Increased robustness: coaxial heat exchanger
- Easy access to the internal components: large electrical panel and filter accessible from 3 sides
- 100% factory tested

Equipment

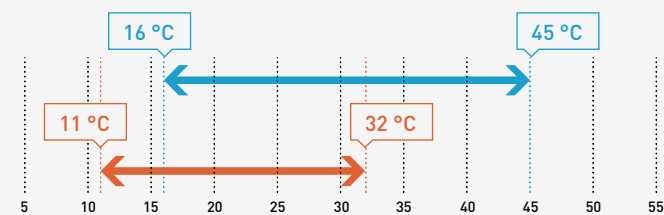
- The refrigerant circuit comprises a rotary type hermetic compressor, a cycle reversal valve (H type only), a water/refrigerant heat exchanger, a liquid receiver, a capillary expansion device, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The rotary type hermetic compressor, mounted on spring anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The water/refrigerant heat exchanger is of copper/stainless steel coaxial type for an increased efficiency
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The casing is made of galvanised steel sheet
- Condensate drain pan with an anti-corrosion treatment
- The electrical box is located on the hydraulic service side with a wide access panel
- The units are equipped with multi-position brackets for easy installation

Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 32 °C DB. *Maximum water pressure 10 bars.

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Technical performance

ECOi-LOOP 15-30 C - cooling only			P-LPE015CA	P-LPE020CA	P-LPE030CA
ECOi-LOOP 15-30 H - reversible			P-LPE015HA	P-LPE020HA	P-LPE030HA
Total cooling capacity ¹⁾	W		1507	2151	2902
Sensible cooling capacity ¹⁾	W		1371	1733	2355
EER			4,51	5,05	4,25
Heating capacity ²⁾	W		1934	2510	3680
COP			5,49	5,70	4,97
Ventilation					
Number of fans				1	
Nominal air flow	m³/h		435	465	525
Motor power	W		24	38	53
Air filter	Number / efficiency		1 / Basic or G3M1	1 / Basic or G3M1	1 / Basic or G3M1
Hydraulic circuit					
Water heat exchanger	Number / type		1 / Coaxial	1 / Coaxial	1 / Coaxial
Maximum water pressure	bar		10	10	10
Nominal water flow	l/h		317	444	617
WPD at nominal water flow	kPa		8	12	18
Connections - inlet/outlet (Ø)	Inch		½ Male gas	½ Male gas	½ Male gas
Condensate outlet - external (Ø)	mm		16	16	16
Refrigerant circuit					
Number of refrigerant circuits			1	1	1
Compressor type			Rotary	Rotary	Rotary
Load	g		415	565	565
Electrical data					
Power supply	Voltage	V	230	230	230
	Phase		Single phase	Single phase	Single phase
	Frequency	Hz	50 ±10%	50 ±10%	50 ±10%
Input power ³⁾	Cooling	W	365	471	742
	Heating	W	389	491	806
Electric heating coil ⁴⁾	Number / capacity	- / W	1 / 600+600	1 / 800+800	1 / 1000+1000
	Input power	W	1200	1600	2000
Sound levels - without acoustic options					
Sound power - radiated	Lo / Med / Hi	dB(A)	41,9 / 43,1 / 44,4	42,7 / 44,5 / 46,5	45 / 46,8 / 48,9
Sound power - discharge	Lo / Med / Hi	dB(A)	45,6 / 49,1 / 53	49,1 / 53,6 / 58,3	51,7 / 57,2 / 61,9
Sound pressure ⁵⁾	Lo / Med / Hi	dB(A)	27,1 / 30 / 33,5	30 / 34,1 / 38,4	32,7 / 37,6 / 42
NR ⁵⁾	Lo / Med / Hi		22,4 / 25,7 / 29,4	25,8 / 30,1 / 34,4	28,6 / 33,6 / 37,9
Sound levels - with air outlet silencer and insulation around the fan					
Sound power - radiated	Lo / Med / Hi	dB(A)	42,3 / 43,2 / 44,5	42,7 / 44,4 / 46,5	44,4 / 46,6 / 48,9
Sound power - discharge	Lo / Med / Hi	dB(A)	32,2 / 35,2 / 38,5	34,7 / 38,5 / 42,5	36,1 / 40,6 / 44,6
Sound pressure ⁵⁾	Lo / Med / Hi	dB(A)	23,2 / 25 / 27,3	24,8 / 27,7 / 31	27 / 30,6 / 34
NR ⁵⁾	Lo / Med / Hi		18,8 / 20,4 / 22,7	20,1 / 23 / 26,4	23,2 / 25,9 / 29,5
Dimension - without air inlet/outlet options					
Length	mm		900	900	900
Width	mm		530	530	530
Height	mm		250	250	250
Weight - without air inlet/outlet options					
Operating weight	kg		48	48	48

1) Nominal cooling capacities based on entering air temperature of 27 °C DB, 19 °C WB with entering water temperature of 30 °C. 2) Nominal heating capacities based on entering air temperature of 20 °C DB, 15 °C WB with entering water temperature of 20 °C. 3) Input power at nominal conditions (compressor + fan at high speed). 4) Electric heating coil is available as an option. 5) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB(A). In-line configuration with filter.

Accessories and options

Air outlet silencer
Basic or G3M1 filter
Circuit breaker
Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)
Drain outlet
Drain pump

Accessories supplied loose

P-393446	RCS kit remote control with thermostat (POL822)
P-375281	SRC - mini BMS controller (only with Modbus RTU)

Accessories and options

Electric heaters
Flow switch control
Insulation around the fan
Many air inlet/outlet and water connection configurations
Pressostatic valve (cooling only)
Room temperature sensor

Accessories supplied loose

P-372061	Kit remote keyboard panel
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ECOi-LOOP-N 70-135 H · R513A

Water source heat pumps reversible.

Cooling capacity: 7,0 to 13,3 kW.

Heating capacity: 8,1 to 14,6 kW.



Optional controller.
RCS remote control.



Optional controller.
SRC - mini BMS controller.

SEE PAGE 78 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS



The range at a glance

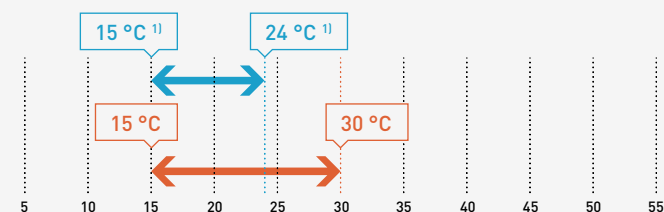
- 1 version: H (reversible)
- 6 sizes
- Horizontal installation
- Nominal air flow from 1730 to 3680 m³/h
- In-line or perpendicular air flow
- Up to 495 Pa according to size
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 11 °C to 45 °C

Advantages

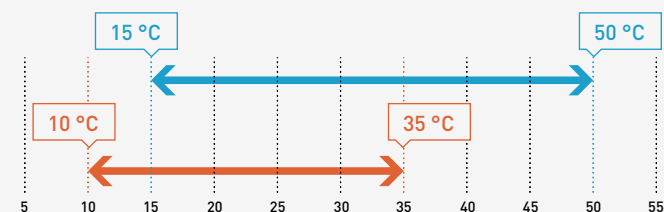
- Very high performances: EER up to 3,95 and COP up to 4,58
- Low energy consumption EC fan
- Increased robustness: coaxial heat exchanger
- Easy access to the internal components: a wide removable panel allows an easy access to the electrical panel and the access to the filter is from the side of the unit, without removing the return duct
- 100% factory tested

Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 33 °C DB. *Maximum water pressure 10 bars.

Equipment

- The refrigerant circuit comprises a scroll type hermetic compressor, a cycle reversal valve, a water/refrigerant heat exchanger, a bi-flow thermostatic expansion valve, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The scroll type hermetic compressor, mounted on spring anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The water/refrigerant heat exchanger is of copper/stainless steel coaxial type for an increased efficiency
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The casing is made of galvanised steel sheet
- Condensate drain pan with an anti-corrosion treatment
- The electrical box is located inside the compressor compartment with a wide access panel

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Technical performance

ECOi-LOOP-N 70-135 H - reversible			P-LPN070HA	P-LPN085HA	P-LPN100HA	P-LPN110HA	P-LPN120HA	P-LPN135HA
Total cooling capacity ¹⁾		W	7011	8407	10290	11183	12105	13301
Sensible cooling capacity ¹⁾		W	5960	7146	8541	9282	10047	11040
Total absorbed power ²⁾		W	1776	2275	2743	3234	3161	3784
EER Compressor			4,53	4,21	4,36	4,0	4,46	4,1
EER according to EN 14511			3,95	3,7	3,75	3,46	3,83	3,52
Total heating capacity ³⁾		W	8069	9808	11307	12514	13834	14639
Total absorbed power ²⁾		W	1761	2256	2590	3073	3081	3467
COP Compressor			5,27	4,96	5,12	4,75	5,25	5,0
COP according to EN 14511			4,58	4,35	4,37	4,07	4,49	4,22
Ventilation								
EC voltage		V	3,80	5,50	7,80	8,80	7,60	8,60
Air flow	Min (LS)	m³/h	1123	1407	1837	2001	2157	2390
	Med (MS)	m³/h	1425	1786	2331	2539	2730	3034
	Max (nominal) (HS)	m³/h	1727	2165	2826	3078	3309	3677
Nominal static pressure		Pa	100	100	100	100	100	100
Fan absorbed power		W	328	393	552	631	617	737
Fan power		W	684	653	703	738	671	722
Air filter	Number / efficiency		1 / G2M1	1 / G2M1	1 / G2M1	1 / G2M1	1 / G2M1	1 / G2M1
Hydraulic circuit								
Water heat exchanger	Number / type		1 / Coaxial	1 / Coaxial	1 / Coaxial	1 / Coaxial	1 / Coaxial	1 / Coaxial
Maximum water pressure		Bar	10	10	10	10	10	10
Nominal water flow	Cooling ¹⁾	l/h	1497	1818	2274	2508	2649	2957
	Heating ³⁾	l/h	1882	2256	2514	2738	3143	3463
Cutoff water flow	Cooling	l/h	749	909	1137	1254	1325	1479
	Heating	l/h	941	1128	1257	1369	1572	1732
WPD at nominal water flow	Cooling ¹⁾	kPa	35,9	49,8	39,6	46,6	30,6	38,3
	Heating ³⁾	kPa	52,7	71,3	46,8	53,9	43,4	53
Hydraulic connections - inlet/outlet		Inch	1 Male gas	1 Male gas	1 Male gas	1 Male gas	1 Male gas	1 Male gas
Condensate outlet (Ø)		mm	19	19	19	19	19	19
Refrigerant circuit								
Number of refrigerant circuits			1	1	1	1	1	1
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Load		g	1040	1165	1108	1116	1355	1363
Electrical data								
Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Maximum current without heating		A	12,8	13,4	15,6	18,2	17,3	18,1
Starting current		A	53,5	53,5	53,5	78,5	71,4	78,4
Sound levels								
Sound power Lw - radiated	Lo / Med / Hi	dB(A)	60,6/65/65,4	59,5/65,3/66,1	61/66,9/69,4	62,1/67,7/10,4	58/62,6/67,4	58,8/63,9/68,8
Sound power Lw - discharge	Lo / Med / Hi	dB(A)	53,8/62,9/71	62,8/69,5/73,6	68,4/72,7/77,1	68,8/72,6/77,2	64,5/69,3/73,5	65,7/71,2/75,6
Sound power Lw	Lo / Med / Hi	dB(A)	63,7/68,1/72,6	65,5/71,4/74,7	69,6/74,1/78,1	70,1/74,3/78,5	66,5/70,9/75,1	67,5/72,7/77
Sound pressure Lp ⁴⁾	Lo / Med / Hi	dB(A)	49/54,3/56,2	49,5/54,3/56,4	55,3/58,8/62,6	54,4/57,6/61,9	52,5/56,8/60,5	52,7/58,5/62,1
NR ⁴⁾	Lo / Med / Hi		45,9/51,5/51,2	45,9/49,9/50,9	52,3/55,5/58,5	52,3/54,4/59,1	50,7/55,2/58,4	50,7/56,9/60,3
Dimension - without air inlet/outlet options								
Length		mm	1142	1142	1333	1333	1333	1333
Width		mm	762	762	818	818	818	818
Height		mm	516	516	580	580	580	580
Weight								
Operating weight		kg	134	134	153	153	160	160

1) Nominal cooling capacities based on entering air temperature of 27 °C DB, 19 °C WB with entering water temperature of 30 °C. 2) Input power at nominal conditions (compressor + fan at high speed).

3) Nominal heating capacities based on entering air temperature of 20 °C DB, 15 °C WB with entering water temperature of 20 °C. 4) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB(A). In-line configuration with filter.

Accessories and options

G2M1 filter or G3 filter

Circuit breaker

Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)

Drain pump

Accessories and options

Electric heaters

Flow switch control

General default report

Many air configurations

Room temperature sensor

Accessories supplied loose

P-393446 RCS kit remote control with thermostat (POL822)

P-375281 SRC - mini BMS controller (only with Modbus RTU)

Accessories supplied loose

P-372061 Kit remote keyboard panel





ECOi-LOOP-N EVO C/H · R513A

Water source heat pumps cooling only and reversible.

Cooling capacity: 1,7 to 2,9 kW.

Heating capacity: 2,0 to 3,8 kW.



Optional controller.
RCS remote control.



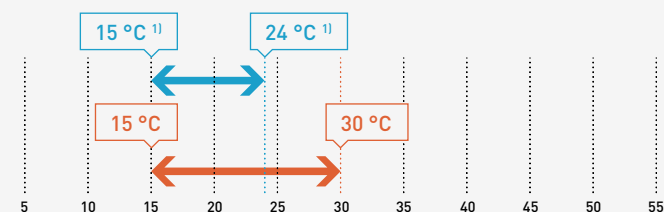
Optional controller.
SRC - mini BMS controller.

SEE PAGE 78 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS

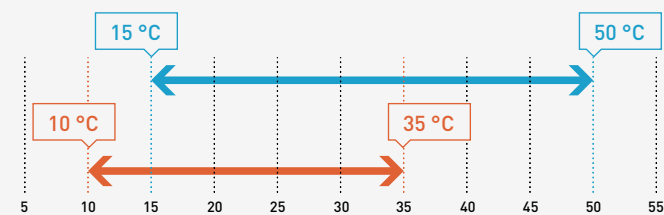


Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 33 °C DB. *Maximum water pressure 10 bars.

The range at a glance

- Unique size available in C (cooling only) or H (reversible) versions
- Horizontal installation
- Air flow from 290 to 525 m³/h
- Inverter compressor technology
- Many air and water configurations available
- 140 Pa maximum external static pressure
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 11 °C to 45 °C

Advantages

- Eco-friendly: R513A refrigerant with very low GWP (631) and low energy consumption EC fan
- Economic: Inverter compressor adapting its speed according to the required capacity
- Extra silent unit: NR<26 at low speed and reinforced insulation
- Very high-performance: EER up to 4,25 and COP up to 4,53
- Low height for an easy integration: only 250 mm
- Highly customisable: many aeraulic configurations and selection of the hydraulic service side
- Increased robustness: coaxial heat exchanger
- Easy access to the internal components: large electrical panel and filter accessible from 3 sides
- 100% factory tested

Equipment

- The refrigerant circuit comprises an Inverter rotary type hermetic compressor, a cycle reversal valve (for H type), a water/refrigerant heat exchanger, a liquid receiver, a thermostatic expansion valve, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The Inverter rotary type hermetic compressor, mounted on spring anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The water/refrigerant heat exchanger is of copper/ stainless steel coaxial type for an increased efficiency
- The unit is equipped with a complete control system (Modbus RTU or BACnet MSTP protocol communication)
- The casing is made of galvanised steel sheet
- Condensate drain pan with an anti-corrosion treatment
- The electrical box is located on the hydraulic service side with a wide access panel
- The units are equipped with multi-position brackets for easy installation



Technical performance

ECOi-LOOP-N EVO C - cooling only			P-LPVN030CA
ECOi-LOOP-N EVO H - reversible			P-LPVN030HA
Total cooling capacity ¹⁾	Min - Max ²⁾	W	1687 - 2948
Sensible cooling capacity ¹⁾	Min - Max ²⁾	W	1363 - 2337
EER	Min - Max ²⁾		4,25 - 3,06
Heating capacity ³⁾	Min - Max ²⁾	W	2004 - 3769
COP	Min - Max ²⁾		4,53 - 3,45
Ventilation			
Number of fans			1
Nominal air flow (at low and high speeds)	Min - Max ²⁾	m ³ /h	290 - 525
Motor power (at low and high speeds)	Min - Max ²⁾	W	13 - 54
Air filter	Number / efficiency		1 / Basic or G3
Hydraulic circuit			
Water heat exchanger	Number / type		1 / Coaxial
Maximum water pressure		bar	10
Nominal water flow	Cooling Min - Max ²⁾	l/h	354 - 662
	Heating Min - Max ²⁾	l/h	458 - 789
WPD at nominal water flow ⁴⁾	Cooling Min - Max ²⁾	kPa	9 - 19,5
	Heating Min - Max ²⁾	kPa	12,3 - 24,6
Connections - inlet/outlet [Ø]		Inch	½ Male gas
Condensate outlet - external [Ø]		mm	16
Refrigerant circuit			
Number of refrigerant circuits			1
Compressor type			Inverter rotary
Load		g	514
Electrical data			
Power supply	Voltage	V	230
	Phase		Single phase
	Frequency	Hz	50 ±10%
Input power ⁵⁾	Cooling Min - Max ²⁾	W	397 - 964
	Heating Min - Max ²⁾	W	442 - 1093
Electric heating coil ⁶⁾	Number / capacity Min - Max ²⁾	- / W	1 / 600 + 600 - 1 / 1000 + 1000
	Input power Min - Max ²⁾	W	1200 - 2000
Sound levels - without acoustic options			
Sound power - radiated	Min - Max ²⁾	dB(A)	41,9 - 51,5
Sound power - discharge	Min - Max ²⁾	dB(A)	47,9 - 62,8
Sound pressure ⁷⁾	Min - Max ²⁾	dB(A)	29,3 - 43
NR ⁷⁾	Min - Max ²⁾		25,8 - 39,2
Sound levels - with air outlet silencer and insulation around the fan			
Sound power - radiated	Min - Max ²⁾	dB(A)	42,3 - 51,6
Sound power - discharge	Min - Max ²⁾	dB(A)	33,2 - 44,4
Sound pressure ⁷⁾	Min - Max ²⁾	dB(A)	24,5 - 35
NR ⁷⁾	Min - Max ²⁾		19,5 - 30,4
Dimension - without air inlet/outlet options			
Length		mm	900
Width		mm	636
Height		mm	250
Weight - without air inlet/outlet options			
Operating weight		kg	51

1) Nominal cooling capacities based on entering air temperature of 27 °C DB, 19 °C WB with entering water temperature of 30 °C. 2) Thermal load. 3) Nominal heating capacities based on entering air temperature of 20 °C DB, 15 °C WB with entering water temperature of 20 °C. 4) Without valve. 5) Input power at nominal conditions (compressor + fan at high speed). 6) Electric heating coil is available as an option. 7) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB. In-line configuration with filter.

Accessories and options

Air outlet silencer
Basic or G3M1 filter
Circuit breaker
Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)
Drain outlet
Drain pump

Accessories supplied loose

P-393446	RCS kit remote control with thermostat (POL822)
P-375281	SRC - mini BMS controller (only with Modbus RTU)

Accessories and options

Electric heaters
Flow switch control
General default report
Insulation around the fan
Many air inlet/outlet and water connection configurations
Room temperature sensor

Accessories supplied loose

P-372061	Kit remote keyboard panel
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ECOi-LOOP HRW H and ECOi-LOOP HRWE H - R407C

Water source heat pumps reversible.

Cooling capacity: 5,3 to 30,0 kW.

Heating capacity: 5,8 to 38,1 kW.



Optional controller.
RCS remote control.



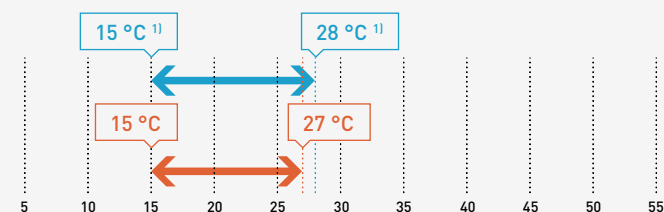
Optional controller.
SRC - mini BMS controller.

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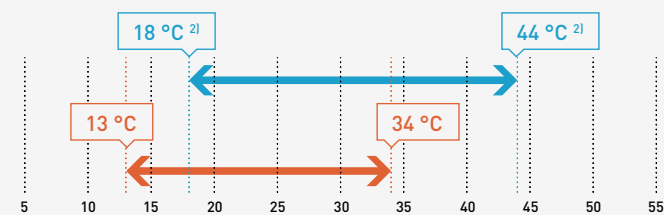


Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 38 °C DB. 2) From 20 to 48 °C for 96-120. *Maximum water pressure 16 bars.

The range at a glance

- 1 version: H (reversible)
- 10 sizes
- Horizontal installation
- Versions: standard or HE** (very high-efficiency)
- Nominal air flow from 1180 to 5600 m³/h
- AC fan: 3-speed direct drive fan motor for sizes 19 to 72 and belt drive with variable pitch pulley for sizes 96 and 120
- Operating range: from 15 °C to 38 °C ambient air temperature
- Water inlet temperature from 13°C to 48 °C

Advantages

- Low sound levels: acoustic insulation between ventilation and compressor compartments
- Very high-efficiency versions (HE)*: EER up to 4,74 and COP up to 4,46
- In-line or perpendicular air flow
- Easy access to components through wide removable panels
- Condensate drain pan with an anti-corrosion treatment and a float-type safety system
- 100% factory tested

Equipment

- The refrigerant circuit comprises a scroll or rotary type hermetic compressor, a cycle reversal valve (for H type), a water/refrigerant heat exchanger, a liquid receiver, a bi-flow thermostatic expansion valve and a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The rotary or scroll type hermetic compressor, mounted on rubber anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The water/refrigerant heat exchanger is made of brazed stainless steel plates, for improved efficiency
- Condensate drain pan with an anti-corrosion treatment and a float-type safety system
- A G2-M1air filter is provided within the unit

*HE versions only available for reversible units.

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Technical performance

ECOi-LOOP HRW H - reversible	P-LPHM***HA***1)	019	027	—	030	—	036	—	042	—	048	060	—	072	—	096	—	120
ECOi-LOOP HRWE H - reversible	P-LPHEM***HA***1)	—	—	027	—	030	—	036	—	042	—	—	060	—	072	—	096	—
Total cooling capacity ²⁾	W	5278	7419	7320	8691	8710	10138	11060	11366	12500	12965	14344	16700	17174	20600	21743	24500	29951
Sensible cooling capacity ²⁾	W	4257	5824	5600	6315	6676	7278	9070	8849	9542	10051	10988	13900	13536	17700	17986	19500	24413
EER		4,20	3,72	4,00	3,77	4,15	3,77	4,31	3,44	4,00	4,03	3,23	4,44	3,26	4,74	3,84	4,61	4,21
Heating capacity ³⁾	W	5826	8342	9252	9759	9960	11036	12200	14422	14450	14904	16147	18800	21500	22600	26637	28500	38109
COP		4,40	3,69	4,21	3,50	4,30	3,38	4,28	3,84	4,36	4,25	3,33	4,20	3,15	4,23	3,54	4,46	4,25
Ventilation																		
Number of fans		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nominal air flow	m ³ /h	1250	1190	1180	1490	1500	1580	1580	2040	2040	2750	2840	2840	3570	3800	4700	4700	5600
Motor power	W	450	450	450	950	950	950	950	950	950	1500	1500	1500	1500	736	1100	1100	1500
Air filter	Number / efficiency	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1
Hydraulic circuit																		
Number of plate heat exchanger		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Maximum water pressure	bar	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Nominal water flow	l/h	921	1540	1620	1764	1800	2030	2306	2592	2600	2822	3348	3550	3924	4300	4860	4960	6408
WPD at nominal water flow	kPa	13	17	13	23	20	25	21	33	28	34	40	35	61	50	55	55	80,5
Connections - inlet/outlet (Ø)	Inch	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G 1 ¼	ISO G ¾ INT	ISO G 1 ¼	ISO G 1 ¼	ISO G 1 ¼
Condensate outlet - external (Ø)	mm	19	19	19	19	19	19	19	19	19	19	19	19	19	22	22	22	22
Refrigerant circuit																		
Number of refrigerant circuits		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Compressor type		Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Load	g	1160	1483	2534	1594	1950	1950	3200	3200	2800	3200	3200	3400	2700	3800	5100	5100	5100
Electrical data																		
Power supply	Voltage	V	230	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	Phase		Single phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50 ±10%	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral	50+ Neutral
Input power ⁴⁾	Cooling	W	1557	2118	1981	2658	2357	3044	2909	3584	3423	4200	4989	4278	6280	5279	6317	5954
	Heating	W	1611	2332	2382	2983	2475	3460	3203	3920	3479	4300	5150	5098	7347	6188	7895	10224
Electric heating coil	Number / capacity	- / W	2 / 1500 + 750	1 / 3750	1 / 3750	1 / 3750	1 / 3750	1 / 4500	1 / 4500	1 / 5400	1 / 5400	1 / 6500	1 / 7500	1 / 7500	1 / 9000	1 / 9000	1 / 13000	1 / 16000
Sound levels																		
Sound power - radiated	Lo / Med / Hi	dB(A)	51 / 54 / 58	54 / 56 / 57	54 / 56 / 57	53 / 54 / 57	53 / 54 / 57	53 / 56 / 58	53 / 56 / 58	54 / 56 / 58	54 / 56 / 58	55 / 59 / 63	55 / 59 / 63	55 / 59 / 63	57 / 60 / 63	55 / 59 / 62	70 / 69 / 68	70 / 69 / 68
NR	Lo / Med / Hi		34 / 37 / 40	33 / 34 / 37	33 / 34 / 37	33 / 35 / 38	33 / 35 / 38	34 / 37 / 41	34 / 37 / 41	36 / 40 / 43	36 / 40 / 43	39 / 43 / 46	39 / 43 / 46	39 / 43 / 46	36 / 39 / 44	36 / 39 / 44	56 / 54 / 52	56 / 54 / 52
Dimension																		
Length	mm	900	1050	1050	1050	1050	1050	1250	1250	1250	1250	1250	1250	1250	1680	1680	1680	1680
Width	mm	600	600	660	660	660	660	705	705	705	705	705	705	705	955	955	955	955
Height	mm	439	460	460	460	460	460	513	513	513	513	513	583	513	770	770	770	770
Weight																		
Operating weight	kg	80	100	112	100	100	112	133	133	135	140	144	149	149	253	253	259	262

1) ***HWA: units without RCS, HRA: units with RCS, HBA: units with RCS + EH, HHA: units with EH. 2) Nominal cooling capacities based on: entering air temperature of 27 °C DB, 19 °C WB with entering water temperature of 30 °C. 3) Nominal heating capacities based on: entering air temperature of 20 °C DB, 15 °C WB with entering water temperature of 20 °C. 4) Absorbed power (compressor + fan) at nominal conditions. Check data and configuration on the technical documentation.

Accessories and options

Circuit breaker

Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)

EH - Electric heaters

General alarm dry contact

Accessories and options

Main switch

Motorized water valve

Room sensor

G3 filter (available upon request)

Accessories supplied loose

P-393446 RCS kit remote control with thermostat (POL822)**P-375281** SRC - mini BMS controller (only with Modbus RTU)

Accessories supplied loose

P-372061 Kit remote keyboard panel



ECOi-LOOP FS H - R407C

Water source heat pumps reversible.

Cooling capacity: 2,7 kW.

Heating capacity: 3,2 kW.



Optional controller.
RCS remote control.



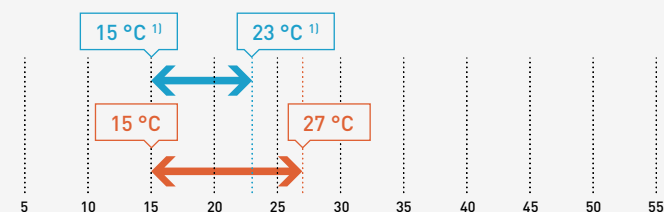
Optional controller.
SRC - mini BMS controller.

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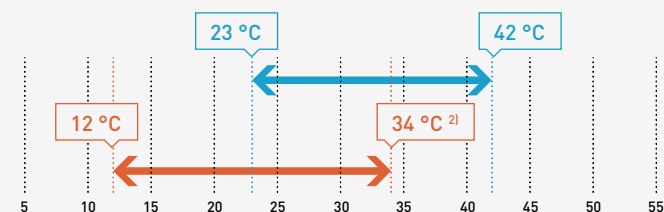


Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 32 °C DB. 2) 32 °C for ECOi-LOOP FS 07 in low speed. *Maximum water pressure 10 bars.

The range at a glance

- 1 version: H (reversible)
- 1 size
- Vertical installation
- 4 versions: VC (standard version with cabinet), VCL (low height version with cabinet), VN (standard version without cabinet) and VNL (low height version without cabinet)
- EER up to 3,25 and COP up to 3,49
- Nominal air flow from 400 to 510 m³/h
- 3-speed AC fan (or optional low consumption EC fan)
- Many hydraulic and electric configurations available
- Front or bottom air intake
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 12 °C to 42 °C

Advantages

- Low sound levels: acoustic insulation between ventilation and compressor compartments
- Design and elaborate finish cabinet enabling harmonious integration (RAL9010)
- Low energy consumption EC fan (option)
- Highly customisable. Many air routing configurations and selection of hydraulic service side
- Easy access to components through a removable front panel
- Brazed stainless steel plate heat exchanger for improved efficiency
- 100% factory tested

Equipment

- The refrigerant circuit comprises a rotary type hermetic compressor, a cycle reversal valve, a water/refrigerant heat exchanger, a liquid receiver, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The rotary type hermetic compressor, mounted on spring anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The water/refrigerant heat exchanger is made of brazed stainless steel plates, for improved efficiency
- RAL9010 painted cabinet for versions VC and VCL
- Condensate drain pan with an anti-corrosion treatment
- A G2 air filter is provided within the unit

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Technical performance

ECOi-LOOP FS H - reversible			P-LPFSM12HA
Total cooling capacity ¹⁾	W		2743
Sensible cooling capacity ¹⁾	W		2340
EER			3,25
Heating capacity ²⁾	W		3156
COP			3,49
Ventilation			
Number of fans			1
Air flow	Lo / Med / Hi	m ³ /h	400 / 460 / 510
Motor power (with AC / EC fan)		W	75 / 40
Air filter	Number / efficiency		1 / G2
Hydraulic circuit			
Number of plate heat exchanger			1
Maximum water pressure	bar		10
Nominal water flow	l/h		616
WPD at nominal water flow	kPa		12
Connections - inlet/outlet [ø]	Inch		ISO G ½ INT
Condensate outlet - external [Ø]	mm		15 x 20
Refrigerant circuit			
Number of refrigerant circuits			1
Compressor type			Rotary
Load	g		750
Electrical data			
Power supply	Voltage	V	230
	Phase		Single phase
	Frequency	Hz	50 ±10%
Input power - AC fan ³⁾	Cooling	W	892
	Heating	W	954
Sound levels - AC fan			
Sound pressure ⁴⁾	Lo / Med / Hi	dB(A)	43 / 45 / 46
NR ⁴⁾	Lo / Med / Hi		38 / 40 / 41
Dimension			
Standard with cabinet (VC)	L x W x H	mm	1138 x 251 x 720 min / 750 max [821 with feet]
Low height with cabinet (VCL)	L x W x H	mm	1323 x 251 x 580 min / 610 max [683 with feet]
Standard without cabinet (VN)	L x W x H	mm	1043,5 [1086 with feet] x 229 x 667,5 min / 697,5 max [769,5 with feet]
Low height without cabinet (VNL)	L x W x H	mm	1182,5 [1183 with feet] x 229 x 525 min / 555 max [627 with feet]
Weight			
Without cabinet / with cabinet - operating	kg		60 / 75

1) Nominal cooling capacities based on: entering air temperature of 27 °C DB/19 °C WB, with entering water temperature of 30 °C. 2) Nominal heating capacities based on: entering air temperature of 20 °C DB/15 °C WB, with entering water temperature of 20 °C. 3) Absorbed power (compressor + fan) at nominal conditions. 4) Sound pressure considering a local of 100 m³, a reverberation time of 0,5 sec and a distance of 1 m.

Accessories and options

Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)

EC fan

Feet

Accessories and options

General remote alarm contact

Low noise

Many electric, hydraulic and aeraulic configurations

Thermal overload

Accessories supplied loose

P-393446 RCS kit remote control with thermostat (POL822)

P-375281 SRC - mini BMS controller (only with Modbus RTU)

P-372061 Kit remote keyboard panel

Accessories supplied loose

P-372734 Kit front air intake cabinet

P-372642 Kit front air intake cabinet (low height)





ECOi-LOOP-N FS H · R513A

Water source heat pumps reversible.

Cooling capacity: 1,7 to 2,0 kW.

Heating capacity: 1,8 to 2,6 kW.



Optional controller.
RCS remote control.



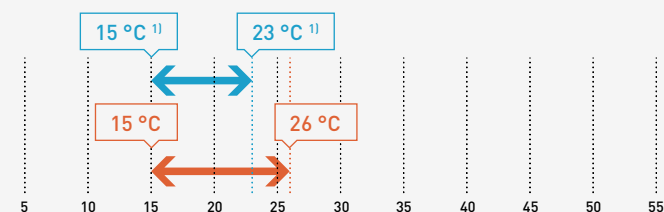
Optional controller.
SRC - mini BMS controller.

SEE PAGE 78 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS

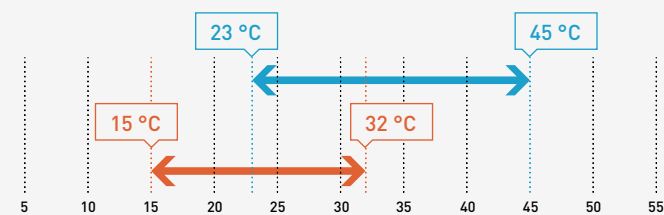


Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 32 °C DB. *Maximum water pressure 10 bars.

The range at a glance

- 1 version: H (reversible)
- 2 sizes
- Vertical installation
- 4 versions: VC (standard version with cabinet), VCL (low height version with cabinet), VN (standard version without cabinet) and VNL (low height version without cabinet)
- EER up to 4,9 and COP up to 4,6
- Nominal air flow from 250 to 460 m³/h
- 3-speed AC fan (or optional low consumption EC fan)
- Many hydraulic and electric configurations available
- Front or bottom air intake
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 15 °C to 45 °C

Advantages

- Low sound levels: acoustic insulation between ventilation and compressor compartments
- Design and Elaborate finish cabinet enabling harmonious integration (RAL9010)
- Low energy consumption EC fan (option)
- Highly customisable. Many air routing configurations and selection of hydraulic service side
- Easy access to components through a removable front panel
- Brazed stainless steel plate heat exchanger for improved efficiency (coaxial exchanger upon request)
- 100% factory tested

Equipment

- The refrigerant circuit comprises a rotary type hermetic compressor, a cycle reversal valve, a water/refrigerant heat exchanger, a liquid receiver, a capillary expansion device, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The rotary type hermetic compressor is installed in a compartment covered with a 20 mm thick Isofutre thermal-acoustic insulation. It is also equipped with internal thermal protection
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The water/refrigerant heat exchanger is made of brazed stainless steel plates, for improved efficiency. A coaxial heat exchanger is available on request
- RAL9010 painted cabinet for versions VC and VCL
- Condensate drain pan with an anti-corrosion treatment
- A G2 air filter is provided within the unit

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>





Technical performance

ECOi-LOOP-N FS H - reversible			P-LPFSN07HA	P-LPFSN09HA
Total cooling capacity ¹⁾	W		1690	2040
Sensible cooling capacity ¹⁾	W		1410	1600
Input power (with EC / AC fan) ²⁾	W		345 / 355	480 / 487
EER according to EN 14511 (with EC / AC fan)			4,9 / 4,75	4,25 / 4,19
Heating capacity ³⁾	W		1790	2630
Input power (with EC / AC fan) ²⁾	W		395 / 405	610 / 617
COP according to EN 14511 (with EC / AC fan)			4,6 / 4,41	4,31 / 4,26
Ventilation				
Air flow	Min	m³/h	250	340
	Nominal	m³/h	340	400
	Max	m³/h	400	460
Nominal input power (with EC / AC fan)	W		15 / 25	20 / 27
Motor power (with EC / AC fan)	W		40 / 75	40 / 75
Air filter	Number / efficiency		1 / G2	1 / G2
Hydraulic circuit				
Number of plate heat exchanger			1	1
Maximum water pressure	Bar		10	10
Nominal water flow	Cooling ¹⁾	l/h	351	434
	Heating ³⁾	l/h	405	586
Cutoff water flow		l/h	180	180
WPD at nominal water flow	Cooling ¹⁾	kPa	3,8	5,8
	Heating ³⁾	kPa	5,1	10,8
Hydraulic connections - inlet/outlet	Inch		Female ISO G ½ INT	Female ISO G ½ INT
Condensate outlet (Ø)	mm		15 x 20	15 x 20
Refrigerant circuit				
Number of refrigerant circuits			1	1
Type of compressor			Rotary	Rotary
Load	g		500	490
Electrical data				
Power supply	Voltage	V	230	230
	Phase		Single phase	Single phase
	Frequency	Hz	50 ±10%	50 ±10%
Maximum current ⁴⁾	A		4,6	5,7
Starting current ⁵⁾	A		16	16,5
Sound levels				
Sound power Lw	Lo / Med / Hi	dB(A)	47,2 / 49,8 / 51,5	49,8 / 51,5 / 54,3
Sound pressure Lp	Lo / Med / Hi	dB(A)	38,2 / 40,8 / 42,5	40,8 / 42,5 / 45,3
NR	Lo / Med / Hi	dB(A)	32 / 34 / 36	34 / 36 / 40
Sound levels - extra low noise version				
Sound power Lw	Lo / Med / Hi	dB(A)	42,5 / 44,6 / 46,5	44,7 / 46,5 / 48,6
Sound pressure Lp	Lo / Med / Hi	dB(A)	33,5 / 35,6 / 37,5	35,7 / 37,5 / 39,6
NR	Lo / Med / Hi	dB(A)	28 / 30 / 32	30 / 32 / 34
Dimension				
Standard with cabinet (VC)	L x W x H	mm	1138 x 260 x 720 min / 750 max (821 with feet)	1138 x 260 x 720 min / 750 max (821 with feet)
Low height with cabinet (VCL)	L x W x H	mm	1322 x 260 x 582 min / 612 max (683 with feet)	1322 x 260 x 582 min / 612 max (683 with feet)
Standard without cabinet (VN)	L x W x H	mm	1055 (1084 with feet) x 241 x 667 min / 697 max (769 with feet)	1055 (1084 with feet) x 241 x 667 min / 697 max (769 with feet)
Low height without cabinet (VNL)	L x W x H	mm	1185 (1270 with feet) x 241 x 525 min / 555 max (626 with feet)	1185 (1270 with feet) x 241 x 525 min / 555 max (626 with feet)
Weight				
Without cabinet / with cabinet - operating	kg		55 / 70	58 / 73

1) Nominal cooling capacities based on: entering air temperature of 27 °C DB/19 °C WB, with entering water temperature of 30 °C. 2) Absorbed power (compressor + fan) at nominal conditions. 3) Nominal heating capacities based on: entering air temperature of 20 °C DB/15 °C WB, with entering water temperature of 20 °C. 4) Maximum currents are given at +/- 5%. 5) Starting currents are given at +/- 10%.

Accessories and options

Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)

EC fan

Feet

Accessories and options

General remote alarm contact

Low noise

Many electric, hydraulic and aeraulic configurations

Thermal overload

Accessories supplied loose

P-393446 RCS kit remote control with thermostat (POL822)

P-375281 SRC - mini BMS controller (only with Modbus RTU)

P-372061 Kit remote keyboard panel

Accessories supplied loose

P-372734 Kit front air intake cabinet

P-372642 Kit front air intake cabinet (low height)



Water source heat pumps control systems



SRC - mini BMS controller.

Smart controller. Mini building management system.

With the SRC - mini BMS controller - you can now remotely control multiple units or zones of units with a single interface.

Its time programming function offers you the possibility to fully control and rationalise the energy consumption of your HVAC system.

This smart controller is intuitive and easy to use thanks to its color touch screen, logical structure and clear control icons.

The modern and refined design fits perfectly in to any modern interior.

- Supervise fan coil units, chillers/heat pumps, air handling units and water source heat pumps
- Manage up to 31 units
- Communicate via Modbus protocol
- Time programming function
- A modern and refined design
- 3,5" color touch screen
- Wall mounting

Used as a mini BMS.

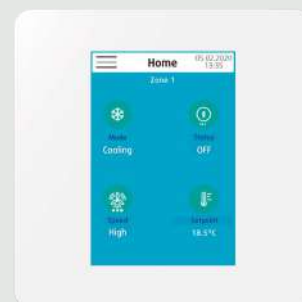
With the SRC you can create up to 15 zones including several Panasonic units belonging to the same product lines.

- Chillers / heat pumps
- Air handling units
- Fan coil units

Used as a remote control.

The SRC can also control, in a unique zone, one or several units belonging to the same product line.

- Fan coil units
- Water source heat pumps



Control system with protocol communication.

Ventilation:

- Compatibility: 3-speed AC fan motor or EC fan motor
- Manual speed (3 levels)
- Automatic speed

Communication:

- Modbus RTU or BACnet MSTP
- Modbus TCP/IP or LON or BACnet IP upon request

Operating mode:

- OFF / Comfort / ECO

Function type:

- Summer
- Winter
- Ventilation
- Auto changeover (adjustment of the automatic mode according to the setpoint)

Setpoint:

- Extract air temperature
- Room thermostat
- BMS



RCS remote control.

Main functions:

- ON / OFF
- Comfort / ECO modes
- Operating mode setting
- Setpoint adjustment
- Room temperature (OFF)
- Ventilation setting (manual or automatic)
- Time display and setting
- Alarm summary
- Zoning (up to 15 units)
- Scheduling





Rooftops

Rooftop units provide air-based cooling and heating for commercial buildings to ensure thermal comfort and proper indoor air quality (IAQ) through ventilation. Easy installation, space savings and customisation allow you to meet all your needs.

ABOUT

Quick selection guide - Rooftops cooling only	→ <?>
Quick selection guide - Rooftops reversible	→ 5
<hr/>	
Energy recovery system configurations	→ <?>

PRODUCT SPECIFICATIONS

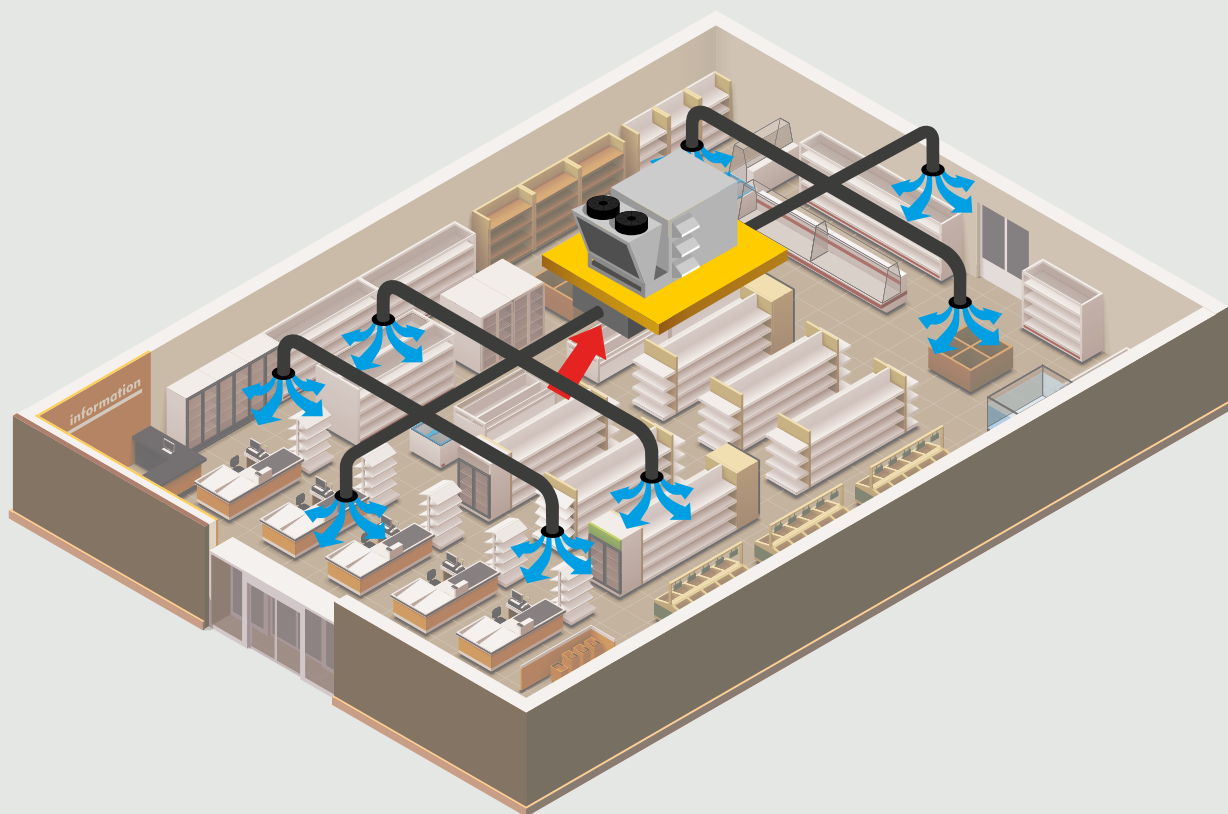
ECOi-RT-Z 105-140 H · R32	→ <?>
ECOi-RT 65-190 C · R410A	→ 28

Rooftops

A complete monobloc solution for large buildings.

With rooftop units, you get a complete compact and monobloc solution to heat and cool large buildings such as shopping centers, industries or airports that need high capacities. It is an easy to install, space saving solution, directly on the roof or close to a building.





HEATING

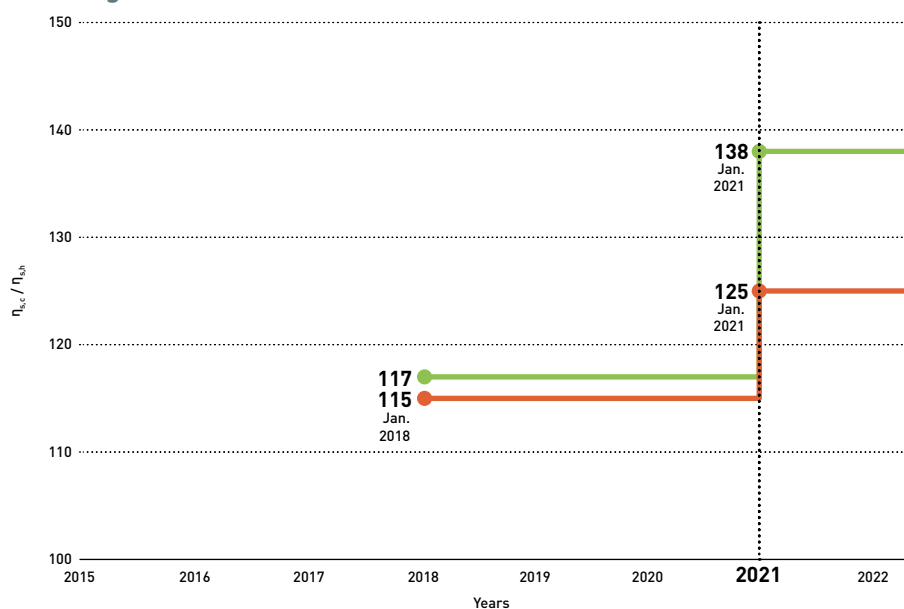


COOLING

FRESH AIR*
EXTRACTION**
FILTRATIONSELF-CONTAINED
SOLUTION, COMPACT
AND MONOBLOCCAPACITY RANGE
FROM 63 TO 197 KWR32 REFRIGERANTS:
R410A R32 / R410AHIGH SEER
AND SCOPHIGH
ESPVERY HIGH
EXTERNAL STATIC
PRESSUREEXTRACTIBLE
DRAIN PANMANY
CONFIGURATIONS
AND OPTIONS

*With 2 or 3 dampers configurations. **Available only with 3 dampers configuration.

Ecodesign



Air to air rooftops cooling only.

Minimum $\eta_{cooling}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) 2016/2281.

Air to air rooftops reversible.

Minimum $\eta_{cooling}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) No813/2013.

Quick selection guide - Rooftops cooling only

Page	Size	Cooling capacity (kW)	Nominal air flow (m³/h)	Sound power (lwo - dB(A))	Dimension L x H x W (mm)
ECOi-RT C · R410A  P. 28	65	62,80	11500	83	3250 x 1800 x 2030
	80	79,00	14300	80	3250 x 1800 x 2030
	95	89,27	17500	85	3740 x 2110 x 2285
	160	164,98	28000	91	5505 x 2110 x 2285
	190	197,06	30000	92	5505 x 2110 x 2285

Quick selection guide - Rooftops reversible

Page	Size	Cooling and heating capacity (kW)	Nominal air flow (m³/h)	Sound power (lwo - dB(A))	Dimension L x H x W (mm)
ECOi-RT-Z 105-140 H · R32  P. <?>	105	106,0	19200	79,8	3740 x 2150 x 2285
		106,0			
	120	119,0	21500	79,8	3740 x 2150 x 2285
		117,0			
	140	139,0	25500	86,1	3740 x 2150 x 2285
		142,0			

*Heat pump version with EC fans.

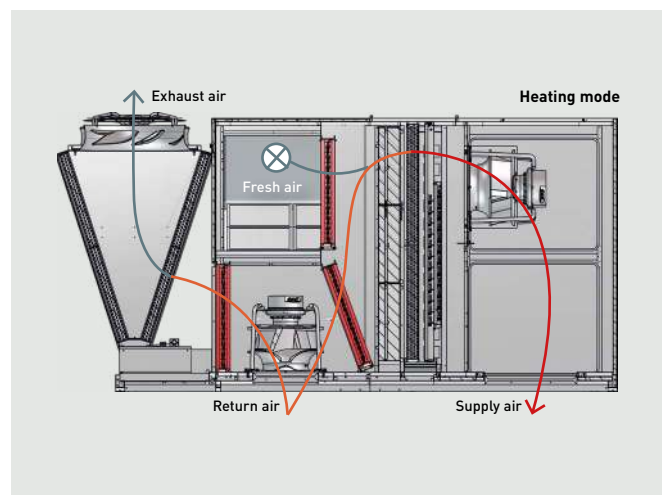
Energy recovery system configurations

RECO - standard energy recovery (3 dampers)

Energy recovery on the exhaust air.

	Pc	EER	Ph	COP
3 dampers + RECO 30% fresh air	+1%	+2%	+7%	+4%
3 dampers + RECO 60% fresh air	+2%	+4%	+14%	+8%

*Nominal conditions. Pc: cooling capacity / Ph: heating capacity.



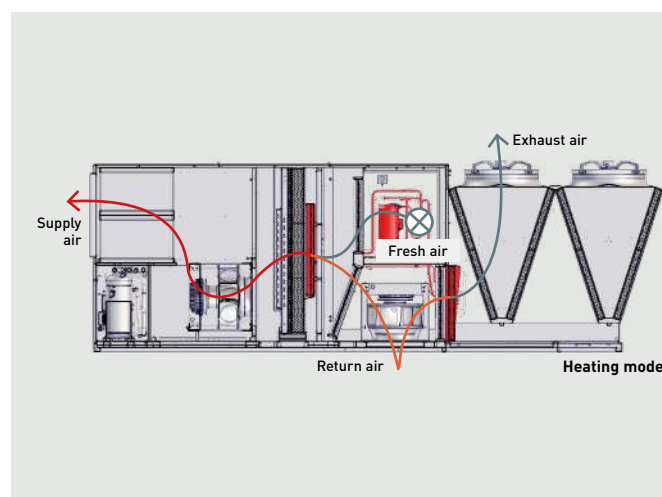
TRECO - thermodynamic energy recovery (3 dampers)

Active energy recovery between the exhaust air and the fresh air using dedicated thermodynamic system.

	Pc	EER	Ph	COP
3 dampers + TRECO 20% fresh air	+21%	0%	+20%	+3%
3 dampers + TRECO 60% fresh air	+20%	-2%	+21%	+4%

*Nominal conditions. Pc: cooling capacity / Ph: heating capacity.

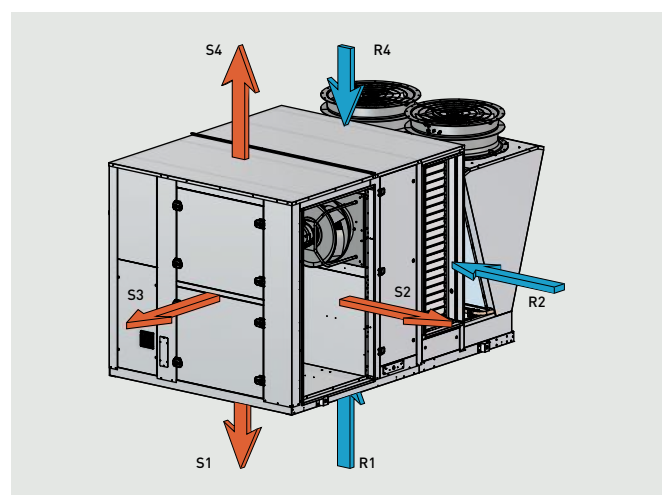
**TRECO is not available for the R32 rooftops.



Supply and return air configurations

Supply air	S1 bottom side supply air
	S2 left side supply air
	S3 front side supply air
	S4 top side supply air
Return air	R1 bottom side return air
	R2 left side return air
	R4 top side return air ¹⁾

1) Not available with the 3 dampers - RECO system configuration.



AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>





ECOi-RT-Z 105-140 H · R32

Rooftop reversible units.

Cooling capacity: 106 to 139 kW.

Heating capacity: 106 to 142 kW.

CO₂ carbon footprint
reduced by **-80%***

*Impact considering only the refrigerants
and not the units as a whole.

R32
REFRIGERANT

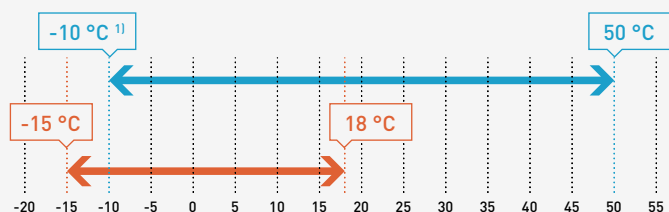


Operating limits

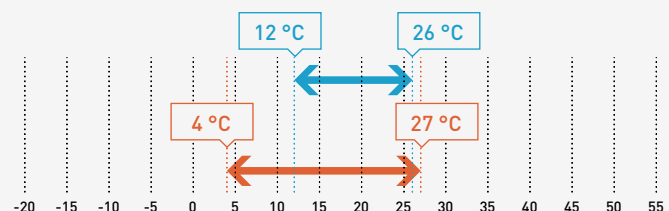
To be confirmed with AC SELECT:

<https://acselect.panasonic.eu/>

Ambient temperature (DB).



Temperature before indoor coil ²⁾.



1) Using fan speed control option. 2) Cooling: °C (WB). Heating: °C (DB).

The range at a glance

- Reversible version
- SEER up to 3,8 and SCOP up to 3,56
- 3 sizes
- Nominal air flow from 19200 to 25500 m³/h
- Additional heaters available
- Many supply and return air configurations
- 1 energy recovery system configuration (RECO)

Advantages

- Low GWP R32 refrigerant (GWP= 675)
- Very low sound levels
- Safety ventilation system
- Low energy consumption EC fans
- Many supply and return air configurations
- Thermal/acoustic insulation: double skin (25 mm glass wool)
- Dehumidification function (option)
- 100% factory tested

Equipment

- 2 refrigerant circuits for an optimised defrost logic, completely closed in a separate compartment to reduce noise level. Each circuit comprises of 1 Scroll compressor, indoor and outdoor coils, 4 way reversing valve, filter dryer, sight glass, thermostatic expansion valve, high and low pressure switches, defrosting pressure switch, and temperature sensors
- 2 Scroll compressors - 1 per circuit - covered with sound jackets. Each compressor is equipped with a crankcase heater and mounted on rubber pads to eliminate noise and vibration transmissions. The motors are equipped with an overload protection and have direct start-up. A phase sequence monitor is supplied as standard
- The new advanced control system includes, among others, Modbus protocols, optimised defrost logic, very high security envelope, Modbus control of the indoor fans, and a dehumidification function. The controls are grouped and wired in the unit, factory tested and shipped READY TO USE. They are located in a sealed compartment isolated from the air flow. The electrical equipment is compliant with EC standards and EN60204-1
- The outdoor and indoor heat exchangers are made of seamless copper tubes mechanically expanded into aluminium fins. They have a highly optimised design providing a refrigerant charge reduction of 40% (compared to a unit operating with R410A). Outdoor coils are largely dimensioned to optimise performance and defrost cycles. They are also equipped with a protective grille to prevent shocks - Bluefin treatment
- The unit casing is of heavy duty galvanized steel, painted with a special anti-corrosion process (RAL 9001). The complete unit is covered with double skin panels to ensure perfect thermal insulation. For full unit access, all service panels are removable. Under the indoor heat exchanger, an extractable condensate drain pan allows hygienic cleaning
- The indoor fans are plug fan type with EC motors
- A safety ventilation system ensures venting of the refrigerant gas to atmosphere in case of leak

ECOi-RT-Z 105-140 H · R32 units are available in 3 configurations:

- No damper: unit working with 100% recycled air
- 2 dampers: with outdoor air inlet
- 3 dampers - RECO system: energy recovery system on the exhaust air. This configuration is equipped with 2 return EC plug fans



Technical performance

Size			105	120	140
ECOi-RT-Z 105-140 H - reversible			P-RTZ0105HA	P-RTZ0120HA	P-RTZ0140HA
Cooling capacity ¹⁾	kW		106	119	139
Input power ¹⁾	kW		31,5	36,8	43,0
EER ¹⁾			3,37	3,23	3,24
P_{design} ^{2) 3)}	kW		106	119	139
SEER ^{2) 3)}			3,82	3,82	3,67
Energy efficiency class ^{2) 3)}	A+ to E		B	B	B
η_{s,c} ^{2) 3)}			150	150	144
Heating capacity ¹⁾	kW		106	117	142
Input power ¹⁾	kW		27,0	30,3	38,0
COP ¹⁾			3,72	3,89	3,69
P_{design} ^{2) 3)}	kW		100	118	140
SCOP ^{2) 3)}			3,36	3,56	3,32
Energy efficiency class ^{2) 3)}	A+ to E		B	B	B
η_{s,h} ^{2) 3)}			131	130	130
Electrical data					
Power supply	Voltage	V	400	400	400
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Maximum operating intensity	A		79,0	85,0	105,0
Refrigerant and compressors					
Number of refrigerant circuits			2	2	2
Compressors	Number / type		2 / Scroll	2 / Scroll	2 / Scroll
Mounting type			Single	Single	Single
Capacity steps	%		0 / 50 / 100	0 / 50 / 100	0 / 50 / 100
Indoor coil					
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			4	4	4
Front surface	m ²		3,24	3,24	3,24
Outdoor coil					
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			3	3	3
Front surface	m ²		1,50	1,50	1,50
Indoor fans - EC type					
Fan type			Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal
Number of fans			2	2	2
Air flow rate	Min. / Nominal / Max.	m ³ /h	15360 / 19200 / 23040	17200 / 21500 / 25800	20400 / 25500 / 30600
Motor power		kW	4,23	4,60	5,72
Outdoor fans					
Fan			2 / Axial	2 / Axial	2 / Axial
Motor power			1,51	1,51	1,51
Sound levels					
Sound power			79,8	79,8	86,1
Supply sound power			84,2	84,2	91,3
Sound pressure at 10 m			48,8	48,8	55,1
Dimension and weight					
Dimension	Length total / floor	mm	3740 / 3295	3740 / 3295	3740 / 3295
	Width / Height	mm	2285 / 2150	2285 / 2150	2285 / 2150
Weight (without option)			1685	1805	1855

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.

Accessories and options

2 dampers - for external air inlet
 3 dampers RECO - return EC plug fans included (HPF or LFP) + Recovery
 Anti-vibration mounts
 Clogged filter sensor (1 or 2 stages)
 Compressor soft starter
 Container transportation compatibility
 Dehumidification function
 Electric heater 48 kW
 Energy meter

Accessories and options

Fan speed control
 G4, G4+F7 or G4+F9 filters
 Hot water coil
 Local and additional remote keyboard
 Many aeraulic configurations
 Room temperature sensor
 Sensors [enthalpy, CO₂]
 Smoke detector
 Supply EC LPF plug fans

Accessories supplied loose

P-575505 Kit adjustable roof curb S1R1 - 0/2 Dampers without gas

ECOi-RT 65-190 C · R410A

Rooftop cooling only units.

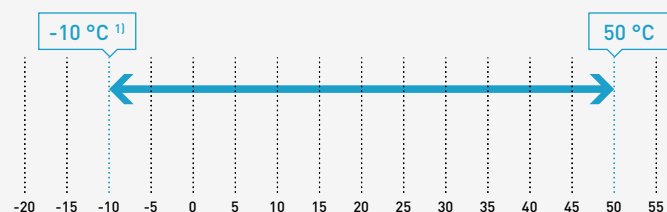
Cooling capacity: 62,8 to 197 kW.



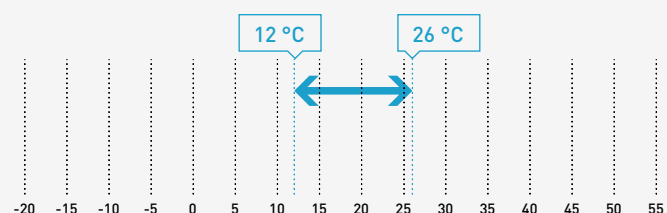
Operating limits

To be confirmed with AC SELECT:
<https://acselect.panasonic.eu/>

Ambient temperature (DB).



Temperature before indoor coil ²⁾.



1) Using fan speed control option. 2) Cooling: °C (WB).

The range at a glance

- 1 version: C (cooling only)
- SEER up to 3,94
- 5 sizes
- Nominal air flow from 11500 to 30000 m³/h
- Additional heaters available
- Many aeraulic configurations
- 2 energy recovery system configurations (RECO and TRECO)

Advantages

- Low energy consumption EC fans
- Wide operating limits
- Thermal/acoustic insulation: double skin (25 mm glass wool)
- 100% factory tested

Equipment

- 2 refrigerant circuits for an optimised defrost logic, completely closed in a separate compartment to reduce noise level. Each circuit comprises of Scroll compressor(s) (2 per circuit from size 160), indoor and outdoor coils, filter dryer, sight glass, thermostatic or electronic expansion valve (from 160 to 190), high and low pressure switches, defrosting pressure switch, intake temperature sensor, and a liquid accumulation bottle (for sizes from 160 to 190)
- 2 or 4 Scroll compressors - 1 per circuit from 65 to 95 and 2 per circuit for 160 to 190 assembled together in tandem. Each compressor is equipped with a crankcase heater and mounted on rubber pads to eliminate noise and vibration transmissions. The motors are equipped with overload protection and have direct start-up. A phase sequence monitor is supplied as standard
- The controls are grouped and wired in the unit, factory tested and shipped READY TO USE. They are located in a sealed compartment that is isolated from the air flow. The electrical equipment is compliant with EC standards and EN60204-1
- The outdoor and indoor heat exchangers are made of seamless copper tubes mechanically expanded into aluminium fins. Outdoor coils are largely dimensioned to optimise performance and defrost cycles. They are also equipped with a protective grille to prevent shocks - Bluefin treatment applicable to reversible type
- The unit casing is of heavy duty galvanized steel, painted with a special anti-corrosion process (RAL 9001). The complete unit is covered with double skin panels to ensure perfect thermal insulation. For full unit access, all service panels are removable. Under the indoor heat exchanger, an extractable condensate drain pan allows hygienic cleaning
- The indoor fan(s) are plug type with EC motors; low pressure or high pressure according to the configuration selected by the customer.



Technical performance

Size		65	80	95	160	190
ECOi-RT C EC fan - cooling only		P-RTE0065CA	P-RTE0080CA	P-RTE0095CA	P-RTE0160CA	P-RTE0190CA
Cooling capacity ¹⁾	kW	62,80	79,00	89,27	164,98	197,06
Input power ¹⁾	kW	19,44	23,24	28,80	51,19	60,61
EER ¹⁾		3,23	3,40	3,10	3,22	3,25
P_{design} ^{2) 3)}	kW	62,81	79,00	95,10	164,98	197,06
SEER ^{2) 3)}		3,58	3,74	3,54	3,91	3,94
Energy efficiency class ^{2) 3)}	A+ to E	B	B	B	B	B
η_{s,c} ^{2) 3)}		140	147	139	154	154
Electrical data						
Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Maximum operating intensity	A	57,60	74,60	83,80	157,80	161,80
Start intensity (without soft starter)	A	175,00	184,60	225,80	266,80	303,80
Start intensity (with soft starter)	A	85,68	113,60	125,40	198,10	203,40
Refrigerant and compressors						
Number of refrigerant circuits		2	2	2	2	2
Compressors	Number / type	2 / Scroll	2 / Scroll	2 / Scroll	4 / Scroll	4 / Scroll
Mounting type		Single	Single	Single	Tandem	Tandem
Capacity steps	%	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 25 / 50 / 75 / 100	0 / 25 / 50 / 75 / 100
Crankcase heater	W	2 x 70	2 x 70	2 x 70	4 x 70	4 x 70
Indoor coil						
Coil type		Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows		3	4	3	4	6
Front surface	m ²	1,80	2,25	2,25	3,24	3,24
Indoor fan(s) - EC type						
Fan type		Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal
Number of fans		1	2	2	2	2
Air flow rate	Min. / Nominal / Max.	m ³ /h	9200 / 11500 / 13800	11440 / 14300 / 17160	14000 / 17500 / 21000	24000 / 28000 / 33600
Motor power	kW	5,7	5,8	7	13,5	13,5
Outdoor coil						
Coil type		Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows		2	3	2	2	3
Front surface	m ²	1,01	1,01	1,50	2,70	2,70
Outdoor fans						
Fan type		Axial	Axial	Axial	Axial	Axial
Number of fans		2	2	2	4	4
Diameter	mm	710	710	800	800	800
Air flow rate	Nominal	m ³ /h	13000	13000	20000	15500
Motor power	kW	0,94	0,94	1,65	0,84	0,84
Sound levels						
Sound power (lwo) - outside	dB(A)	83	80	85	91	92
Sound power (lwi) - in supply duct	dB(A)	94	89	90	91	92
Dimension and weight						
Dimension	Length total / floor	mm	3250 / 2895	3250 / 2895	3740 / 3295	5505 / 5050
	Width / Height	mm	2030 / 1800	2030 / 1800	2285 / 2110	2285 / 2110
Weight (without option)	kg	1155	1225	1470	2350	2555

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.

Accessories and options

Anti-vibration mounts
Clogged filter sensor (1 or 2 stages)
Container transportation compatibility
Compressor soft starter
EC or EC HP plug fan
Electric heaters
Epoxy treatment (indoor/outdoor coils)
Fan speed control
2-dampers configuration including free-cooling/free-heating functions
G4, G4+F7 or G4+F9 filters

Accessories supplied loose

P-372062	Kit adjustable roof curb S1R1 - 0/2 dampers with/without gas for sizes 65-80
P-575505	Kit adjustable roof curb S1R1 - 0/2 dampers with/without gas for size 95
P-575506	Kit adjustable roof curb S1R1 - 0/2 dampers without gas for sizes 160-190
P-374372	Kit adjustable roof curb S1R1 - 0/2 dampers with gas for sizes 160-190

Accessories and options

Gas heater
Hot water coil
Local and additional remote keyboard
Modbus / BACnet
Many aeraulic configurations (bottom, side, front, top)
RECO or TRECO energy recovery systems including 3-dampers and exhaust fan
FRECO energy recovery system
Room temperature sensor
Sensors (VOC, enthalpy, CO ₂)
Smoke detector

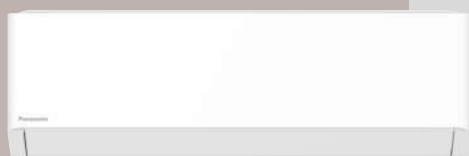
Accessories supplied loose

P- 372627	Kit adjustable roof curb S1R1 - 3 dampers with/without gas for sizes 65-80
P- 372628	Kit adjustable roof curb S1R1 - 3 dampers with/without gas for size 95
P- 372629	Kit adjustable roof curb S1R1 - 3 dampers without gas for sizes 160-190



ErP: ECOi-RT C 160/190 need to be equipped with EC fans to be ErP compliant. Eurovent certification from size 65 to 95.





Fan coil units

Panasonic offers you a complete range of fan coil units. Stylish, premium units for residential projects with a sophisticated, compact design and customizable, flexible units for commercial applications with a wide range of options and accessories available.

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Aquarea Air Smart fan coils

Stylish, compact fan coil units for high comfort and energy savings.



AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>



Aquarea Air Smart fan coils have a minimal visual impact and can be elegantly integrated into any home or office environment, adapting to any type of furniture.

Designed to provide both heating and cooling in one compact unit, they maximise energy savings when combined with an Aquarea Heat Pumps.



SLIM, SOPHISTICATED DESIGN WITH METAL CASING



SELF-MODULATING AIR FLOW (PI LOGIC) AND DC INVERTER FAN MOTOR



WIDE RANGE WITH MULTIPLE CONFIGURATION OPTIONS



ADVANCED CONTROL AND CONNECTIVITY OPTIONS

Aquarea Air Smart fan coil – Floor standing.

Even narrower and thinner fan coils.



Aquarea Air Smart fan coil – Wall-mounted.

The thinnest and most quietest in its class.



Aquarea Air Smart fan coil – Ducted / ducted multi zone.

Thin version with only 185 mm height.

Integrated multi zone management (2-5 zones, with the multi zone line-up).



Ducted



Ducted thin



Ducted multi zone



Ducted multi zone thin



Self-modulated air flow control by the unit.
The fan speed is no longer "stepped" but continuously modulated with proportional and integrative logic: this reduces both noise and annoying air movements.

Aquarea Home App

Download free app.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Panasonic Cloud Server is designed, operated and managed by Panasonic.

*The app screen is for illustration purposes only. The actual screen may differ.



Aquarea Home



Flex Air fan coils

Designed to meet all needs, they have a comprehensive range of options and accessories available and a wide range of technological controllers: individual, groups and centralized.



Additional benefits of Flex Air fan coils:

Energy savings and comfort.

- Low consumption solutions with high-efficiency fan motor
- High level of energy performance
- Quiet operation with optimized air flow and advanced acoustic design

Fully customizable.

- Many factory-mounted options
- Choice of service side for hydraulic and electrical connections

Wide technological range of controls.

- Individual controllers with intuitive user interface.
- Group controller to control multiple units with a single control
- Plogic + BMS and SRC centralized and group control of different climatic zones with different settings

Flex Air Smart fan coils

Panasonic water fan coil units integrated with nanoe™ X technology to improve protection 24/7 and compatible with PACi NX and VRF controls for seamless integration.



They are compatible with PACi NX and VRF controls for seamless integration.

Flex Air Smart fan coils are integrated with nanoe X Generator Mark 3.



DC FAN



QUIET OPERATION

nanoeX

nanoe™ X



**FLEXIBILITY OF
INSTALLATION AND
CUSTOMIZATION**



**COMPATIBILITY WITH
PACi NX/VRF CONTROLS**



SERVICE APP*

*CONEX control is required.

Greater flexibility in managing indoor climate.

Flex Air Smart fan coils offer a wide range of accessories and customizable options, ensuring optimal comfort and performance in any environment. Their compatibility with PACi NX and VRF individual controls, as well as group management systems, ensures centralized monitoring, making them the perfect choice for complex installations.

Improved indoor air quality with nanoe™ X.

Flex Air Smart fan coils are equipped with nanoe™ X for improved indoor air quality and higher level of performance. They come with nanoe X Generator Mark 3, the latest of the continuously evolving nanoe™ X technology with the benefits of hydroxyl radicals.



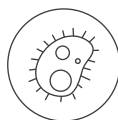
7 effects of nanoe™ X – Panasonic unique technology

Deodorises

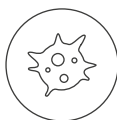


Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances



Skin and hair

Moisturises

*Refer to <https://aircon.panasonic.eu> for more details and validation data.

Smart controls: Compatible with CONEX Series.

CONEX. Devices and apps.

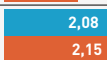
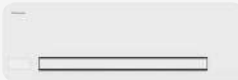
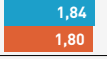
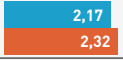
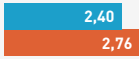
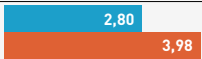
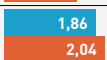
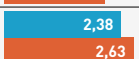
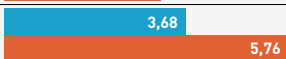
CONEX provides comfort and control for varying user needs. Accessible, flexible, and scalable with different controllers and apps. Perfectly meeting requirements of modern controls for end user, installer, and service.



Comfort Cloud



Quick selection guide - Aquarea Air Smart fan coils

Page	Size	Cooling and heating capacity ^{1) 2) 3)} (kW)	Air flow - Max (m³/h)	Pressure (Pa)	Fan	Dimension H x W x D (mm)
P. 66 	Fan coil floor standing 10		146	10	DC	580 x 680 x 119
	20		294	10	DC	580 x 880 x 119
	30		438	13	DC	580 x 1080 x 119
	35		567	13	DC	580 x 1280 x 119
	40		663	13	DC	580 x 1480 x 119
P. 26 	Fan coil wall-mounted 10		228	—	DC	335 x 815 x 128
	15		331	—	DC	335 x 1015 x 128
	20		440	—	DC	335 x 1215 x 128
	40		788	—	DC	335 x 1215 x 215
P. 18 	Fan coil ducted thin 15		290	100	DC	185 x 590 x 575
	20		390	90	DC	185 x 790 x 575
	25		550	120	DC	185 x 990 x 575
	35		680	110	DC	185 x 1190 x 575
	45		870	140	DC	185 x 1440 x 575
P. 18 	Fan coil ducted 20		390	90	DC	240 x 590 x 695
	25		560	130	DC	240 x 790 x 695
	35		730	110	DC	240 x 990 x 695
	45		905	140	DC	240 x 1190 x 695
	55		1150	140	DC	240 x 1440 x 695
P. 19 	Fan coil ducted multi zone thin 30		480	100	DC	185 x 790 x 575
	45		720	100	DC	185 x 990 x 575
	60		960	100	DC	185 x 1190 x 575
	65		1200	100	DC	185 x 1440 x 575
P. 19 	Fan coil ducted multi zone 30		810	100	DC	240 x 790 x 695
	45		1215	100	DC	240 x 990 x 695
	60		1620	100	DC	240 x 1190 x 695
	75		2025	100	DC	240 x 1440 x 695

1) Data for medium fan speed. Fan standard factory set speeds. 2) Cooling capacity: According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Heating capacity: According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.

*The Aquarea Air range aligns with the Aquarea commercial policy.

Quick selection guide – Flex Air Smart fan coils

Page	Size	Cooling and heating capacity ¹⁾ (kW)	Air flow (m³/h)	Pressure (Pa)	Fan	Dimension H x W x D (mm)
Fan coil wall-mounted P. <?> 	19		345	—	DC	295 x 890 x 244
	24		416	—	DC	295 x 890 x 244
	27		480	—	DC	295 x 890 x 244
	36		710	—	DC	295 x 890 x 244
	45		753	—	DC	295 x 1060 x 249
	52		879	—	DC	295 x 1060 x 249
NEW! Fan coil medium static duct P. 95 	23		590	120	DC	250 x 800 x 730
	28		680	120	DC	250 x 800 x 730
	40		576	120	DC	250 x 800 x 730
	50		980	120	DC	250 x 1000 x 730
	70		1230	120	DC	250 x 1000 x 730
	80		1180	120	DC	250 x 1400 x 730
	93		1500	120	DC	250 x 1400 x 730

Quick selection guide – Flex Air fan coils

Page	Size	Cooling and heating capacity ¹⁾ (kW)	Air flow ¹⁾ (m³/h)	Pressure (Pa)	Fan	Dimension ²⁾ H x W x D (mm)
Fan coil comfort P. 88 	10		417	—	AC/EC	477 x 766 x 225
	20		413	—	AC/EC	477 x 766 x 225
	30		345	—	AC/EC	477 x 951 x 225
	40		678	—	AC/EC	477 x 1136 x 225
	50		816	—	AC/EC	477 x 1321 x 225
	60		912	—	AC/EC	477 x 1506 x 225
	70		1050	—	AC/EC	575 x 1319 x 225
	80		1063	—	EC	575 x 1506 x 225
Fan coil cassette P. <?> 	20		659	—	AC/EC	341 x 595 x 595
	30		734	—	AC/EC	341 x 595 x 595
	40		900	—	AC/EC	341 x 595 x 595
	50		979	—	AC/EC	358 x 849 x 849
	60		1159	—	AC/EC	358 x 849 x 849
	70		1598	—	AC/EC	358 x 849 x 849
	70		1598	—	AC/EC	358 x 849 x 849
Fan coil wall-mounted P. <?> 	7		360	—	AC	275 x 845 x 180
	9		551	—	AC	275 x 845 x 180
	18		680	—	AC	298 x 940 x 200
	22		850	—	AC	298 x 940 x 200
Fan coil duct P. 92 	10		357	0-70	EC	223 x 633 x 631
	15		491	0-90	EC	223 x 733 x 631
	20		599	0-90	EC	223 x 833 x 631
	25		642	0-90	EC	223 x 933 x 631
	30		1068	0-90	EC	223 x 933 x 631
	40		1293	0-90	EC	223 x 1233 x 653
	40		1293	0-90	EC	223 x 1233 x 653
Fan coil high static duct P. 96 	7		1125	0-110	AC/EC	250 x 1200 x 698
	15		2830	0-200	AC/EC	375 x 1380 x 798
	18		2830	0-200	AC/EC	375 x 1380 x 798
	21		2830	0-200	AC/EC	375 x 1380 x 798
	24		3736	0-220	AC/EC	450 x 1500 x 798
	27		3736	0-220	AC/EC	450 x 1500 x 798
	27		3736	0-220	AC/EC	450 x 1500 x 798

1) Data for fan coil comfort, cassette and duct EC/DC fan 2-pipe version. Data for fan coil high static duct AC fan / 2-pipe version. 2) Fan coil comfort: with cabinet / without feet / vertical installation. Fan coil cassette: casing + IRYs COANDA 360 diffuser. Fan coil duct and high static duct: horizontal installation / configuration: rectangular return and discharge.

Aquarea Air Smart fan coil – Floor standing

Slim chassis profile, only 129 mm / RAL 9003 / DC Inverter – maximising comfort and energy savings / Modulated air flow.

Possible configurations: Left or right water connections / 2 or 3 way valves as accessories / On-board or wall mounted control or PCB for analog input (0-10 V)



Optional



Model (the complete model codes are shown in the table below)		P-FAL10	P-FAL20	P-FAL30	P-FAL35	P-FAL40
Fan speed ¹⁾		Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
Total cooling capacity ²⁾	kW	0,43/0,73/0,91	0,75/1,36/2,12	1,15/2,08/2,81	1,32/2,39/3,30	1,36/2,57/3,71
Sensible capacity ²⁾	kW	0,29/0,51/0,71	0,59/1,04/1,54	0,83/1,51/2,11	1,02/1,84/2,65	1,05/1,98/2,90
Water flow ²⁾	l/h	73,67/125,07/155,91	128,50/233,01/363,22	197,03/356,36/481,43	226,15/409,48/565,39	—
Water pressure drop ²⁾³⁾	kPa	5,7/10,2/12,1	1,9/4,3/8,2	2,7/9,9/17,1	2,5/8,8/18,0	—
Heating capacity ⁴⁾	kW	0,37/0,69/1,00	0,82/1,50/2,19	1,19/2,15/2,99	1,45/2,56/3,73	1,47/2,78/4,23
Water flow ⁴⁾	l/h	65,11/120,91/179,87	144,60/269,80/389,71	211,61/380,89/532,55	259,22/456,72/671,86	—
Water pressure drop ³⁾⁴⁾	kPa	2,6/6,8/9,1	1,5/4,3/9,2	2,7/9,3/19,1	3,0/8,9/21,2	—
Sound levels						
Sound power	dB(A)	37/47/54	37/47/54	37/47/57	37/47/55	37/48/58
Sound pressure ⁵⁾	dB(A)	24/33/41	25/34/42	26/34/44	26/35/46	28/38/47
Ventilation						
Number of fans		1	1	1	1	1
Air flow	m³/h	49/91/146	124/210/294	194/318/438	302/410/567	364/479/663
Maximum static pressure	Pa	10	10	13	13	13
Electrical data						
Power supply	V / Phase / Hz	V	230/1/50	230/1/50	230/1/50	230/1/50
Consumption	W	7,0/9,0/13,0	14,0/18,0/22,0	16,0/20,0/24,0	18,0/22,0/26,5	—
Water connections						
Hydraulic connections type		Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections	Inch	¾	¾	¾	¾	¾
Dimension and weight						
Dimension / Weight	H x W x D	mm / kg	579 x 680 x 129/17	579 x 880 x 129/20	579 x 1080 x 129/23	579 x 1280 x 129/26
						579 x 1480 x 129/29

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A).

Option 1. Standard configurations with built-in accessories

Fan coil with on-board display

Left-hand piping, vertical installation, built-in 3 way valve

P-FAL10SC-HLE

P-FAL20SC-HLE

P-FAL30SC-HLE

P-FAL35SC-HLE

P-FAL40SC-HLE

Fan coil with wall-mounted control

Left-hand piping, vertical installation, built-in 3 way valve

P-FAL10SC-RLE

P-FAL20SC-RLE

P-FAL30SC-RLE

P-FAL35SC-RLE

P-FAL40SC-RLE

Control (required, to be ordered separately)	With Modbus	PCZ-EEB749
	With integrated Wi-Fi	PCZ-EFB749

Option 2. Configure your own Aquarea Air Smart fan coil – Floor standing unit

Left-hand piping	Right-hand piping
------------------	-------------------

P-FAL10SC-00E

P-FAL10DC-00E

P-FAL20SC-00E

P-FAL20DC-00E

P-FAL30SC-00E

P-FAL30DC-00E

P-FAL35SC-00E

P-FAL35DC-00E

P-FAL40SC-00E

P-FAL40DC-00E

Control options (required)	On-board display	With Modbus	PCZ-ECA844
		With integrated Wi-Fi	PCZ-EWA844
	Wall-mounted control	With Modbus	PCZ-ESE845 + PCZ-EEB749
		With integrated Wi-Fi	PCZ-ESE845 + PCZ-EFB749
	PCB for analog control (0-10 V)		PCZ-B10842
Valve kits (optional)	3 way valve with motor		PCZ-V30720
	2 way valve with motor		PCZ-V20139
Condensate drip tray for horizontal installation (optional)	For P-FAL10		PCZ-GB0520
	For P-FAL20		PCZ-GB0521
	For P-FAL30		PCZ-GB0522
	For P-FAL35		PCZ-GB0523
	For P-FAL40		PCZ-GB0524

Accessories and options

PCZ-LC0158 Set of 2 legs to protect water pipes

Accessories and options

PCZ-LC0606 Set of 2 legs to anchor the unit to the floor

Control options.

On-board display with Modbus or integrated Wi-Fi.



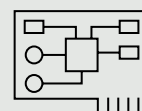
Wall-mounted control with Modbus or integrated Wi-Fi.

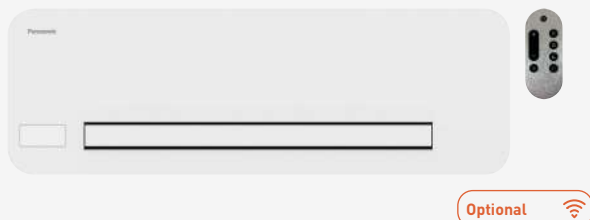
PCZ-EEB749 /
PCZ-EFB749



PCB for analog control (0-10 V).

PCZ-B10842





Aquarea Air Smart fan coil – Wall-mounted

Slim chassis profile, only 128 mm / RAL 9003 / DC Inverter – maximising comfort and energy savings / Modulated air flow.

Possible configurations: Left or right water connections / 2 or 3 way valves as accessories / On-board or wall mounted control or PCB for analog input (0-10 V)

Model [the complete model codes are shown in the table below]			P-FMM10	P-FMM15	P-FMM20	P-FMM40
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
Total cooling capacity ²⁾	kW		0,49/0,88/1,24	0,62/1,08/1,61	0,70/1,21/1,94	1,32/2,66/3,94
Sensible capacity ²⁾	kW		0,37/0,70/0,98	0,52/0,86/1,27	0,57/1,02/1,52	1,08/2,05/2,92
Water flow ²⁾	l/h		84,00/150,80/212,40	106,20/185,00/275,80	119,90/207,30/332,40	226,40/455,30/674,30
Water pressure drop ²⁾	kPa		4,8/10,5/11,7	4,7/5,6/5,1	5,5/5,4/5,3	1,8/6,0/12,1
Heating capacity ³⁾	kW		0,54/0,98/1,45	0,76/1,30/1,93	0,78/1,49/2,28	1,63/3,04/4,44
Water flow ³⁾	l/h		97,00/176,30/264,50	139,30/239,80/354,40	141,10/273,30/414,40	296,40/547,00/800,90
Water pressure drop ³⁾	kPa		5,1/12,0/16,3	4,8/6,3/7,2	6,0/6,4/8,1	2,3/6,9/14,1
Sound levels						
Sound power	dB(A)		35/46/53	36/47/54	37/48/58	38/48/62
Sound pressure ⁴⁾	dB(A)		25/33/40	25/34/41	26/34/42	27/37/51
Ventilation						
Air flow	m ³ /h		84/155/228	124/229/331	138/283/440	230/480/788
Electrical data						
Power supply	V / Phase / Hz	V	230/1/50	230/1/50	230/1/50	230/1/50
Consumption		W	5/8/19	5/9/20	5/11/29	8/23/30
Water connections						
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections	Inch		3/4	3/4	3/4	3/4
Dimension and weight						
Dimension / Weight	HxWxD	mm / kg	335x815x128/14	335x1015x128/16	335x1215x128/19	335x1215x215/24

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A).

Option 1. Standard configurations with built-in accessories

Fan coil with on-board display and wireless IR control

Right-hand piping, built-in 3 way valve

P-FMM10DC-QNE

P-FMM15DC-QNE

P-FMM20DC-QNE

P-FMM40DC-QNE

Fan coil with wall-mounted control

Right-hand piping, built-in 3 way valve

P-FMM10DC-RNE

P-FMM15DC-RNE

P-FMM20DC-RNE

P-FMM40DC-RNE

Control (required, to be ordered separately)	With Modbus	PCZ-EEB749
	With integrated Wi-Fi	PCZ-EFB749

Option 2. Configure your own Aquarea Air Smart fan coil – Wall-mounted unit

Fan coil with on-board display and wireless IR control

Left-hand piping

Right-hand piping

P-FMM10SC-Q0E

P-FMM10DC-Q0E

P-FMM15SC-Q0E

P-FMM15DC-Q0E

P-FMM20SC-Q0E

P-FMM20DC-Q0E

—

P-FMM40DC-Q0E

Fan coil with wall-mounted control

Left-hand piping

Right-hand piping

P-FMM10SC-R0E

P-FMM10DC-R0E

P-FMM15SC-R0E

P-FMM15DC-R0E

P-FMM20SC-R0E

P-FMM20DC-R0E

—

P-FMM40DC-R0E

Control (required, to be ordered separately)	With Modbus	PCZ-EEB749
	With integrated Wi-Fi	PCZ-EFB749

Fan coil with PCB for analog control (0-10 V)

Left-hand piping

Right-hand piping

P-FMM10SC-V0E

P-FMM10DC-V0E

P-FMM15SC-V0E

P-FMM15DC-V0E

P-FMM20SC-V0E

P-FMM20DC-V0E

—

P-FMM40DC-V0E

Valve kits (optional)

PCZ-V30688 3 way valve with motor for models 10, 15, 20

PCZ-V30718 3 way valve with motor for model 40

Valve kits (optional)

PCZ-V20687 2 way valve with motor for models 10, 15, 20

PCZ-V20139 2 way valve with motor for model 40

Control options.

On-board display with Modbus.

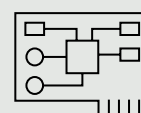


Wall-mounted control with Modbus or integrated Wi-Fi.

PCZ-EEB749 /
PCZ-EFB749



PCB for analog control (0-10 V).



Aquarea Air Smart fan coil – Ducted thin / ducted**Fan coil ducted units with cooling and heating.****Cooling capacity: 0,7 to 5,3 kW.****Heating capacity: 0,7 to 5,8 kW.**Optional 

Optional controller.
Wall-mounted control
with Modbus.
PCZ-EEB749



Optional controller.
Wall-mounted control
with integrated Wi-Fi.
PCZ-EFB749



Optional controller.
PCB for analog control
(0-10 V).

CHECK PAGE <?> FOR A WIDER SELECTION OF ACCESSORIES**The range at a glance**

- Slim profile, only 185 mm for the thin version
- DC Inverter – maximising comfort and energy savings
- Modulated air flow
- Quiet operation
- Centrifugal fan with single motor impeller
- Vertical or horizontal installation

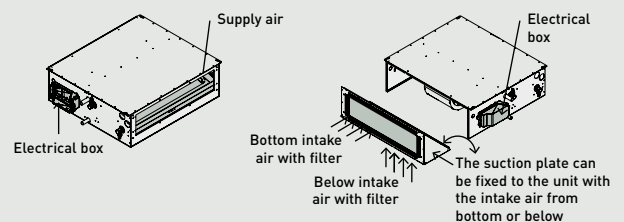
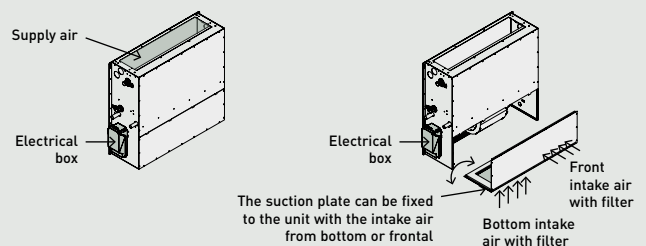
Possible configurations

- Left or right water connections
- 2 or 3 way valves as accessories
- Wall-mounted control or PCB for analog input (0-10 V)

High-efficiency ducted fan coil for high comfort and quiet operation thanks to self modulating air flow control.

Ducted thin, designed to fit any space

With a height of only 185 mm, the thin version is even more versatile than the classic version and fits perfectly into any wall or false ceiling with either horizontal or vertical installation.

Ducted thin**High installation flexibility.****Horizontal installation.****Vertical installation.**

Technical performance

			Ducted thin					Ducted				
Model (the complete model codes are shown in the table below)			P-FTN15	P-FTN20	P-FTN25	P-FTN35	P-FTN45	P-FSN20	P-FSN25	P-FSN35	P-FSN45	P-FSN55
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
Total cooling capacity ²⁾	kW		0,66/1,14 /1,40	1,01/1,84 /2,10	1,23/2,17 /2,60	1,47/2,40 /3,30	1,72/2,80 /4,45	0,82/1,37 /1,88	1,27/1,86 /2,14	1,53/2,38 /2,97	1,81/3,22 /3,48	1,82/3,97 /5,31
Sensible capacity ²⁾	kW		0,46/0,84 /1,05	0,70/1,27 /1,50	0,88/1,56 /2,10	1,06/1,77 /2,45	1,23/2,33 /3,20	0,61/0,96 /1,48	0,93/1,43 /1,56	1,17/1,98 /2,92	1,33/2,58 /2,95	1,33/2,75 /3,65
Water flow ²⁾	l/h		113/195 /270	173/315 /405	211/373 /510	251/412 /610	295/481 /805	141/235 /322	218/319 /367	262/408 /509	310/552 /596	312/680 /910
Water pressure drop ^{2) 3)}	kPa		1,0/3,0 /5,0	2,0/5,0 /8,0	4,0/10,0 /17,0	2,0/5,0 /11,0	2,0/6,0 /14,0	9,2/11,8 /15,7	9,9/14,9 /19,4	2,4/2,8 /2,9	9,0/12,6 /14,6	4,1/16,1 /27,2
Heating capacity ⁴⁾	kW		0,68/1,32 /1,65	1,01/1,80 /2,10	1,32/2,32 /2,86	1,63/2,76 /3,71	1,89/3,98 /5,20	0,9/1,48 /1,98	1,36/2,04 /2,54	1,81/2,63 /3,45	1,96/3,77 /4,46	1,95/4,23 /5,73
Water flow ⁴⁾	l/h		115/222 /310	170/303 /440	235/410 /540	288/486 /730	329/692 /880	159/261 /349	239/360 /448	319/464 /608	346/665 /787	347/754 /1025
Water pressure drop ^{3) 4)}	kPa		1,0/3,0 /6,0	2,0/5,0 /9,0	4,0/11,0 /18,0	2,0/6,0 /13,0	3,0/10,0 /15,0	51/12,0 /16,3	10,3/15,6 /21,5	2,6/2,8 /2,9	9,2/15,6 /18,4	4,0/16,4 /29,3
Sound levels												
Sound power	dB(A)		42/47/53	44/51/58	45/52/58	46/54/60	47/54/61	46/54/58	46/54/58	46/54/57	47/55/58	48/55/60
Ventilation												
Number of fans			1	1	2	2	3	1	1	2	2	3
Air flow	m³/h		90/200/290	140/290/390	190/390/550	230/450/680	250/610/870	120/260/390	180/350/560	240/440/730	260/550/905	280/750/1150
Maximum static pressure	Pa		100	90	120	110	140	90	130	110	140	140
Electrical data												
Power supply	Voltage	V	230	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	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
Consumption	W		14/32/80	22/55/140	26/65/160	33/80/160	38/115/230	6/11/24	7/14/31	8/16/34	13/30/38	14/42/85
Degree of protection	IP		X0	X0	X0	X0	X0	X0	X0	X0	X0	X0
Connections												
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections	Inch		¾	¾	¾	¾	¾	¾	¾	¾	¾	¾
Condensate drainage connection	mm		20	20	20	20	20	20	20	20	20	20
Intake air connection	Base x Height	mm	460 x 100	660 x 100	860 x 100	1060 x 100	1320 x 100	460 x 150	660 x 150	860 x 150	1060 x 150	1320 x 150
Return air connection	Base x Height	mm	510 x 100	710 x 100	910 x 100	1110 x 100	1370 x 100	510 x 150	710 x 150	910 x 150	1110 x 150	1370 x 150
Dimension and weight												
Dimension	H x W x D	mm	185 x 590 x 575	185 x 790 x 575	185 x 990 x 575	185 x 1190 x 575	185 x 1440 x 575	240 x 590 x 695	240 x 790 x 695	240 x 990 x 695	240 x 1190 x 695	240 x 1440 x 695
Weight	kg		30	41	45	54	65	32	43	47	56	67

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.

Configure your own Aquarea Air Smart fan coil – Ducted thin / ducted unit

Fan coil with wall-mounted control		
Left-hand piping	Right-hand piping	
P-FTN15005-RE	P-FTN15R05-RE	
P-FTN20005-RE	P-FTN20R05-RE	
P-FTN25005-RE	P-FTN25R05-RE	
P-FTN35005-RE	P-FTN35R05-RE	
P-FTN45005-RE	P-FTN45R05-RE	
P-FSN20005-RE	P-FSN20R05-RE	
P-FSN25005-RE	P-FSN25R05-RE	
P-FSN35005-RE	P-FSN35R05-RE	
P-FSN45005-RE	P-FSN45R05-RE	
P-FSN55005-RE	P-FSN55R05-RE	
Control (required, to be ordered separately)	With Modbus	PCZ-EEB749
	With integrated Wi-Fi	PCZ-EFB749

Fan coil with PCB for analog control (0-10 V)		
Left-hand piping	Right-hand piping	
P-FTN15005-JE	P-FTN15R05-JE	
P-FTN20005-JE	P-FTN20R05-JE	
P-FTN25005-JE	P-FTN25R05-JE	
P-FTN35005-JE	P-FTN35R05-JE	
P-FTN45005-JE	P-FTN45R05-JE	
P-FSN20005-JE	P-FSN20R05-JE	
P-FSN25005-JE	P-FSN25R05-JE	
P-FSN35005-JE	P-FSN35R05-JE	
P-FSN45005-JE	P-FSN45R05-JE	
P-FSN55005-JE	P-FSN55R05-JE	

Valve kits (optional)	
PCZ-V30361	3 way valve with motor

Valve kits (optional)	
PCZ-V20139	2 way valve with motor

Aquarea Air Smart fan coil – Ducted multi zone thin / ducted multi zone

Fan coil ducted units with cooling and heating.

Cooling capacity: 0,5 to 7,6 kW.

Heating capacity: 0,5 to 8,52 kW.



Optional 



Optional controller.
Wall-mounted control
with Modbus.
PCZ-EEB749



Optional controller.
Wall-mounted control
with integrated Wi-Fi.
PCZ-EFB749



Optional controller.
PCB for analog control
(0-10 V).

CHECK PAGE <?> FOR A WIDER SELECTION OF ACCESSORIES



The range at a glance

- Multi zone management (2-5 zones)
- Slim profile, only 185 mm for the thin version
- DC Inverter – maximising comfort and energy savings
- Modulated air flow
- Quiet operation
- Centrifugal fan with single motor impeller

Possible configurations

- Left or right water connections
- 2 or 3 way valves as accessories
- Wall-mounted control or PCB for analog input (0-10 V)

The ducted Smart fan coil unit with integrated multi zone management.

High installation flexibility.

Single air outlet per zone.

Multiple air outlets per zone.



Example:
3 air outlets for 3 independent zones.



Example:
3 air outlets for 2 independent zones.
Zone 1 with dual channel.
Zone 2 with single channel.

Multi zone management

Thanks to integrated multi zone management and the use of forward-bladed centrifugal brushless EC multi-fans, the fan coil ducted multi zone allow independent management of the different thermal zones, resulting in benefits in terms of efficiency, comfort and quietness.



1 | Air supply plate.

Built-in air supply plate, number of outlets depending on unit size.

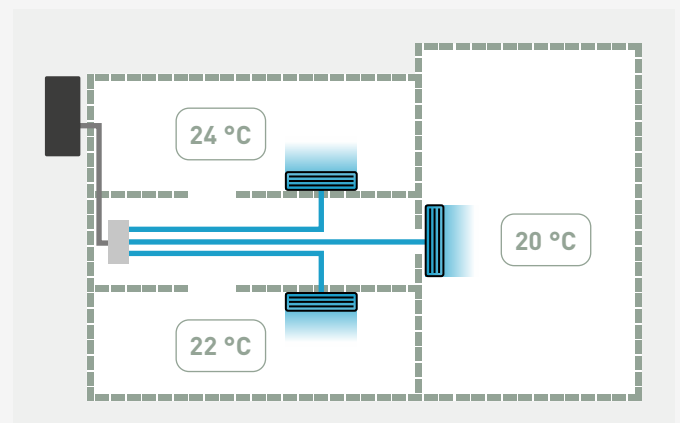
- P-FTQ30/P-FSQ30: 2 outlets DN 160 mm
- P-FTQ45/P-FSQ45: 3 outlets DN 160 mm
- P-FTQ60/P-FSQ60: 4 outlets DN 160 mm
- P-FTQ65/P-FSQ75: 5 outlets DN 160 mm

2 | Fans.

Integrated multi-fans for independent management of the different zones.

3 | Horizontal condensate tray.

Allows the collection of condensate if the unit is installed horizontally.



Technical performance

Ducted multi zone thin			Ducted multi zone						
Model (the complete model codes are shown in the table below)		P-FTQ30	P-FTQ45	P-FTQ60	P-FTQ65	P-FSQ30	P-FSQ45	P-FSQ60	P-FSQ75
Fan speed ¹⁾		Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
Total cooling capacity ²⁾	kW	1,10/1,97 /3,02	1,16/2,97 /4,40	2,02/3,68 /5,70	2,09/4,15 /6,40	0,47/3,80 /3,23	0,66/3,77 /4,57	0,85/4,87 /5,88	1,06/6,31 /7,61
Sensible capacity ²⁾	kW	0,76 /1,37 /2,15	0,79/2,09 /3,16	1,45/2,67 /4,10	1,61/3,08 /4,60	0,33/2,70 /2,22	0,48/2,62 /3,16	0,63/3,40 /4,10	0,78/4,32 /5,20
Single zone cooling capacity ²⁾	kW	0,49/1,30 /1,70	0,49/1,30 /1,70	0,49/1,30 /1,70	0,49/1,30 /1,70	— /— /2,10	— /— /2,10	— /— /2,10	— /— /2,10
Single zone sensible capacity ²⁾	kW	0,31/0,89 /1,23	0,31/0,89 /1,23	0,31/0,89 /1,23	0,31/0,89 /1,23	— /— /1,50	— /— /1,50	— /— /1,50	— /— /1,50
Water flow ²⁾	l/h	190/338 /530	200/510 /800	346/630 /1030	358/713 /1220	80/651 /553	113/647 /782	146/834 /1008	182,3/1081 /1304
Water pressure drop ^{2) 3)}	kPa	4,0/11,0/22,0	2,0/9,0/18,0	3,0/9,0/18,0	1,0/4,0/9,0	1,8/29,0/54,1	1,2/25,7/36,4	1,0/20,2/28,5	1,6/37,3/52,6
Heating capacity ⁴⁾	kW	1,15/2,11 /3,30	1,71/3,19 /4,90	-/5,76/6,30	2,67/4,75 /7,65	0,45/3,90 /3,61	0,68/4,16 /5,08	0,90/5,42 /6,59	1,13/6,87 /8,37
Single zone heating capacity ⁴⁾	kW	0,42/1,29 /1,85	0,42/1,29 /1,85	0,42/1,29 /1,85	0,42/1,29 /1,85	— /— /2,20	— /— /2,20	— /— /2,20	— /— /2,20
Water flow ⁴⁾	l/h	200/368 /560	296/554 /800	391/699 /1110	464/826 /1305	80/688 /636	120/748 /914	159/975 /1189	199/1230 /1502
Water pressure drop ^{3) 4)}	kPa	4,0/13,0/25,0	3,0/10,0/19,0	3,0/10,0/18,0	2,0/5,0/10,0	1,4/29,0/61,2	1,1/28,9/42,3	0,9/23,1/33,7	1,5/41,4/60,6
Sound levels									
Sound power	dB(A)	40/49/58	42/50/59	42/52/61	43/53/62	— /— /60	— /— /61	— /— /62	— /— /64
Ventilation									
Number of fans		2	3	4	5	2	3	4	5
Air flow	m³/h	145/290 /480	215/435 /720	288/576 /960	360/720 /1200	60/600 /810	90/900 /1215	120/1200 /1620	150/1500 /2025
Single zone air flow	m³/h	50/160/240	50/160/240	50/160/240	50/160/240	60/205/300	60/205/300	60/205/300	60/205/300
Maximum static pressure	Pa	100	100	100	100	100	100	100	100
Electrical data									
Power supply	Voltage	V	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50
Consumption	W	31/66/130	45/102/195	61/135/260	76/162/325	53/140/178	159/420/534	212/560/712	265/700/890
Degree of protection	IP	X0	X0	X0	X0	X0	X0	X0	X0
Connections									
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections	Inch		¾	¾	¾	¾	¾	¾	¾
Condensate drainage connection	mm		20	20	20	20	20	20	20
Intake air connection	mm		160	160	160	160	160	160	160
Return air connection	Base x Height	mm	630 x 100	830 x 100	1030 x 100	1320 x 100	630 x 150	830 x 150	1030 x 150
Dimension and weight									
Dimension	H x W x D	mm	185 x 790 x 575	185 x 990 x 575	185 x 1190 x 575	185 x 1440 x 575	240 x 790 x 695	240 x 990 x 695	240 x 1190 x 695
Weight	kg		41	45	54	56	43	47	56

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.

Configure your own Aquarea Air Smart fan coil – Ducted multi zone thin / ducted multi zone unit

Fan coil with wall-mounted control		
Left-hand piping	Right-hand piping	
P-FTQ30005-RE	P-FTQ30R05-RE	
P-FTQ45005-RE	P-FTQ45R05-RE	
P-FTQ60005-RE	P-FTQ60R05-RE	
P-FTQ65005-RE	P-FTQ65R05-RE	
P-FSQ30005-RE	P-FSQ30R05-RE	
P-FSQ45005-RE	P-FSQ45R05-RE	
P-FSQ60005-RE	P-FSQ60R05-RE	
P-FSQ75005-RE	P-FSQ75R05-RE	
Control (required, to be ordered separately)	With Modbus	PCZ-EEB749
	With integrated Wi-Fi	PCZ-EFB749

Fan coil with PCB for analog control (0-10 V)		
Left-hand piping	Right-hand piping	
P-FTQ30005-JE	P-FTQ30R05-JE	
P-FTQ45005-JE	P-FTQ45R05-JE	
P-FTQ60005-JE	P-FTQ60R05-JE	
P-FTQ65005-JE	P-FTQ65R05-JE	
P-FSQ30005-JE	P-FSQ30R05-JE	
P-FSQ45005-JE	P-FSQ45R05-JE	
P-FSQ60005-JE	P-FSQ60R05-JE	
P-FSQ75005-JE	P-FSQ75R05-JE	

Valve kits (optional)	
PCZ-V30361	3 way valve with motor

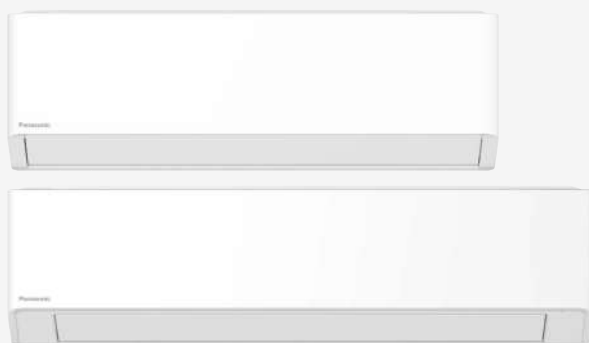
Valve kits (optional)	
PCZ-V20139	2 way valve with motor

Flex Air Smart fan coil – Wall-mounted DC fan – FK1

Fan coil wall units with new stylish design and nanoe™ X (Mark 3).

Cooling capacity: 1,9 to 5,2 kW.

Heating capacity: 2,2 to 5,3 kW.



Optional



Optional controller. CONEX Series, white or black.
CZ-RTC6W/BL/BLW2 or CZ-RTC6/BL/BLW2



Optional controller. Wired remote controller with Econavi function.
CZ-RTC5B



Optional controller. Infrared remote controller for wall-mounted.
CZ-RWS3



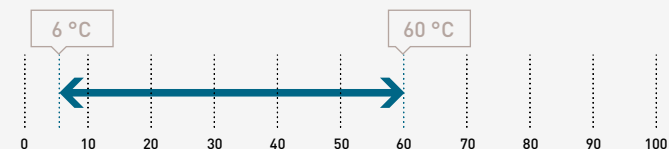
Optional controller. Wired remote controller.
PAW-FC-903EC

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

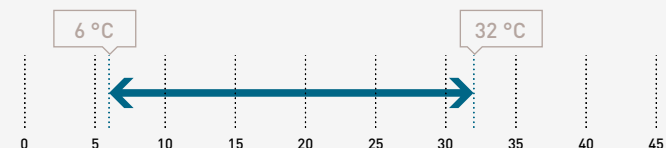


Operating Limits

Entering water temperature (without glycol).



Indoor air temperature.



Maximum operating pressure: 10 bar.

The range at a glance

- Versions (2-pipes): with and without 3 way valve
- 6 sizes
- DC fan for better efficiency and control
- Air flow from 360 to 1045 m³/h
- nanoe™ X technology to improve protection 24/7
- G1 cleanable air filter
- S-Link available - compatible with Panasonic controllers

Advantages

- Ideal for commercial and residential applications in combination with Aquarea Heat Pumps
- Modern stylish design with flat face and compact size
- Inner and outer motorized louvers with five-step positions
- Six directional piping outlet to adapt to different installations
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Quieter operation than AC fan models
- Very easy servicing through a removable front panel
- Cleanable synthetic-type air filter
- Compatibility with a wide range of controllers

Accessories supplied loose

CZ-RWS3 – infrared remote controller
CZ-RTC5B – wired remote controller with Econavi function
CZ-RTC6W – CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL – CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6 – CONEX wired remote controller (non-wireless), black
CZ-RTC6BL – CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-CENSC1 – Econavi energy saving sensor
PAW-FC-903EC – wired remote controller
CZ-64ESMC3 – system controller for 64 indoor units
CZ-256ESMC3 – centralised controls up to 256 indoor units
CZ-ANC3 – central ON / OFF controller, up to 16 groups, 64 indoor units

Technical performance

Flex Air Smart fan coil – Wall-mounted DC fan - FK1		Standard model	S-19FK1E0	S-24FK1E0	S-27FK1E0	S-36FK1E0	S-45FK1E0	S-52FK1E0
		With 3 way valve	S-19FK1E	S-24FK1E	S-27FK1E	S-36FK1E	S-45FK1E	S-52FK1E
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
2-pipes								
Total cooling capacity ²⁾	kW		1,40/1,65/1,90	1,92/2,17/2,41	2,02/2,51/2,73	2,65/3,11/3,61	3,02/3,78/4,50	4,03/4,63/5,23
Sensible capacity ²⁾	kW		1,10/1,35/1,54	1,50/1,71/1,91	1,59/2,00/2,19	2,12/2,52/2,98	2,25/2,84/3,41	3,04/3,51/4,02
Water flow ²⁾	l/h		250/295/342	344/389/432	362/449/489	473/556/648	539/680/809	724/830/908
Water pressure drop (coil only)	kPa		4/6/8	8/11/13	9/14/17	16/22/30	19/30/42	34/44/56
Water pressure drop (with 3 way valve) ²⁾	kPa		18/23/29	25/29/36	26/39/44	42/57/74	53/80/110	90/112/142
Air flow ²⁾	m ³ /h		230/276/345	324/361/416	343/434/480	462/572/710	488/603/753	637/753/879
Input power ²⁾	W		10/11/12	12/12/14	12/14/16	15/19/26	13/17/22	18/23/29
Sound pressure Lp ^{2) 3)}	dB(A)		27	26	29	39	35	40
Sound power Lw ²⁾	dB(A)		40	39	42	49	47	52
Heating capacity ⁴⁾	kW		1,59/1,92/2,23	1,97/2,39/2,72	2,18/2,64/3,01	2,89/3,48/4,03	3,09/4,21/5,13	4,03/4,72/5,33
Water flow ⁴⁾	l/h		281/329/381	339/417/481	379/463/533	508/614/715	544/740/898	710/827/931
Water pressure drop (coil only)	kPa		5/8/10	8/12/16	10/15/20	18/27/36	19/36/52	33/44/56
Water pressure drop (with 3 way valve) ⁴⁾	kPa		18/24/30	23/31/39	25/36/47	42/60/72	46/82/118	74/97/128
Air flow ⁴⁾	m ³ /h		253/314/406	343/425/489	379/471/545	517/646/765	511/730/925	672/810/960
Input power ⁴⁾	W		10/12/13	12/14/15	13/15/17	16/21/28	14/21/32	19/26/35
Sound pressure Lp ^{3) 4)}	dB(A)		24/27/29	22/26/29	23/28/32	30/36/41	28/36/42	34/39/43
Sound power Lw ⁴⁾	dB(A)		37/40/43	37/39/42	38/42/45	44/49/55	42/47/51	48/52/56
Water connections								
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
		Inch	1/2	1/2	1/2	1/2	1/2	1/2
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Dimension and weight								
Dimension	H x W x D	mm	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 1060 x 249	295 x 1060 x 249
Weight		kg	12	13	13	13	14	14

Energy efficiency class ⁵⁾

Flex Air Smart fan coil – Wall-mounted DC fan - FK1

2-pipes		FCEER ²⁾	A to E	B	B	B	B	A	A
		$\eta_{s,c}$	%	144,2	166,9	172,1	169,3	226,8	213,0
		FCCOP ⁴⁾	A to E	B	B	B	B	B	B
		$\eta_{s,h}$	%	160,0	167,0	170,5	173,4	208,5	198,0

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) The sound pressure of the indoor unit shows the value measured at a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent.

Flex Air Smart fan coil – Wall-mounted.

Great flexibility and improved air quality for your projects.

Flex Air Smart fan coil –
Wall-mounted unit is the first
Panasonic water fan coil integrated
with nanoe™ X technology for
improved air quality and compatible
with individual and centralised
PACi NX/VRF controls.



nanoe™ X



**COMPATIBILITY WITH
PACi NX/VRF CONTROLS**



× QUIET OPERATION



STYLISH DESIGN



MOTORIZED LOUVERS



COMPACT FOOTPRINT



ErP compliant following COMMISSION REGULATION (EU) 2016/2281.



NEW! Flex Air Smart fan coil – Medium static pressure duct DC fan – FF1

Fan coil medium static pressure ductable units with nanoe™ X (Mark 3).

Cooling capacity: 2,3 to 9,3 kW.

Heating capacity: 2,7 to 9,8 kW.

NEW



The range at a glance

- Versions: 2-pipe and 4-pipe
- 7 sizes
- DC fan for better efficiency and control
- Air flow from 590 to 1500 m³/h
- External static pressure: 120 Pa
- nanoe™ X technology to improve protection 24/7
- S-Link available - compatible with Panasonic controllers

Advantages

- Ideal for commercial and residential applications with a low height for all sizes
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Efficiency class: A in cooling and heating modes for all sizes
- Flexible hydraulic connection right/left and right electrical connection
- Air return and discharge configuration: In line (I) or from the same side (U)
- Different aerodynamic plenum configurations: rectangular or Circular Ø200 mm
- Compatibility with a wide range of controllers
- G1 cleanable synthetic-type air filter
- Very easy servicing



Optional controller. CONEX Series, white or black. CZ-RTC6W/BL/BLW2 or CZ-RTC6/BL/BLW2



Optional controller. Infrared remote controller for wall-mounted. CZ-RWS3



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



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



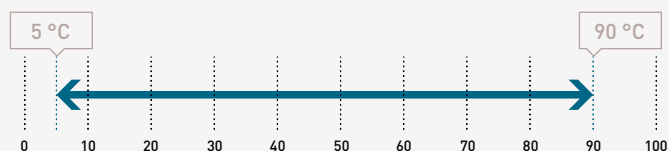
Optional controller. SRC - mini BMS controller.

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

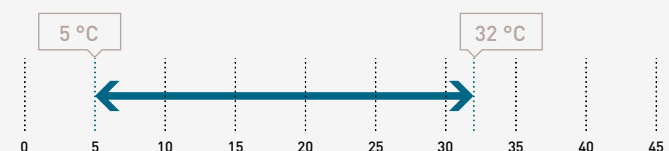


Operating Limits

Entering water temperature (without glycol).



Indoor air temperature.



AC SELECT.

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Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>



Technical performance

Flex Air Smart fan coil*			S-23FF1E	S-28FF1E	S-40FF1E	S-50FF1E	S-70FF1E	S-80FF1E	S-93FF1E
Fan speed ¹⁾			Max	Max	Max	Max	Max	Max	Max
2-pipes									
Total cooling capacity ²⁾	kW		2,30	2,80	4,00	5,00	7,00	8,00	9,30
Heating capacity ³⁾	kW		2,70	3,30	4,20	5,20	7,50	8,30	9,80
4-pipes									
Total cooling capacity ²⁾	kW		2,14	2,71	3,74	4,75	6,87	7,31	8,71
Heating capacity ⁴⁾	kW		4,95	5,96	5,16	7,10	8,56	10,16	11,36
Ventilation									
Air flow ⁵⁾	2-pipes	m ³ /h	590	680	576	980	1230	1180	1500
	4-pipes	m ³ /h	420	600	460	780	1110	1110	1360
External static pressure	Pa		120	120	120	120	120	120	120
Water connections									
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Water connections	Inch		1/2	1/2	1/2	3/4	3/4	3/4	3/4
Dimension and weight									
Dimension	HxWxD	mm	250x800x730	250x800x730	250x800x730	250x1000x730	250x1000x730	250x1400x730	250x1400x730
Weight	kg		26	26	33	33	33	47	47

Energy efficiency class ⁶⁾

Flex Air Smart fan coil									
2-pipes	FCEER	A to E	A	A	A	A	A	A	A
	FCCOP	A to E	A	A	A	A	A	A	A
4-pipes	FCEER	A to E	A	A	A	A	A	A	A
	FCCOP	A to E	A	A	A	A	A	A	A

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) According to Eurovent 6/10 (air flow test method) and 8/12 (sound test method). 6) According to Eurovent. *Available in Summer 2026.

Accessories and options
2W or 3W – 2 way or 3 way valves
CB – Circuit breakers
PUMP – Drain pump
EH – Electric heaters (from 500 W to 2500 W)
Fresh air intake Ø 100 mm
FH – Fuse holder

Accessories and options
G2 / G3 / G4 filters
Other speeds configuration (standard factory set speeds in technical table)
Many air inlet/outlet configurations
HL/ER – Hydraulic left – electric right
HR/ER – Hydraulic right – electric right

Accessories supplied loose
SRC – Smart remote control – Mini building management system (only with Modbus RTU)
CZ-RTC6W – CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL – CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6 – CONEX wired remote controller (non-wireless), black

Accessories supplied loose
CZ-RTC6BL – CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RWS3 + CZ-RWRC3 – Infrared remote controller and receiver
PAW-FC-907EC – Wired remote controller with touch control
PAW-FC-903EC – Wired remote controller
KIT REMOTE SENSOR – Remote sensor for ducted unit



ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

Flex Air fan coil – Comfort AC fan

Fan coil floor and ceiling units with cooling and heating.

Cooling capacity: 0,6 to 6,9 kW.

Heating capacity: 0,6 to 7,4 kW.



Optional controller.
WRC remote control.



Optional controller.
SRC - mini BMS
controller.



Optional controller.
Electronic controller
TControl POD glass.



Optional controller.
Electronic controller
TControl EASY 3S.



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



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



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

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 7 sizes
- 5-speed AC fan - standard factory set speeds: S1,S3,S5
- Air flow from 94 to 1064 m³/h
- Configuration: universal installation units (vertical or horizontal) with or without cabinet
- Left or right water connections
- Many air inlet/outlet configurations
- G2 air filter (G3 as an option)

Advantages

- Silent units
- New casing design for an increased robustness
- Harmonious and aesthetic RAL 9003 painted cabinet
- Valves, condensate drain pan and drain pump factory mounted
- 100% factory tested

Accessories and options

2W or 3W – 2 way or 3 way valves

4-pipes kit (additional coil)

CB – Circuit breakers

PUMP – Drain pump

EH – Electric heaters (from 500 W to 2500 W)

FC/FCG – Feet with/without grid

FH – Fuse holders

G3 filter

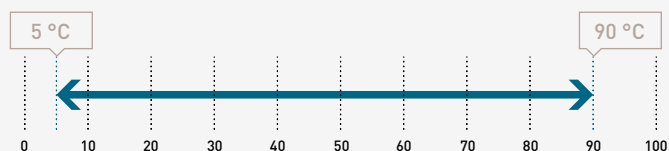
DG – Horizontal or vertical drain guard (with valve)

Many air inlet/outlet configurations

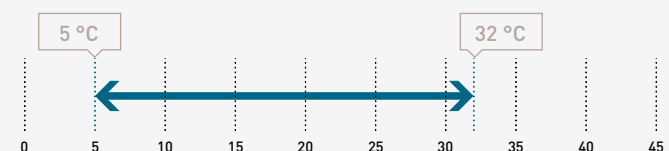
C/O – Electromechanical sensor for automatic changeover

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>



Technical performance

Flex Air fan coil – Comfort AC fan			P-FC10	P-FC20	P-FC30	P-FC40	P-FC50	P-FC60	P-FC70
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
2-pipes									
Total cooling capacity ²⁾	kW		0,66/1,00/1,45	0,61/0,96/1,38	0,95/1,88/2,37	1,14/2,28/3,02	1,71/3,16/4,64	2,57/4,33/5,53	3,24/5,84/6,91
Sensible capacity ²⁾	kW		0,48/0,77/1,05	0,43/0,70/1,02	0,78/1,44/1,80	0,83/1,66/2,23	1,24/2,23/3,27	1,81/3,14/4,25	2,26/4,11/4,85
Water flow ²⁾	l/h		114/172/250	105/165/238	164/324/408	196/393/520	295/544/799	443/746/953	558/1006/1190
Water pressure drop ^{2) 3)}	kPa		9,17/19,5/39,1	2,65/4,62/7,43	5,8/17,6/26,3	17,0/21,5/35,2	7,5/22,8/47,1	12,6/33,9/54,4	4,4/13,9/19,4
Heating capacity ⁴⁾	kW		0,63/1,18/1,71	0,63/1,03/1,53	1,00/1,86/2,49	1,14/2,28/3,18	1,79/3,47/4,81	2,45/4,22/5,63	3,45/6,27/7,41
Water flow ⁴⁾	l/h		109/203/295	109/177/264	172/320/429	196/393/548	308/598/829	422/727/970	594/1080/1276
Water pressure drop ^{3) 4)}	kPa		5,9/17,3/33,8	2,76/5,06/8,54	5,8/16,2/27,0	5,0/15,6/28,1	6,1/20,7/38,5	18,6/52,4/91,4	4,9/16,0/22,3
4-pipes									
Total cooling capacity ²⁾	kW		0,63/0,88/1,24	0,87/1,34/1,73	0,91/1,80/2,28	0,98/2,14/2,85	1,57/2,88/4,13	2,60/4,39/5,61	3,17/5,62/6,58
Sensible capacity ²⁾	kW		0,46/0,67/0,91	0,65/1,02/1,36	0,75/1,39/1,74	0,71/1,57/2,10	1,14/2,04/2,92	1,82/3,18/4,28	2,21/3,96/4,62
Water flow ²⁾	l/h		109/152/214	150/231/298	157/310/393	169/369/491	270/496/711	448/756/966	546/968/1133
Water pressure drop ^{2) 3)}	kPa		7,6/13,9/26,3	2,33/4,44/6,64	2,8/8,6/13,1	5,8/20,5/33,6	3,9/11,6/22,8	10,2/27,7/44,5	5,3/16,2/22,1
Heating capacity ⁵⁾	kW		0,63/1,00/1,41	1,00/1,40/1,68	1,28/1,81/2,13	1,22/2,21/2,85	2,01/3,19/4,08	2,71/4,24/5,33	3,65/5,00/5,90
Water flow ⁵⁾	l/h		54/86/121	86,1/121/145	110/156/183	105/190/245	173/275/351	233/365/459	314/431/508
Water pressure drop ^{3) 5)}	kPa		1,2/2,1/3,3	1,15/2,2/3,12	2,8/4,7/6,1	5,1/13,9/21,8	5,7/12,5/19,4	11,6/24,8/37	35,4/60,7/81,2
Sound levels									
Sound power	2-pipes	dB(A)	33/40/49	31/43/50	30/45/52	43/47/51	34/43/56	38/51/58	43/56/61
	4-pipes	dB(A)	33/40/49	31/43/50	30/45/52	33/44/51	34/46/56	38/51/58	43/56/61
Sound pressure ⁶⁾	2-pipes	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52
	4-pipes	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52
NR ⁶⁾	2-pipes		19/26/35	17/29/36	16/31/38	16/30/37	20/32/42	24/37/44	29/42/47
	4-pipes		19/26/35	17/29/36	16/31/38	16/30/37	20/32/42	24/37/44	29/42/47
Ventilation									
Number of fans			1	1	1	2	2	2	2
Air flow	2-pipes	m ³ /h	94/190/283	68/104/196	138/274/390	270/311/417	253/486/716	350/640/933	480/893/1064
	4-pipes	m ³ /h	95/168/253	89/161/241	132/263/369	148/335/467	242/466/671	334/614/885	470/859/1012
Filter			G2	G2	G2	G2	G2	G2	G2
Electrical data									
Power supply	Voltage	V	230	230	230	230	230	230	230
	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
Consumption	2-pipes	W	13/24/36	13/18/31	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147
	4-pipes	W	13/24/36	11/18/28	16/37/44	15/37/55	28/54/70	37/74/104	53/99/145
Electric heater	W		500	500	500/1000	1250	1250/2500	1250/2500	1250/2500
Water connections									
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	½	½	½	½	½	½	¾
4-pipes	Heating	Inch	½	½	½	½	½	½	½
Dimension									
With cabinet - without feet	H x W x D	mm	477 x 766 x 225	477 x 766 x 225	477 x 951 x 225	477 x 1136 x 225	477 x 1321 x 225	477 x 1506 x 225	575 x 1319 x 225
Without cabinet	H x W x D	mm	430 x 570 x 220	430 x 570 x 220	430 x 753 x 220	430 x 938 x 220	430 x 1122 x 220	430 x 1307 x 220	530 x 1121 x 220
Weight									
With cabinet	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37
Without cabinet	2 / 4-pipes	kg	13/14	13/14	15/16	20/22	22/24	26/28	27/29

Energy efficiency class ⁷⁾

Flex Air fan coil – Comfort AC fan									
2-pipes	FCEER	A to E	E	E	D	D	D	D	D
	FCCOP	A to E	E	E	E	E	E	E	E
4-pipes	FCEER	A to E	E	D	D	D	E	D	D
	FCCOP	A to E	E	D	D	D	E	E	E

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A).

7) According to Eurovent. *Standard configuration with left hand hydraulic connection. G2 air filter included as standard.

Accessories supplied loose

KIT Plogic – Kit Plogic control board
KIT BRC – Kit basic remote control (only with Plogic control board)
KIT WRC – Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 – Kit Plogic Modbus board
Other speeds configuration (standard factory set speeds in technical table)
SRC – Smart remote control – Mini building management system (only with Modbus RTU)
Suspension kit
TCEASY 2P/4P – Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

Accessories supplied loose

TCEASY 2P+C/O – Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P – Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH – Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907AC – Wired remote controller with touch control
PAW-FC-903AC – Wired remote controller
PAW-FC-RC1 – Advanced wired remote controller



ErP compliant following COMMISSION REGULATION (EU) 2016/2281.



Flex Air fan coil – Comfort EC fan

Fan coil floor and ceiling units with cooling and heating.

Cooling capacity: 0,5 to 9,1 kW.

Heating capacity: 0,6 to 12,9 kW.



Optional controller.
WRC remote control.



Optional controller.
SRC - mini BMS
controller.



Optional controller.
Electronic controller
TControl POD glass.



Optional controller.
Electronic controller
TControl EASY 3S.



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



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

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 8 sizes
- Low energy consumption EC fan: 100% controllable via a 0-10 V signal or 3 operating speeds
- Air flow from 91 to 1548 m³/h
- Configuration: universal installation units (vertical or horizontal) with or without cabinet
- Left or right water connections
- Many air inlet/outlet configurations
- G2 air filter (G3 as an accessory)

Advantages

- Excellent performances: FCEER and FCCOP up to "A"
- Silent units
- New casing design for an increased robustness
- Harmonious and aesthetic RAL 9003 painted cabinet
- Valves, condensate drain pan and drain pump factory mounted
- 100% factory tested

Accessories and options

2W or 3W – 2 way or 3 way valves

4-pipes kit (additional coil)

CB – Circuit breakers

PUMP – Drain pump

EH – Electric heaters (from 500 W to 2500 W)

FC/FCG – Feet with/without grid

FH – Fuse holders

G3 filter

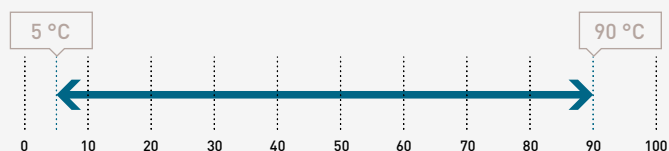
DG – Horizontal or vertical drain guard (with valve)

Many air inlet/outlet configurations

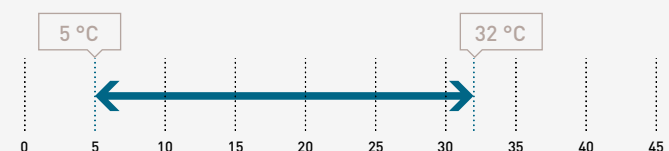
C/O – Electromechanical sensor for automatic changeover

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>



Technical performance

Flex Air fan coil – Comfort EC fan			P-FC10	P-FC20	P-FC30	P-FC40	P-FC50	P-FC60	P-FC70	P-FC80
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
2-pipes										
Total cooling capacity ²⁾	kW		0,59/1,16/1,96	0,48/0,84/1,31	0,67/1,41/1,83	1,34/2,93/4,19	1,15/2,59/3,41	1,98/4,45/5,24	2,30/4,29/5,91	4,59/6,13/8,36
Sensible capacity ²⁾	kW		0,48/1,00/1,76	0,36/0,65/1,03	0,47/1,04/1,34	0,95/2,10/3,00	0,79/1,72/2,25	1,35/3,51/4,02	1,91/4,10/4,96	3,32/4,51/6,28
Water flow ²⁾	l/h		102/200/338	105/226/365	141/336/505	231/505/722	231/615/858	341/767/903	439/958/1128	791/1056/1440
Water pressure drop ^{2) 3)}	kPa		7,5/25,7/69,5	1,4/4,3/9,3	5,9/21,8/42,9	6,4/24,3/46,3	4,9/28,7/53,9	7,8/35,8/49,0	2,7/12,6/17,5	14,1/21,4/37,6
Heating capacity ⁴⁾	kW		0,67/1,30/2,31	0,68/1,04/2,52	0,80/1,72/2,66	1,11/2,48/4,46	1,38/3,89/5,19	1,95/4,93/5,82	3,05/5,81/7,17	4,21/5,80/8,43
Water flow ⁴⁾	l/h		115/224/398	117/264/434	138/296/458	191/427/768	238/670/894	336/849/1002	525/1001/1235	798/1101/1598
Water pressure drop ^{3) 4)}	kPa		6,5/20,6/59,1	1,7/5,5/12,4	4,1/14,2/30,4	4,8/18,1/51,9	3,8/25,7/44,6	12,2/70,7/97,5	3,9/13,8/20,9	14,4/23,1/45,6
4-pipes										
Total cooling capacity ²⁾	kW		0,40/0,64/1,41	0,57/1,20/2,18	0,75/1,84/2,93	1,03/2,20/3,52	1,17/3,45/4,39	1,69/3,90/4,69	2,44/4,88/6,06	4,44/5,86/9,07
Sensible capacity ²⁾	kW		0,30/0,51/1,24	0,43/0,96/1,76	0,55/1,44/2,28	0,73/1,57/2,58	0,92/2,61/3,28	1,12/3,05/3,63	1,83/3,61/4,53	3,20/4,31/6,84
Water flow ²⁾	l/h		68,9/109/243	98,2/207/376	129/317/505	177/379/606	202/594/756	291/672/808	420/841/1044	765/1009/1562
Water pressure drop ^{2) 3)}	kPa		5,2/10,5/40,1	1,3/3,8/9,7	4,0/13,7/28,0	9,3/27,8/58,9	2,3/16,2/25,6	4,6/22,0/31,4	3,2/12,3/18,8	18,8/30,6/67,2
Heating capacity ⁵⁾	kW		0,61/1,13/1,87	0,79/1,33/2,09	1,41/2,01/2,77	1,57/2,49/3,62	2,18/3,34/4,10	1,81/4,05/4,81	3,45/4,67/5,53	5,74/7,99/12,90
Water flow ⁵⁾	l/h		52,5/97,3/161	68/115/180	121/173/239	135/214/312	188/288/353	156/349/414	297/402/476	494/688/1111
Water pressure drop ^{3) 5)}	kPa		1,1/2,4/4,8	<1/2,0/4,8	7,9/12,3/18,6	10,9/22,2/41,1	6,5/13,6/19,6	16,1/45,3/57,5	32,2/53,9/72,4	19,2/34,5/83,1
Sound levels										
Sound power	2-pipes	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	45/57/59	51/56/64
	4-pipes	dB(A)	34/43/54	34/47/60	31/50/59	29/44/56	32/51/57	32/54/58	46/57/64	51/56/64
Sound pressure ⁶⁾	2-pipes	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
	4-pipes	dB(A)	25/34/45	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55
NR ⁶⁾	2-pipes		20/33/46	20/33/46	17/36/45	15/30/38	16/37/43	18/40/44	26/40/45	37/42/50
	4-pipes		20/29/40	20/33/46	17/36/45	15/30/38	16/37/43	18/40/44	26/40/45	37/42/50
Ventilation										
Number of fans			1	1	1	2	2	2	2	3
Air flow	2-pipes	m ³ /h	108/228/417	98/134/227	119/257/345	170/412/678	203/577/816	245/737/912	350/641/894	500/680/1063
	4-pipes	m ³ /h	76/110/226	84/200/380	123/297/540	148/298/524	185/587/755	205/668/845	329/798/989	660/884/1548
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
Consumption	2-pipes	W	7/12/41	7/13/41	6/16/42	2/13/43	4/23/46	4/30/54	12/35/77	23/42/108
	4-pipes	W	5/7/17	7/13/40	6/14/40	2/11/39	4/23/44	4/28/52	13/37/84	22/41/116
Electric heater	W		500	500	500/1000	1250	1250/2500	1250/2500	1250/2500	1250/2500
Water connections										
Connection 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 or 4-pipes	Cooling	Inch	½	½	½	½	½	½	¾	¾
4-pipes	Heating	Inch	½	½	½	½	½	½	½	½
Dimension										
With cabinet - without feet	H x W x D	mm	477 x 766 x 225	477 x 766 x 225	477 x 951 x 225	477 x 1136 x 225	477 x 1321 x 225	477 x 1506 x 225	575 x 1319 x 225	575 x 1506 x 225
Without cabinet	H x W x D	mm	430 x 570 x 220	430 x 570 x 220	430 x 753 x 220	430 x 938 x 220	430 x 1122 x 220	430 x 1307 x 220	530 x 1121 x 220	530 x 1316 x 220
Weight										
With cabinet	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37	47/49
Without cabinet	2 / 4-pipes	kg	13/14	13/14	15/16	20/22	22/24	26/28	27/29	38/40

Energy efficiency class ⁷⁾

Flex Air fan coil – Comfort EC fan										
2-pipes	FCEER	A to E	C	D	B	A	A	A	B	B
	FCCOP	A to E	D	D	C	B	A	B	B	C
4-pipes	FCEER	A to E	C	C	B	A	B	B	B	A
	FCCOP	A to E	C	C	B	A	B	B	B	A

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 7) According to Eurovent. *Standard configuration with left hand hydraulic connection. G2 air filter included as standard.

Accessories supplied loose

KIT Plogic – Kit Plogic control board
KIT BRC – Kit basic remote control (only with Plogic control board)
KIT WRC – Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 – Kit Plogic Modbus board
Other speeds configuration (standard factory set speeds in technical table)
SRC – Smart remote control – Mini building management system (only with Modbus RTU)
Suspension kit

Accessories supplied loose

TCEASY 2P/4P – Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed
TCEASY 2P+C/O – Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P – Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH – Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907EC – Wired remote controller with touch control
PAW-FC-903EC – Wired remote controller

Flex Air fan coil – Cassette AC fan

Fan coil cassette units with cooling and heating.

Cooling capacity: 1,3 to 8,6 kW.

Heating capacity: 1,1 to 12,8 kW.



Optional controller.
WRC remote control.



Optional controller.
SRC - mini BMS
controller.



Optional controller.
Electronic controller
TControl POD glass.



Optional controller.
Electronic controller
TControl EASY 3S.



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



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



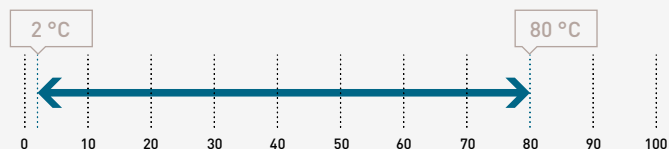
Optional controller.
Advanced wired
remote controller.
PAW-FC-RC1

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

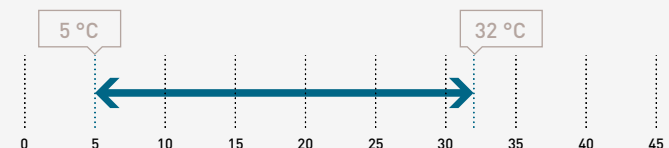


Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- 3-speed AC fan
- Air flow from 360 to 1447 m³/h
- Integrated condensate drain pump
- G1 cleanable air filter

Advantages

- Aesthetic and IRYs COANDA design diffusers with strong coanda effect
- Silent units
- Easy installation and maintenance: all connections on the same side. Electrical box and valves outside of the unit
- Low built-in-height
- Perfect integration into standard 600 x 600 ceiling tiles*
- Valves and drain pump factory mounted

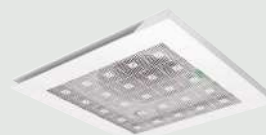
*From 20 to 40 with IRYs COANDA diffusers.

IRYs COANDA diffusers.

For a unique design and a strong coanda effect.



IRYs COANDA 360.
360° air diffusion.



IRYs COANDA 180.
180° air diffusion.

Coanda effect measurements taken in our Panasonic development center.



Accessories and options

2W or 3W - 2 way or 3 way valves

Auxiliary drain pan

EH - Electric heaters (from 1500 W to 3000 W)

KIT C/O - Kit electromechanical sensor for automatic changeover

Air distribution kit

G4 filter

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>



Technical performance

Flex Air fan coil – Cassette AC fan			P-FQ20	P-FQ30	P-FQ40	P-FQ50	P-FQ60	P-FQ70
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
2-pipes								
Total cooling capacity ²⁾	kW		1,54/1,76/2,36	1,87/2,87/3,99	2,78/3,49/4,69	3,35/4,43/6,07	3,69/5,46/7,18	4,04/6,48/8,61
Sensible capacity ²⁾	kW		1,29/1,48/1,98	1,41/2,17/3,04	2,08/2,67/3,62	2,52/3,35/4,47	2,67/4,06/5,42	2,97/4,85/6,34
Water flow ²⁾	l/h		265/303/404	323/493/683	478/597/801	576/762/1042	636/937/1233	695/1111/1476
Water pressure drop ²⁾	kPa		4,0/5,0/10,0	3,0/7,0/14,0	6,0/10,0/18,0	7,0/12,0/22,0	3,0/6,0/11,0	5,0/12,0/20,0
Heating capacity ³⁾	kW		1,92/2,17/2,74	1,94/3,15/3,68	3,16/3,92/5,28	3,80/5,08/6,84	3,85/6,26/8,51	4,38/7,95/10,28
Water flow ³⁾	l/h		331/374/472	334/543/634	544/675/909	655/875/1178	663/1078/1466	754/1369/1771
Water pressure drop ³⁾	kPa		6,0/7,0/10,0	3,0/9,0/11,0	7,0/10,0/17,0	8,0/13,0/22,0	3,0/8,0/14,0	6,0/17,0/26,0
4-pipes								
Total cooling capacity ²⁾	kW		1,29/1,48/1,97	1,99/2,68/3,37	2,55/3,21/4,00	—	2,97/4,96/6,63	3,17/6,01/7,55
Sensible capacity ²⁾	kW		1,18/1,38/1,84	1,49/2,07/2,65	2,03/2,58/3,30	—	2,23/3,77/5,06	2,38/4,68/5,95
Water flow ²⁾	l/h		232/258/359	342/465/576	437/563/683	—	511/851/1137	543/1030/1294
Water pressure drop ²⁾	kPa		6,0/8,0/13,0	4,0/7,0/11,0	6,0/10,0/15,0	—	5,0/14,0/24,0	6,0/20,0/30,0
Heating capacity ⁴⁾	kW		1,09/1,27/1,67	3,10/4,40/5,46	4,32/5,00/5,80	—	5,28/7,79/10,04	6,43/10,07/12,77
Water flow ⁴⁾	l/h		94/109/144	267/379/470	372/431/500	—	455/671/865	554/867/1100
Water pressure drop ⁴⁾	kPa		15,0/17,0/28,0	7,0/13,0/20,0	13,0/17,0/23,0	—	4,0/7,0/11,0	5,0/11,0/16,0
Sound levels								
Sound power	2-pipes	dB(A)	38/42/49	35/47/53	42/48/57	35/40/49	38/46/54	40/52/59
	4-pipes	dB(A)	37/41/49	35/47/53	42/48/57	—	38/46/54	40/52/59
Sound pressure ⁵⁾	2-pipes	dB(A)	27/31/40	26/35/44	33/39/48	26/31/40	29/37/45	31/43/50
	4-pipes	dB(A)	27/31/40	26/35/44	33/39/48	—	29/37/45	31/43/50
NR ⁵⁾	2-pipes		23/27/35	20/30/39	28/34/43	21/26/35	22/32/40	25/38/50
	4-pipes		23/27/35	20/30/39	28/34/43	—	22/32/40	25/38/45
Ventilation								
Number of fans			1	1	1	1	1	1
Air flow	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	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	25/35/58	17/34/58	38/58/99	28/41/66	34/61/88	44/92/125
	4-pipes	W	25/35/58	17/34/58	38/58/99	—	34/61/88	44/92/125
Electric heater	W		1500	2500	2500	2x1500	2x1500	2x1500
Water connections								
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	¾	¾	¾	1	1	1
4-pipes	Heating	Inch	½	½	½	—	¾	¾
Dimension and weight								
With plastic diffuser	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
With IRYs COANDA 180	H x W x D	mm	353 x 595 x 595	353 x 595 x 595	353 x 595 x 595	366 x 849 x 849	366 x 849 x 849	366 x 849 x 849
With IRYs COANDA 360	H x W x D	mm	341 x 595 x 595	341 x 595 x 595	341 x 595 x 595	358 x 849 x 849	358 x 849 x 849	358 x 849 x 849
Weight	kg		14,8	16,5	16,5	37,1	37,1	39,6

Energy efficiency class ⁶⁾

Flex Air fan coil – Cassette AC fan								
2-pipes	FCEER	A to E	D	C	D	C	C	C
	FCCOP	A to E	E	D	D	C	C	D
4-pipes	FCEER	A to E	E	C	D	—	C	D
	FCCOP	A to E	E	C	D	—	C	C

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 6) According to Eurovent. *Drain pump and G1 air filter are included as standard.

Accessories supplied loose

Plastic or metallic (IRYS COANDA) diffusers (mandatory):
 - IC180 G4 - Kit diffuser IRYs COANDA 180° with G4 filter
 - IC360 G4 - Kit diffuser IRYs COANDA 360° with G4 filter

KIT Plogic - Kit Plogic control board

KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)

KIT MB2 - Kit Plogic Modbus board

IRC - Kit infrared remote control for Plogic

SRC - Smart remote control - Mini building management system (only with Modbus RTU)

Accessories supplied loose

TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed

TCPOD GLASS AC - Kit controller, Modbus, HMI-integrated, AC fan speed, black or white

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

PAW-FC-903AC - Wired remote controller

PAW-FC-RC1 - Advanced wired remote controller

Flex Air fan coil – Cassette EC fan

Fan coil cassette units with cooling and heating.

Cooling capacity: 1,3 to 9,6 kW.

Heating capacity: 1,1 to 14,0 kW.



Optional controller.
WRC remote control.



Optional controller.
SRC - mini BMS
controller.



Optional controller.
Electronic controller
TControl POD glass.



Optional controller.
Electronic controller
TControl EASY 3S.



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



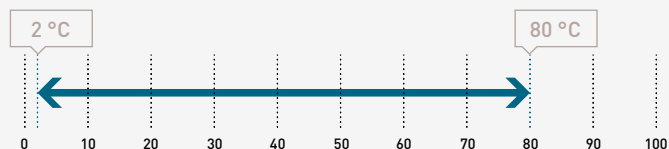
Optional controller.
Wired remote controller.
PAW-FC-903EC

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

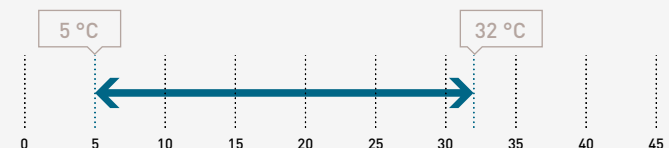


Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- Low energy consumption EC fan: 100% controllable via a 0-10 V signal or 3 operating speeds
- Air flow from 360 to 1598 m³/h
- Integrated condensate drain pump
- G1 cleanable air filter

Advantages

- Excellent performances: FCEER and FCCOP up to "A"
- Aesthetic and IRYs COANDA design diffusers with strong coanda effect
- Silent units
- Easy installation and maintenance: all connections on the same side. Electrical box and valves outside of the unit
- Low built-in-height
- Perfect integration into standard 600 x 600 ceiling tiles*
- Valves and drain pump factory mounted

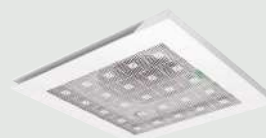
*From 20 to 40 with IRYs COANDA diffusers.

IRYs COANDA diffusers.

For a unique design and a strong coanda effect.



IRYs COANDA 360.
360° air diffusion.



IRYs COANDA 180.
180° air diffusion.

Coanda effect measurements taken in our Panasonic development center.



Accessories and options

2W or 3W - 2 way or 3 way valves

Auxiliary drain pan

KIT ECO - Kit Ecospeed card

EH - Electric heaters (from 1500 W to 3000 W)

KIT C/O - Kit electromechanical sensor for automatic changeover

Air distribution kit

G4 filter

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>



Technical performance

Flex Air fan coil – Cassette EC fan			P-FQ20	P-FQ30	P-FQ40	P-FQ50	P-FQ60	P-FQ70
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
2-pipes								
Total cooling capacity ²⁾	kW		1,55/1,77/2,38	1,88/2,88/4,00	2,79/3,51/4,71	3,36/4,44/6,09	3,71/5,48/7,20	4,05/6,51/9,61
Sensible capacity ²⁾	kW		1,30/1,49/2,00	1,42/2,18/3,05	2,09/2,69/3,64	2,53/3,36/4,49	2,69/4,08/5,44	2,98/4,88/7,21
Water flow ²⁾	l/h		267/306/409	325/497/688	481/604/808	579/765/1050	640/944/1243	700/1119/1649
Water pressure drop ²⁾	kPa		4,0/5,0/10,0	3,0/7,0/14,0	6,0/10,0/18,0	7,0/12,0/22,0	3,0/6,0/11,0	5,0/12,0/25,0
Heating capacity ³⁾	kW		1,92/2,17/2,74	1,94/3,15/3,68	3,16/3,92/5,28	3,80/5,08/6,84	3,85/6,26/8,51	4,38/7,95/11,03
Water flow ³⁾	l/h		331/374/472	334/543/634	544/675/909	655/875/1178	663/1078/1466	754/1369/1900
Water pressure drop ³⁾	kPa		6,0/7,0/10,0	3,0/9,0/11,0	7,0/10,0/17,0	8,0/13,0/22,0	3,0/8,0/14,0	6,0/17,0/29,0
4-pipes								
Total cooling capacity ²⁾	kW		1,30/1,49/1,99	2,00/2,69/3,38	2,56/3,23/4,02	—	2,99/4,98/6,65	3,18/6,04/7,97
Sensible capacity ²⁾	kW		1,19/1,39/1,86	1,50/2,08/2,66	2,04/2,60/3,32	—	2,25/3,79/5,08	2,39/4,71/6,34
Water flow ²⁾	l/h		234/262/344	344/464/581	442/556/690	—	516/858/1144	549/1041/1366
Water pressure drop ²⁾	kPa		6,0/8,0/13,0	4,0/7,0/11,0	6,0/10,0/15,0	—	5,0/14,0/24,0	6,0/20,0/33,0
Heating capacity ⁴⁾	kW		1,09/1,27/1,67	3,10/4,40/5,46	4,32/5,00/5,80	—	5,28/7,79/10,00	6,43/10,67/13,99
Water flow ⁴⁾	l/h		94/109/144	267/379/470	372/431/500	—	455/671/865	554/867/1205
Water pressure drop ⁴⁾	kPa		13,0/17,0/28,0	7,0/13,0/20,0	13,0/17,0/23,0	—	4,0/7,0/11,0	5,0/11,0/19,0
Sound levels								
Sound power	2-pipes	dB(A)	36/40/49	35/44/53	42/48/57	35/40/49	38/46/54	40/52/61
	4-pipes	dB(A)	36/40/49	35/44/53	42/48/57	—	38/46/54	40/52/61
Sound pressure ⁵⁾	2-pipes	dB(A)	27/31/40	26/35/44	33/39/48	26/31/40	29/37/45	31/43/50
	4-pipes	dB(A)	27/31/40	26/35/44	33/39/48	—	29/37/45	31/43/50
NR ⁵⁾	2-pipes		23/27/35	20/30/39	28/34/43	21/26/35	22/32/40	25/38/45
	4-pipes		23/27/35	20/30/39	28/34/43	—	22/32/40	25/38/45
Ventilation								
Number of fans			1	1	1	1	1	1
Air flow	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	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	9/13/29	7/14/33	13/23/57	7/12/25	9/23/45	11/40/115
	4-pipes	W	9/13/29	7/14/32	13/22/57	—	9/23/45	11/40/115
Electric heater	W		1500	2500	2500	2x1500	2x1500	2x1500
Water connections								
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	¾	¾	¾	1	1	1
4-pipes	Heating	Inch	½	½	½	—	¾	¾
Dimension and weight								
With plastic diffuser	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
With IRYs COANDA 180	H x W x D	mm	353 x 595 x 595	353 x 595 x 595	353 x 595 x 595	366 x 849 x 849	366 x 849 x 849	366 x 849 x 849
With IRYs COANDA 360	H x W x D	mm	341 x 595 x 595	341 x 595 x 595	341 x 595 x 595	358 x 849 x 849	358 x 849 x 849	358 x 849 x 849
Weight	kg		14,8	16,5	16,5	37,1	37,1	39,6

Energy efficiency class ⁶⁾

Flex Air fan coil – Cassette EC fan								
2-pipes	FCEER	A to E	B	A	B	A	A	A
	FCCOP	A to E	B	B	B	A	A	A
4-pipes	FCEER	A to E	B	A	B	—	A	B
	FCCOP	A to E	C	A	B	—	A	A

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.

4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 6) According to Eurovent. *Drain pump and G1 air filter are included as standard.

Accessories supplied loose

Plastic or metallic (IRYS COANDA) diffusers (mandatory):
 - IC180 G4 - Kit diffuser IRYs COANDA 180° with G4 filter
 - IC360 G4 - Kit diffuser IRYs COANDA 360° with G4 filter

KIT Plogic - Kit Plogic control board

KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)

KIT MB2 - Kit Plogic Modbus Board

IRC - Kit infrared remote control for Plogic

SRC - Smart remote control - Mini building management system (only with Modbus RTU)

Accessories supplied loose

TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed

TCPOD WHITE (BLACK) 2P/4P - Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)

TCPOD WHITE (BLACK) 2P+EH - Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)

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

PAW-FC-903EC - Wired remote controller



ErP compliant following COMMISSION REGULATION (EU) 2016/2281.



Flex Air fan coil – Wall-mounted AC fan

Fan coil wall units with cooling and heating.

Cooling capacity: 1,0 to 4,0 kW.

Heating capacity: 1,4 to 4,5 kW.



Optional controller.
WRC remote control.



Optional controller.
SRC - mini BMS
controller.



Optional controller.
Electronic controller
TControl POD glass.



Optional controller.
Electronic controller
TControl EASY 3S.



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



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



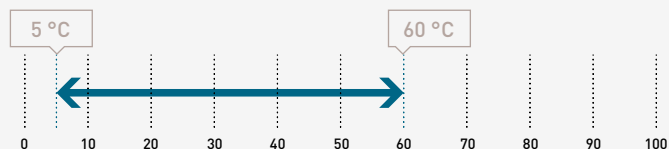
Optional controller.
Advanced wired
remote controller.
PAW-FC-RC1

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

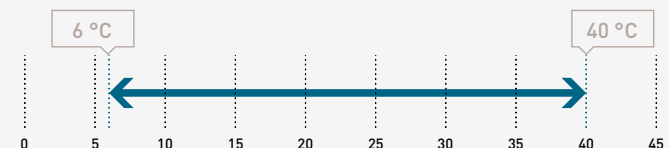


Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions (2-pipes): infrared without valve (IR SV), infrared with valve (IR AV) and terminal block without valve (TB SV)
- 4 sizes
- 3-speed AC fan
- Air flow from 280 to 850 m³/h
- G1 cleanable air filter

Advantages

- Reversible
- Aesthetic design
- Light for easy installation
- Silent units
- Very easy servicing through a removable front panel
- Cleanable synthetic-type air filter

Accessories and options

2W or 3W - 2 way or 3 way valves

Accessories supplied loose

KIT Plogic - Kit Plogic control board

KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)

KIT MB2 - Kit Plogic Modbus board

SRC - Smart remote control - Mini building management system (only with Modbus RTU)

TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed

TCPOD GLASS AC - Kit controller, Modbus, HMI-integrated, AC fan speed, black or white

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

PAW-FC-903AC - Wired remote controller

PAW-FC-RC1 - Advanced wired remote controller

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>



Technical performance

Flex Air fan coil – Wall-mounted AC fan			P-FW07(IR)	P-FW09(IR)	P-FW18(IR)	P-FW22(IR)
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
2-pipes, without valve, without/with IR infrared control						
Total cooling capacity ²⁾	kW		1,00/1,34/1,69	1,58/1,79/2,50	2,78/3,05/3,60	2,93/3,29/4,00
Sensible capacity ²⁾	kW		0,72/0,97/1,20	1,21/1,37/1,87	2,12/2,39/2,74	2,28/2,62/3,11
Water flow ²⁾	l/h		172/231/291	270/308/431	479/525/620	505/565/687
Water pressure drop ²⁾	kPa		18,6/24,9/31,4	18,5/21,4/31,0	34,6/40,0/52,3	37,2/42,8/54,9
Heating capacity ³⁾	kW		1,42/1,62/1,72	1,68/1,92/2,80	2,99/3,30/4,10	3,18/3,63/4,50
Water flow ³⁾	l/h		245/279/296	289/331/482	515/568/706	548/625/775
Water pressure drop ³⁾	kPa		17,6/23,4/26,5	21,4/23,5/28,6	39,9/46,3/64,7	41,7/55,0/85,8
Sound levels						
Sound power	dB(A)		45/49/51	40/43/52	47/50/54	50/55/60
Sound pressure ⁴⁾	dB(A)		30/33/35	32/36/40	39/41/43	39/43/48
NR ⁴⁾	dB(A)		32/36/38	34/39/44	40/43/46	43/46/50
Ventilation						
Number of fans			1	1	1	1
Air flow	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
Consumption	Cooling	W	39/42/62	30/33/40	44/48/53	50/55/69
	Heating	W	39/42/62	27/30/50	42/45/60	46/51/66
Water connections						
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Connections	Inch		½	½	½	½
Dimension and weight						
Dimension	H x W x D	mm	275 x 845 x 180	275 x 845 x 180	298 x 940 x 200	298 x 940 x 200
Weight	kg		11	11	13	13

Flex Air fan coil – Wall-mounted AC fan			P-FW09IR-3W	P-FW22IR-3W
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max
2-pipes, with valve, with IR infrared control				
Total cooling capacity ²⁾	kW		1,11/1,25/1,40	2,32/2,68/3,10
Sensible capacity ²⁾	kW		0,91/1,08/1,25	1,68/1,98/2,28
Water flow ²⁾	l/h		191/215/241	400/460/532
Water pressure drop ²⁾	kPa		14,9/16,8/18,8	42,4/50,8/61,5
Heating capacity ³⁾	W		1,29/1,61/2,00	2,51/2,75/3,30
Water flow ³⁾	l/h		222/277/344	432/474/568
Water pressure drop ³⁾	kPa		16,1/21,3/28,2	45,8/48,6/54,1
Sound levels				
Sound power	dB(A)		44/50/54	53/57/60
Sound pressure ⁴⁾	dB(A)		32/36/40	39/43/48
NR ⁴⁾	dB(A)		27/31/37	34/37/41
Ventilation				
Number of fans			1	1
Air flow	m ³ /h		150/250/400	290/400/600
Filter			G1	G1
Electrical data				
Power supply	Voltage	V	230	230
	Phase		Single phase	Single phase
	Frequency	Hz	50	50
Consumption	Cooling	W	35/38/43	50/58/69
	Heating	W	30/33/43	50/58/69
Water connections				
Connection type			Female gas threaded	Female gas threaded
Connections	Inch		½	½
Dimension and weight				
Dimension	H x W x D	mm	275 x 845 x 180	298 x 940 x 200
Weight	kg		11	13

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A).



SUPER QUIET



COMMERCIAL
SMART EDGE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.



Flex Air fan coil – Duct EC fan

Fan coil medium static pressure ductable units with cooling and heating.

Cooling capacity: 0,7 to 6,7 kW.

Heating capacity: 0,5 to 7,1 kW.



Optional controller.
WRC remote control.



Optional controller.
SRC - mini BMS
controller.



Optional controller.
Electronic controller
TControl POD glass.



Optional controller.
Electronic controller
TControl EASY 3S.



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



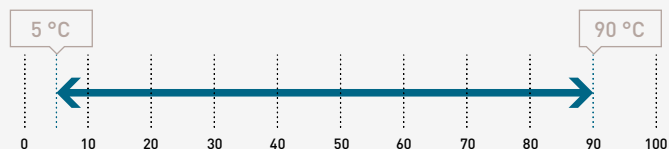
Optional controller.
Wired remote controller.
PAW-FC-903EC

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

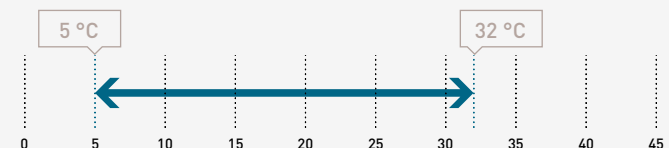


Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

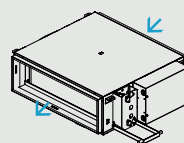
- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- Low energy consumption EC fan: 100% controllable via a 0-10 V signal or 3 operating speeds
- Air flow from 82 to 1293 m³/h
- Static pressure up to 120 Pa
- Many air inlet/outlet configurations
- Left or right water / electric connections

Advantages

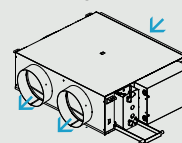
- Excellent performances: FCEER and FCCOP up to "A"
- Silent units: internal acoustic and thermal insulation
- Highly customisable: many aeraulic configurations and selection of hydraulic, and electric service side
- Ease of installation: very low height (223 mm)
- Easy maintenance: direct access to the internal components
- Mono-bloc drain pan
- 100% factory tested

Air inlet/outlet configurations.

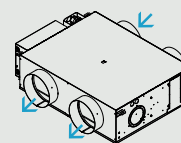
I configurations.



Rectangular return and
discharge (standard).

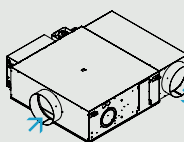


Rectangular return and
circular discharge.



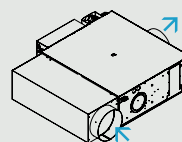
Circular return and
discharge.

J configuration.



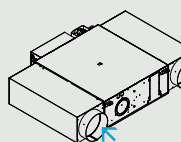
Circular return and
discharge.

L configuration.



Circular return and
discharge.

U configuration.



Circular return and
discharge.

Accessories and options

2W or 3W - 2 way or 3 way valves

CB - Circuit breakers

PUMP - Drain pump

ECO - Ecospeed 3 board (with terminal block)

EH - Electric heaters (from 500 W to 2500 W)

RANØ100 or 125 - Fresh air intake

FH - Fuse holder

G2/G3 filter

Other speeds configuration (standard factory set speeds in technical table)

Many air inlet/outlet configurations

C/O - Electromechanical sensor for automatic changeover

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>



Technical performance

Flex Air fan coil – Duct EC fan			P-FD10	P-FD15	P-FD20	P-FD25	P-FD30	P-FD40
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
2-pipes								
Total cooling capacity ²⁾	kW		0,7/1,2/1,5	1,39/1,88/2,06	1,83/2,42/2,74	2,42/2,77/3,2	1,90/3,66/4,80	2,4/4,94/6,66
Sensible capacity ²⁾	kW		0,67/1,08/1,36	1,16/1,6/1,96	1,46/1,92/2,21	1,96/2,24/2,63	1,42/2,82/3,68	1,62/3,69/4,45
Water flow ²⁾	l/h		121/207/258	239/324/355	315/416/472	416/477/551	327/630/827	413/851/1148
Water pressure drop ²⁾	kPa		2,38/5,29/7,52	6,1/9,3/10,5	9,5/15,5/19,5	19,7/25,3/33,1	15,2/44/70,3	8,2/29,7/51,7
Heating capacity ³⁾	kW		0,51/1,28/1,82	1,45/2,07/2,55	2,07/2,47/2,59	2,58/3,02/3,39	1,90/3,83/5,01	2,4/5,1/7,06
Water flow ³⁾	l/h		87,8/220/313	250/357/439	357/425/446	444/520/584	327/660/863	410/878/1216
Water pressure drop ³⁾	kPa		1,54/5,85/10,3	6,5/10,6/14,3	11,9/16,1/17,6	22,3/30/37,3	13/47,4/79,2	8,2/31,4/57,6
4-pipes								
Total cooling capacity ²⁾	kW		0,71/1,35/1,58	1,34/1,78/2,18	1,78/2,38/2,74	2,19/2,69/2,94	1,72/3,54/4,57	2,22/4,76/6,37
Sensible capacity ²⁾	kW		0,67/1,20/1,42	1,11/1,52/1,73	1,42/1,9/2,22	1,73/2,16/2,39	1,24/2,61/3,39	1,77/4,02/5,63
Water flow ²⁾	l/h		122/233/272	231/307/376	306/410/472	377/463/506	296/610/787	382/821/1097
Water pressure drop ²⁾	kPa		2,43/6,36/8,18	5,8/8,5/11,4	9,1/15,1/19,5	13,3/19,4/22,9	8,6/32,4/52,7	7,2/27,8/57,1
Heating capacity ⁴⁾	kW		0,65/1,66/2,16	1,79/2,54/2,88	2,6/3,02/3,12	3,16/3,59/4,03	1,73/3,27/4,10	2,64/5,05/6,61
Water flow ⁴⁾	l/h		56/143/186	154/219/248	224/260/269	308/344/385	149/282/353	227/435/569
Water pressure drop ⁴⁾	kPa		1,36/4,88/7,24	5,9/11,1/13,9	12,1/18/19,7	11,5/14,9/18,9	7,50/28,4/45,2	3,5/37,3/120
Sound levels								
Sound power return - radiated ⁵⁾	2-pipes	dB(A)	31/52/55	44/55/60	46/57/61	50/55/61	40/58/64	42/58/63
	4-pipes	dB(A)	29/52/55	44/55/60	50/57/61	50/55/61	40/58/64	43/58/63
Sound power - discharge ⁵⁾	2-pipes	dB(A)	31/50/55	41/52/58	50/57/61	50/56/61	42/56/67	39/57/62
	4-pipes	dB(A)	34/51/57	41/52/58	50/57/61	50/56/61	43/56/64	38/54/59
Sound pressure ⁶⁾	2-pipes	dB(A)	20/35/38	26/37/42	31/40/44	33/39/44	20/39/47	23/39/52
	4-pipes	dB(A)	20/35/38	26/37/42	31/40/44	33/39/44	20/39/47	24/39/52
NR ⁶⁾	2-pipes		9/30/33	21/32/37	26/35/39	28/34/39	15/34/42	18/34/47
	4-pipes		6/30/33	21/32/37	26/35/39	28/34/39	15/34/42	19/34/47
Ventilation								
Number of fans			1	1	1	1	1	1
Air flow ⁵⁾	2-pipes	m ³ /h	82/247/357	255/383/491	360/501/599	448/541/642	300/738/1068	289/725/903
	4-pipes	m ³ /h	85/292/384	228/351/452	331/467/560	413/503/602	255/654/943	319/802/1228
External static pressure	2-pipes	Pa	3,3/30/62,6	22/50/82	26/50/72	34/50/70	8/50/105	8/50/116
	4-pipes	Pa	2,5/30/51,8	21/50/83	25/50/72	34/50/72	8/50/104	8/50/117
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
Consumption	2-pipes	W	7/19/35	11/29/56	19/50/70	25/41/64	9/65/163	10/62/197
	4-pipes	W	7/20/36	11/28/53	20/47/76	26/41/69	8/60/166	10/60/188
Electric heater		W	500	600/1000	600/1000	1000/2000	1000/2000	1250/2500
Water connections								
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	3/4
4-pipes	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2
Dimension and weight								
Dimension without drain pan	H x W x D	mm	223 x 633 x 631	223 x 733 x 631	223 x 833 x 631	223 x 933 x 631	223 x 933 x 631	223 x 1233 x 653
Weight	kg		14	16	18	20	22	29

Energy efficiency class ⁷⁾

Flex Air fan coil – Duct EC fan								
2-pipes	FCEER	A to E	C	B	B	B	B	A
	FCCOP	A to E	C	A	B	A	B	A
4-pipes	FCEER	A to E	C	B	B	B	B	A
	FCCOP	A to E	C	A	A	A	B	A

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) According to Eurovent 6/10 (air flow test method) and 8/12 (sound test method). 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB(A). 7) According to Eurovent. *Data with I configuration with rectangular return and discharge and G2 (P-FD10/15/20/25/30) or G3 (P-FD40) filter.

Accessories supplied loose

Suspension kit
KIT Plogic - Kit Plogic control board
KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 - Kit Plogic Modbus Board
SRC - Smart remote control - Mini building management system (only with Modbus RTU)
TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

Accessories supplied loose

TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P - Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH - Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907EC - Wired remote controller with touch control
PAW-FC-903EC - Wired remote controller

Flex Air fan coil – High static duct AC fan

Fan coil high static pressure ductable units with cooling and heating.

Cooling capacity: 4,1 to 24,8 kW.

Heating capacity: 4,1 to 25,0 kW.



Optional controller.
WRC remote control.



Optional controller.
SRC - mini BMS
controller.



Optional controller.
Electronic controller
TControl POD glass.



Optional controller.
Electronic controller
TControl EASY 3S.



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



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



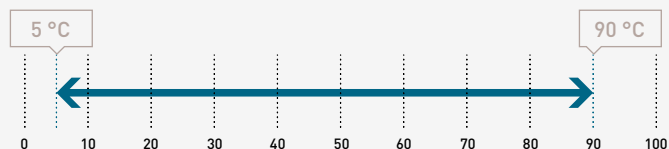
Optional controller.
Advanced wired
remote controller.
PAW-FC-RC1

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

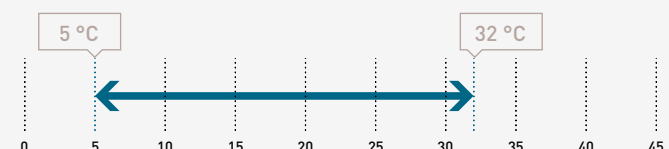


Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- 5 or 4-speed AC fan - standard factory set speeds.
07/15/18/21: S1,S3,S5 (5-speed fan motor) and 24/27:
S1,S2,S3 (4-speed fan motor)
- Air flow from 586 to 3451 m³/h
- High available static pressure up to 220 Pa
- Left or right water / electric connections

Advantages

- Very low acoustic level at low speed (double skin insulation available as an accessory)
- Selection of hydraulic and electric service side
- Ease of installation and maintenance
- 100% factory tested

Accessories and options

2W or 3W - 2 way or 3 way valves

Auxiliary drain pan

CB - Circuit breakers

PUMP - Drain pump

ERP - Double skin - M0

EH - Electric heaters (from 1000 W to 3000 W)

RANØ100 or 125 - Fresh air intake

FH - Fuse holder

G3/G4 filter

Inlet and outlet plenums for circular ducts (Ø7 only)

C/O - Electromechanical sensor for automatic changeover

Other speeds configuration (standard factory set speeds in technical table)

Accessories supplied loose

Suspension kit

KIT Plogic - Kit Plogic control board

KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)

KIT MB2 - Kit Plogic Modbus board

SRC - Smart remote control - Mini building management system (only with Modbus RTU)

TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed

TCPOD GLASS AC - Kit controller, Modbus, HMI-integrated, AC fan speed, black or white

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

PAW-FC-903AC - Wired remote controller

PAW-FC-RC1 - Advanced wired remote controller

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>



Technical performance

Flex Air fan coil – High static duct AC fan			P-FH7	P-FH15	P-FH18	P-FH21	P-FH24	P-FH27
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
2-pipes								
Total cooling capacity ²⁾		kW	4,43/5,32/5,59	6,9/11,48/13,33	6,32/11,48/13,87	7,07/13,7/17	14,78/16,67/19,03	16,4/18,9/21,9
Sensible capacity ²⁾		kW	3,14/3,97/4,25	5,04/9,19/11,23	4,94/9,48/11,89	4,93/9,94/12,5	10,68/12,27/14,23	11,4/13,3/15,5
Water flow ²⁾		l/h	765/919/965	1191/1982/2302	1091/1982/2395	1221/2365/2935	2552/2878/3286	2832/3263/3781
Water pressure drop ²⁾		kPa	27,4/39,2/43,5	7,9/19,8/26,1	6,8/19,6/27,6	8,5/28,7/43,5	14,7/18,3/23,3	13,6/17,6/23
Heating capacity ³⁾		kW	4,06/5,53/6,7	6,6/12/15,48	7,2/14/18,01	6,95/13,9/17,8	15/17,4/20,9	15,4/17,9/21,5
Water flow ³⁾		l/h	701/955/1157	1140/2072/2673	1243/2417/3110	1200/2400/3073	2590/3004/3609	2659/3091/3712
Water pressure drop ³⁾		kPa	24,1/43,5/63,2	5/17,9/26,3	6,1/16,1/24,3	12,4/21,8/34,1	11,4/21,9/28,1	10,7/21/27,3
4-pipes								
Total cooling capacity ²⁾		kW	4,05/4,84/5,08	6,38/10,08/11,33	6,77/11,18/12,83	7,75/14,38/17,43	13,68/15,27/17,13	14,78/16,77/19,13
Sensible capacity ²⁾		kW	2,86/3,57/3,8	4,76/8,42/10,13	5,01/9,13/11,13	5,45/10,58/13,23	10,18/11,67/13,33	10,68/12,27/14,23
Water flow ²⁾		l/h	699/836/877	1102/1740/1956	1169/1930/2215	1338/2483/3009	2362/2637/2958	2552/2896/3303
Water pressure drop ²⁾		kPa	31/43/47,2	5,8/13,3/16,9	6,9/17,1/22,6	11,1/34,9/50,9	20,1/24,7/30,6	13,5/17/21,5
Heating capacity ⁴⁾		kW	5,5/7/7,7	9,6/17/21	9,7/17,06/21	9,7/17,1/21	10,9/12,9/15,2	18,5/25/29,6
Water flow ⁴⁾		l/h	475/604/665	829/1468/1813	837/1473/1813	837/1476/1813	941/1114/1312	1597/2158/2555
Water pressure drop ⁴⁾		kPa	9/13,3/15	32,7/92,1/134	20,2/56,1/80	20,2/56,1/80	30,8/39/49,5	38,8/67,2/82
Sound levels								
Sound power return - radiated ⁵⁾	2-pipes	dB(A)	57/60/63	52/66/72	54/66/74	52/66/72	65/69/73	65/69/73
	4-pipes	dB(A)	54/60/63	52/66/72	52/66/72	52/66/72	65/69/73	65/69/73
Sound power - discharge ⁵⁾	2-pipes	dB(A)	53/59/62	52/64/71	52/64/71	52/64/71	64/67/72	64/67/72
	4-pipes	dB(A)	53/59/62	52/64/71	52/64/71	52/64/71	64/67/72	64/67/72
Sound pressure ⁶⁾	2-pipes	dB(A)	33/39/42	31/45/51	31/45/51	31/45/51	44/48/52	44/48/52
	4-pipes	dB(A)	33/39/42	31/45/51	31/45/51	31/45/51	44/48/52	44/48/52
NR ⁶⁾	2-pipes		27/34/37	27/40/47	27/40/47	27/40/47	40/44/48	40/44/48
	4-pipes		27/34/37	27/40/47	27/40/47	27/40/47	40/44/48	40/44/48
Ventilation								
Number of fans			1	1	1	1	1	1
Filter			G3	G3	G3	G3	G3	G3
Air flow ⁵⁾	2-pipes	m ³ /h	703/977/1125	960/2112/2830	960/2112/2830	960/2112/2830	2040/2413/3436	2040/2413/3736
	4-pipes	m ³ /h	586/824/974	960/2112/2830	960/2112/2830	960/2112/2830	2040/2413/3436	2040/2413/3736
External static pressure	2-pipes	Pa	30/50/70	15/50/90	15/50/90	15/50/90	35/50/75	35/50/75
	4-pipes	Pa	25/50/70	15/50/90	15/50/90	15/50/90	35/50/75	35/50/75
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
Consumption		W	132/182/222	180/421/675	180/421/675	180/421/675	420/530/673	420/530/673
Electric heater		W	2000	3000	3000	3000	3000	3000
Water connections								
Connection type			Female gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
2-pipes		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-pipes		Inch	1/2	3/4	3/4	3/4	3/4	3/4
	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 1200 x 698	375 x 1380 x 798	375 x 1380 x 798	375 x 1380 x 798	450 x 1500 x 798	450 x 1500 x 798
Weight		kg	42	63	65	67	76	80

Energy efficiency class ⁷⁾

Flex Air fan coil – High static duct AC fan								
2-pipes	FCEER	A to E	D	D	D	D	D	D
	FCCOP	A to E	C	C	C	C	D	D
4-pipes	FCEER	A to E	D	D	D	D	D	D
	FCCOP	A to E	C	C	C	C	D	D

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) According to Eurovent 6/10 (air flow test method) and 8/12 (sound test method). 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB(A). 7) According to Eurovent. *Data with I configuration with rectangular return and discharge.



ErP compliant following COMMISSION REGULATION (EU) 2016/2281.



Flex Air fan coil – High static duct EC fan

Fan coil high static pressure ductable units with cooling and heating.

Cooling capacity: 3,2 to 21,9 kW.

Heating capacity: 2,5 to 24,1 kW.



Optional controller.
WRC remote control.



Optional controller.
SRC - mini BMS
controller.



Optional controller.
Electronic controller
TControl POD glass.



Optional controller.
Electronic controller
TControl EASY 3S.



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



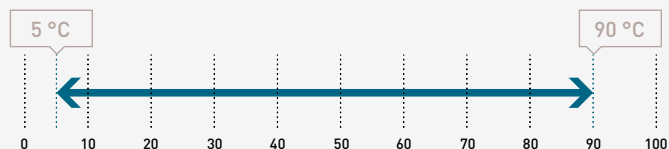
Optional controller.
Wired remote controller.
PAW-FC-903EC

SEE PAGE 8 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

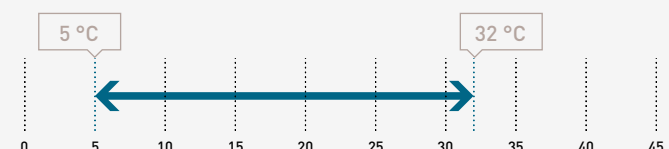


Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: <https://acselect.panasonic.eu/>

The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- Low energy consumption EC fan: 100% controllable via a 0-10 V signal or 3 operating speeds
- Air flow from 320 to 3568 m³/h
- High available static pressure up to 220 Pa
- Left or right water / electric connections

Advantages

- Excellent performances: FCEER and FCCOP up to "A"
- Very low acoustic level at low speed (double skin insulation available as an accessory)
- Selection of hydraulic and electric service side
- Ease of installation and maintenance
- 100% factory tested

Accessories and options

2W or 3W - 2 way or 3 way valves

Auxiliary drain pan

CB - Circuit breakers

PUMP - Drain pump

ERP - Double Skin - M0

ECO - Ecospeed 3 board (with terminal block)

EH - Electric heaters (from 1000 W to 3000 W)

RANØ100 or 125 - Fresh air intake

FH - Fuse holder

G3/G4 filter

Inlet and outlet plenums for circular ducts (Ø7 only)

C/O - Electromechanical sensor for automatic changeover

Other speeds configuration (standard factory set speeds in technical table)

Accessories supplied loose

Suspension kit

KIT Plogic - Kit Plogic control board

KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)

KIT MB2 - Kit Plogic Modbus board

SRC - Smart remote control - Mini building management system (only with Modbus RTU)

TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed

TCPOD WHITE (BLACK) 2P/4P - Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)

TCPOD WHITE (BLACK) 2P+EH - Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)

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

PAW-FC-903EC - Wired remote controller



Technical performance

Flex Air fan coil – High static duct EC fan			P-FH7	P-FH15	P-FH18	P-FH21	P-FH24	P-FH27
Fan speed ¹⁾			Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max	Min / Med / Max
2-pipes								
Total cooling capacity ²⁾	kW		3,26/4,90/5,88	7,93/10,1/11,1	8,98/11,7/12,8	9,79/12,7/13,9	10,6/16,1/17,6	11,7/18,1/19,9
Sensible capacity ²⁾	kW		2,05/3,59/4,56	6,08/8,05/8,9	6,71/9,02/10	7,14/9,55/10,60	7,84/12,4/13,7	8,43/13,6/15,1
Water flow ²⁾	l/h		562/844/1013	1369/1744/1917	1551/2020/2210	1690/2193/2400	1826/2780/3039	2022/3125/3436
Water pressure drop ²⁾	kPa		15/33,5/48,1	13,2/19,8/23	9,1/14,2/16,7	10,2/15,4/17,9	8,04/18,4/21,4	7,58/19,1/22,5
Heating capacity ³⁾	kW		2,47/5,61/9,26	8,66/11,7/13	9,48/13,1/14,6	9,99/14,1/15,8	10,9/17,6/19,5	11,6/19,1/21,4
Water flow ³⁾	l/h		425/966/1595	1495/2020/2245	1637/2262/2521	1725/2435/2728	1872/3039/3367	1993/3298/3695
Water pressure drop ³⁾	kPa		7,2/33,7/89,0	12,2/20,6/24,9	8,2/14,2/17,3	8,3/15/18,5	10,9/21,5/25,8	6,38/17,1/20,9
4-pipes								
Total cooling capacity ²⁾	kW		3,22/4,74/5,54	6,57/8,21/8,91	7,4/9,26/10	8,92/11,3/12,4	9,51/14/15,2	10,2/15,3/16,8
Sensible capacity ²⁾	kW		2,12/3,48/4,25	5,2/6,76/7,43	5,7/7,48/8,24	6,66/8,75/9,64	7,13/11/12,1	7,52/11,8/13,1
Water flow ²⁾	l/h		555/817/954	1134/1418/1538	1278/1599/1727	1540/1951/2141	1642/2417/2624	1761/2642/2901
Water pressure drop ²⁾	kPa		20,6/41,4/55,3	6,6/10,2/12	8/11,2/12,7	11,2/16,7/19,4	9,4/18,7/21,9	6,6/13,9/16,4
Heating capacity ⁴⁾	kW		3,93/6,81/9,05	5,85/7,45/8,13	10/12,9/14,2	10/11,9/14,2	8/11,9/13	7,71/11,7/12,9
Water flow ⁴⁾	l/h		338/586/779	505/643/702	863/1114/1226	863/1114/1226	691/1027/1122	666/1010/1114
Water pressure drop ⁴⁾	kPa		5,6/12,5/19,5	14,1/21,4/25	28,7/43,6/51	22,8/34,8/40,8	13,5/27,5/32,1	5,2/11,3/13,4
Sound levels								
Sound power return - radiated ⁵⁾	2-pipes	dB(A)	54/60/63	56/65/67	56/65/67	56/65/67	67/69/73	67/69/73
	4-pipes	dB(A)	54/60/63	56/65/67	56/65/67	56/65/67	58/69/73	58/69/73
Sound power - discharge ⁵⁾	2-pipes	dB(A)	53/59/62	56/64/65	56/64/65	56/64/65	66/67/72	66/67/72
	4-pipes	dB(A)	53/59/62	56/64/65	56/64/65	56/64/65	58/67/72	58/67/72
Sound pressure ⁶⁾	2-pipes	dB(A)	33/39/42	35/44/46	35/44/46	35/44/46	37/48/52	37/48/52
	4-pipes	dB(A)	33/39/42	35/44/46	35/44/46	35/44/46	37/48/52	37/48/52
NR ⁶⁾	2-pipes		27/34/37	31/40/42	31/40/42	31/40/42	33/44/48	33/44/48
	4-pipes		27/34/37	31/40/42	31/40/42	31/40/42	33/44/48	33/44/48
Ventilation								
Number of fans			1	1	1	1	1	1
Filter			G3	G3	G3	G3	G3	G3
Air flow ⁵⁾	2-pipes	m ³ /h	347/849/1293	1360/2044/2335	1360/2044/2335	1360/2044/2335	1519/2700/3098	1519/2700/3098
	4-pipes	m ³ /h	320/803/1229	1360/2044/2335	1360/2044/2335	1360/2044/2335	1519/2700/3098	1519/2700/3098
External static pressure	2-pipes	Pa	8/50/116	22/50/65	22/50/65	22/50/65	16/50/66	16/50/66
	4-pipes	Pa	8/50/117	22/50/65	22/50/65	22/50/65	16/50/66	16/50/66
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
Consumption	2-pipes	W	10/62/197	61/172/246	61/172/246	61/172/246	57/237/364	57/237/364
	4-pipes	W	10/60/189	61/172/246	61/172/246	61/172/246	57/237/364	57/237/364
Electric heater	W		2000	3000	3000	3000	3000	3000
Water connections								
Connection type			Female gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
2-pipes	Inch		½	1	1 ¼	1 ¼	1 ¼	1 ¼
4-pipes	Cooling	Inch	½	1	1	1	1 ¼	1 ¼
	Heating	Inch	½	¾	¾	¾	¾	¾
Dimension and weight								
Dimension	H x W x D	mm	250 x 1200 x 698	375 x 1380 x 798	375 x 1380 x 798	375 x 1380 x 798	450 x 1500 x 798	450 x 1500 x 798
Weight	kg		42	63	65	67	76	80

Energy efficiency class ⁷⁾

Flex Air fan coil – High static duct EC fan				
2-pipes	FCEER	A to E	—	A
	FCCOP	A to E	—	A
4-pipes	FCEER	A to E	—	B
	FCCOP	A to E	—	B

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) According to Eurovent 6/10 (air flow test method) and 8/12 (sound test method). 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 7) According to Eurovent. *Data with I configuration with rectangular return and discharge.



ErP compliant following COMMISSION REGULATION (EU) 2016/2281.



Flex Air fan coils controllers

Panasonic has a wide, technological range of controllers and control systems suitable for installation within a wide variety of locations such as office, hotel, and residential applications. These controllers are compatible with AC and EC fans and allow users to take advantage of the improved performance and efficiency and thus energy savings. Most of our controllers have an intuitive user interface to easily setup the desired configurations.



1 Individual controllers

Thanks to these controllers it is possible to control one fan coil unit individually. All our controllers fall into this category. Depending on the model, they can have different features: possibility to set the desired temperature, compatibility with AC and EC fans, LCD display, wall or unit mounting.

2 Group controllers

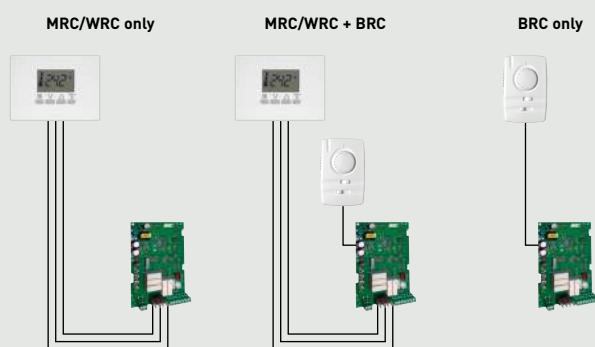
These controllers allow the control of more than one fan coil unit per controller but maintaining the same fan and temperature settings (a slight temperature variation is possible within the same zone). Plogic is the Panasonic group controller that allows you to control multiple units with a single control.

3 Centralized and group controller

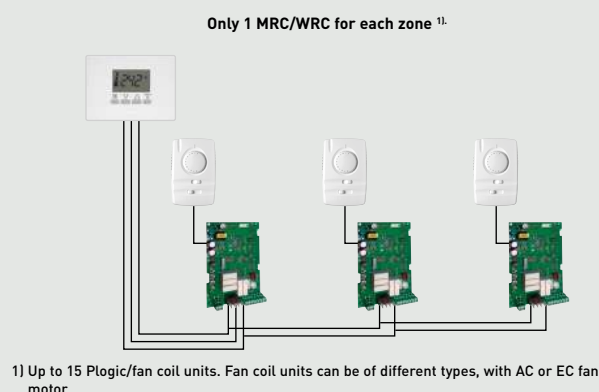
Due to the advanced technical capability, it is possible to control different climatic zones with different settings and ambient conditions. The combination of Plogic + BMS and SRC are the perfect example for this type of control.

Plogic (zone controller) with remote control.

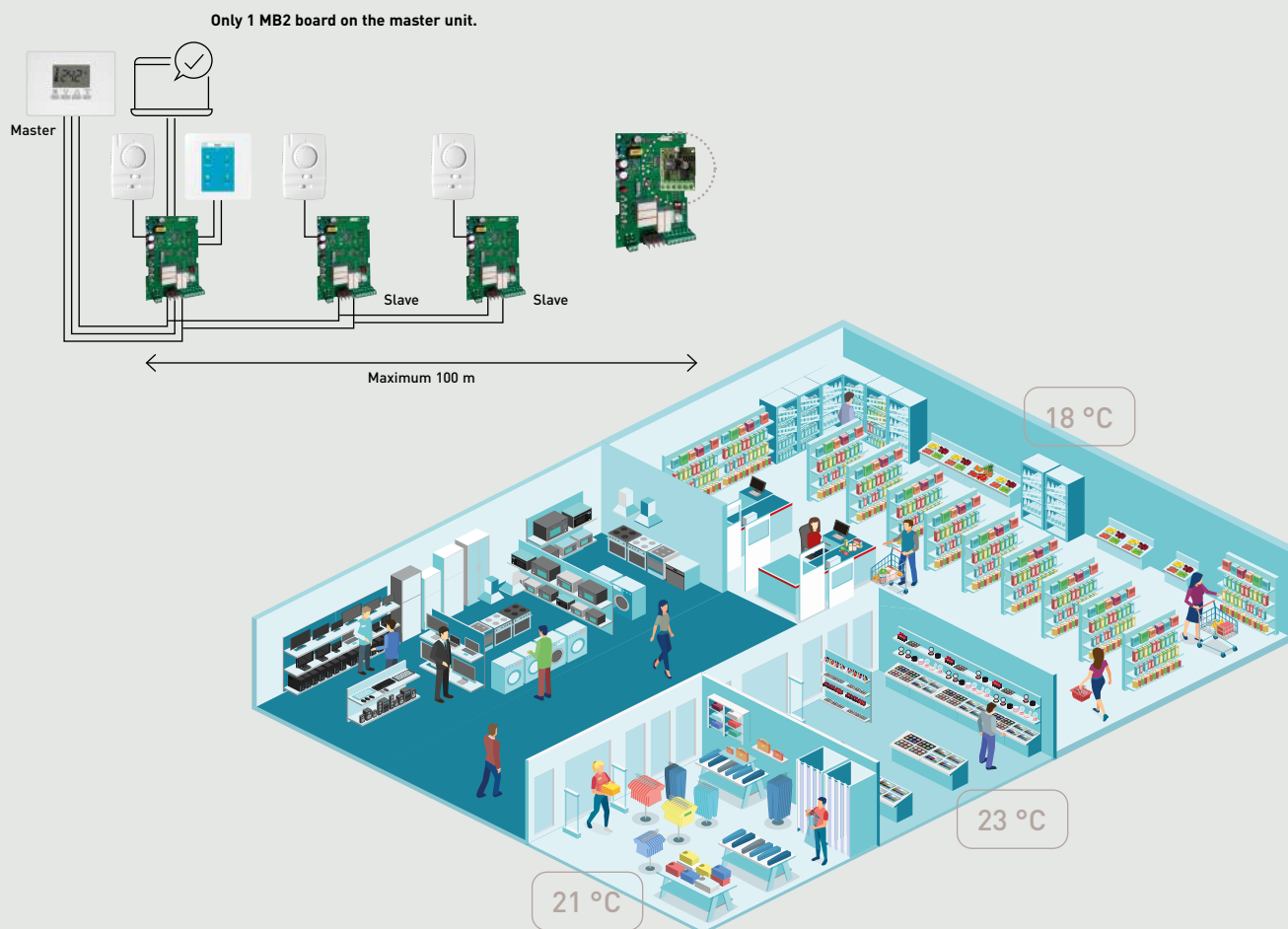
1| Plogic. Different individual control possibilities.



2| Plogic. Group control (without BMS).



3| Centralized and group control with BMS and SRC.



Flex Air control systems

Flex Air Smart fan coils controls

	Individual controllers				Centralised controllers		
							
	CZ-RTC6WBLW2 / CZ-RTC6BLW2	CZ-RTC5B	CZ-RWS3**	PAW-FC-903EC / PAW-FC-907EC	CZ-ANC3	CZ-64ESMC3	CZ-256ESMC3
2-pipes / 4-pipes compatibility	✓	✓	✓	✓	✓	✓	✓
BMS connection	✗	✗	✗	Modbus	✗	✗	✗
SRC mini BMS compatibility	✗	✗	✗	✓	✗	✗	✗
Operation mode setting	Manual / Auto	Manual / Auto	Manual / Auto	Manual	Only ON / OFF	✓	✓
Fan control	✓	✓	✓	0-10 V	✗	✓	✓
Fan speed selection	Manual / Auto	Manual / Auto	Manual / Auto	Manual / Auto	✗	Manual / Auto	Manual / Auto
Fan operations	Cyclic ¹⁾	Cyclic ¹⁾	Cyclic ¹⁾	Continuous ²⁾ or cyclic ¹⁾	✗	Cyclic ¹⁾	Cyclic ¹⁾
Motorised flap control	✓	✓	✓	✗	✗	✓	✓
Weekly timer	✓ With app	✓	✓ With app + Wi-Fi adapter	✗	✗	✓	✓
Grouping	Up to 8 units	Up to 8 units	Up to 8 units	✗	✗	Up to 64 units	Up to 256 units
nanoe™ X function	✓	✓	✓	✗	✗	✗	✗
Econavi function	✓	✓	✓	✗	✗	✓	✓
Panasonic Comfort Cloud App	✓	✗	✓ With app + Wi-Fi adapter	✗	✗	✗	✗
Mounting type	Wall	Wall	Infrared	Wall	Wall	Wall	Wall
Fan coils compatibility	FK1 and FF1	FK1	FK1 and FF1	FK1 and FF1	FK1	FK1	FK1

1) Cyclic: fan operates in minimum fan speed after the set point is reached. 2) Continuous: fan continues running after the set point is reached. *Electrical heaters maximum power may vary according to the controller without a relay. **The Econavi function is only available when the optional part CZ-CENS1 is installed.

Commercial Smart Edge.

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.

Model code	Control points	Indoor unit connections ¹⁾
PAW-CSE-1B	100	4
PAW-CSE-2B	200	10
PAW-CSE-10	1000	50
PAW-CSE-20	2000	100

1) The final number of connected indoor units may vary depending on the range. *For the detail information, please contact an authorised Panasonic dealer.





P-SMART EDGE

P-Smart Edge*.
A powerful smart control platform designed for single-site installations, giving you seamless management of the complete Panasonic HVAC range.



*Edge controller box (PAW-CSE**) is required.



P-Smart Nexus

P-Smart Nexus*.
An online multi-site control solution that provides remote, centralised supervision of all your locations worldwide.



Flex Air fan coils controls

		Individual controllers						
								
		Plogic	Tcontrol Easy	T-CONTROL POD	PAW-FC-903EC PAW-FC-907EC	PAW-FC-903AC PAW-FC-907AC	PAW-FC-RC1	TRM-FA
2-pipes / 4-pipes compatibility	2-pipes (cooling or heating)	✓	✓	✓	✓	✓	✓	✓
	2-pipes heat pump	✓	✓	✓	✗	✗	✗	✓
	2-pipes cooling + electric heater (<2000 W)	✓	✗	✓	✗	✗	✗	✓
	2-pipes heat pump + electric heater (<2000 W)	✓	✗	✗	✗	✗	✗	✗
	4-pipes	✓	✓	✓	✓	✗	✓	✓
BMS connection		Modbus (with MB2 card)	✗	Modbus	Modbus	✗	Modbus	✗
SRC mini BMS compatibility		✓	✗	✓	✓	✗	✓	✗
Operation mode setting		Manual / Auto ¹⁾	Manual / Auto ¹⁾	Manual / Auto ¹⁾ / Centralised	Manual	Manual	Manual / Auto	Manual
Fan control	EC	0-10 V	Ecospeed card	0-10 V	0-10 V	✗	Ecospeed card	Ecospeed card
	AC	✓	✓	✓	✗	✓	✓	✓
Fan speed selection		Manual / Auto	Manual / Auto	Manual / Auto	Manual / Auto	Manual / Auto	Manual / Auto	Manual
Fan operations		Continuous ³⁾ or cyclic ²⁾	Continuous ³⁾ or cyclic ²⁾	Continuous ³⁾ or cyclic ²⁾	Continuous ³⁾ or cyclic ²⁾	Continuous ³⁾ or cyclic ²⁾	✗	Cyclic ²⁾
Weekly timer		✗	✗	✓	✗	✗	✗	✗
Grouping		Up to 15 units	✗	✗	✗	✗	✗	✗
Valve compatibility	ON / OFF 230 V	✓	✓	✓	✓	✓	✓	✓
Mounting type		Unit	Wall	Wall	Wall	Wall	Wall	Wall
Fan coils compatibility		FC, FQ, FW, FD and FH	FC, FQ, FW, FD and FH	FC, FQ, FW, FD and FH	FC, FQ, and, FD	FC, FQ, FW and FH	FC, FQ, FW and FH	FC, FQ, FW, FD and FH

1) Changeover Auto with water pipe sensor. 2) Cyclic: fan stops when the set point is reached. 3) Continuous: fan continues running after the set point is reached. *Electrical heaters maximum power may vary according to the controller without a relay.

Remote controls.

Plogic. Wall mounting (surface) or mounted on the unit.



WRC / MRC ¹⁾



BRC



IRC ¹⁾

1) Integrated temperature sensor.

SRC - mini BMS controller.

Smart controller. Mini building management system.

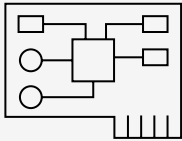
- Can be used as a mini BMS or a remote control
- Manage up to 15 zones and 31 units
- Communicate via Modbus protocol
- Time programming function



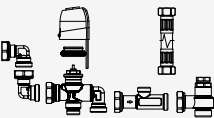
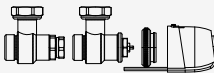
Accessories and control - Aquarea Air Smart fan coils

Aquarea Air Smart fan coil – Floor standing accessories

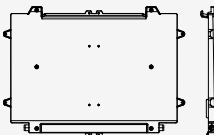
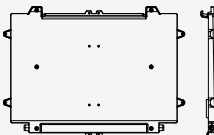
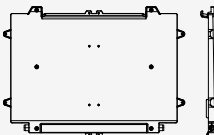
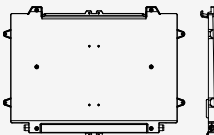
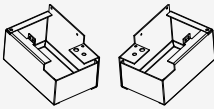
Control accessories

					
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.	Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.	Wall-mounted control PCB for Aquarea Air Smart fan coil – Floor standing.	On-board display with Modbus for Aquarea Air Smart fan coil – Floor standing.	On-board display with integrated Wi-Fi for Aquarea Air Smart fan coil – Floor standing.	PCB for analog control (0-10V) for Aquarea Air Smart fan coil – Floor standing.
----- PCZ-EEB749	----- PCZ-EFB749	----- PCZ-ESE845	----- PCZ-ECA844	----- PCZ-EWA844	----- PCZ-B10842

Hydraulic accessories

	
3 way valve with motor for Aquarea Air Smart fan coil – Floor standing.	2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.
----- PCZ-V30720	----- PCZ-V20139

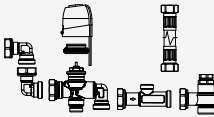
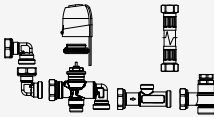
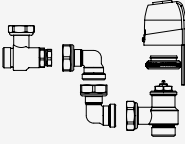
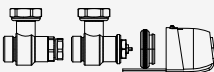
Installation accessories

					
Condensate drip tray for horizontal installation. For P-FAL10.	Condensate drip tray for horizontal installation. For P-FAL20.	Condensate drip tray for horizontal installation. For P-FAL30.	Condensate drip tray for horizontal installation. For P-FAL35.	Set of 2 legs to protect water pipes for Aquarea Air Smart fan coil – Floor standing.	Set of 2 legs to anchor the Aquarea Air Smart fan coil – Floor standing to the floor.
----- PCZ-GB0520	----- PCZ-GB0521	----- PCZ-GB0522	----- PCZ-GB0523	----- PCZ-LC0158	----- PCZ-LC0606
Condensate drip tray for horizontal installation. For P-FAL40.					
----- PCZ-GB0524					

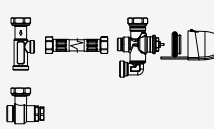
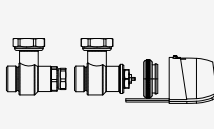
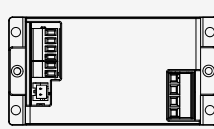
Aquarea Air Smart fan coil wall-mounted accessories

Control accessories

Hydraulic accessories

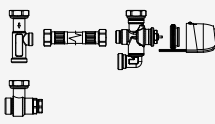
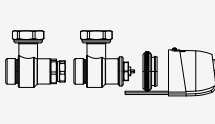
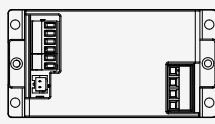
					
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.	Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.	3 way valve with motor for Aquarea Air wall-mounted 10, 15 and 20.	3 way valve with motor for Aquarea Air wall-mounted 40.	2 way valve with motor for Aquarea Air wall-mounted 10, 15 and 20.	2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.
----- PCZ-EEB749	----- PCZ-EFB749	----- PCZ-V30688	----- PCZ-V30718	----- PCZ-V20687	----- PCZ-V20139

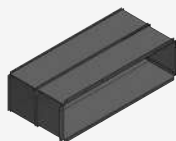
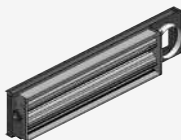
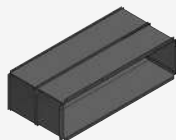
Aquarea Air Smart fan coil – Ducted thin accessories

Control accessories			Hydraulic accessories		
					
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.	Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.	3 way valve with motor for Aquarea Air Smart fan coil – Ducted.	2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.	PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.	
PCZ-EEB749	PCZ-EFB749	PCZ-V30361	PCZ-V20139	PCZ-EG1028	
Replacement recirculation filter kit	Delivery plates	Return plenum	90° shooting plenum	Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm	Grille for telescopic kit for rear intake
					
For P-FSN20 and P-FTN15.	With 2 circular inlets DN 160 mm. For P-FTN15.	With 2 circular inlets DN 160 mm. For P-FTN15.	For P-FTN15.	For P-FTN15.	For P-FTN15.
PCZ-AHRD0491	PCZ-AHRD0561	PCZ-AHRD0566	PCZ-AHRD0576	PCZ-AHRD0581	PCZ-AHRD0586
For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30.	With 3 circular inlets DN 160 mm. For P-FTN20.	With 3 circular inlets DN 160 mm. For P-FTN20.	For P-FTN20 and P-FTQ30.	For P-FTN20.	For P-FTN20.
PCZ-AHRD0492	PCZ-AHRD0562	PCZ-AHRD0567	PCZ-AHRD0577	PCZ-AHRD0582	PCZ-AHRD0587
For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45.	With 4 circular inlets DN 160 mm. For P-FTN25.	With 4 circular inlets DN 160 mm. For P-FTN25.	For P-FTN25 and P-FTQ45.	For P-FTN25.	For P-FTN25.
PCZ-AHRD0493	PCZ-AHRD0563	PCZ-AHRD0568	PCZ-AHRD0578	PCZ-AHRD0583	PCZ-AHRD0588
For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60.	With 6 circular inlets DN 160 mm. For P-FTN35.	With 6 circular inlets DN 160 mm. For P-FTN35.	For P-FTN35 and P-FTQ60.	For P-FTN35.	For P-FTN35.
PCZ-AHRD0494	PCZ-AHRD0564	PCZ-AHRD0569	PCZ-AHRD0579	PCZ-AHRD0584	PCZ-AHRD0589
For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65.	With 7 circular inlets DN 160 mm. For P-FTN45.	With 7 circular inlets DN 160 mm. For P-FTN45.	For P-FTN45 and P-FTQ65.	For P-FTN45.	For P-FTN45.
PCZ-AHRD0495	PCZ-AHRD0565	PCZ-AHRD0570	PCZ-AHRD0580	PCZ-AHRD0585	PCZ-AHRD0590

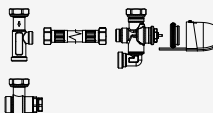
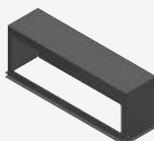
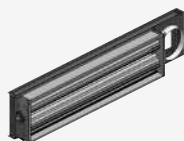
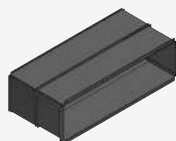
Plenum kit for external air connection with damper for room recirculation	Ducting plate plenum kit for outdoor air connection with damper	90° plenum for outdoor air kit with damper	Telescopic kit. For plenum for outdoor air kit with damper	Grille for telescopic kit. For plenum for outdoor air kit with damper
				
For P-FTN15. ----- PCZ-AHRD0571	For P-FTN15. ----- PCZ-AHRD0611	For P-FTN15. ----- PCZ-AHRD0616	For P-FTN15. ----- PCZ-AHRD0621	For P-FTN15. ----- PCZ-AHRD0626
For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0572	For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0612	For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0617	For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0622	For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0627
For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0573	For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0613	For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0618	For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0623	For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0628
For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0574	For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0614	For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0619	For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0624	For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0629
For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0575	For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0615	For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0620	For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0625	For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0630

Aquarea Air Smart fan coil – Ducted accessories

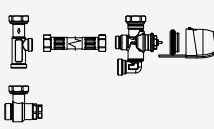
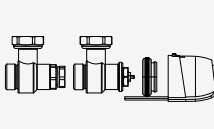
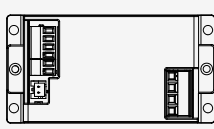
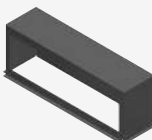
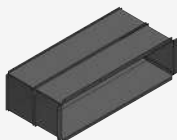
Control accessories		Hydraulic accessories		
				
Wall-mounted control with Modbus for Aquarea Air Smart fan coils. ----- PCZ-EEB749	Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils. ----- PCZ-EFB749	3 way valve with motor for Aquarea Air Smart fan coil – Ducted. ----- PCZ-V30361	2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted. ----- PCZ-V20139	PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749. ----- PCZ-EG1028

Replacement recirculation filter kit	Delivery plates	Return plenum	90° shooting plenum	Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm	Grille for telescopic kit for rear intake
 For P-FSN20 and P-FTN15. ----- PCZ-AHRD0491 For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30. ----- PCZ-AHRD0492 For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45. ----- PCZ-AHRD0493 For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60. ----- PCZ-AHRD0494 For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65. ----- PCZ-AHRD0495	 With 2 circular inlets DN 160 mm. For P-FSN20. ----- PCZ-AHRD0431 With 3 circular inlets DN 160 mm. For P-FSN25. ----- PCZ-AHRD0432 With 4 circular inlets DN 160 mm. For P-FSN35. ----- PCZ-AHRD0433 With 6 circular inlets DN 160 mm. For P-FSN45. ----- PCZ-AHRD0434 With 7 circular inlets DN 160 mm. For P-FSN55. ----- PCZ-AHRD0435	 With 2 circular inlets DN 160 mm. For P-FSN20. ----- PCZ-AHRD0461 With 3 circular inlets DN 160 mm. For P-FSN25. ----- PCZ-AHRD0462 With 4 circular inlets DN 160 mm. For P-FSN35. ----- PCZ-AHRD0463 With 6 circular inlets DN 160 mm. For P-FSN45. ----- PCZ-AHRD0464 With 7 circular inlets DN 160 mm. For P-FSN55. ----- PCZ-AHRD0465	 For P-FSN20. ----- PCZ-AHRD0521 For P-FSN25 and P-FSQ30. ----- PCZ-AHRD0522 For P-FSN35 and P-FSQ45. ----- PCZ-AHRD0523 For P-FSN45 and P-FSQ60. ----- PCZ-AHRD0524 For P-FSN55 and P-FSQ75. ----- PCZ-AHRD0525	 For P-FSN20. ----- PCZ-AHRD0531 For P-FSN25. ----- PCZ-AHRD0532 For P-FSN35. ----- PCZ-AHRD0533 For P-FSN45. ----- PCZ-AHRD0534 For P-FSN55. ----- PCZ-AHRD0535	 For P-FSN20. ----- PCZ-AHRD0541 For P-FSN25. ----- PCZ-AHRD0542 For P-FSN35. ----- PCZ-AHRD0543 For P-FSN45. ----- PCZ-AHRD0544 For P-FSN55. ----- PCZ-AHRD0545
Plenum kit for external air connection with damper for room recirculation		Ducting plate plenum kit for outdoor air connection with damper	90° plenum for outdoor air kit with damper	Telescopic kit. For plenum for outdoor air kit with damper	Grille for telescopic kit. For plenum for outdoor air kit with damper
 For P-FSN20. ----- PCZ-AHRD0639 For P-FSN25 and P-FSQ30. ----- PCZ-AHRD0640 For P-FSN35 and P-FSQ45. ----- PCZ-AHRD0641 For P-FSN45 and P-FSQ60. ----- PCZ-AHRD0642 For P-FSN55 and P-FSQ75. ----- PCZ-AHRD0643		 For P-FSN20. ----- PCZ-AHRD0651 For P-FSN25 and P-FSQ30. ----- PCZ-AHRD0652 For P-FSN35 and P-FSQ45. ----- PCZ-AHRD0653 For P-FSN45 and P-FSQ60. ----- PCZ-AHRD0654 For P-FSN55 and P-FSQ75. ----- PCZ-AHRD0655	 For P-FSN20. ----- PCZ-AHRD0656 For P-FSN25 and P-FSQ30. ----- PCZ-AHRD0657 For P-FSN35 and P-FSQ45. ----- PCZ-AHRD0658 For P-FSN45 and P-FSQ60. ----- PCZ-AHRD0659 For P-FSN55 and P-FSQ75. ----- PCZ-AHRD0660	 For P-FSN20. ----- PCZ-AHRD0661 For P-FSN25 and P-FSQ30. ----- PCZ-AHRD0662 For P-FSN35 and P-FSQ45. ----- PCZ-AHRD0663 For P-FSN45 and P-FSQ60. ----- PCZ-AHRD0664 For P-FSN55 and P-FSQ75. ----- PCZ-AHRD0665	 For P-FSN20. ----- PCZ-AHRD0666 For P-FSN25 and P-FSQ30. ----- PCZ-AHRD0667 For P-FSN35 and P-FSQ45. ----- PCZ-AHRD0668 For P-FSN45 and P-FSQ60. ----- PCZ-AHRD0669 For P-FSN55 and P-FSQ75. ----- PCZ-AHRD0670

Aquarea Air Smart fan coil – Ducted multi zone thin accessories

Control accessories		Hydraulic accessories			
					
Wall-mounted control with Modbus for Aquarea Air Smart fan coils. ----- PCZ-EEB749	Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils. ----- PCZ-EFB749	3 way valve with motor for Aquarea Air Smart fan coil – Ducted. ----- PCZ-V30361	2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted. ----- PCZ-V20139	PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749. ----- PCZ-EG1028	
Replacement recirculation filter kit		Return plenum		90° shooting plenum	
					
For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30. ----- PCZ-AHRD0492		With 2 circular inlets DN 160 mm. For P-FTQ30. ----- PCZ-AHRD0682		For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0577	
For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45. ----- PCZ-AHRD0493		With 3 circular inlets DN 160 mm. For P-FTQ45. ----- PCZ-AHRD0683		For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0578	
For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60. ----- PCZ-AHRD0494		With 4 circular inlets DN 160 mm. For P-FTQ60. ----- PCZ-AHRD0684		For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0579	
For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65. ----- PCZ-AHRD0495		With 5 circular inlets DN 160 mm. For P-FTQ65. ----- PCZ-AHRD0685		For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0580	
Plenum kit for external air connection with damper for room recirculation	Ducting plate plenum kit for outdoor air connection with damper	90° plenum for outdoor air kit with damper	Telescopic kit. For plenum for outdoor air kit with damper	Grille for telescopic kit. For plenum for outdoor air kit with damper	Non-return damper
					
For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0572	For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0612	For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0617	For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0622	For P-FTN20 and P-FTQ30. ----- PCZ-AHRD0627	Non-return damper. For P-FTQ and P-FSQ. ----- PCZ-AHRD0519
For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0573	For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0613	For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0618	For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0623	For P-FTN25 and P-FTQ45. ----- PCZ-AHRD0628	
For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0574	For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0614	For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0619	For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0624	For P-FTN35 and P-FTQ60. ----- PCZ-AHRD0629	
For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0575	For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0615	For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0620	For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0625	For P-FTN45 and P-FTQ65. ----- PCZ-AHRD0630	

Aquarea Air Smart fan coil – Ducted multi zone accessories

Control accessories		Hydraulic accessories		
 <p>Wall-mounted control with Modbus for Aquarea Air Smart fan coils.</p> <p>----- PCZ-EEB749</p>	 <p>Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.</p> <p>----- PCZ-EFB749</p>	 <p>3 way valve with motor for Aquarea Air Smart fan coil – Ducted.</p> <p>----- PCZ-V30361</p>	 <p>2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.</p> <p>----- PCZ-V20139</p>	 <p>PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.</p> <p>----- PCZ-EG1028</p>
Replacement recirculation filter kit	Return plenum	90° shooting plenum	Plenum kit for external air connection with damper for room recirculation	
 <p>For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30.</p> <p>----- PCZ-AHRD0492</p> <p>For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45.</p> <p>----- PCZ-AHRD0493</p> <p>For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60.</p> <p>----- PCZ-AHRD0494</p> <p>For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65.</p> <p>----- PCZ-AHRD0495</p>	 <p>With 2 circular inlets DN 160 mm. For P-FSQ30.</p> <p>----- PCZ-AHRD0466</p> <p>With 3 circular inlets DN 160 mm. For P-FSQ45.</p> <p>----- PCZ-AHRD0467</p> <p>With 4 circular inlets DN 160 mm. For P-FSQ60.</p> <p>----- PCZ-AHRD0468</p> <p>With 5 circular inlets DN 160 mm. For P-FSQ75.</p> <p>----- PCZ-AHRD0469</p>	 <p>For P-FSN25 and P-FSQ30.</p> <p>----- PCZ-AHRD0522</p> <p>For P-FSN35 and P-FSQ45.</p> <p>----- PCZ-AHRD0523</p> <p>For P-FSN45 and P-FSQ60.</p> <p>----- PCZ-AHRD0524</p> <p>For P-FSN55 and P-FSQ75.</p> <p>----- PCZ-AHRD0525</p>	 <p>For P-FSN25 and P-FSQ30.</p> <p>----- PCZ-AHRD0640</p> <p>For P-FSN35 and P-FSQ45.</p> <p>----- PCZ-AHRD0641</p> <p>For P-FSN45 and P-FSQ60.</p> <p>----- PCZ-AHRD0642</p> <p>For P-FSN55 and P-FSQ75.</p> <p>----- PCZ-AHRD0643</p>	
90° plenum for outdoor air kit with damper	Telescopic kit. For plenum for outdoor air kit with damper	Grille for telescopic kit. For plenum for outdoor air kit with damper	Non-return damper	
 <p>For P-FSN25 and P-FSQ30.</p> <p>----- PCZ-AHRD0657</p> <p>For P-FSN35 and P-FSQ45.</p> <p>----- PCZ-AHRD0658</p> <p>For P-FSN45 and P-FSQ60.</p> <p>----- PCZ-AHRD0659</p> <p>For P-FSN55 and P-FSQ75.</p> <p>----- PCZ-AHRD0660</p>	 <p>For P-FSN25 and P-FSQ30.</p> <p>----- PCZ-AHRD0662</p> <p>For P-FSN35 and P-FSQ45.</p> <p>----- PCZ-AHRD0663</p> <p>For P-FSN45 and P-FSQ60.</p> <p>----- PCZ-AHRD0664</p> <p>For P-FSN55 and P-FSQ75.</p> <p>----- PCZ-AHRD0665</p>	 <p>For P-FSN25 and P-FSQ30.</p> <p>----- PCZ-AHRD0667</p> <p>For P-FSN35 and P-FSQ45.</p> <p>----- PCZ-AHRD0668</p> <p>For P-FSN45 and P-FSQ60.</p> <p>----- PCZ-AHRD0669</p> <p>For P-FSN55 and P-FSQ75.</p> <p>----- PCZ-AHRD0670</p>	 <p>Non-return damper. For P-FTQ and P-FSQ.</p> <p>----- PCZ-AHRD0519</p>	

Control – Flex Air Smart fan coils

Flex Air Smart fan coil – Wall-mounted

 <p>CONEX wired remote controller (non-wireless), white.</p> <p>-----</p> <p>CZ-RTC6W</p>	 <p>CONEX wired remote controller with Bluetooth®, white.</p> <p>-----</p> <p>CZ-RTC6WBL</p>	 <p>CONEX wired remote controller with Wi-Fi and Bluetooth®, white.</p> <p>-----</p> <p>CZ-RTC6WBLW2</p>	 <p>CONEX wired remote controller (non-wireless), black.</p> <p>-----</p> <p>CZ-RTC6</p>	 <p>CONEX wired remote controller with Bluetooth®, black.</p> <p>-----</p> <p>CZ-RTC6BL</p>	 <p>CONEX wired remote controller with Wi-Fi and Bluetooth®, black.</p> <p>-----</p> <p>CZ-RTC6BLW2</p>
 <p>Design wired remote controller with Econavi function.</p> <p>-----</p> <p>CZ-RTC5B</p>	 <p>Infrared remote controller.</p> <p>-----</p> <p>CZ-RWS3</p>	 <p>Econavi energy saving sensor.</p> <p>-----</p> <p>CZ-CENSC1</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>System controller for 64 indoor units with weekly timer.</p> <p>-----</p> <p>CZ-64ESMC3</p>	 <p>Intelligent controller (touch screen/web server) to control up to 256 indoors with included load distribution ratio (LDR).</p> <p>-----</p> <p>CZ-256ESMC3</p>		 <p>Central ON / OFF controller, up to 16 groups, 64 indoor units.</p> <p>-----</p> <p>CZ-ANC3</p>		

Flex Air Smart fan coil – Medium static pressure duct

 <p>Smart controller. Mini building management system, up to 15 zones and 31 units.</p> <p>-----</p> <p>SRC</p>	 <p>CONEX wired remote controller (non-wireless), white.</p> <p>-----</p> <p>CZ-RTC6W</p>	 <p>CONEX wired remote controller with Bluetooth®, white.</p> <p>-----</p> <p>CZ-RTC6WBL</p>	 <p>CONEX wired remote controller with Wi-Fi and Bluetooth®, white.</p> <p>-----</p> <p>CZ-RTC6WBLW2</p>	 <p>CONEX wired remote controller (non-wireless), black.</p> <p>-----</p> <p>CZ-RTC6</p>	 <p>CONEX wired remote controller with Bluetooth®, black.</p> <p>-----</p> <p>CZ-RTC6BL</p>
 <p>CONEX wired remote controller with Wi-Fi and Bluetooth®, black.</p> <p>-----</p> <p>CZ-RTC6BLW2</p>	 <p>Infrared remote controller and receiver for all indoor units.</p> <p>-----</p> <p>CZ-RWS3 + CZ-RWRC3</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>		

Control – Flex Air fan coils

Flex Air fan coils



Electro-mechanical controller (supplied loose).

TRM-FA



Electronic controller.

Plogic



Electronic controller.

TControl EASY 3S



Electronic controller.

TControl POD glass



Wired remote controller with touch control for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

PAW-FC-907EC



Wired remote controller for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

PAW-FC-903EC



Advanced wired remote controller for fan coil.

PAW-FC-RC1



Smart controller. Mini building management system, up to 15 zones and 31 units.

SRC



Plogic remote control with integrated temperature sensor.

WRC / MRC



Plogic remote control.

BRC



Plogic remote control with integrated temperature sensor.

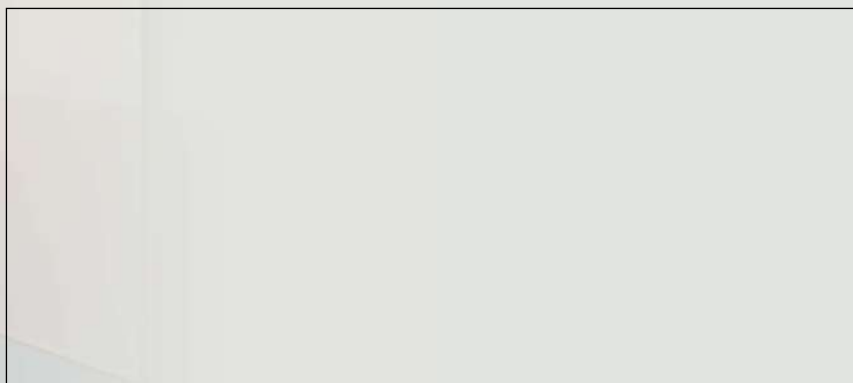
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The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.



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