Panasonic

HYDRONICS FAN COIL GUIDE 1.1

heating & cooling solutions

Fan Coil Guide

This Panasonic Fan Coil Unit (FCU) Technical Handbook provides comprehensive technical information, performance data, and application guidance for the Panasonic range of fan coil units.

It is intended for use by consulting engineers, designers, contractors, and service personnel involved in the specification, installation, and maintenance of Panasonic HVAC systems.

Panasonic's FCU range has been developed to deliver high energy efficiency, low noise levels, and reliable performance, while maintaining the flexibility required to suit a wide range of commercial and residential applications.

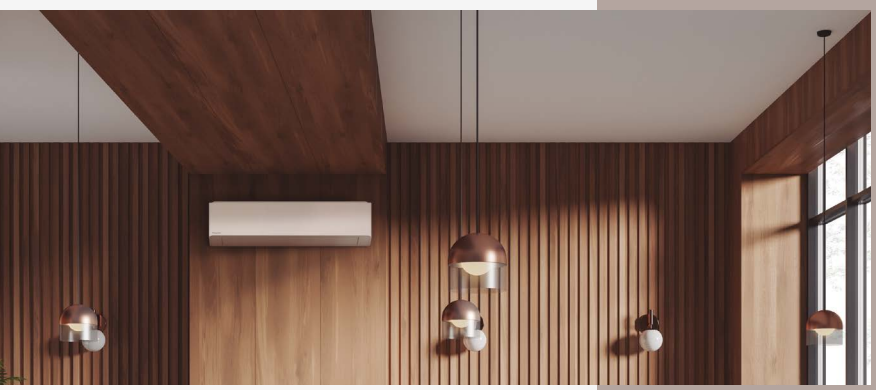
This handbook consolidates all essential information to support correct product selection, system design, and ongoing maintenance practices.

Included within this document are detailed sections on unit specifications, performance characteristics, dimensions, electrical data, installation requirements, and control options.

Each section has been prepared to ensure that Panasonic FCUs can be applied and maintained in accordance with best industry practice and the company's own quality standards.

All data contained in this handbook are based on Panasonic's latest product developments and verified test results.

In line with Panasonic's policy of continuous product improvement, specifications may be subject to change without prior notice



Contents

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 condition.

Panasonic has been a leading name in heating, cooling, ventilation and refrigeration equipment for decades, building on its long history of innovation in electronics and home appliances. We company first entered the HVAC market in the 1950s in Japan and have since grown into one of the world's largest suppliers of residential, commercial, and industrial air conditioning solutions.

Our product portfolio includes:

- Air-to-Water heat pumps for both the residential and commercial sector
- Split systems (RAC and PAC including multi-split systems)
- Variable Refrigerant Flow (VRF) systems
- Residential and commercial ventilation
- Commercial Hydronic products including chillers, heat pumps, fan coil units and water source heat pumps
- Close control
- Refrigeration

Panasonic is also known for its focus on energy efficiency and sustainability, with technologies such as inverter compressors, R290 refrigerant adoption, and advanced air purification systems like nanoe™ X, which improves indoor air quality. Today, Panasonic air conditioning combines Japanese engineering reliability with global manufacturing and distribution networks, making it a trusted choice in HVAC markets worldwide.

Why partner with us?

Uncompromised quality control in developing and manufacturing fine products

Developing and producing own compressors under Panasonic quality standards

Continuous operation test under stringent conditions

Complies with IPX4 waterproof specifications

Support at every stage of the project

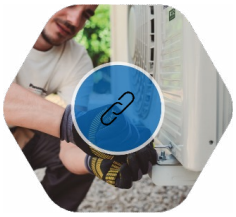
Training

Technical
Commercial

Specification

Dedicated team of professionals to assist in the design process

Installation



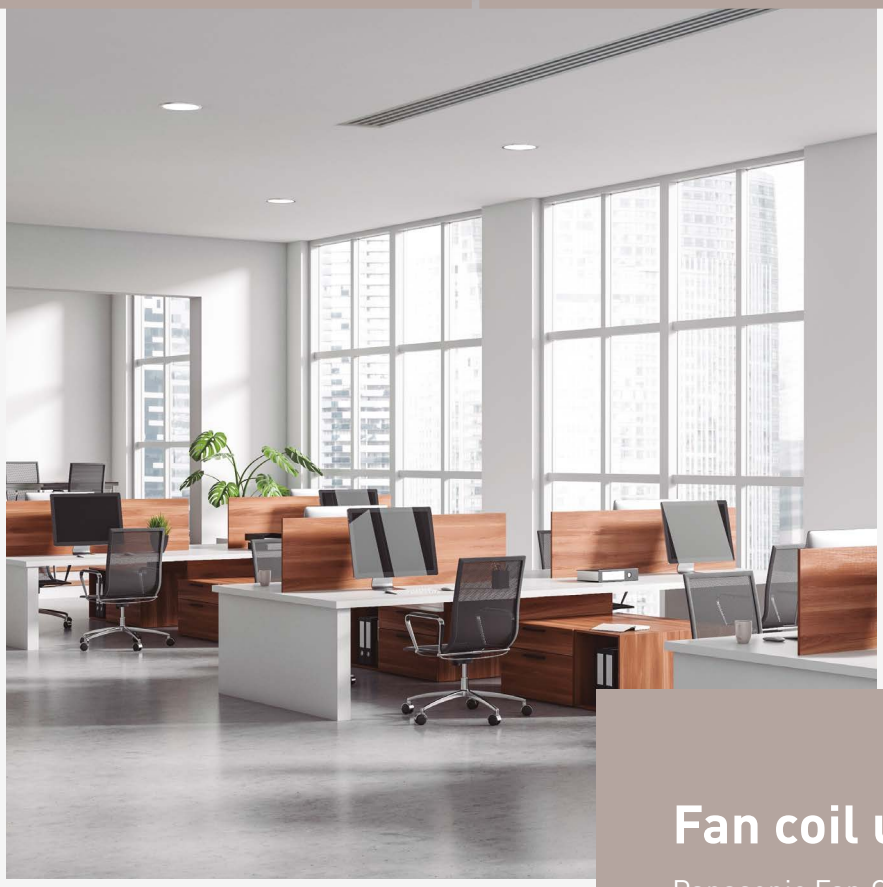
Site visits
Pre-inspection visits
Technical support

Commissioning

By Panasonic engineers Technical support

Maintenance

Hotline
Panasonic engineers
Technical support



Fan coil units

Panasonic Fan Coil Units (FCUs) form a key component of modern hydronic heating and cooling systems, providing an efficient and controllable method of delivering conditioned air to occupied spaces.

FCUs operate by circulating room air over a heat exchanger coil supplied with hot or chilled water from a central plant, enabling both heating and cooling functions within the same system infrastructure.

By combining high-performance heat exchangers with electronically controlled fan assemblies, Panasonic FCUs deliver a balance of thermal comfort, energy efficiency, and acoustic performance, making them suitable for a wide range of commercial, residential, and hospitality applications.

Fan Coil Technology / Design

An FCU consists of three main elements:

1 Heat Exchanger Coil

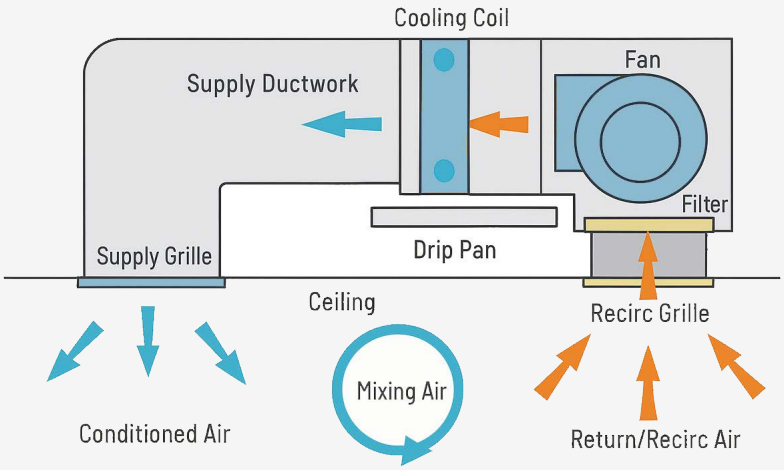
A finned copper tube coil through which chilled or hot water flows, transferring heat between the air and the water circuit.

2 Fan Assembly

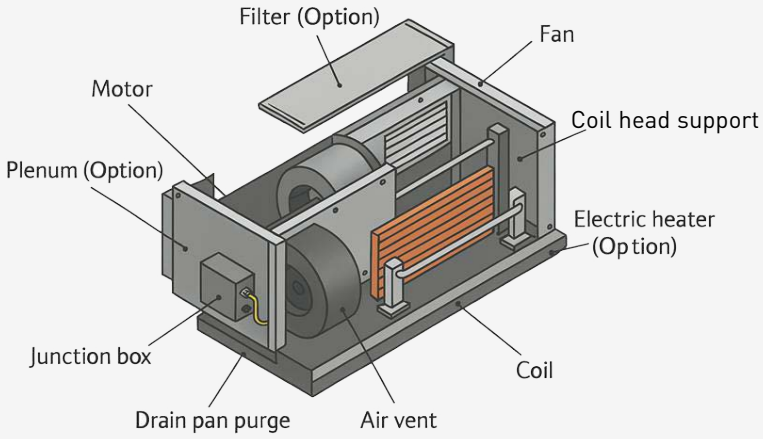
Typically, a tangential or centrifugal fan driven by an efficient electric motor, ensuring consistent airflow across the coil surface.

3 Control System

Due to the advanced technical Thermostats, valves, and electronic controllers modulate water flow and fan speed to maintain the desired room temperature and airflow



Room air is drawn into the unit through a filter, passes over the coil where heat exchange occurs, and is then delivered back into the space via a discharge grille or duct system. Condensate generated during cooling is collected and removed through an integrated drain pan and piping arrangement.



Main Component Diagram description

Return Air Inlet: Room air is drawn into the unit through a removable or washable air filter, capturing dust and particulates to protect the coil and maintain air quality.

Fan Assembly: A centrifugal or tangential fan driven by a high-efficiency EC motor pulls air evenly across the coil surface. The fan speed may be fixed, stepped, or continuously variable, depending on the control configuration.

Heat Exchanger Coil: A finned copper tube coil carries either chilled or hot water, depending on system operation mode. As air passes over the coil, heat exchange occurs — cooling or heating the supply air.

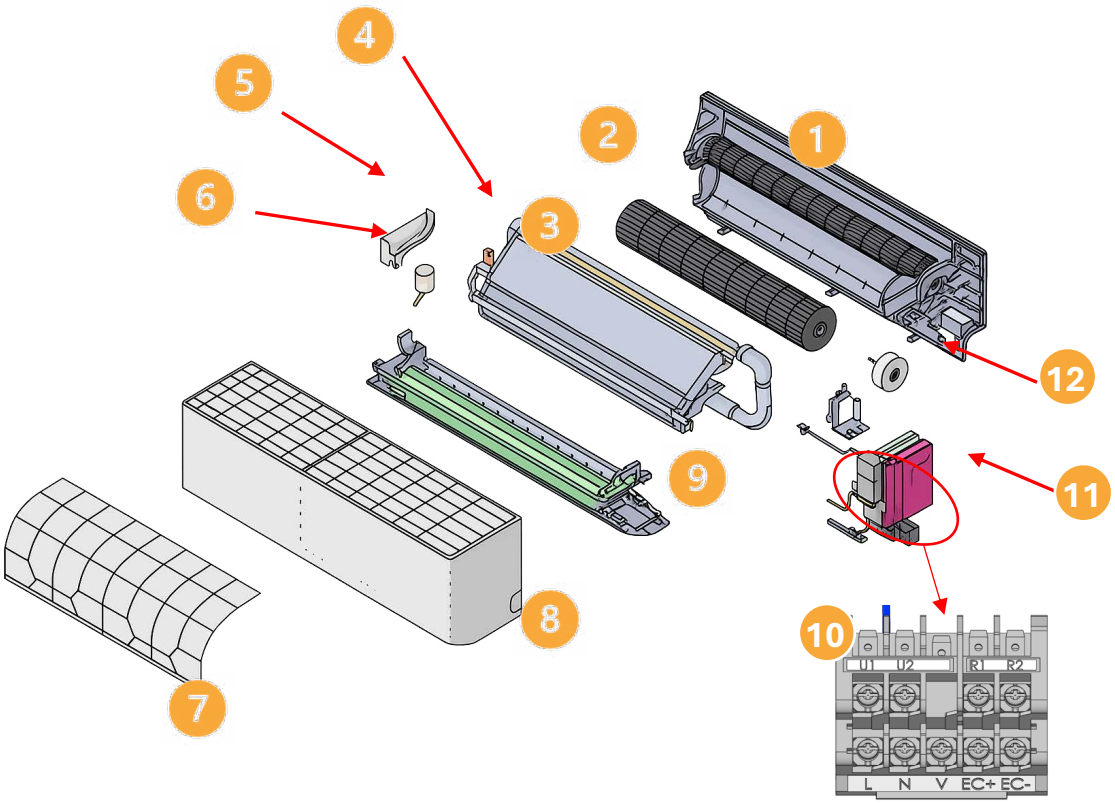
Condensate Drain Pan: During cooling operation, moisture condenses on the coil surface and is collected in an insulated drain pan before being discharged via a condensate outlet. Anti-corrosion coatings and slope design ensure proper drainage.

Supply Air Outlet: Conditioned air is distributed back into the room through the supply grille or ductwork. Airflow can be adjusted using dampers or discharge diffusers to achieve even temperature distribution.

Control Assembly: The FCU is managed by a thermostatic or electronic controller, which regulates fan speed, water valve position, and system mode (heating or cooling). Panasonic units can be connected to a central control platform or BMS for integrated management.

Fan coil Design / Technology

Diagram showing main components of a wall mounted FCU.



Main components:

1. Chassis
2. CFF (Cross Flow Fan)
3. Coil
4. 3-way valve
5. Drain pan
6. Actuator
7. Air filter
8. Front panel and front grille
9. Discharge grille and flap
10. Terminal Board
11. Control board complete
12. Fan Motor
13. Air Purge Valve

System Variations

Two-Pipe System:
Uses one coil for both heating and cooling; water temperature is seasonally changed at the plant level.
Four-Pipe System:
Incorporates separate heating and cooling coils, allowing simultaneous heating and cooling operation in different zones.

Product Overview - Fan Coil Range

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

Fan Coil Comfort (P-FC**)

Vertical Ducted

Ducted

Floor-standing

Ceiling

AC / EC 2 pipe / 4 pipe
The same inside components. The difference is with/without chassis

Fan Coil Duct (P-FD**)

- AC / EC
- 2 pipe / 4 pipe

Fan Coil High Static Pressure Duct (P-FH**)

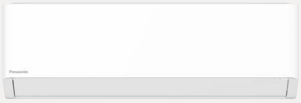
- AC / EC
- 2 pipe / 4 pipe

Fan Coil Cassette (P-FQ**)

- AC / EC
- 2 pipe / 4 pipe

Fan Coil Wall (S-**FK1E0/S-**FK1E)

nanoe™



- DC
- 2 pipe

Fan Coil Wall (P-FW**)

- AC
- 2 pipe

Energy savings and comfort

· Low consumption solutions with high efficiency fan motor
· High level of energy performance

Quiet operation

· Optimised fan speed staging
· Reinforced acoustic insulation
· Profiled air diffusers

Fully customisable

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

Wide technological range of controls

· Individual controllers with intuitive user interface.
· Plogic 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

Quick selection guide - Fan coil units

	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 AC/EC 	10	2,0 / 2,3	417	—	AC/EC	477 x 766 x 225
	20	2,1 / 2,5	413	—	AC/EC	477 x 766 x 225
	30	1,8 / 2,7	345	—	AC/EC	477 x 951 x 225
	40	4,2 / 4,5	678	—	AC/EC	477 x 1136 x 225
	50	5,0 / 5,2	816	—	AC/EC	477 x 1321 x 225
	60	5,2 / 5,8	912	—	AC/EC	477 x 1506 x 225
	70	6,6 / 7,2	1050	—	AC/EC	575 x 1319 x 225
	80	8,4 / 8,5	1063	—	EC	575 x 1506 x 225
Fan coil cassette AC/EC 	20	2,4 / 2,7	659	—	AC/EC	341 x 595 x 595
	30	4,0 / 3,7	734	—	AC/EC	341 x 595 x 595
	40	4,7 / 5,3	900	—	AC/EC	341 x 595 x 595
	50	6,1 / 6,8	979	—	AC/EC	358 x 849 x 849
	60	7,2 / 8,5	1159	—	AC/EC	358 x 849 x 849
	70	9,6 / 11,0	1598	—	AC/EC	358 x 849 x 849
NEW fan coil wall DC 	19	1,9 / 2,2	345	—	DC	295 x 890 x 244
	24	2,4 / 2,7	416	—	DC	295 x 890 x 244
	27	2,7 / 3,0	480	—	DC	295 x 890 x 244
	36	3,6 / 4,0	710	—	DC	295 x 890 x 244
	45	4,5 / 5,1	753	—	DC	295 x 1060 x 249
	52	5,2 / 5,3	879	—	DC	295 x 1060 x 249
Fan coil wall AC 	7	1,7 / 1,7	360	—	AC	275 x 845 x 180
	9	2,5 / 2,8	551	—	AC	275 x 845 x 180
	18	3,6 / 4,1	680	—	AC	298 x 940 x 200
	22	4,0 / 4,5	850	—	AC	298 x 940 x 200
Fan coil duct EC 	10	1,5 / 1,8	357	0-70	EC	223 x 633 x 631
	15	2,1 / 2,6	491	0-90	EC	223 x 733 x 631
	20	2,7 / 2,6	599	0-90	EC	223 x 833 x 631
	25	3,2 / 3,4	642	0-90	EC	223 x 933 x 631
	30	4,8 / 5,0	1068	0-90	EC	223 x 933 x 631
	40	6,7 / 7,1	1293	0-90	EC	223 x 1233 x 653
Fan coil high static duct AC/EC 	7	5,6 / 6,7	1125	0-110	AC/EC	250 x 1200 x 698
	15	13,3 / 15,5	2830	0-200	AC/EC	375 x 1380 x 798
	18	13,9 / 18,0	2830	0-200	AC/EC	375 x 1380 x 798
	21	17,0 / 17,8	2830	0-200	AC/EC	375 x 1380 x 798
	24	21,2 / 24,3	3736	0-220	AC/EC	450 x 1500 x 798
	27	24,8 / 25,0	3736	0-220	AC/EC	450 x 1500 x 798

1) Data for fan coil comfort, cassette and duct EC 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.

Model Nomenclature Definition | Fan Coil Units

The full model code including the configuration (options) part is automatically generated in AC SELECT software.

Model references shown on the catalogue

Definition	A		B	C	D		E	F	G	H	I	J	K	L		M		
Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Comfort FCU	P	-	F	C	4	0	A	Q	-	2	A		A	-	E	x	x	x

A Panasonic branded
P -

B Fan coils
F

C Unit type
D | Ducted
C | Comfort
H | High Static
Q | Cassette
W | Wall mounted[1)]

D Capacity
Example
D/C/Q/W unit type:
15 | **1,5** kW
H unit type:
27 | **27** kW

E Chassis arrangement
Blank | No chassis required
A | Horizontal no chassis
B | Horizontal with chassis
C | Vertical no chassis
D | Vertical with chassis

F Pipe side & Electrical position
Blank | Not required
Q | Left hand piping / right hand electrical
S | Left hand piping / left hand electrical
R | Right hand piping / right hand electrical
T | Right hand piping / left hand electrical `

G Hyphen separator
-

H Piping & Electrical
2 | 2 pipe
4 | 4 pipe
H | 2 pipe + Electric Heater (only for Cassette)

I Fan type
A | AC fan
E | EC fan

J Not used
Blank | No indication (future use)

K Generation
A | First generation

L Region
-E | Europe

M Options
Various options dependent on model type. Code will be automatically generated in **AC SELECT** e.g. **AAA**

1) Wall mounted follows slightly different structure due to simplified design.

Fan Coil Wall-Mounted FK1

The full model code including the configuration (options) part is automatically generated in AC SELECT software.

Model references shown on the catalogue

Definition	A		B		C	D	E	F	G	H	I	J	K	L	M	N	O
Series	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18
Wall type	S	-	1	9	F	K	1	E		0							

A Indoor/Outdoor
S - | Indoor unit
U - | Outdoor unit

B Cooling capacity (max. fan speed)
19 | 1,90 kW
24 | 2,41 kW
27 | 2,73 kW
36 | 3,61 kW
45 | 4,51 kW
52 | 5,23 kW

C Type
F | Fancoil

D Type
K | Wall-Mount
U | Cassette
Y | Mini Cassette
T | Ceiling
F | MSP DUCT
P | Perimeter

E Generation
1 | 1st Generation

F Region
E | Europe

G Pipe
2 | 2-pipe
4 | 4-pipe

H Valve kit
0 | Standard model (No valves) / Valves as accessory
empty | 3-way valve

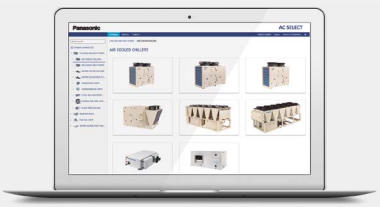
Standard Model: S-**FK1E0
With 3-way Valve : S-**FK1E

2 pipe only

Same as Aquarea Air FCU

AC SELECT.

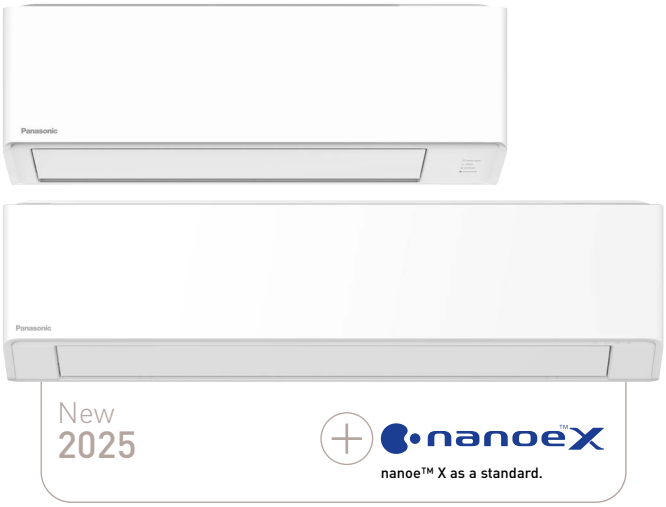
Smart and user-friendly the new air conditioning selection program: https://acselect.panasonic.eu/



New fan coil wall 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 controller.
WRC remote control.

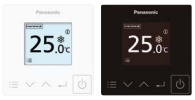
Optional controller.
SRC - mini BMS controller.

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



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

The range at a glance

- Versions (2-pipes): with 3 way valve
- 6 sizes
- DC fan for better efficiency and control
- Air flow from 360 to 1045 m³/h
- G1 cleanable air filter

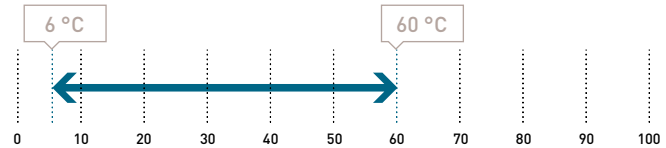
Advantages

- Modern stylish design with flat face and compact size
- Motorized louvers
- Six directional piping outlet
- nanoe™ X (Generator Mark 3) 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
- Ideal for commercial and residential applications in combination with Aquarea Heat Pumps

Accessories and options
Modbus communication board for Plogic
SRC - mini BMS controller
WRC: wall-mounted remote control for Plogic
Plogic controller (other electromechanical or electronic control systems also available)
TControl EASY 3S and TControl POD glass controllers (other electromechanical or electronic control systems also available)
CZ-RWS3 - infrared remote controller
CZ-RTC5B - wired remote controller with Econavi function
CZ-RTC6 - CONEX Series wired remote controller
CZ-CENSC1 - Econavi energy saving sensor

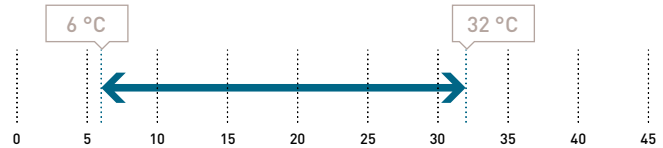
Operating limits

Entering water temperature (without glycol).



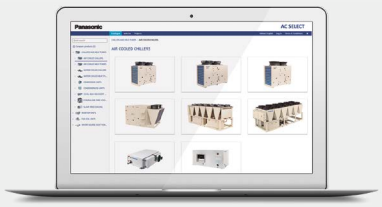
Maximum operating pressure: 10 bar.

Indoor air temperature.



AC SELECT.

Smart and user-friendly the new air conditioning selection program: https://acselect.panasonic.eu/



Technical features

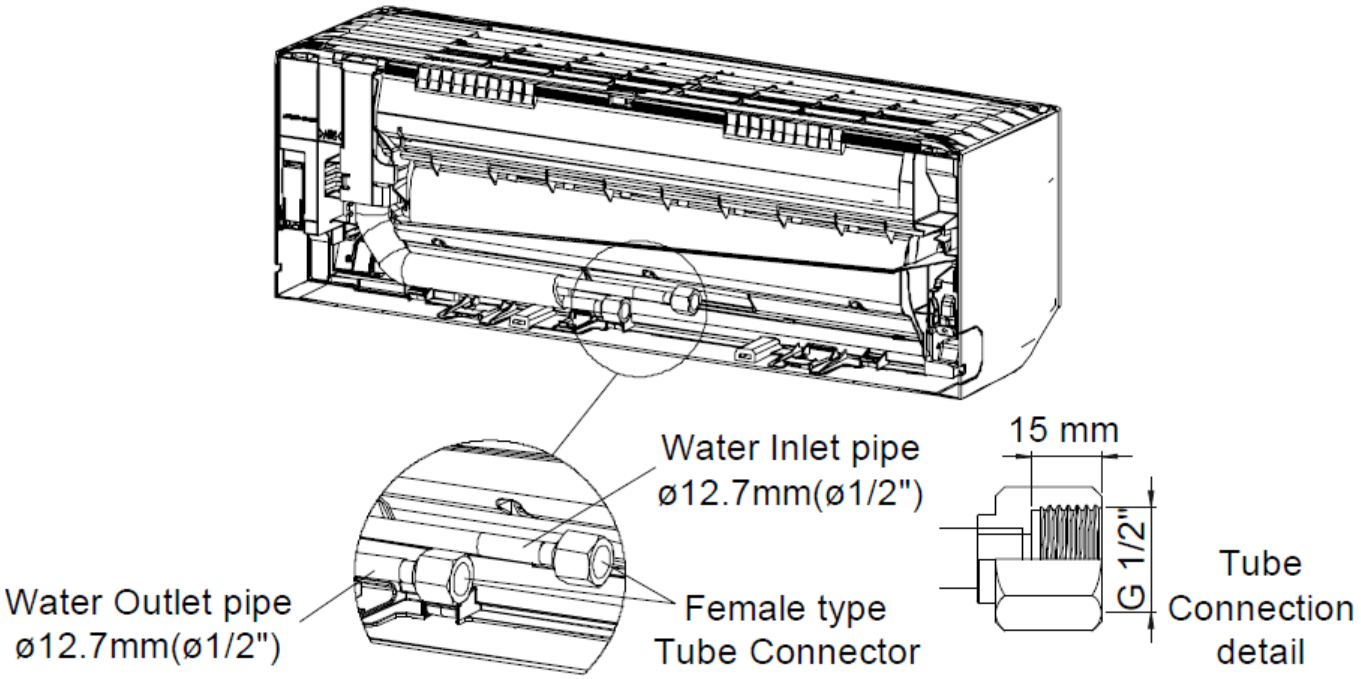
Fan coil wall DC fan - FK1			S-19FK1E	S-24FK1E	S-27FK1E	S-36FK1E	S-45FK1E	S-52FK1E
			H/M/L	H/M/L	H/M/L	H/M/L	H/M/L	H/M/L
2-pipes, with/without 3 way valve								
Total cooling capacity [1]		kW	1,90/1,65/1,40	2,41/2,17/1,92	2,73/2,51/2,02	3,61/3,11/2,65	4,50/3,78/3,02	5,23/4,63/4,03
Sensible capacity [1]		kW	1,54/1,35/1,10	1,91/1,71/1,50	2,19/2,00/1,59	2,98/2,52/2,12	3,41/2,84/2,25	4,02/3,51/3,04
Water flow [1]		l/h	342/295/250	432/389/344	489/449/362	648/556/473	809/680/539	908/830/724
Water pressure drop (coil only)		kPa	8/6/4	13/11/8	17/14/9	30/22/16	42/30/19	56/44/34
Water pressure drop (with 3 way valve) [1]		kPa	29/23/18	36/29/25	44/39/26	74/57/42	110/80/53	142/112/90
Air flow [1]		m³/h	345/276/230	416/361/324	480/434/343	710/572/462	753/603/488	879/753/637
Input power [1]		W	12/11/10	14/12/12	16/14/12	26/19/15	22/17/13	29/23/18
Sound pressure Lp [1] [2]		dB(A)	27	26	29	39	35	40
Sound power Lw [1]		dB(A)	43	42	45	55	51	56
Heating capacity [3]		kW	2,23/1,92/1,59	2,72/2,39/1,97	3,01/2,64/2,18	4,03/3,48/2,89	5,13/4,21/3,09	5,33/4,72/4,03
Water flow [3]		l/h	381/329/281	481/417/339	533/463/379	715/614/508	898/740/544	931/827/710
Water pressure drop (coil only)		kPa	10/8/5	16/12/8	20/15/10	36/27/18	52/36/19	56/44/33
Water pressure drop (with 3 way valve) [3]		kPa	30/24/18	39/31/23	47/36/25	72/60/42	118/82/46	128/97/74
Air flow [3]		m³/h	406/314/253	489/425/343	545/471/379	765/646/517	925/730/511	960/810/672
Input power [3]		W	13/12/10	15/14/12	17/15/13	28/21/16	32/21/14	35/26/19
Sound pressure Lp [2] [3]		dB(A)	29/27/24	29/26/22	32/28/23	41/36/30	42/36/28	43/39/34
Sound power Lw [3]		dB(A)	45/43/40	45/42/38	48/44/39	57/52/46	58/52/44	59/55/50
Water Connection								
Connection type			Gas female threaded	Gas female threaded	Gas female threaded	Gas female threaded	Gas female threaded	Gas female 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
Dimensions 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 [1]

Fan coil wall DC fan - FK1								
2-pipes	FCEER [1]	A to E	B	B	B	B	A	A
	$n_{s,c}$	%	144,2	166,9	172,1	169,3	226,8	213,0
	FCCOP [3]	A to E	B	B	B	B	B	B
	$n_{s,h}$	%	160,0	167,0	170,5	173,4	208,5	198,0

1) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 2) The sound pressure of the indoor unit shows the value measured of 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. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.

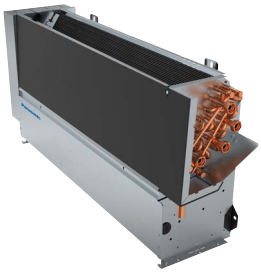
Pipe Connections



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

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)

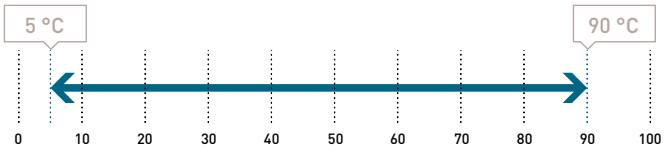
Advantages

- 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

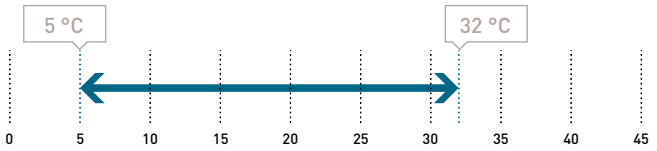
Accessories and options
2 way or 3 way valves
4-pipes kit (additional coil)
Circuit breakers
Drain pump
Electric heaters (from 500 W to 2500 W)
Feet with/without grid
Fuse holders
G3 filter
Horizontal or vertical drain guard (with valve)
Many air inlet/outlet configurations
Mechanical sensor for automatic change over
Modbus communication board for Plogic
MRC/WRC/BRC: remote controls for Plogic
Other speeds configuration (standard factory set speeds: S1,S3,S5)
SRC - mini BMS controller
Suspension kit
Plogic controller (other electromechanical or electronic control systems also available)
TControl EASY 3S and TControl POD glass controllers (other electromechanical or electronic control systems also available)

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



Energy efficiency class [7)]

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

Technical features

Fan coil comfort AC fan			P-FC10 S1/S3/S5 [1]	P-FC20 S1/S3/S5 [1]	P-FC30 S1/S3/S5 [1]	P-FC40 S1/S3/S5 [1]	P-FC50 S1/S3/S5 [1]	P-FC60 S1/S3/S5 [1]	P-FC70 S1/S3/S5 [1]
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	5,0/15,6/25,6	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	30/44/51	34/43/56	38/51/58	43/56/61
	4-pipes	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	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	m³/h	94/190/283	68/104/196	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064
	4-pipes	m³/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-pipes	kg	19	19	22	27	30	35	35
	4-pipes	kg	20	20	23	29	32	37	37
Without cabinet	2-pipes	kg	13	13	15	20	22	26	27
	4-pipes	kg	14	14	16	22	24	28	29

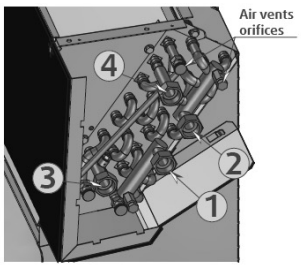
1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent standard. Air: 20 °C, hot water: 65 °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.

8.3. COIL WATER CONNECTIONS

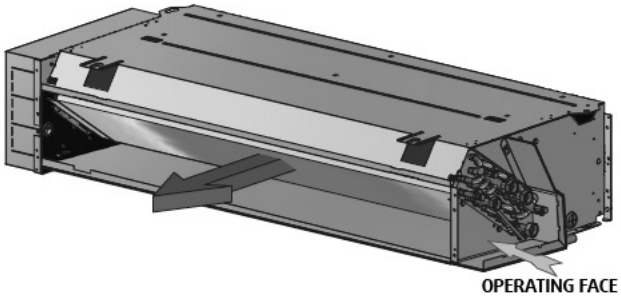
The units are equipped, in their standard 2-pipes configuration, with a main chilled water coil with 2 rows (**10**), 3 rows (**20 to 80**).

In the 4-pipes configuration, the unit is equipped , in the same block with 3 rows (**10**), 4 rows (**20 to 80**), with chilled water coil and heated water coil 1 row (on an independent circuit).

The coil headers are equipped with air vent. To vent the air from the coil, use the air vent located on the upper part of the upper header. To drain the water, use the drain plug located on the lower part of the lower header. The coil(s) MUST be drained of fluid in the event of the unit being kept out of service in buildings subjected to negative ambient temperatures with the possibility of the coil icing.



	① Entry	② Output	③ Entry	④ Output
2 pipes	❄ or 🔥	❄ or 🔥	/	/
4 pipes	❄	❄	🔥	🔥



ErP SUPER QUIET

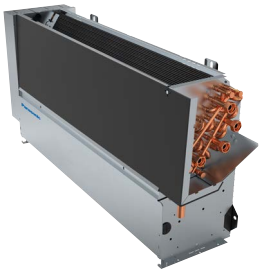
ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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.

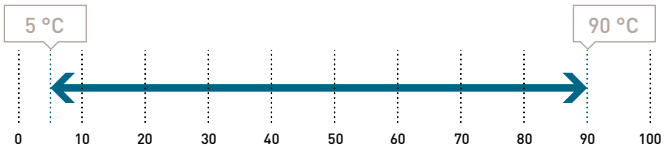
Optional controller.
Electronic controller TControl EASY 3S.

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

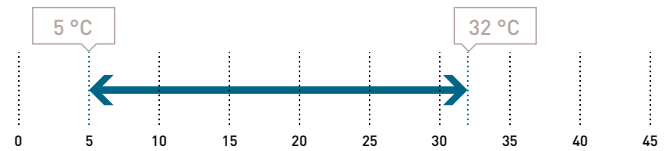
Optional controller.
Wired remote controller.
PAW-FC-903EC

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
- 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 m^3/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
2 way or 3 way valves
4-pipes kit (additional coil)
Circuit breakers
Drain pump
Ecospeed card for EC fans
Electric heaters (from 500 W to 2500 W)
Feet with/without grid
Fuse holders
G3 filter
Horizontal or vertical drain guard (with valve)
Many air inlet/outlet configurations
Electromechanical sensor for automatic change over
Modbus communication board for Plogic
MRC/WRC/BRC: remote controls for Plogic
Other speeds configuration (standard factory set speeds in technical features table)
SRC - mini BMS controller
Suspension kit
Plogic controller (other electromechanical or electronic control systems also available)
TControl EASY 3S and TControl POD glass controllers (other electromechanical or electronic control systems also available)

Energy efficiency class [7)]

Fan coil comfort EC fan										
2-pipes	FCEER	A to E	C	C	B	A	A	A	B	B
	FCCOP	A to E	D	C	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

Technical features

Fan coil comfort EC fan			P-FC10	P-FC20	P-FC30	P-FC40	P-FC50	P-FC60	P-FC70	P-FC80
			2V/5V/10V [1]	2V/5V/10V [1]	2V/6V/10V [1]	2V/5V/10V [1]	2V/7V/10V [1]	2V/7V/10V [1]	4V/8V/10V [1]	3V/4,1V/6,4V [1]
2-pipes										
Total cooling capacity [2]		kW	0,59/1,16/1,96	0,61/1,31/2,12	0,67/1,41/1,83	1,34/2,93/4,19	1,34/3,57/4,98	1,98/4,45/5,24	2,55/5,56/6,55	4,59/6,13/8,36
Sensible capacity [2]		kW	0,48/1,00/1,76	0,47/1,06/1,72	0,47/1,04/1,34	0,95/2,10/3,00	1,05/2,70/3,70	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	0,68/1,53/2,52	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	0,51/1,02/1,80	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	0,41/0,87/1,60	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	87,8/176/310	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	5,2/18,3/53,4	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	40/54/59	51/56/64
	4-pipes	dB(A)	34/47/60	34/47/60	31/50/59	29/44/56	30/51/57	32/54/58	40/54/59	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)	25/38/51	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		20/33/46	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	m³/h	108/228/417	98/234/413	119/257/345	170/412/678	203/577/816	245/737/912	350/850/1050	500/680/1063
	4-pipes	m³/h	91/199/379	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	11/44/77	23/42/108
	4-pipes	W	7/12/39	7/13/40	6/14/40	2/11/39	4/23/44	4/28/52	11/43/75	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-pipes	kg	19	19	22	27	30	35	35	47
	4-pipes	kg	20	20	23	29	32	37	37	49
Without cabinet	2-pipes	kg	13	13	15	20	22	26	27	38
	4-pipes	kg	14	14	16	22	24	28	29	40

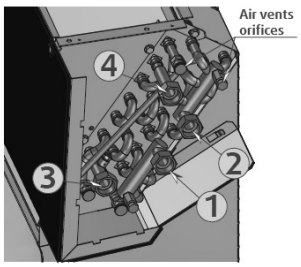
1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent standard. Air: 20 °C, hot 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.

8.3. COIL WATER CONNECTIONS

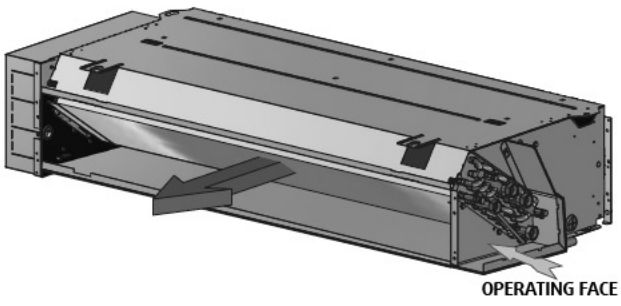
The units are equipped, in their standard 2-pipes configuration, with a main chilled water coil with 2 rows (**10**), 3 rows (**20 to 80**).

In the 4-pipes configuration, the unit is equipped , in the same block with 3 rows (**10**), 4 rows (**20 to 80**), with chilled water coil and heated water coil 1 row (on an independent circuit).

The coil headers are equipped with air vent. To vent the air from the coil, use the air vent located on the upper part of the upper header. To drain the water, use the drain plug located on the lower part of the lower header. The coil(s) MUST be drained of fluid in the event of the unit being kept out of service in buildings subjected to negative ambient temperatures with the possibility of the coil icing.



	① Entry	② Output	③ Entry	④ Output
2 pipes	or	or	/	/
4 pipes				

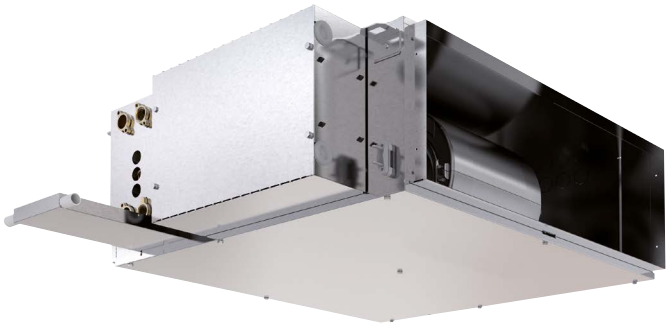


ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

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.



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

Optional controller. WRC remote control.

Optional controller. SRC - mini BMS controller.

Optional controller. Electronic controller TControl POD glass.

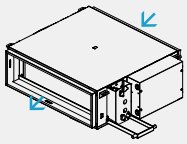
Optional controller. Electronic controller TControl EASY 3S.

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

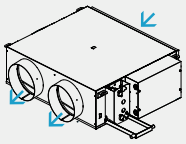
Optional controller. Wired remote controller.
PAW-FC-903EC

Air inlet/outlet configurations.

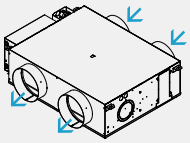
I configurations.



Rectangular return and discharge (standard).

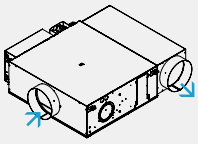


Rectangular return and circular discharge.



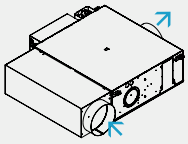
Circular return and discharge.

J configuration.



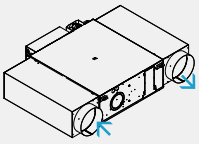
Circular return and discharge.

L configuration.



Circular return and discharge.

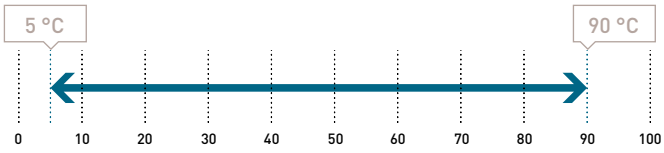
U configuration.



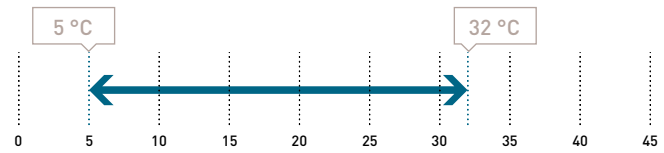
Circular return and discharge.

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



Energy efficiency class [7]

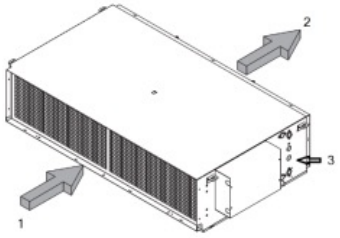
Fan coil duct EC fan								
2-pipes	FCEER	A to E	C	B	B	B	B	A
	FCCOP	A to E	C	A	B	A	B	A
4-pipes	FCEER	A to E	C	B	B	B	B	A
	FCCOP	A to E	C	A	A	A	B	A

Technical features

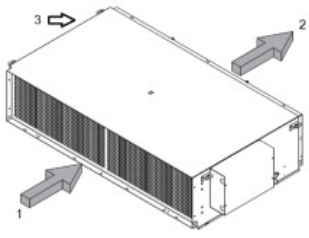
Fan coil duct EC fan			P-FD10	P-FD15	P-FD20	P-FD25	P-FD30	P-FD40
			2V/7,35V/10V [1]	3,8V/6,00V/8,2V [1]	4,8V/7,15V/8,9V [1]	3,1V/3,9V/4,85V [1]	2V/6V/10V [1]	2,1V/5,5V/10V [1]
2-pipes								
Total cooling capacity [2]		kW	0,7/1,2/1,5	1,39/1,88/2,06	1,83/2,42/2,74	2,42/2,77/3,2	1,90/3,66/4,80	2,4/4,94/6,66
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	1,8/4,1/6,13
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	10,3/37,6/62,8	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	3,27/12,3/19,6	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	42/58/68
	4-pipes	dB(A)	29/52/55	44/55/60	50/57/61	50/55/61	40/58/64	43/58/68
Sound power - discharge [5]	2-pipes	dB(A)	31/51/55	41/52/58	50/57/61	50/56/61	36/56/64	39/57/70
	4-pipes	dB(A)	34/51/57	41/52/58	50/57/61	50/56/61	36/56/64	38/54/70
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	m³/h	82/247/357	255/383/491	360/501/599	448/541/642	300/738/1068	347/848/1293
	4-pipes	m³/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	8/60/147	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	½	½	½	½	½	¾
4-pipes	Heating	Inch	½	½	½	½	½	½
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

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.

Left-hand service side configuration (L)



Right-hand service side configuration (R)



Note: As an example, schematic shows a 2-pipe E180 model in left-hand (L) and right-hand (R) service side configuration

1 – Air return side
2 – Air discharge side
3 – Water connection

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

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.

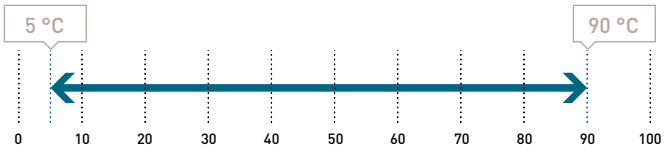
Optional controller.
Electronic controller TControl EASY 3S.

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

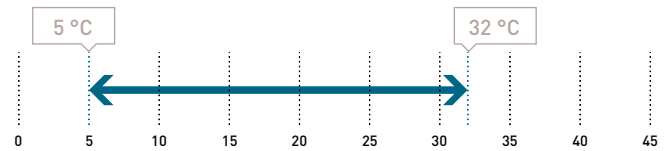
Optional controller.
Wired remote controller.
PAW-FC-903EC

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 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
2 way or 3 way valves
Auxiliary drain pan
Circuit breakers
Condensate drain pump
Double skin acoustic insulation
Electric heaters (from 1000 W to 3000 W)
Fresh air intake
Fuse holder
G3/G4 filter
Inlet and outlet plenums for circular ducts (07 only)
Electromechanical sensor for automatic change over
Modbus communication board for Plogic
Other speeds configuration (standard factory set speeds in technical features table)
SRC - mini BMS controller
Suspension kit
Plogic controller (other electromechanical or electronic control systems also available)
TControl EASY 3S and TControl POD glass controllers (other electromechanical or electronic control systems also available)
WRC: wall-mounted remote control for Plogic

Energy efficiency class [7]

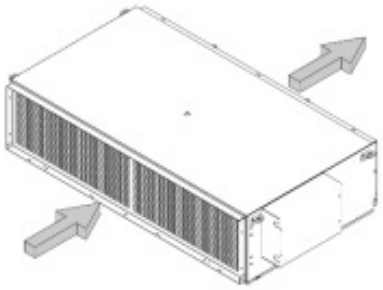
Fan coil high static duct EC fan								
2-pipes	FCEER	A to E	—	A	A	A	B	A
	FCCOP	A to E	—	A	A	A	A	A
4-pipes	FCEER	A to E	—	B	B	A	A	A
	FCCOP	A to E	—	B	A	A	B	B

Technical features

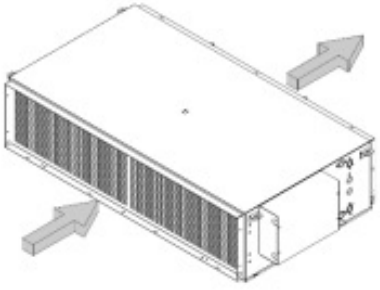
Fan coil high static duct EC fan			P-FH7	P-FH15	P-FH18	P-FH21	P-FH24	P-FH27
			3,33V/5,87V/8,67V [1]	2V/4V/5V [1]	2V/4V/5V [1]	2V/4V/5V [1]	2V/5V/7V [1]	2V/5V/7V [1]
2-pipes								
Total cooling capacity [2]		kW	3,26/4,90/5,88	7,93/10,1/11,1	8,98/11,7/12,8	9,79/12,7/13,9	10,6/16,1/17,6	11,7/18,1/19,9
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	23/35/40,9	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	58/69/73	58/69/73
	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	58/67/72	58/67/72
	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	m³/h	347/849/1293	1360/2044/2335	1360/2044/2335	1360/2044/2335	1519/2700/3098	1519/2700/3098
	4-pipes	m³/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

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.

Right-hand configuration



Left-hand configuration



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

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.

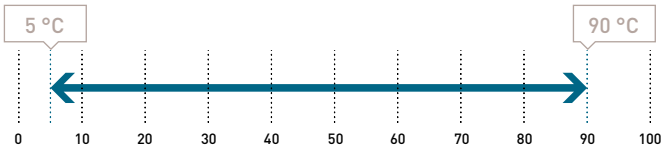
Optional controller. Wired remote controller with touch control.
PAW-FC-907AC

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

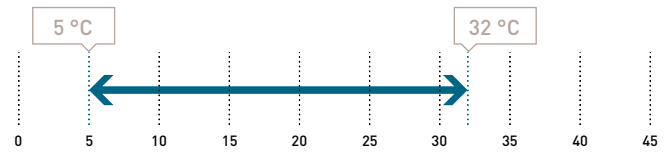
Optional controller. Advanced wired remote controller.
PAW-FC-RC1

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 m^3/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
2 way or 3 way valves
Auxiliary drain pan
Circuit breakers
Condensate drain pump
Double skin acoustic insulation
Electric heaters (from 1000 W to 3000 W)
Fresh air intake
Fuse holder
G3/G4 filter
Inlet and outlet plenums for circular ducts (07 only)
Electromechanical sensor for automatic change over
Modbus communication board for Plogic
Other speeds configuration (standard factory set speeds in technical features table)
SRC - mini BMS controller
Suspension kit
Plogic controller (other electromechanical or electronic control systems also available)
TControl EASY 3S and TControl POD glass controllers (other electromechanical or electronic control systems also available)
WRC: wall-mounted remote control for Plogic

Energy efficiency class [7]

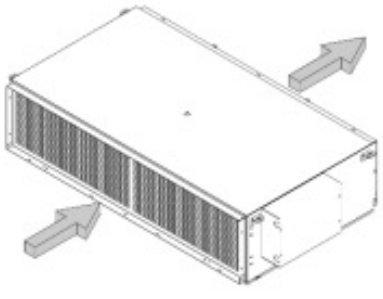
Fan coil high static duct AC fan								
2-pipes	FCEER	A to E	D	D	D	D	D	D
	FCCOP	A to E	C	C	C	C	D	D
4-pipes	FCEER	A to E	D	D	D	D	D	D
	FCCOP	A to E	C	C	C	C	D	D

Technical features

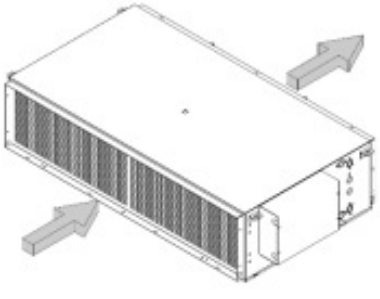
Fan coil high static duct AC fan			P-FH7	P-FH15	P-FH18	P-FH21	P-FH24	P-FH27
			S1/S3/S5 [1]	S1/S3/S5 [1]	S1/S3/S5 [1]	S1/S3/S5 [1]	S1/S2/S3 [1]	S1/S2/S3 [1]
2-pipes								
Total cooling capacity [2]		kW	4,43/5,32/5,59	6,9/11,48/13,33	6,32/11,48/13,87	7,07/13,7/17	14,78/16,67/19,03	16,4/18,9/21,9
Sensible 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	15,3/18,8/23,3	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	52/74/71	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	m³/h	703/977/1125	960/2112/2830	960/2112/2830	960/2112/2830	2040/2413/3436	2040/2413/3736
	4-pipes	m³/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	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

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.

Right-hand configuration



Left-hand configuration



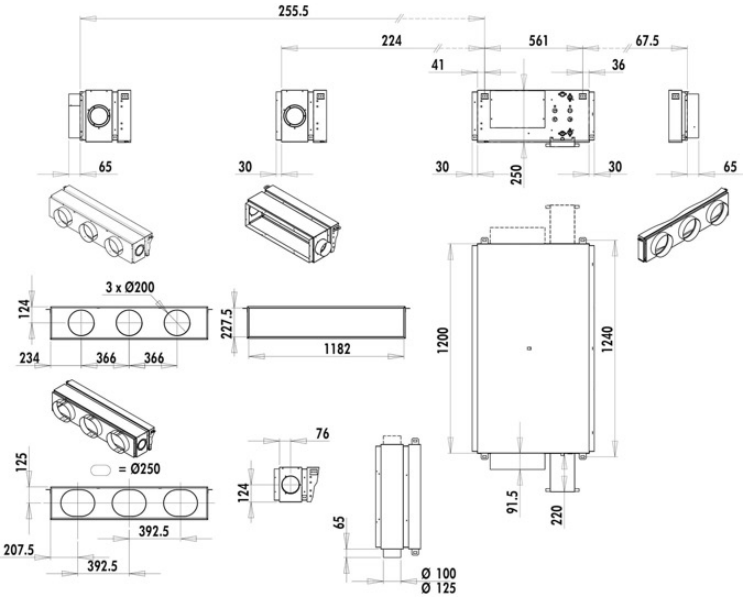
ErP SUPER QUIET

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

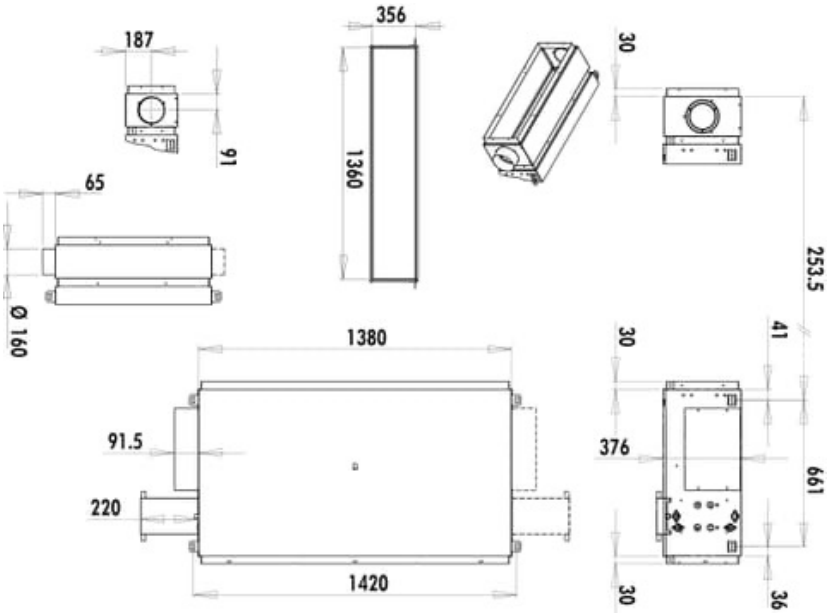
EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Dimensional Drawings

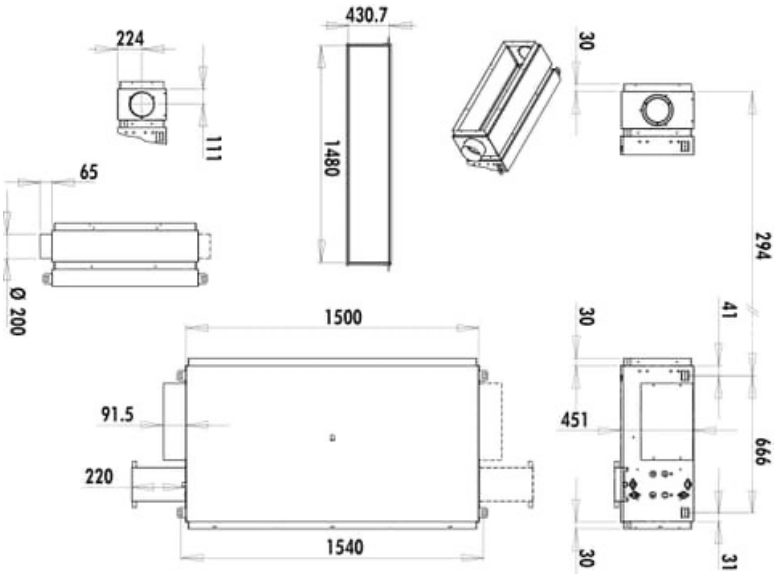
Dimensions P-FH7



Dimensions P-FH15, P-FH18 & P-FH21



Dimensions P-FH24 & P-FH27

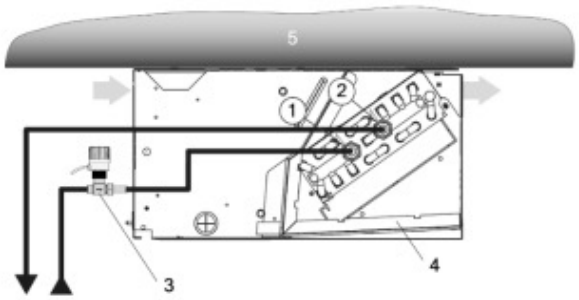


P-FD Hydraulic Connections

1. Install the mandatory 2-way or 3-way regulating valve on the unit and/or upstream in the hydraulic circuit according to the following scheme (showing model D040 with left-hand service side configuration as an example):

2-way regulating valve

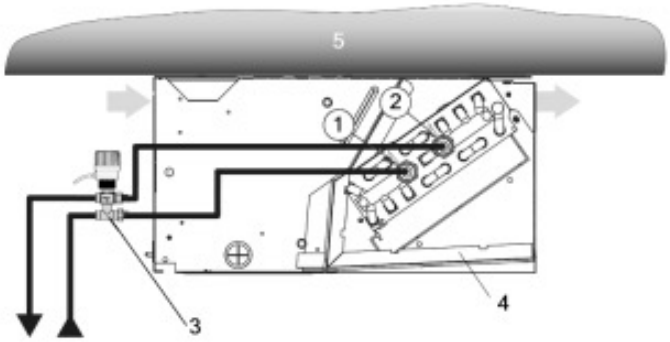
1	Water inlet connection
2	Water outlet connection
3	**2-way water valve**
4	Condensate drain pan
5	Ceiling



IMPORTANT
Using a 2-way regulating valve **MANDATORILY** requires the fitting of additional balancing valves in the water circuit, to prevent water from circulating in the unit when the fan is not operating and to maintain a steady water flow in the rest of the water circuit.

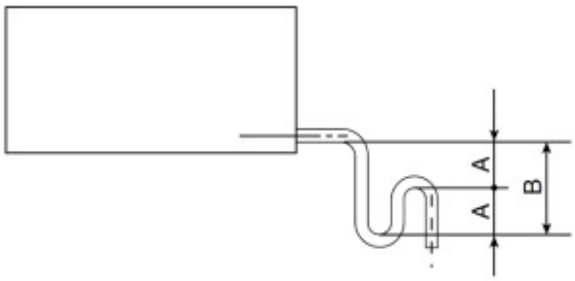
3-way regulating valve

1	Water inlet connection
2	Water outlet connection
3	**3-way water valve**
4	Condensate drain pan
5	Ceiling



Connect the condensate evacuation pipe according to the following instructions:

1. Remove all foreign material from the condensate tray.
2. Connect the evacuation pipe to the drain hole of the condensate tray by means of a flexible drain hose.
3. Make sure that the evacuation pipe is installed with a downward slope and that it has a siphon, which must be made in accordance with the following scheme.



Height **A**: must be equal to 2 times the value of the negative pressure (given in mmH2O) present in the condensate reception zone.

Height **B** must be equal to 2 times the value of height A.

Example:
negative pressure = 40 mmH_2O
height A = 80 mmH_2O
height B = 160 mmH_2O.

4. Make sure that the condensate drain hose is firmly connected to the drain tray and check if it allows liquid to drain properly by pouring water into the condensate tray.
5. Insulate the evacuation pipe to prevent condensation forming on the outside of the pipe.
6. Fill the coil with the amount of water which is applicable for the relevant model.

Note:
To vent the air from the coil, use the air vent located on the upper part of the upper header. To drain the water, use the drain plug located on the lower part of the lower header.

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.

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.

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

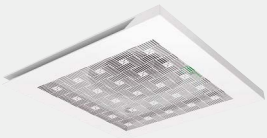
Optional controller. Wired remote controller.
PAW-FC-903AC

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

IRYS COANDA diffusers.

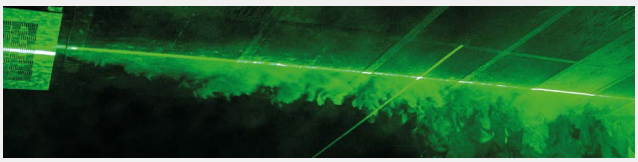
For a unique design and a strong coanda effect.

IRYS COANDA 360.
360° air diffusion.



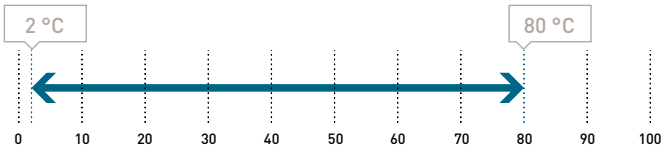
IRYS COANDA 180.
180° air diffusion.

Coanda effect measurements taken in our Panasonic development center.

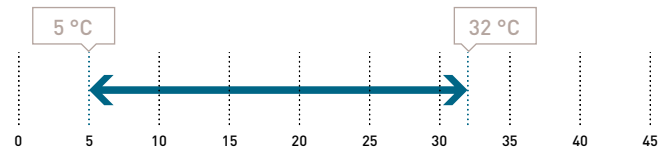


Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



Energy efficiency class [6]

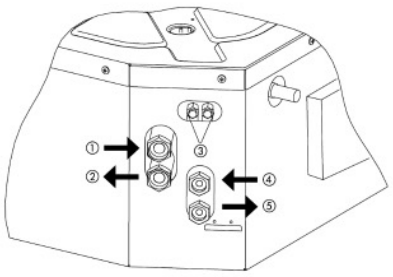
Fan coil cassette AC fan								
2-pipes	FCEER	A to E	D	C	D	C	C	C
	FCCOP	A to E	E	D	D	C	C	D
4-pipes	FCEER	A to E	E	C	D	—	C	D
	FCCOP	A to E	E	C	D	—	C	C

Technical features

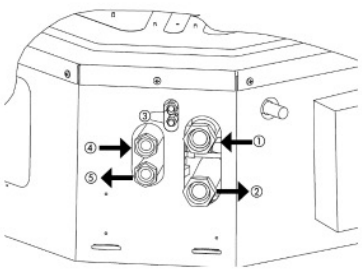
Fan coil cassette AC fan			P-FQ20	P-FQ30	P-FQ40	P-FQ50	P-FQ60	P-FQ70
			S2/S3/S4 [1]	S2/S3/S4 [1]	S2/S3/S4 [1]	S2/S3/S4 [1]	S2/S3/S4 [1]	S2/S3/S4 [1]
2-pipes								
Total cooling capacity [2]		kW	1,54/1,76/2,36	1,87/2,87/3,99	2,78/3,49/4,69	3,35/4,43/6,07	3,69/5,46/7,18	4,04/6,48/8,61
Sensible capacity [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		m³/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								
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								
Weight		kg	14,8	16,5	16,5	37,1	37,1	39,6

1) Fan 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.

Models PAW-FC**-U020 to PAW-FC**-U040



Models PAW-FC**-U050 to PAW-FC**-U070



		2-pipe		4-pipe	
Ref.	Description	PAW-FC2*-U020 to PAW-FC2*-U040	PAW-FC2*-U050 to PAW-FC2*-U070	PAW-FC4*-U020 to PAW-FC4*-U040	PAW-FC4*-U050 to PAW-FC4*-U070
1	Water inlet C (C/H)	¾"	¾"	¾"	¾"
2	Water outlet C (C/H)	¾"	¾"	¾"	¾"
3	Air bleeding valves	-	-	-	-
4	Water inlet H	-	-	½"	¾"
5	Water outlet H	-	-	½"	¾"

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

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

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

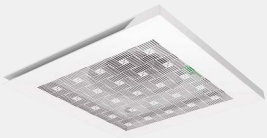
- Excellent performances: FCEER and FCCOP up to "A"
- Aesthetic and IRYS COANDA design diffusers with strong coanda effect
- Silent units
- Easy installation and maintenance: all connections on the same side. Electrical box and valves outside of the unit
- Low built-in-height
- Perfect integration into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

* From 20 to 40 with IRYS COANDA diffusers.

IRYS COANDA diffusers.

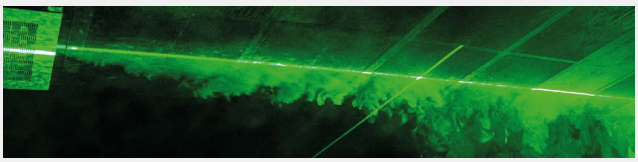
For a unique design and a strong coanda effect.

IRYS COANDA 360.
360° air diffusion.



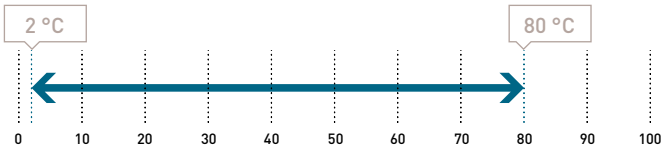
IRYS COANDA 180.
180° air diffusion.

Coanda effect measurements taken in our Panasonic development center.

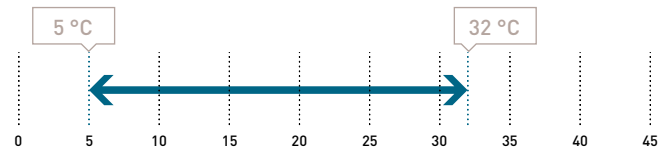


Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



Energy efficiency class [6]

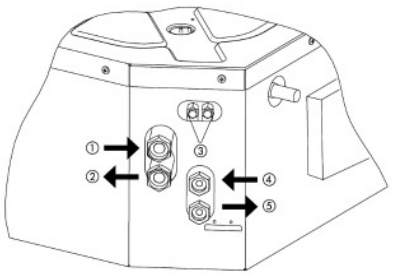
Fan coil cassette EC fan								
2-pipes	FCEER	A to E	B	A	B	A	A	A
	FCCOP	A to E	B	B	B	A	A	A
4-pipes	FCEER	A to E	B	A	B	—	A	B
	FCCOP	A to E	C	A	B	—	A	A

Technical features

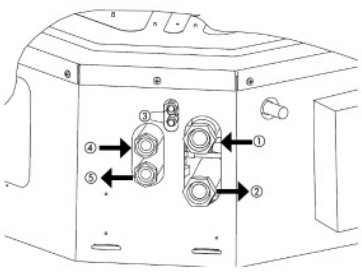
Fan coil cassette EC fan			P-FQ20	P-FQ30	P-FQ40	P-FQ50	P-FQ60	P-FQ70
			2V/6V/10V [1]	2V/6V/10V [1]	2V/6V/10V [1]	2V/6V/10V [1]	2V/6V/10V [1]	2V/6V/10V [1]
2-pipes								
Total cooling capacity [2]		kW	1,55/1,77/2,38	1,88/2,88/4,00	2,79/3,51/4,71	3,36/4,44/6,09	3,71/5,48/7,20	4,05/6,51/9,61
Sensible 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		m³/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								
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								
Weight		kg	14,8	16,5	16,5	37,1	37,1	39,6

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.

Models PAW-FC**-U020 to PAW-FC**-U040



Models PAW-FC**-U050 to PAW-FC**-U070



Ref.	Description	2-pipe		4-pipe	
		PAW-FC2*-U020 to PAW-FC2*-U040	PAW-FC2*-U050 to PAW-FC2*-U070	PAW-FC4*-U020 to PAW-FC4*-U040	PAW-FC4*-U050 to PAW-FC4*-U070
1	Water inlet C (C/H)	¾"	¾"	¾"	¾"
2	Water outlet C (C/H)	¾"	¾"	¾"	¾"
3	Air bleeding valves	-	-	-	-
4	Water inlet H	-	-	½"	¾"
5	Water outlet H	-	-	½"	¾"

ErP
EC MOTOR GREEN VENTILATION
SUPER QUIET
VERY HIGH PERFORMANCE
ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Fan coil wall 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

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

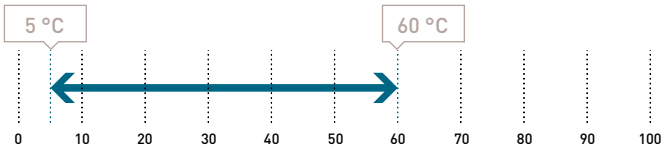
Advantages

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

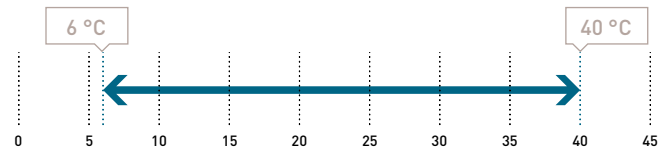
Accessories and options
2 way or 3 way valves
Modbus communication board for Plogic
SRC - mini BMS controller
Plogic controller (other electromechanical or electronic control systems also available)
TControl EASY 3S and TControl POD glass controllers (other electromechanical or electronic control systems also available)
WRC: wall-mounted remote control for Plogic

Operating limits

Entering water temperature (without glycol).

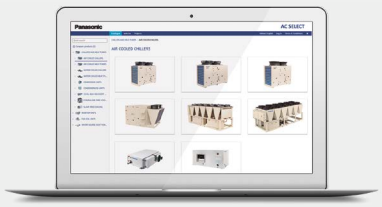


Indoor air temperature.



AC SELECT.

Smart and user-friendly the new air conditioning selection program: https://acselect.panasonic.eu/



Technical features

Fan coil wall AC fan			P-FW07(IR) S2/S3/S4 [1]	P-FW09(IR) S2/S3/S4 [1]	P-FW18(IR) S2/S3/S4 [1]	P-FW22(IR) S2/S3/S4 [1]
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		m³/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

Fan coil wall AC fan			P-FW09IR-3W S2/S3/S4 [1]	P-FW22IR-3W S2/S3/S4 [1]
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		m³/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).

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

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Fan coil 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

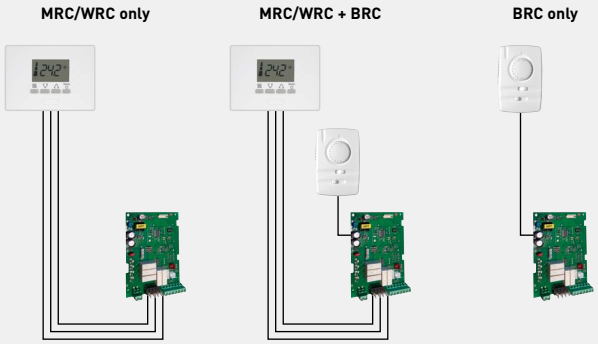
These controllers allow the control of more than one fan coil unit per controller but maintaining the same fan and temperature settings (a slight temperature variation is possible within the same zone). Plogic is the Panasonic group controller that allows you to control multiple units with a single control.

3 Centralized and group controller

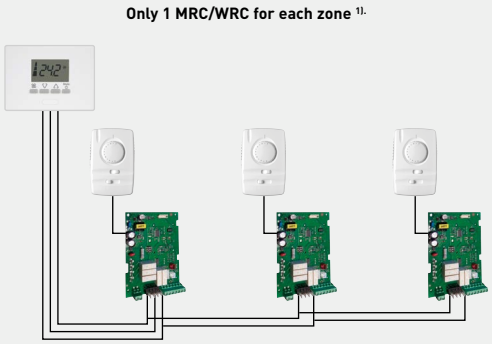
Due to the advanced technical capability, it is possible to control different climatic zones with different settings and ambient conditions. The combination of Plogic + BMS and SRC are the perfect example for this type of control.

Plogic (zone controller) with remote control.

1| Plogic. Different individual control possibilities.

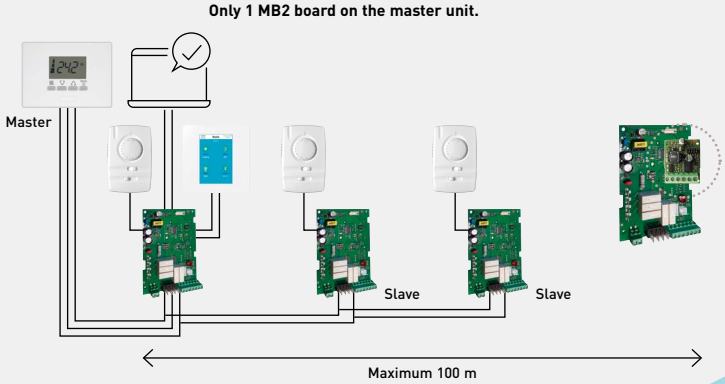


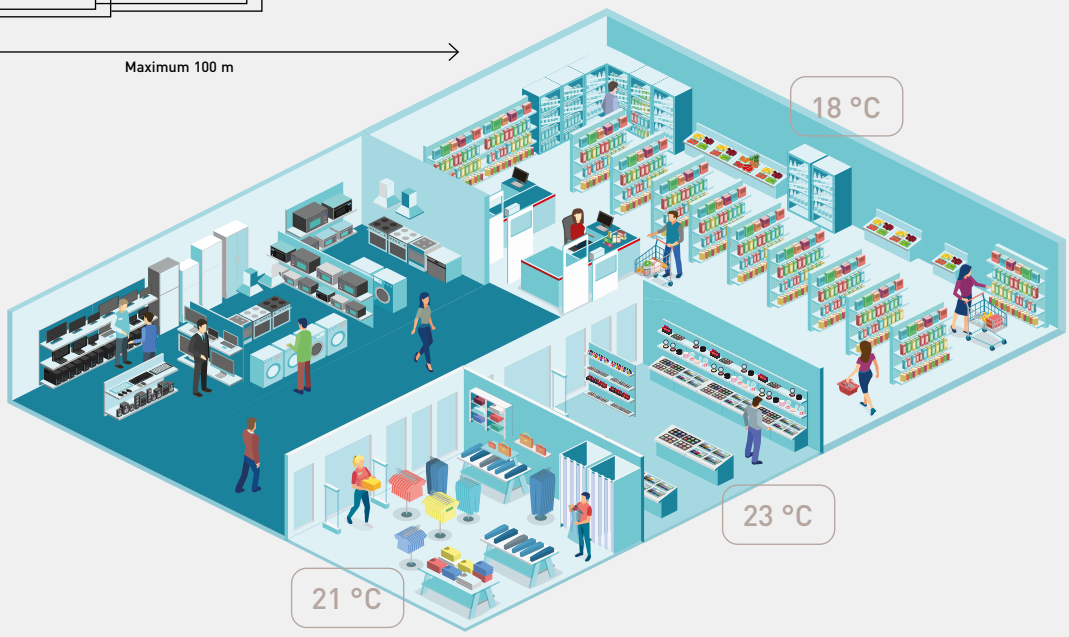
2| Plogic. Group control (without BMS).



1) Up to 15 Plogic/fan coil units. Fan coil units can be of different types, with AC or EC fan motor.

3| Centralized and group control with BMS and SRC.





FK1 controllers

	Model	Fan Control	Mode Changeover	Motorised Flap Control	Naone X Fucnction	Econavi Function	Weekly Timer	Cloud Control App	ANC3	64ESMC3	256ESMC3
 	CZ-RTC6W CZ-RTC6 Non-wireless	**Via R1 R2**	**Manual / Auto**	✔	✔	✔	–	–	✔	✔	✔
	CZ-RTC6WBLW2 CZ-RTC6BLW2 With Wi-Fi and Bluetooth®	**Via R1 R2**	**Manual / Auto**	✔	✔	✔	–	✔	✔	✔	✔
	CZ-RTC5B	**Via R1 R2**	**Manual / Auto**	✔	✔	✔	✔	–	✔	✔	✔
	CZ-RWS3	**Infrared**	**Manual / Auto**	✔	✔	✔	–	–	✔	✔	✔
	T-CONTROL POD	**0-10 V**	**Manual / Auto / Centralised**	–	–	–	✔	–[1]	–	–	–
	PAW-FC-903EC	**0-10 V**	**16 groups, maximum 64 units**	–	–	–	–	–	–	–	–

1. Setting is not possible when a remote controller unit is present (use the remote controller for setting). * All specifications subject to change without notice.

FK1 Infrared remote controller

CZ-RWS3

· Easy installation for the 4 Way Cassette type by simply replacing the corner part
· 24 hour timer function
· Remote controller by main remote controller and sub controller is possible (maximum 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit)
· When CZ-RWS3 is used, infrared control becomes possible for all indoor units (1: when a separate receiver is set up in a different room, control from that room also becomes possible. 2: automatic operation by means of the emergency operation button is possible even when the remote controller has been lost or the batteries have been exhausted)
· Operation of separate energy recovery ventilators (when commercial ventilation fans or heat-exchange ventilation fans have been installed, they can be operated with this remote controller (interlocked operation with the indoor unit or independent ventilation ON / OFF)

nanoe X

ECONAVI

FK1 Individual controllers wired

CONEX wired remote controller

CZ-RTC6W // CZ-RTC6 // CZ-RTC6WBL // CZ-RTC6BL // CZ-RTC6WBLW2 // CZ-RTC6BLW2 [1]
· 3 line-up: - CZ-RTC6W // CZ-RTC6: Non-wireless
- CZ-RTC6WBL // CZ-RTC6BL: Bluetooth®
- CZ-RTC6WBLW2 // CZ-RTC6BLW2: Wi-Fi and Bluetooth®
· Colours: 6W: White. 6: Black
· Intuitive control with stylish design profile
· Clean face with full flat and LCD display
· Dimension (H x W x D): 86 x 86 x 25 mm

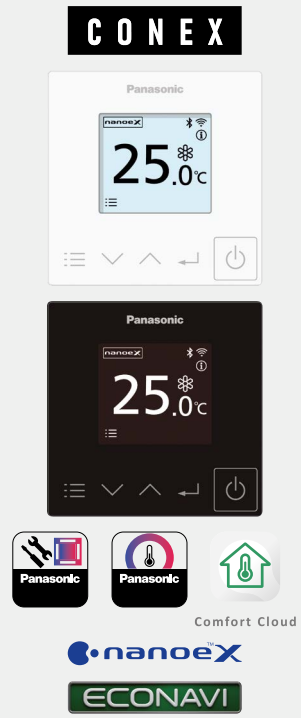
Panasonic H&C Control App [2].
· Daily remote control operation via Bluetooth®
· Quick and easy App set-up for system setting

Panasonic H&C Diagnosis App [3].
· Easy access to service parameters and service checker data via Bluetooth®

Panasonic Comfort Cloud App
· Especially designed for end users
· Remote operation via Wi-Fi

Basic operation.
· Mode setting: Heat / Cool / Dry / Fan / Auto
· Temperature setting
· Fan speed: 5 levels
· Air flow direction
· nanoe™ X and Econavi setting
· Weekly program [4]

1] Compatible with PACi NX Series.
2] CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW2 or CZ-RTC6BLW2 required.
3] A service checker interface is required. Compatible with PACi NX Series.
4] Can be set from Panasonic H&C Control App.



Design wired remote controller

CZ-RTC5B
· Power consumption monitor (only for PACi NX)
· Flat face design and touch sensor switch for stylish design and operating usability
· Functions such as for energy saving and monitoring and for service use are available on the full dot LCD (3,5" display)
· Improved illumination
· White LED backlit
· Blink when alarm occurs

* Panasonic App is required on your smartphone.

Basic Operation.
· Operation
· Mode
· Temperature setting
· Air flow volume
· Air flow direction

Timer function.
· Outing function
· Weekly program timer
· Easy ON / OFF timer
· Time display

Energy saving.
· Outing function
· Temperature setting range limitation
· Temperature auto return
· OFF remind
· Schedule demand control
· Energy saving mode
· Energy monitoring

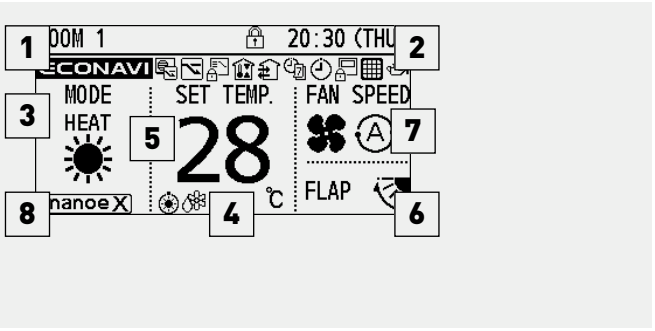
Others.
· Key lock
· Ventilation fan control
· Display contrast adjustment
· Remote controller sensor
· Quiet operation mode
· Prohibit setting control from central controller
· Rotation / backup control

* Rotation and backup control with CZ-RTC5B is available for all PACi NX systems.

CZ-RTC5B - Basic function

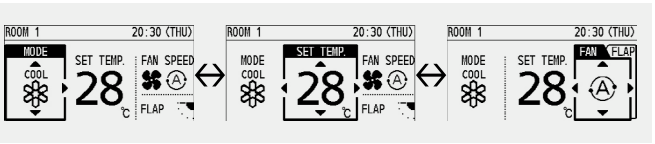
All functions are easily available on the remote controller.

- ON / OFF timer
- Weekly timer
- Quiet operation
- Remote controller sensor
- Operation prohibit
- Filter sign
- Energy saving
- Centralized control indication
- Mode change prohibit
- Automatic temperature return
- Temperature range limitation
- OFF remind
- Schedule demand control
- Ventilation
- Out Function



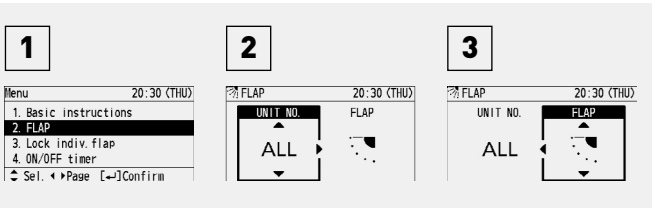
Easy operation and quick access to all menus

1 | Set temperature will be selected, when any arrow button is touched
2 | Select the item (Mode or Fan speed) by left/right ◂▸ key
3 | Change the setting by up/down ▴▾ key



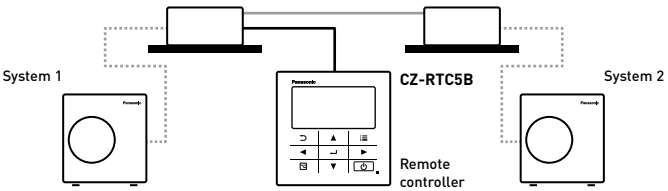
Example of easy access to the functions: air direction setting

1 | Select "Air direction" and press "Enter" key
2 | Select the unit number by up/down ▴▾ key
3 | Select the flap position by up/down ▴▾ key
4 | Press "Return" key to go back the Menu display



Backup control by using CZ-RTC5B

Group wiring of 2 systems of PACi NX can do auto individual control: Rotation operation, backup operation and support operation.



Functions available on the CZ-RTC5B

Control item	Controllability	Indoor units	
		PACi NX	VRF
Basic operation	Operation, Mode, Temperature setting, Air flow volume, Air flow direction	✔	✔
Timer function	Time display	✔	✔
	Easy ON / OFF timer	✔	✔
	Weekly program timer	✔	✔
Energy saving	Outing function	✔	✔
	Temperature auto return	✔	✔
	Temperature setting range limitation	✔	✔
	OFF remind	✔	✔
	Energy saving mode	✔	✔
	Schedule demand control	✔	✔
	Energy monitoring - R32	✔	—

Control item	Controllability	Indoor units	
		PACi NX	VRF
Maintenance	System failure information	✔	✔
	Service contact registration	✔	✔
	Filter sign (rest time display) and reset	✔	✔
	Auto-address, Test run	✔	✔
	Sensor value monitor	✔	✔
	Simple / Detail setting mode	✔	✔
Others	Key lock	✔	✔
	Ventilation fan control	✔	✔
	Display contrast adjustment	✔	✔
	Remote controller sensor	✔	✔
	Quiet operation mode	✔	—
	Prohibit setting control from central controller	✔	✔

* All specifications subject to change without notice.

Test Run Using the Wired Remote Controller

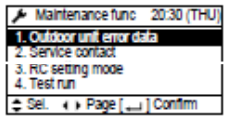
CZ-RTC5B (High-spec wired remote controller)

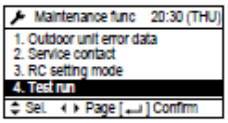
This mode places a heavy load on the machines. Therefore use it only when performing the test run.

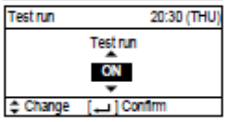
(1) Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
The "Maintenance func" screen appears on the LCD display.

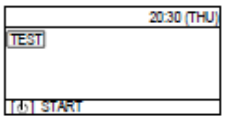
(2) Press the [▼] or [▲] button to see each menu. If you wish to see the next screen instantly, press the [◀] or [▶] button.
Select "4. Test run" on the LCD display and press the [↵] button.
Change the display from "OFF" to "ON" by pressing the [▼] or [▲] button.
Then press the [↵] button.

(3) Press the [↩] button. "TEST" will be displayed on the LCD display.

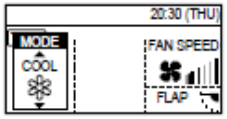








(4) Press the [⏻] button. Test run will be started.
Test run setting mode screen appears on the LCD display.
- The test run can be performed using the HEAT, COOL, or FAN operation mode.
- The temperature cannot be adjusted when in test run mode.
- If correct operation is not possible, a code is displayed on the remote controller LCD display. (Regarding the alarm contents, see the SUPPLEMENT at the end of this manual.)



(5) After the test run is completed, proceed from Step (1) and change to "OFF" at Step (2).
- To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes.

Fault Codes

When the [START/ STOP is prohibited.] message is displayed
- Being centrally controlled, operation is not possible.

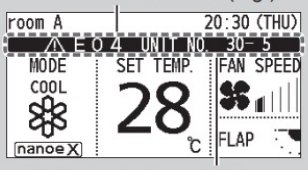
Blackout?
- After recovery from blackout, press ⏻ again.
→If operation does not start, turn off the circuit breaker and consult the dealer of purchase about the symptom and Model No.

Is the circuit breaker turned off?
- Turn it on and press ⏻ again.
→If operation does not start, turn off the circuit breaker and consult the dealer of purchase about the symptom and Model No.

Is [Assigning] blinking?
- After blinking stops, press ⏻ again.
→If operation does not start, turn off the circuit breaker and consult the dealer of purchase about the symptom and Model No.

Is [⚠] displayed?

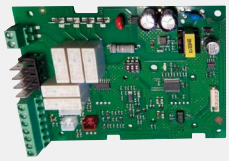
Alarm indication (e.g.)



Defective indoor unit No.

- If any of the following alarm indications appears, stop operation once and restart approx. 1 minute later.
(Alarm indication, off)
[•E04 •E06 •P10 •P20 •H06]
→If the indication does not reappear, use the unit.
→If the indication reappears or an alarm indication other than the above (combination of numbers and characters such as E, F, H, L and P) appears, stop operation, turn off the circuit breaker and consult the dealer of purchase about alarm indication, Model No. and indoor unit No.

Cannot stop the operation. Or the unit starts to run automatically even if ⏻ (Off) button is pressed.
- Check if the outing function is activated or not. (🚶)
- Check control by central control device.

		
	TRM-FA	**Plogic**
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	✔	✔
Communication protocol	—	Modbus (with MB2 card)
SRC mini BMS compatibility	—	✔
Functions		
Changeover	Manual	Manual or Auto [1]
Fan speed selection	Manual	Manual or Auto
Fan operation	Cyclic [2]	Continuous [3] or cyclic [2]
Master/slave	—	✔ Up to 15 slave units
Time programming	—	—
Fan compatibility		
AC	✔	✔
EC with ecospeed card	✔	—
EC 0-10 V	—	✔
Valve compatibility		
ON / OFF 230 V	✔	✔
Controller power supply		
230 V	—	✔
Mounting type		
Wall-mounted or mounted on the unit	Wall	Unit

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.

					
	TControl EASY 3S	**TControl POD glass**	**PAW-FC-RC1**	**PAW-FC-903EC** **PAW-FC-907EC**	**PAW-FC-903AC** **PAW-FC-907AC**
	✔	✔	✔	✔	✔
	✔	✔	—	—	—
	—	✔	—	—	—
	—	—	—	—	—
	✔	✔	✔	✔	—
	—	Modbus	Modbus	Modbus	—
	—	✔	✔	✔	—
	Manual or Auto [1]	Manual or Auto [1] or centralized	Manual or Auto	Manual	Manual
	Manual or Auto	Manual or Auto	Manual or Auto	Manual or Auto	Manual or Auto
	Continuous [3] or cyclic [2]	Continuous [3] or cyclic [2]	—	Continuous [3] or cyclic [2]	Continuous [3] or cyclic [2]
	—	—	—	—	—
	—	✔	—	—	—
	✔	✔	✔	—	✔
	✔	—	✔	—	—
	—	✔	—	✔	—
	✔	✔	✔	✔	✔
	✔	✔	✔	✔	✔
	Wall (surface or embedded)	Wall (surface or embedded)	Wall (embedded)	Wall (embedded)	Wall (embedded)

Remote controls.

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

WRC / MRC [1]

BRC

IRC [1]

1) Integrated temperature sensor.

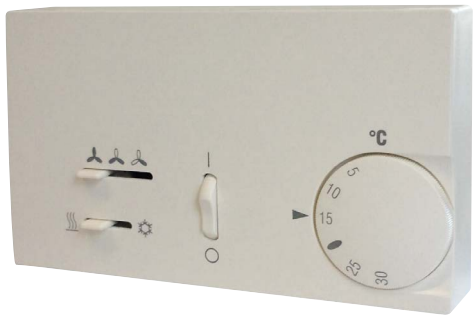
SRC - mini BMS controller.

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

Note: Electrical heaters maximum power may vary according to the controller without a relay.

AC Fan Motor Controller - TRM-FA



The range at a glance

The TRM-FA is an electromechanical control system designed primarily for fan coil units in HVAC applications. It provides reliable and straightforward control for heating and cooling systems, particularly in 2-pipe and 4-pipe configurations.

Key Features

- Manual Switching: Allows manual selection between heating and cooling modes.
- Fan Speed Control: Manual selection of fan speeds (typically low, medium, high).
- Cyclic Fan Operation: The fan stops automatically when the set temperature is reached, conserving energy.

Compatibility

- Works with AC and EC fans (with eco-speed cards).
- Supports ON/OFF control of valves at 230V.

Applications

- Ideal for residential and commercial buildings using fan coil units.
- Supports basic automation without the need for complex digital systems.
- Often used in retrofit projects or environments where simplicity and reliability are prioritised.

Operating Voltage	230V 50Hz
Contact Configuration	SPDT
Temperature Range	5 TO 30^{0}c
Switching Current at 230V AC	6A (cos θ=1) /3A (cos θ =0.6)
Switching Differenctial	approx. 0.5K
Sensor System	< bimetal
Switches	ON / OFF
	Mode of operation
	Fan speed

AC Fan Motor Controller - PAW-FC-RC1

The range at a glance

The PAW-FC-RC1 is an advanced room thermostat and controller designed for managing heating and cooling systems in residential and commercial environments. It supports both 2-pipe and 4-pipe fan coil installations, flexible control over temperature and airflow.

Key Features

- Touchscreen Interface: Displays current operating status and allows access to all control parameters including setpoint, hysteresis, and fan speed.
- Heating/Cooling Control: Digital outputs manage valves and fan speeds, enabling precise regulation of room temperature.
- Fan Speed Regulation: Supports 3-speed fan control with options for AUTO mode.
- Changeover Function: Allows switching between heating and cooling modes manually or automatically via sensor input.
- Sensor Integration: Includes inputs for temperature sensors and presence detection (e.g., key card switch).
- Modbus RTU Compatibility: Enables integration with Building Management Systems (BMS).
- Installation Flexibility: Clamp-on temperature sensor and modular design allow for easy setup and maintenance.
- Fan Speed Control: Manual selection of fan speeds (typically low, medium, high).
- Cyclic Fan Operation: The fan stops automatically when the set temperature is reached, conserving energy.

Applications

- Ideal for use in hotels, offices, and residential buildings where individual room climate control is required. The controller helps prevent cold drafts in winter by stopping the fan when water temperature is low, enhancing comfort and energy efficiency.

Control Modes

- The thermostat can be used both for 2-pipe systems (standard) and 4-pipe systems. The control mode function enables the thermostat to support control of various room HVAC systems, that is, di]erent combinations of heating and cooling devices that are part of a room. The thermostat can be set to one of the following two control modes:
- Two pipe system: Heating or Cooling (change- over)
- Four pipe system: Heating and Cooling

Two pipe system:

- This control mode is suitable for room HVAC systems that use a 2-pipe fan coil as heating and cooling device (see Figure 2-1). A change-over function makes it possible to use the thermostat in a 2-pipe changeover system, where warm or cold media flow in the same pipes and one valve is used to regulate both heating and cooling distribution.
- The thermostat is either in heating or cooling mode and switches between the modes according to the change-over function settings.

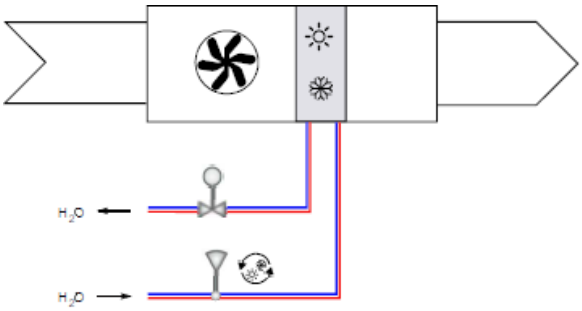


Figure 2-1 A two pipe system

Four pipe system:

- In the 4-pipe system, the thermostat automatically switches between being a heat thermostat and a cool thermostat. This control mode is suitable for room HVAC systems that use a fan coil as heating or cooling device.
- The thermostat works as a heat thermostat when the room temperature is lower than a specified temperature and as a cool thermostat when the room temperature is higher than a specified temperature.

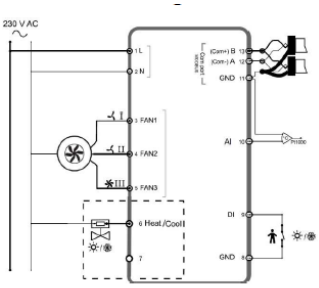


Figure 4-1 2-pipe wiring (standard)

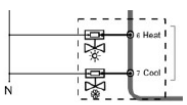
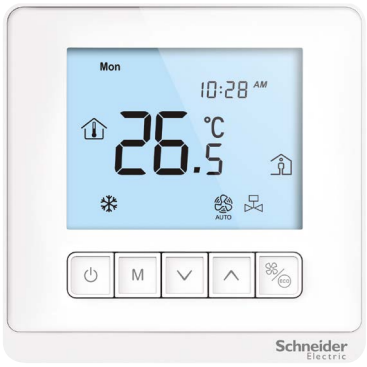


Figure 4-2 4-pipe wiring

AC Fan Motor Controller - PAW-FC-903AC



The range at a glance

The PAW-FC903AC is a wired remote controller designed for use with Panasonic fan coil units. It offers intuitive control and monitoring of HVAC systems, enhancing user comfort and system efficiency.

Key Features

- User Interface: Simple and clear display with tactile buttons for easy operation.

Control Functions

- Temperature setting and adjustment.
- Fan speed control.
- Mode selection (e.g., cooling, heating, auto)

Installtion

- Wall-mounted design
- Compact dimensions for discreet placement
- Straightforward wiring and setup

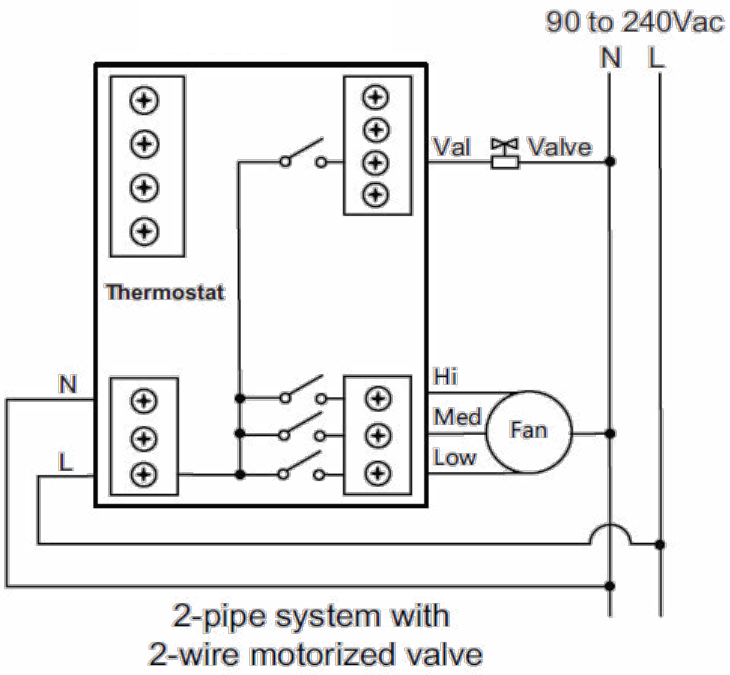
Compatibility

- Designed to work with PAW-FC fan coil units.
- Supports integration with 2-way or 3-way ON/OFF valves.

Applications

- Ideal for residential, commercial, and hospitality environments where precise climate control is required.

Wiring Diagram



AC Fan Motor Controller - PAW-FC-907AC

The range at a glance

controller specifically designed for Panasonic AC fan coil units. It provides precise control over indoor climate settings.

Key Features

- Backlit LCD Display: Stylish and easy-to-read interface suitable for residential, commercial, and hospitality environments.

Control Functions

- Temperature setting and adjustment.
- Temperature adjustment
- Fan speed regulation.
- Mode selection (cooling, heating, auto)

Installtion

- Wall-mounted design
- Simple wiring and setup

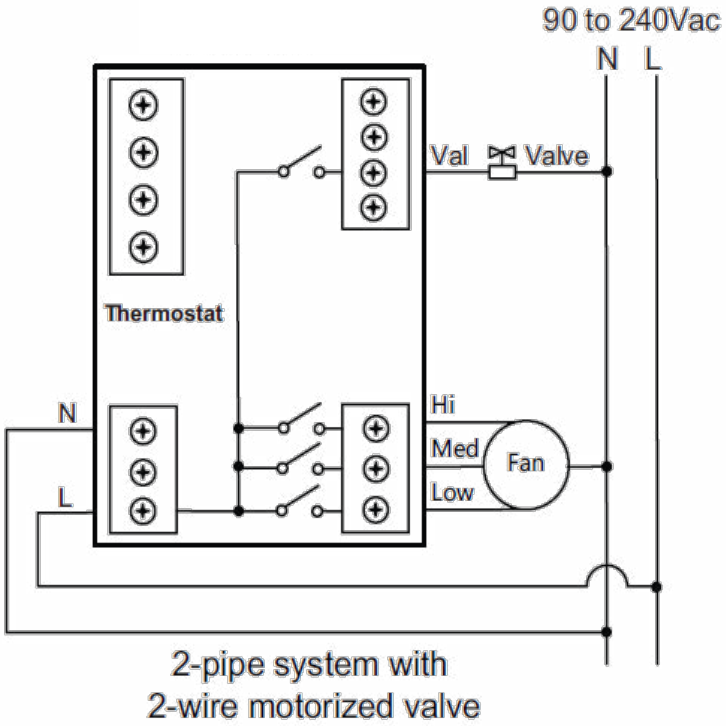
Modbus Communcations

- Supports Modbus protocol for integration into building management systems (BMS)
- Includes registers for discrete inputs, coils, and holding/input registers.

Applications

- Ideal for offices, hotels, and residential buildings where enhanced control and energy efficiency are priorities.

Wiring Diagram



TControl Easy 3S

The range at a glance

The TControl Easy 3S is a flush-mounted fan coil room thermostat designed for intuitive and precise temperature control in commercial, industrial, and residential buildings. It supports both two-pipe and four-pipe fan coil systems with ON/OFF electric valves and is compatible with AC fan motors.

Key Features

- Flush-mounted with a sleek, compact casing (86 × 86 × 49 mm)
- Large LCD display
- Simple button navigation for temperature and fan speed control

Control Functions

- Supports multiple fan stages (Low, Medium, High, Auto)
- Adjustable temperature settings
- ON/OFF valve control

Installtion

Surface or flush mounting options

Additional Functions

- Room sensor integration for accurate temperature measurement
- Maintenance-friendly design with easy cleaning instructions

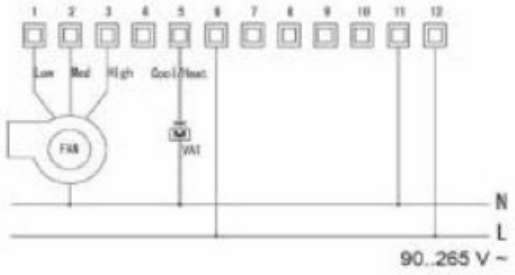
Applications

Ideal for buildings requiring individual room climate control, including:

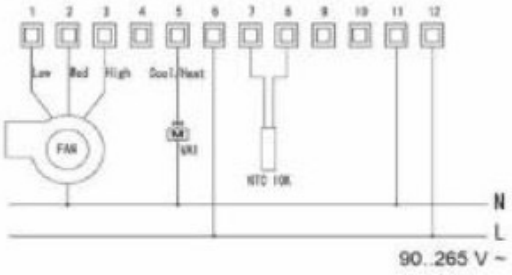
- Office spaces
- Hotels
- Residential apartments
- Industrial facilities

Wiring Diagram

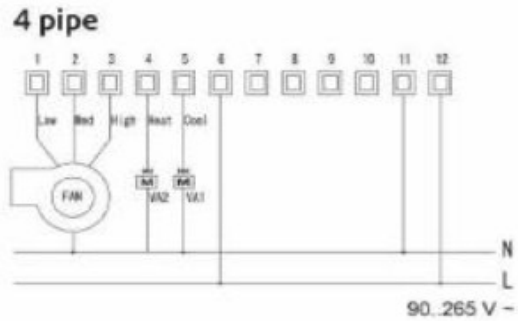
2 pipe



2-pipe with external sensor



4 pipe



TControl POD Glass AC

The range at a glance

The TControl POD Glass AC is a flush-mounted fan coil room thermostat designed for stylish and precise control of AC fan coil units in commercial, residential, and hospitality environments. It combines modern aesthetics with robust functionality, supporting both 2-pipe and 4-pipe systems with ON/OFF electric valves.

Key Features

- Available in white or black glass finish
- Features a 2.5" LCD glass display with touch- sensitive interface.
- Flush-mounted for a sleek, cable-free appearance.

Control Functions

- Supports AC fan motors with 3-step fan speed control.
- Controls heating and cooling via two relay outputs (max 240 V / 3 A)
- Temperature adjustment with high accuracy
- Fan speed selection (Low, Medium, High, Auto)
- Mode switching: Comfort, Eco, Standby
- Alarm function for exceeded temperature/time thresholds.

Smart Inuts

- Universal input for external sensors (e.g., occupancy, temperature)
- 230 V digital input for window contact or change-over sensor

Connectivity

- Modbus RTU protocol over RS-485 for integration with building management systems
- Programmable schedules: 3 programs with 4 time periods each

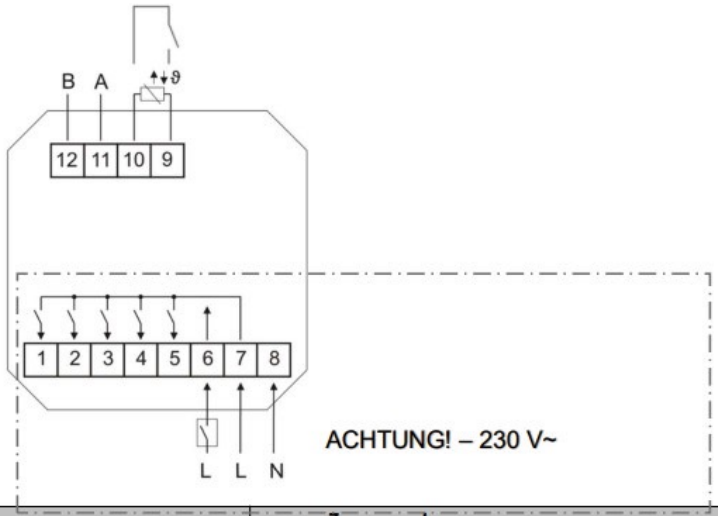
Energy Efficiency

- Standby mode maintains frost and heat protection.
- Deadband configuration between heating and cooling in Eco mode

Applications

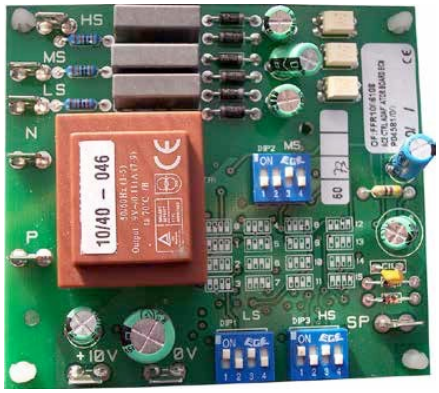
- Hotels and serviced apartments
- Office buildings
- High-end residential spaces
- Any installation requiring AC fan coil control with a premium user interface.

Wiring Diagram



1	fan step 3	7	L
2	fan step 2	8	N
3	fan step 1	9	input for NTC 10 K / floating contact
4	Cooling	10	
5	Heating	11	Modbus A
6	230 V digital input	12	Modbus B

EcoSpeed 3 - EC motor interface board



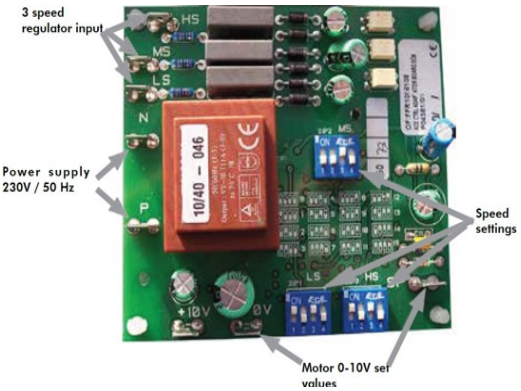
The range at a glance

The TControl Easy 3S is a flush-mounted fan coil room thermostat The interface board for the EC motor has been designed to control a low consumption, high energy efficiency motor (EC/HEE) with a "3 speed" regulator. This offers the user a range of 3 operating speeds to maximise electricity savings, while using a regulator usually fitted with chilled water terminals. (Aquanet, Aquasimp, TRM...)
Amongst other features, this interface board, o]ers the following possibilities, to:

- Ensure a minimum air flow if the appliance is equipped with electrical heating.
- Limit maximum motor speed.

Terminals

Marking	Terminal	Type
P	230 V supply	6.35 mm male terminal
N	Neutral- Supply	6.35 mm male terminal
HS	HS (High Speed)	6.35 mm male terminal
MS	MS – (Medium Speed)	6.35 mm male terminal
LS	LS – Low Speed	6.35 mm male terminal
0V	0V motor (isolated)	6.35 mm male terminal
SP	0-10V set values	6.35 mm male terminal
10V	10V – Not used	6.35 mm male terminal



DIP Switch Settings

Speed	Voltage range	Setting via DIP
PV - LS	0-5V	16 uniform steps
MV - MS	0-8V	16 uniform steps
GV -HS	0-10V	16 uniform steps

DIP Setting				Set Voltage		
1	2	3	4	PV	MV	GV
OFF	OFF	OFF	OFF	0.00	0.00	0.00
ON	OFF	OFF	OFF	0.33	0.53	0.67
OFF	ON	OFF	OFF	0.67	1.07	1.33
ON	ON	OFF	OFF	1.00	1.60	2.00
OFF	OFF	ON	OFF	1.33	2.13	2.67
ON	OFF	ON	OFF	1.67	2.67	3.33
OFF	ON	ON	OFF	2.00	3.20	4.00
ON	ON	ON	OFF	2.33	3.73	4.67
OFF	OFF	OFF	ON	2.67	4.27	5.33
ON	OFF	OFF	ON	3.00	4.80	6.00
OFF	ON	OFF	ON	3.33	5.33	6.67
ON	ON	OFF	ON	3.67	5.87	7.33
OFF	OFF	ON	ON	4.00	6.40	8.00
ON	OFF	ON	ON	4.33	6.93	8.67
OFF	ON	ON	ON	4.67	7.47	9.33
ON	ON	ON	ON	5.00	8.00	10.00

⚠ LS set value <MS set value <HS set value

EC Fan Motor Controller - PAW-FC-903EC

The range at a glance

The PAW-FC903EC is a wired remote controller specifically designed for Panasonic EC fan coil units. It provides intuitive and energy-efficient control of indoor climate systems, optimised for EC motor technology.

Key Features

- Clear LCD display
- Simple button layout for temperature and fan speed control
- Designed for EC motor fan coils.
- Supports 0–10 V fan speed modulation.

Control Functions

- Temperature setting and adjustment.
- Fan speed control (including auto mode)
- Mode selection (cooling, heating, ventilation)

Installtion

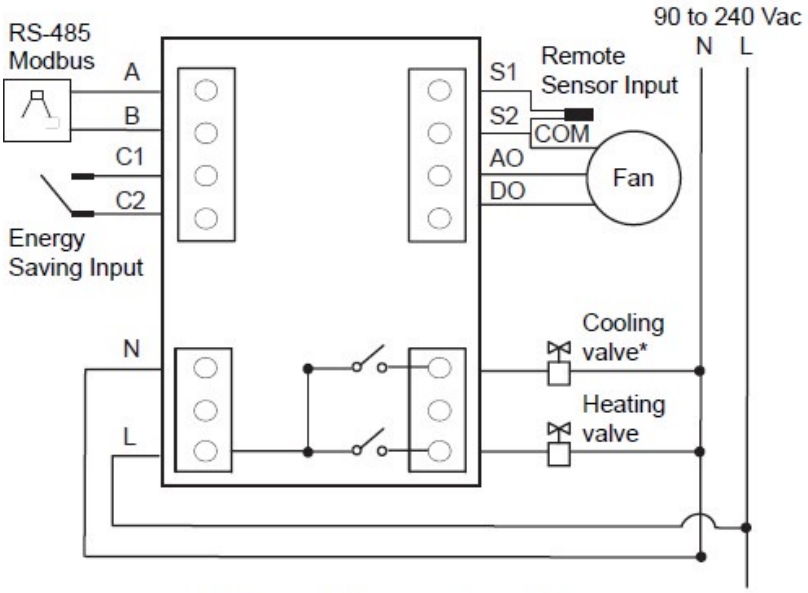
- Wall-mounted design
- Compact and discreet
- Easy wiring and setup
- Optimised for EC motors, enabling precise airflow control and reduced energy consumption.

Applications

- Commercial buildings
- Hotels and hospitality environments
- Residential spaces requiring efficient and quiet climate control.

Wiring Diagram

PAW-FC-903/907EC



2-pipe or 4-pipe system with 2-wire motorized valve and ECM fan

* Cooling/Heating valve in 2-pipe system

EC Fan Motor Controller - PAW-FC-907AC

The range at a glance

The PAW-FC907EC is a wired remote controller designed specifically for Panasonic EC fan coil units, o]ering advanced control features and energy-e]icient operation. It is optimized for use with EC motors, providing precise modulation and enhanced comfort.

Key Features

- Backlit LCD display for clear visibility
- Intuitive button layout for easy operation
- Designed for EC motor fan coils.
- Supports 0–10 V fan speed control.

Control Functions

- Temperature setting and adjustment.
- Fan speed control (Low, Medium, High, Auto)
- Mode selection: Cooling, Heating, Ventilation

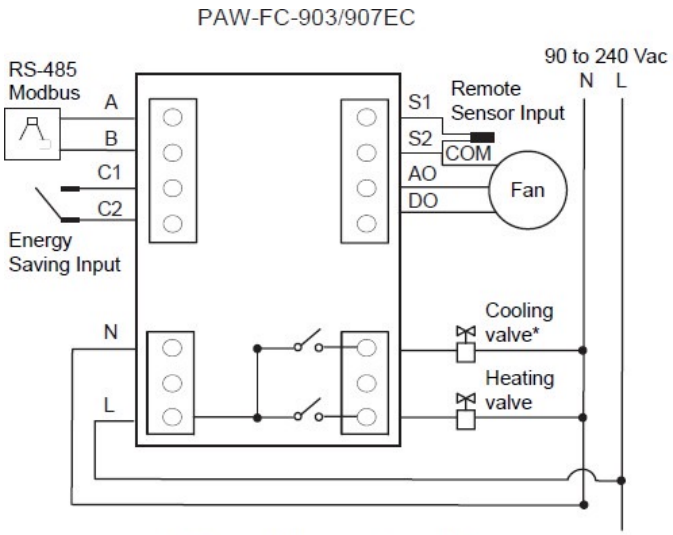
Installtion

- Wall-mounted design
- Compact and discreet
- Simple wiring and setup
- EC motor compatibility ensures precise airflow control and reduced energy consumption.

Applications

- Commercial buildings
- Hotels and hospitality environments
- Residential installations requiring quiet and efficient climate control.

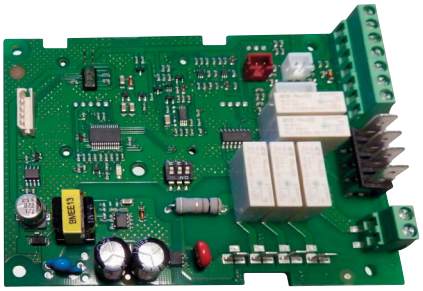
Wiring Diagram



2-pipe or 4-pipe system with 2-wire motorized valve and ECM fan

* Cooling/Heating valve in 2-pipe system

Plogic and Associated Controllers



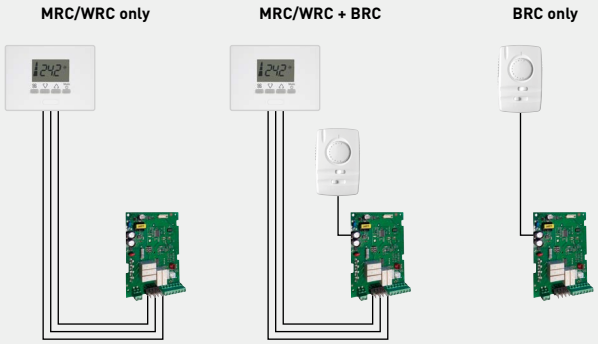
The Plogic MRC Remote Terminal is a modular, wall- mounted interface unit designed for integration with Plogic fan coil controllers and other HVAC control systems. It provides remote access to system parameters, enabling simplified monitoring, configuration, and diagnostics of connected devices.

Key Features

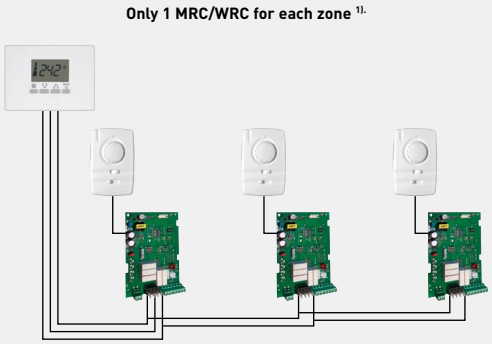
- Custom architecture for HVAC and industrial control
- Integration of safety, security, and power efficiency

Plogic (zone controller) with remote control.

1| Plogic. Different individual control possibilities.

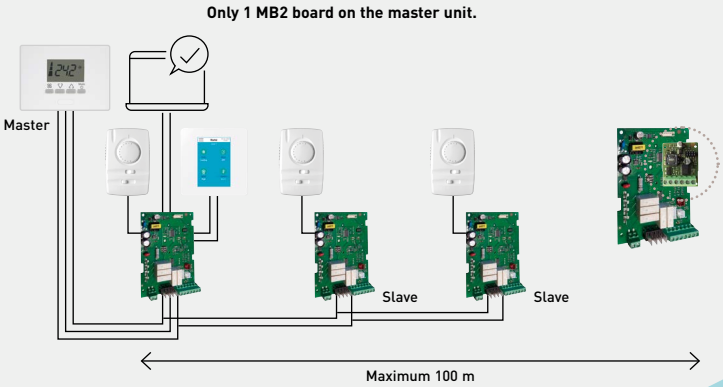


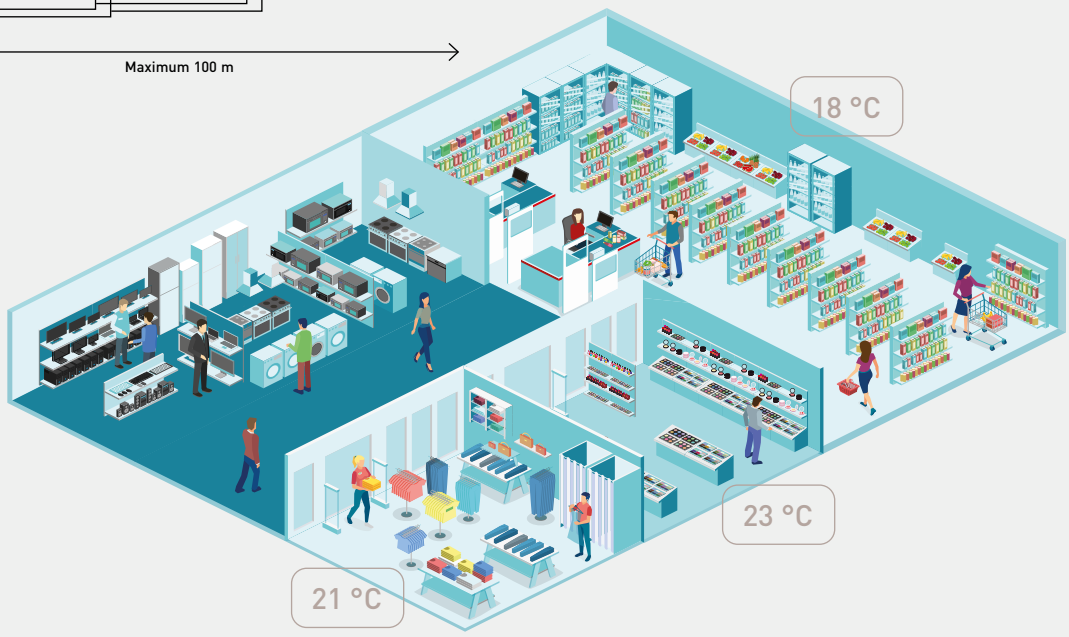
2| Plogic. Group control (without BMS).



1) Up to 15 Plogic/fan coil units. Fan coil units can be of different types, with AC or EC fan motor.

3| Centralised and group control with BMS and SRC.





HVAC Control Integration

- Compatible with fan coil controllers and Modbus RTU systems
- Enables remote terminal access, diagnostics, and parameter adjustment.

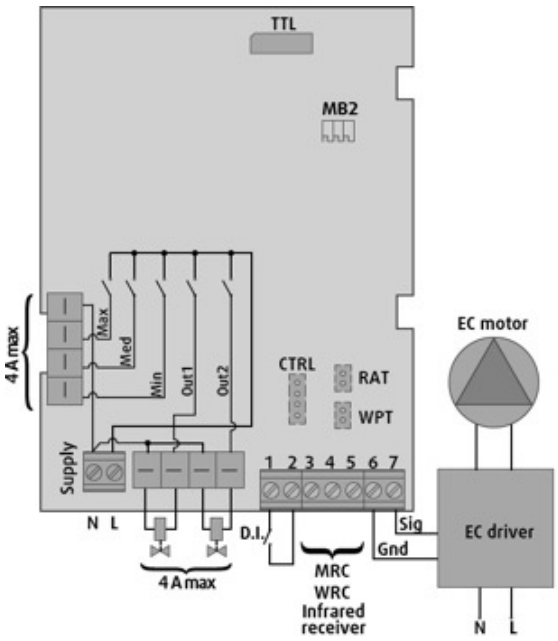
Applications

- HVAC zone and fan coil control
- Smart building automation
- Industrial process control
- Medical and consumer electronics
- IoT-enabled systems

Main PCB Wiring

- Compatible with fan coil controllers and Modbus RTU systems
- Enables remote terminal access, diagnostics, and parameter adjustment.

Main PCB Wiring

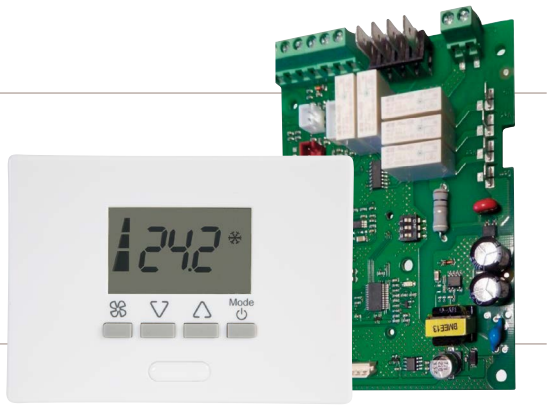


RAT	Air probe with quick connector
WPT	Water probe with quick connector
1-2	Digital input D.I.
3	MRC/WRC connection (GND)
4	MRC/WRC connection (SIGNAL)
5	MRC/WRC connection (+12 V)
6	Analogue output (GND)
7	0 - 10 V analogue output (SIG)
Supply	100 ... 240 Vac power supply input
N/L	EC driver power supply
Min	Relay 3 digital output (low speed)
Med	Relay 4 digital output (medium speed)
Max	Relay 5 digital output (maximum speed)
Out1	AUX 1 digital output (cooling valve)
Out2	AUX 2 digital output (heating valve)
MB2	Connection for Modbus Module
CTRL	Quick connector for on-board control
TTL	TTL quick connector for DMI interface

Caution, do not connect EC driver power supply to "SUPPLY" on-board connector. Power the EC driver by the means of a direct mains voltage connection.

Machine configuration	Output out1	Output out2
1 valve	Cooling/Heating valve	Not used
2 valves	Cooling valve	Heating valve
With electric heaters	Cooling/Heating valve	Electric heater (2A max)

WRC / MRC for Plogic



The range at a glance

The Plogic WRC (Wall Remote Control) and MRC (Modular Remote Control) terminals are user interface modules designed for integration with Plogic fan coil controllers. These terminals provide remote access to HVAC control parameters, enabling intuitive operation and diagnostics from within the room or service area.

Key Features

- WRC: Wall-mounted LCD display with tactile buttons
- MRC: Modular design for panel or wall integration
- Clear display of temperature, fan speed, and operating mode
- Fully compatible with Plogic control boards
- Connects via dedicated terminal blocks.

Control Functions

- Remote adjustment of temperature setpoints
- Fan speed selection (Low, Medium, High, Auto)
- Mode switching (Cooling, Heating, Ventilation)
- Alarm display and system status feedback.

Installtion

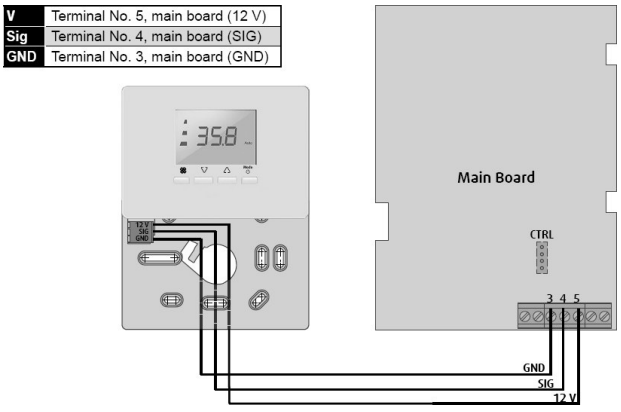
Compact form factor for discreet mounting
Simplifies commissioning and servicing without accessing the main controller.

Applications

- Hotels and serviced apartments
- Office buildings
- Multi-zone HVAC systems
- Facilities requiring local room control with centralised management.

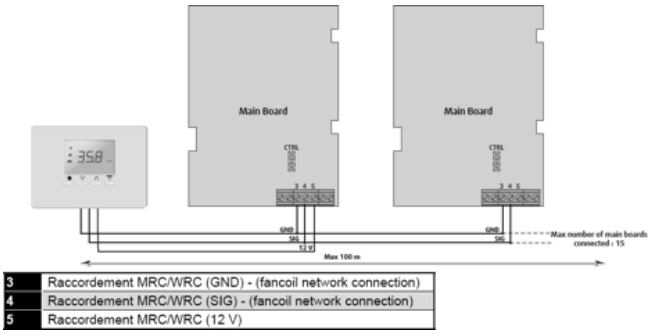
Wiring Diagram

Single Unit



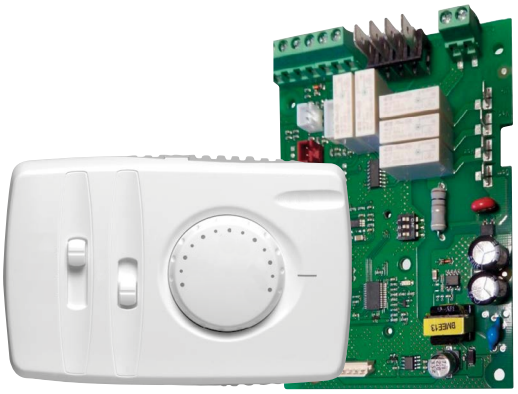
- We recommend cable of section 0.5mm² (Beldon Type) for the connections between the main boards and the MRC/WRC remote terminal.

Multi-unit control



- We recommend cable of section 0.5mm² (Beldon Type) for the connections between the main boards and the MRC/WRC remote terminal.
- Maximum number of units 15.

BRC for Plogic



The range at a glance

The Plogic BRC (Basic Remote Control) is a compact, wall-mounted terminal designed for integration with Plogic fan coil controllers. It provides a simplified interface for basic HVAC control functions, making it ideal for installations where minimal user interaction is required.
The BRC remote control is not a thermostat. It is used to control the unit's operation, the fan speed and to shift the temperature set-point by approximately 5°C.

Key Features

- Minimalist design with basic control buttons
- LED indicators for system status
- No display screen, ensuring tamper-resistant operation.

System Integration

- Connects directly to Plogic control boards via dedicated terminal blocks.
- Supports basic control functions such as temperature adjustment and mode selection.

Control Functions

- Setpoint adjustment (via predefined increments) ±5°
- Fan speed control (Low, Medium, High)
- Mode switching (Cooling, Heating, OFF)
- Alarm indication via LED.

Applications

- Commercial buildings
- Hotels and hospitality environments
- Residential installations requiring quiet and efficient climate control.

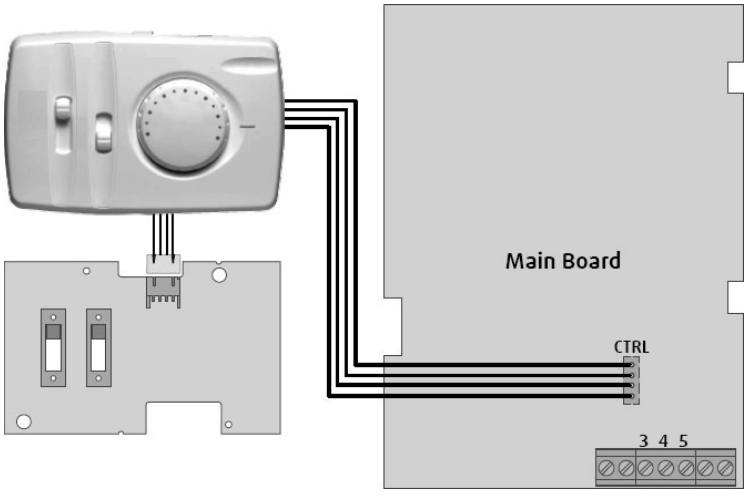
Installation & Maintenance

- Compact and discreet for wall or panel mounting
- Ideal for guest rooms, public areas, or service zones
- Reduces complexity for end users while maintaining essential control access.

Applications

- Hotels and serviced apartments
- Office buildings
- Multi-zone HVAC systems
- Areas requiring simplified or restricted user control.

Wiring Diagram

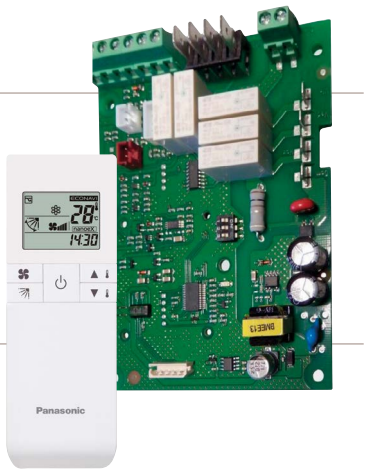


The remote terminal BRC of the main board is connected by means of the cable supplied, with a polarised JST connector. Supplied with a cable measuring 500 mm in length

No.	Description
1	Ventilation control/auto
2	ON/OFF
3	Temperature control ±5 °C / °F

Switching off the unit by the MRC/WRC remote control has priority over all other commands of the BRC

IRC for Plogic



The range at a glance

The Plogic BRC (Basic Remote Control) is a compact, wall-mounted terminal designed for integration with Plogic fan coil controllers. It provides a simplified interface for basic HVAC control functions, making it ideal for installations where minimal user interaction is required.
The BRC remote control is not a thermostat. It is used to control the unit's operation, the fan speed and to shift the temperature set-point by approximately 5°C.

Key Features

- Wireless Control
- Uses infrared (IR) signals to communicate with IRC-enabled Plogic controllers.
- No physical external wiring required, ideal for retrofit or guest room applications.

User Interface

- Button-based layout with intuitive symbols.
- LED feedback on the controller or receiving unit.
- Range typically up to 9 meters (line-of-sight)

Control Functions

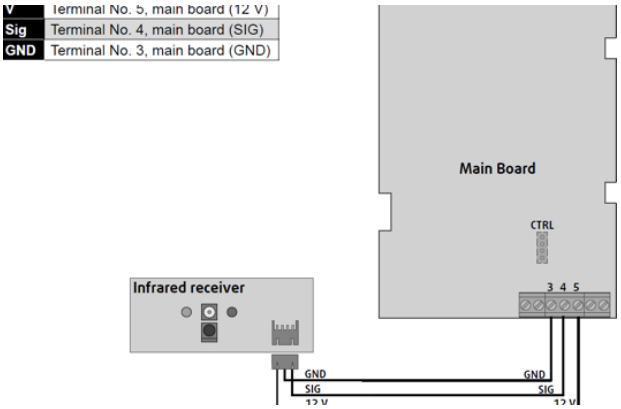
- Temperature setpoint adjustment
- Fan speed selection (Low, Medium, High, Auto)
- Mode switching (Cooling, Heating, Ventilation, OFF)
- On/OFF control and optional timer functions

Power & Design

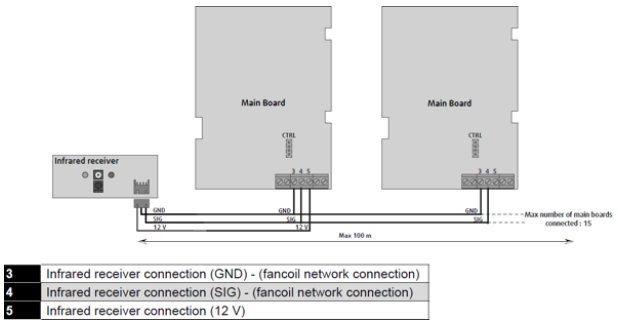
- Powered by standard lithium coin cell battery (e.g., CR2025)
- Lightweight and compact for handheld use
- Tamper-resistant and user-friendly for hospitality environments.

Wiring Diagram

Single Unit

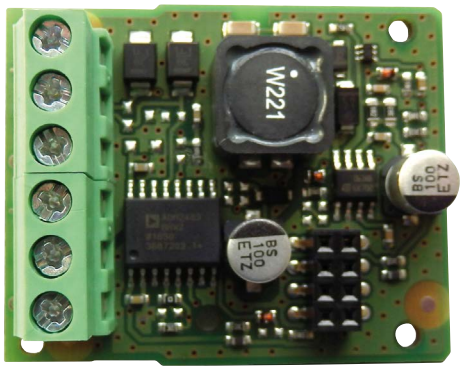


Multi-unit control



- We recommend cable of section 0.5mm² (Beldon Type) for the connections between the main boards and the infrared receiver.
- Maximum number of Plogic PCBs is 15.

Modbus Control Module (MB2)



The range at a glance

The Plogic MB2 is a versatile and compact Modbus- enabled control PCB designed for integration into HVAC systems, particularly fan coil units managed via Plogic controllers. It acts as the central logic and communication hub, enabling precise control, remote access, and seamless integration with building management systems (BMS).

Key Features

- Modbus RTU Communication:
- Native support for Modbus RS-485 protocol
- Enables real-time data exchange with BMS platforms.
- Facilitates remote monitoring, diagnostics, and parameter adjustment.

Control Capabilities

- Manages heating/cooling mode switching.
- Supports fan speed control (Low, Medium, High, Auto)
- Handles input from sensors (temperature, occupancy, window contact)
- Controls outputs for valves, fans, and auxiliary devices

Remote Terminal Compatibility

- Works with Plogic WRC, MRC, BRC, IRC terminals
- Supports infrared remote control (IRC) for wireless room-level access.

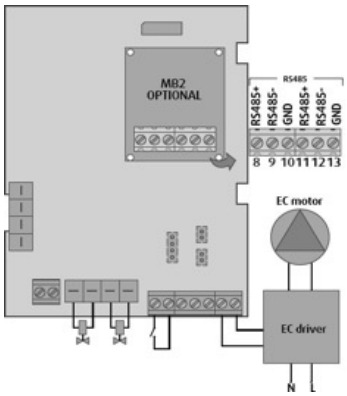
Energy & Safety Features

- Deadband control between heating and cooling
- Frost protection and standby modes.
- Alarm signalling and fault detection.

Applications

- Hotels and serviced apartments
- Office buildings with multi-zone HVAC
- Residential systems requiring intelligent fan coil control.
- Projects needing Modbus-compatible control boards for BMS integration.

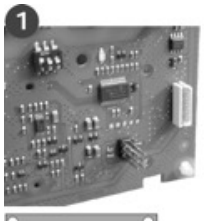
Wiring Diagram

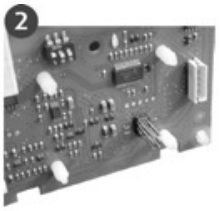


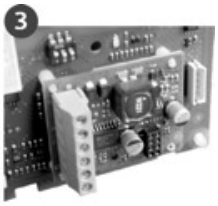
8	RS485+:"+" signal for RS485 serial port
9	RS485-: "-" signal for RS485 serial port
10	GND: 0 V signal ground
11	RS485+:"+" signal for RS485 serial port
12	RS485-: "-" signal for RS485 serial port
13	GND: 0 V signal ground

The remote terminal BRC of the main board is connected by means of the cable supplied, with a polarised JST connector. Supplied with a cable measuring 500 mm in length

Typ	Modbus RTU
Speed	9600 bauds
Data length	8 bit
Stop	1 bit
Parity	none







1. Location of the Modbus Module
2. Locating spacers installed
3. Modbus module installed

Shielded twisted single pair cable with screen 0.33 mm² to 0.5mm² (AWG 20/22)

SRC Smart Remote Control

The range at a glance

The Plogic SRC is a compact, wall-mounted smart room controller designed for integration with Plogic fan coil control systems. It provides a user-friendly interface for managing room-level HVAC settings, combining intuitive operation with advanced control capabilities.

Key Features

- LCD or LED display (model-dependent)
- Tactile or capacitive buttons for mode and temperature control
- Visual indicators for system status and alarms
- Temperature setpoint adjustment
- Fan speed control (Low, Medium, High, Auto)
- Mode selection (Cooling, Heating, Ventilation, OFF)
- Alarm display and override functions.

Installation & Design

- Flush or surface-mounted options
- Compact footprint for discreet room integration
- Ideal for guest rooms, o_ices, and service zones
- The SRC Smart Controller connects to the SRC communication board via an RJ10 plug.
- The SRC communication board requires a 230v 50hz power supply.
- It can control up to 31 units in 15 separate zones

Energy & Comfort Features

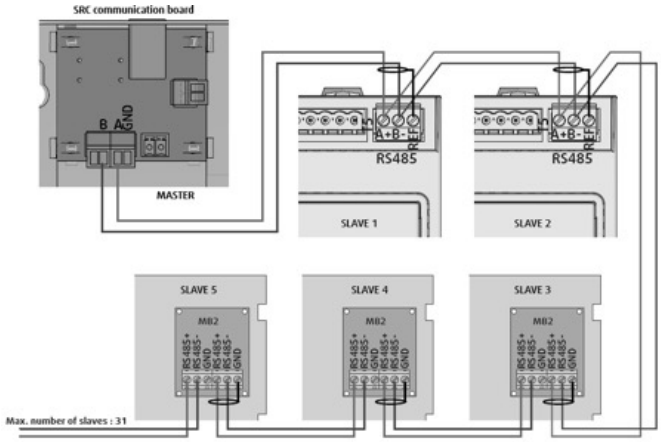
- Deadband control between heating and cooling
- Standby and eco modes for energy savings
- Optional occupancy and window contact input support

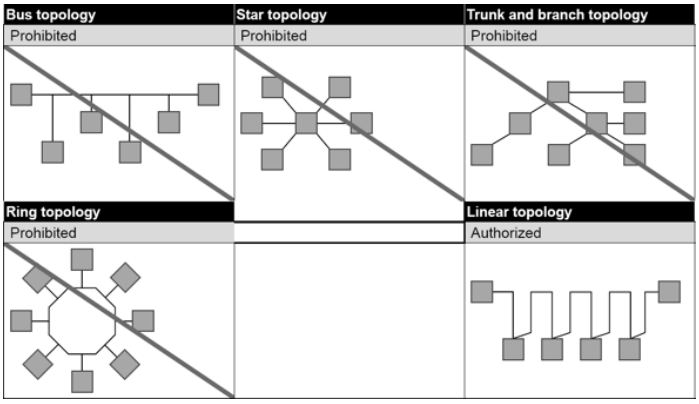
Applications

- Hotels and serviced apartments
- Multi-zone HVAC systems in commercial buildings
- Residential installations requiring smart, localised control.

Wiring Diagram

- The interconnection wires must be a screened twisted pair (Beldon type). The wire impedance shall be between 100 and 130 ohms, and its cross-sectional area between 0.12 and 0.3 mm2 (26 to 22 AWG).
- Each network is limited to 31 units and a distance of 1,000 metres. However, we recommend using a repeater well before reaching the limits and in accordance with the geographical constraints.





INFORMATION The transmission is configured in 9600 baud, without parity, with 8 data bits and 1 stop bit.

Panasonic Commercial Remote Controllers - CZ-RTC5B

The range at a glance

The Panasonic CZ-RTC5 is a high-spec wired remote controller designed for precise and user- friendly management of Panasonic air conditioning systems.
It offers advanced control features, a clear interface, and compatibility with various Panasonic HVAC setups, making it ideal for both residential and commercial environments.

Key Features

- Backlit LCD Display: Provides clear visibility in all lighting conditions, enhancing usability.
- Multi-Language Support: Accessible to a wide range of users across different regions.
- Comprehensive Control: Allows adjustment of temperature, fan speed, operation mode, and scheduling.
- User-Friendly Interface: Intuitive navigation for quick access to settings and functions.
- Energy Efficiency: Supports features that help optimise energy use and reduce operational costs.

Technical Highlights

- Installation: Wall-mounted wired controller; installation instructions provided separately
- Safety Features: Includes alerts and operational safeguards for safe usage in various environments

CZ-RTC6 - Conex Series

The range at a glance

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

Key Features

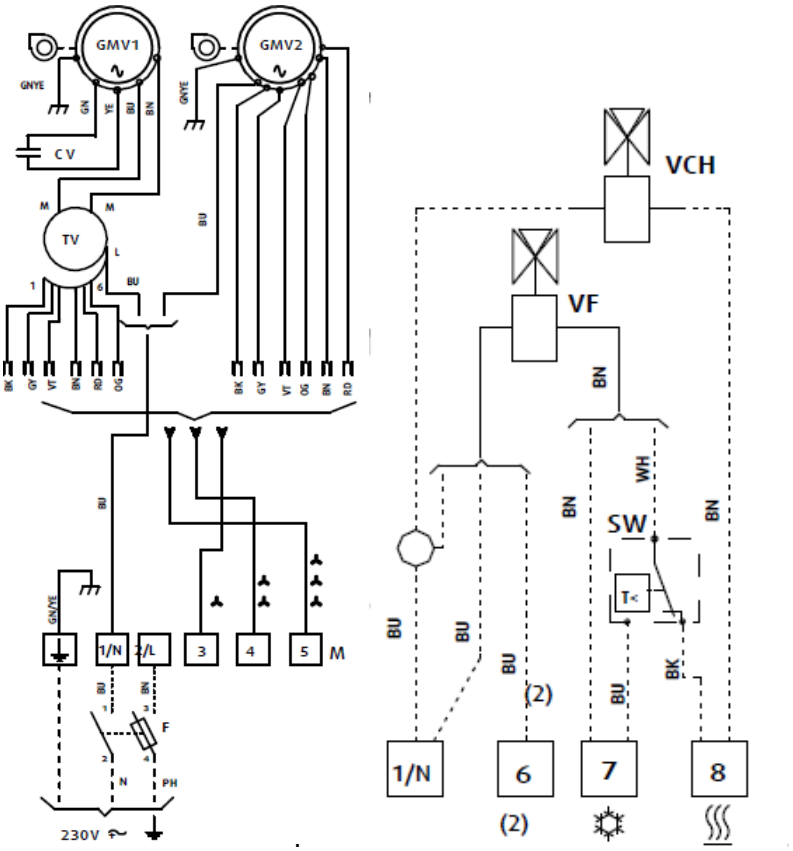
- Touchscreen Interface: A sleek, full-color LCD touchscreen makes navigation and control simple and visually engaging.
- nanoe™ X Control: Enables activation of Panasonic's air purification technology, which helps inhibit pollutants and allergens.
- Customisable Settings: Users can adjust temperature, fan speed, operation mode, and timer settings with ease.

Technical Highlights

- Installation: Wall-mounted wired controller; installation instructions provided separately

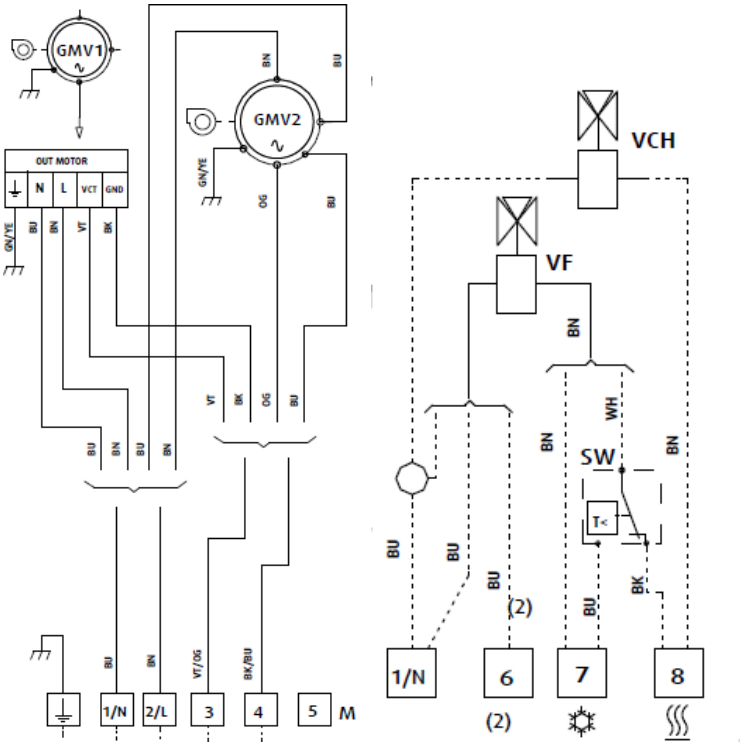
Fan Coil Typical Wiring

Comfort (P-FC) - 2 & 4 Pipe AC Fan



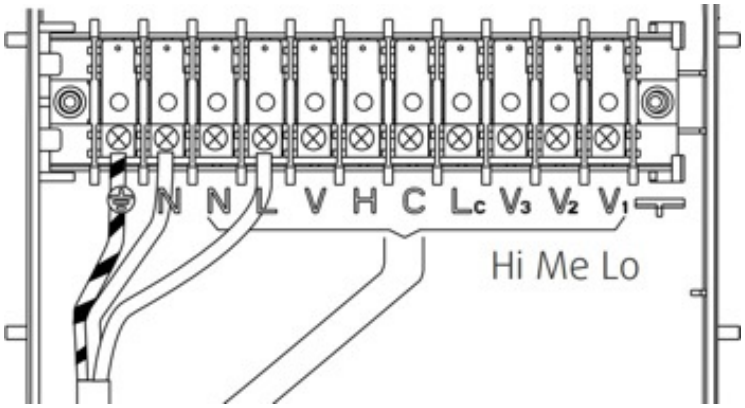
- 1/N – Neutral
- 2/L – Live
- 3 – Low Fan Speed
- 4 – Medium Fan Speed
- 5 – High Fan Speed
- 7 – 2 Pipe Heating & Cooling / 4 Pipe Cooling
- 8 – 4 Pipe Heating

2 Pipe EC & 4 Pipe EC Fan



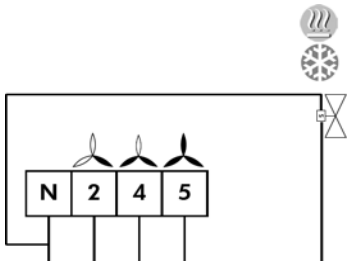
- 1/N – Neutral
- 2/L – Live
- 3 – Low Fan Speed
- 4 – Medium Fan Speed
- 5 – High Fan Speed
- 7 – 2 Pipe Heating & Cooling / 4 Pipe Cooling
- 8 – 4 Pipe Heating

Cassette (P-FQ) - 2 & 4 Pipe AC Fan



- N – Neutral
- L – Live
- V1 – Low speed
- V2 – Medium speed
- V3 – High speed
- H – 2 Pipe Heating & Cooling / 4 Pipe Cooling
- C – 4 Pipe Heating

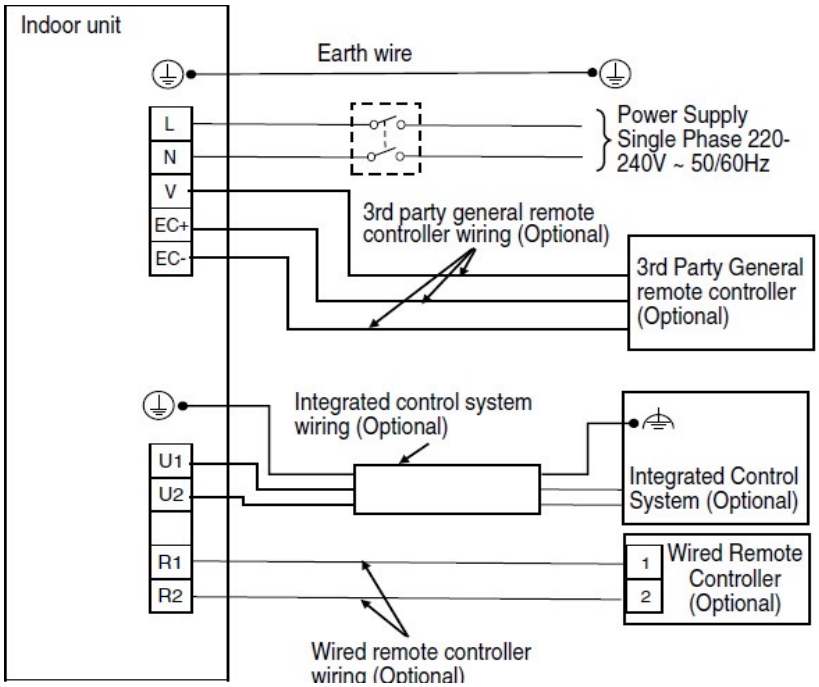
Wall (P-FW) - 2 Pipe AC Fan



- 1/N – Neutral
- 2/L – Live
- 3 – Low Fan Speed
- 4 – Medium Fan Speed
- 5 – High Fan Speed
- 7 – 2 Pipe Heating & Cooling / 4 Pipe Cooling
- 8 – 4 Pipe Heating

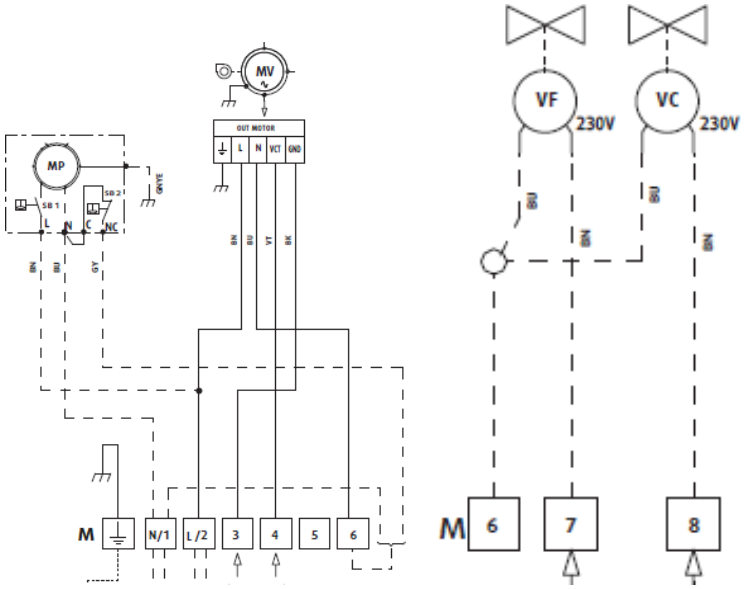
Wall (S-FK)

Compatible with Panasonic DX Commercial remote controllers and Conex series.
Simple wiring connection 2 core connecting to terminals R1-R2 or via 3rd Party EC fan remote controller.



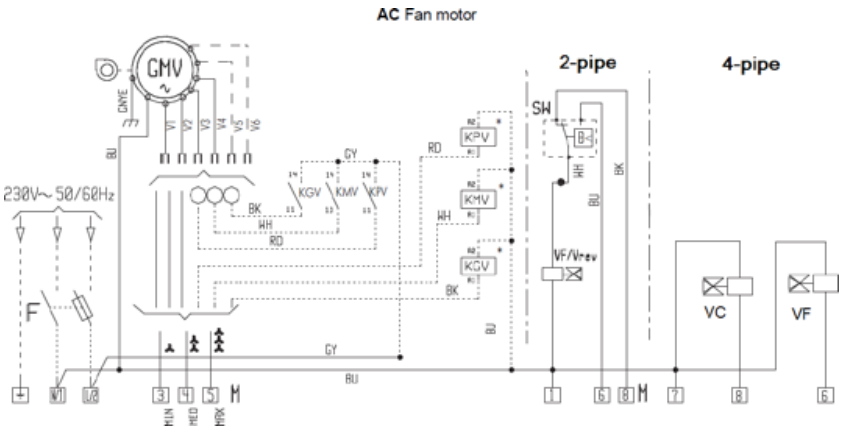
Remarks :
Do not install 3rd Party General remote controller (optional) and Panasonic accessories (optional) that connect to U1, U2, R1 and R2 terminals at the same time.

Medium Static Ducted (P-FD) 2 & 4 Pipe EC Fan



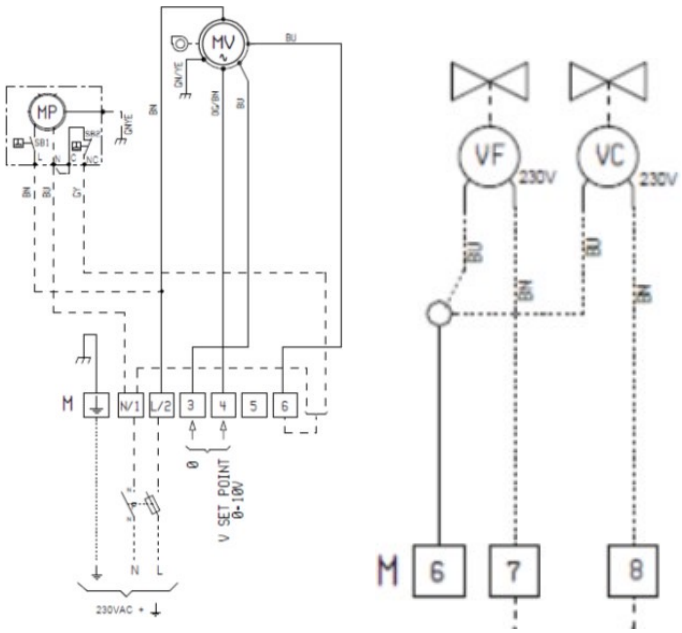
- 1/N – Neutral
- 2/L – Live
- 3 – 10vdc
- 4 – 0Vdc
- 6 – link to neutral
- 7 – 2 Pipe Heating & Cooling / 4 Pipe Cooling
- 8 – 4 Pipe Heating

High Static Ducted (P-FH) - 2 & 4 Pipe AC Fan



1/N – Neutral
2/L – Live
3 – Low fan speed
4 – Medium fan speed
5 – High fan speed
6 – 2 Pipe Heating & Cooling / 4 Pipe Cooling
8 – 4 Pipe Heating

High Static Ducted (P-FH) - 2 & 4 Pipe EC Fan



- 1/N – Neutral
- 2/L – Live
- 3 – 10vdc
- 4 – 0Vdc
- 6 – link to neutral
- 7 – 2 Pipe Heating & Cooling / 4 Pipe Cooling
- 8 – 4 Pipe Heating

PAW-FC-RC1 User Setup Controller (AC Fans 2 / 4 Pipe)

Symbol	Description	
	On/Off button	
	Arrow up = increase button for setpoint adjustment +	for start parameter list: press both together until the display shows 0000, then short "up" to show P001
	Arrow down = decrease button for setpoint adjustment -	
	Changeover button to switch between heating and cooling via the display	
	Fan button to regulate the fan speed via the display between AUTO / MAN (off/1/2/3)	

Starting from display is in active mode, the controller settings can be edited in the following way:
1. Press both arrow buttons together unitl the display shows 0000
2. Then press short 'up' to show P001- Parameter 1
3. Use 'up' or 'down' to step through the parameter lust
4. Press shortly the ON/OFF button. Setting value is shown and flashes
5. Edit the value by using 'up' or 'down' arrow buttons
6. Confirm your edit by pressing the ON/OFF button. Display will jump back to the parameter number.

If the display is left in the parameter menu for more than 10 seconds without any activity (buttons pressed), the controller will automatically exit the parameter menu. The parameter menu can also be left with the selecion of EXIT and confirm with ON/OFF.

The most important parameters are:

No.	Description	Basic	Min	Max
P001	Basic setpoint (SPbasic)	20°C	5	50
P002	Hysteresis used for setpoint calculation at Occupied state (heating and cooling)	1K	1	10
P003	Hysteresis used for setpoint calculation at Standby state (heating and cooling)	5K	1	30

No.	Description	Basic	Min	Max
P045	Display setting Active mode, shows current ... 0 = setpoint 1 = room temperature	1	0	1
P046	Display setting Setpoint (SP) mode, shows ... 0 = calculated SP 1 = SP adjustment	0	0	1
P047	Maximum setpoint adjustment increase	3K	0	20
P048	Maximum setpoint adjustment decrease	3K	0	20
P049	Brightness of segment at Active and Setpoint mode as well as in the parameter list	100 %	0	100
P055	Version number, device type dependent			
EXIT	leave the parameter menu, confirm with On/Off			

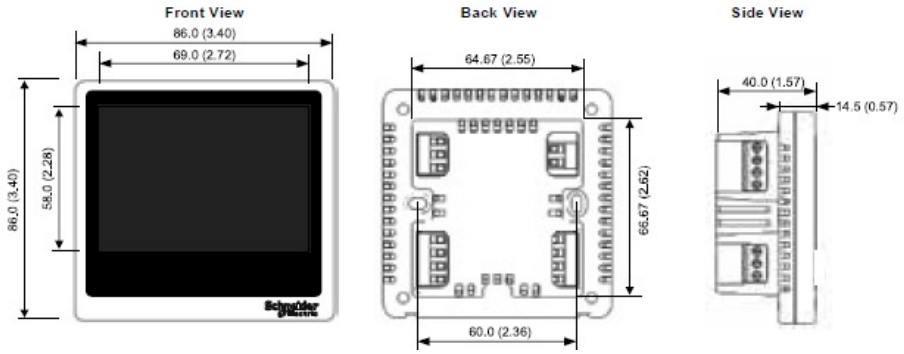
No.	Description	Basic	Min	Max
P008	Controller mode 0 = 2-pipe systems 1 = 4-pipe systems	0	0	1
P009	Change-over mode, fan release function via heat pump supply sensor at AI 4 = manual setting in the display via button 5 = manual Heat 6 = manual Cool 7 = automatic via digital input DI	4	0	7
P010	Temperature difference between the current room temperature and the water temperature (AI1) to release the fan at Heat mode	3K	1	50
P011	Temperature difference between the current room temperature and the water temperature (AI1) to release the fan at Cool mode	3K	1	50
P012	Operating mode for DI 0 = no contact connected 1-2 = not used 3 = presence detector connected (switches between Standby and Occupied state) 4 = change-over (heat pump in COOL mode)	0	0	4
P044	Inactive delay Delay for the display to dim down and enter Idle mode. If set to 0 (Basic) the display never dims down.	0 s	0	600

Error Messages

The controller shows an error message, if the measured temperature is outside the limits or there is no connection to the sensor. The following messages may appear:

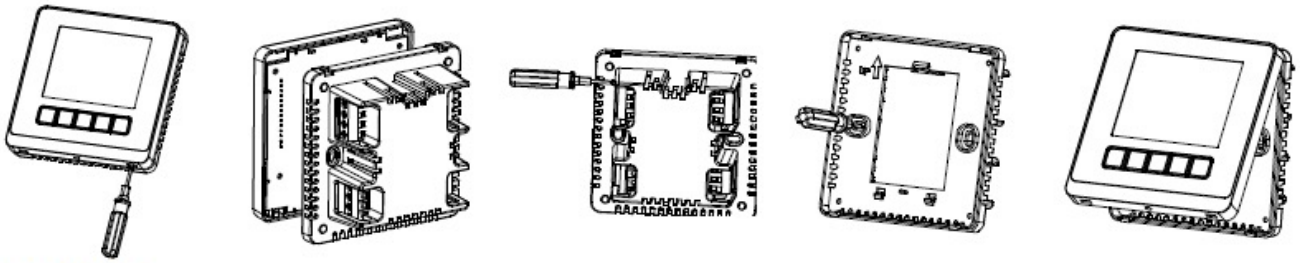
Value	Description	To do
LO	Measured value at AI less than low limit 0°C	check the temperature of the pipeline and the value of the disconnected sensor (must be between 1kΩ and 1,309kΩ)
HI	Measured value at AI exceeds high limit 80°C	
ERR	Error: short circuit or open connection at AI	check the cable between controller AI and the sensor

PAW-FC-907EC – 2 Pipe / 4 Pipe - EC / AC Fans
Installation & Dimensions

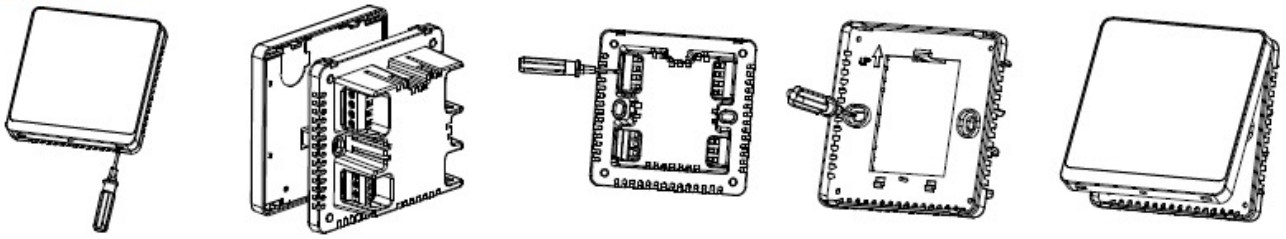


Mounting

PAW-FC-903TC



PAW-FC-907TC



1. Insert a 3.5 mm flat head screwdriver along the bevel into the slot. Pry upwards with appropriate force to release the two hooks.

2. Remove the display from the base module. Carefully remove the wire connections, if required.

3. Connect the wires according to the appropriate wiring diagram shown above. Ensure the polarity of the mains supply is correct.

4. Mount the base module onto the wall box using the two screws supplied.

5. Fit the display module onto the base module. Align upper hooks between the two modules. Carefully replace the wiring connection if it has been removed. Click display module onto base module using the two lower hooks.

Power ON/OFF

A short press of the ON/OFF button will turn the power on. Another short press of the ON/OFF button will turn off the fan coil and motorised valve. If no buttins are pressed for 10 seconds, the thermostat backlight turns off. Press any button to turn the backlight back on.

Temperature Setting

With the power on, press to decrease the temperature setting and to increase temperature in steps of 0.5 °C. The will appear on the display. If no buttons are pressed for six seconds, is displayed, indicating the setpoint is confirmed.

Mode Selection

With the power on, press M to switch the operation mode. The display indicates cooling with , heating with and ventilation with . Auto mode can be selected in the parameter settings and is indicated on the display with .

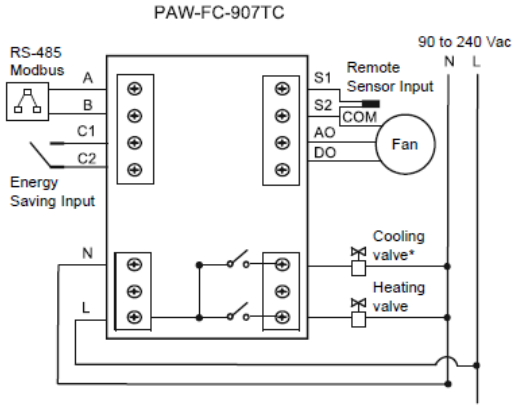
Fan Speed Selection

With the power on, press on 903TC or on 907TC to select a fan wind/air speed of high , medium , low or automatic . In automatic mode, the fan speed changes automatically. For a difference of 1 °C, the fan will automatically switch to low fan speed. For a difference of 2 °C, the fan will automatically switch to medium fan speed. For a difference of 3 °C or more, the fan will automatically switch to high wind speed.

Alert Function

In the event of an operating exception with the temperture sensor (either built-in or external, depending on which is selected), the thermostat will attempt to command the fan and valve to close, place the device in an inoperative state and display the maintainence icon and an 'E1' or 'E2' alert.
E1: Sensor short-circuit alert
E2: Sensor open-circuit alert
'HI' will be displayed if the temperature is higher than 50°C 'LO' will be displayed id the temperature is lower than 0°C.

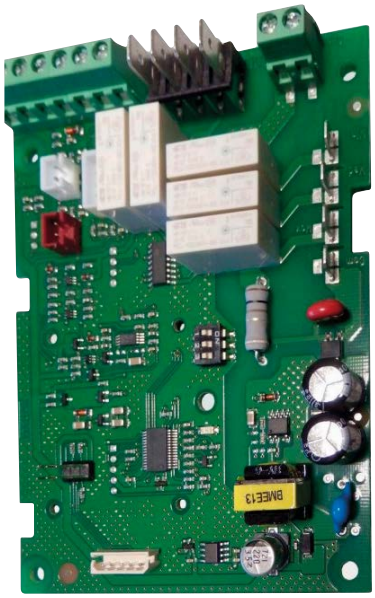
Parameters



2-pipe or 4-pipe system with 2-wire motorized valve and ECM fan

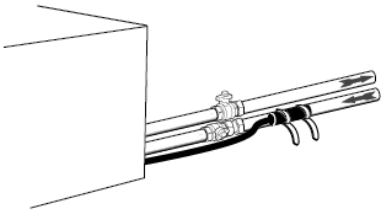
Number	Parameter	Default	Description
01	Low temperature protection	On	OF: Disabled, On: Enabled
02	Fan operation status after temperature setting is reached	DA	Db: Fan off, DA: Fan on
03	Power-on state	00	00: Power-down memory, 01: power-down do not remember, 02: power-up power-on
04	Differential	1°C	1~3 °C
05	ECO mode differential	2°C	1~5 °C
06	Heating set-point upper limit	35°C	5 to 35 °C
07	Cooling set-point lower limit	5°C	5 to 35 °C
08	Auto deadband	1°C	1 to 3 °C (only for 4-pipe Auto mode)
09	Mode button selection (2-pipe)	02	00: Heating only (heating, ventilation), 01: Cooling only (cooling, ventilation), 02: Heating and cooling (heating, cooling, ventilation)
	Mode button selection (4-pipe)	02	00: Heating only (heating, ventilation), 01: Cooling only (cooling, ventilation), 02: Heating and cooling (heating, cooling, ventilation), 03: Auto, 04: 2-pipe mode
10	Auto fan setting	On	OF: Fan Auto disabled - Fan mode setting can be High, Medium or Low, On: Fan Auto enabled - Fan mode setting can be High, Medium, Low or Auto. No Fan Auto in Ventilation mode.
11	Show temperature selection	00	00: Room temperature, 01: Set-point
12	Modbus connection	On	OF: Disabled, On: Enabled
13	Modbus address setting	01	01 to 64
14	Modbus baud rate	01	00: 4800 bps, 01: 9600 bps, 02: 19200 bps, 03: 38400 bps
15	Modbus parity check	00	00: Odd check, 01: Even check, 02: No check
16	Clock display	On	OF: Disabled, On: Enabled
17	12/24 hour clock	24	12: 12-hour clock, 24: 24-hour clock
18	Sleep Energy Saving mode	On	OF: Disabled, On: Enabled
19	Cooling temperature, Unoccupied Energy Saving mode	28°C	22 to 32 °C
20	Heating temperature, Unoccupied Energy Saving mode	16°C	10 to 21 °C
21	Fan speed, Unoccupied Energy Saving mode	02	00: High speed, 01: Medium speed, 02: Low speed
22	Temperature sensor selection	00	00: Built-in, 01: External
23	Low-speed fan output voltage	3.3V	Range: 0V to medium-speed setting
24	Medium-speed fan output voltage	6.6V	Range: Low-speed setting to high-speed setting
25	High-speed fan output voltage	10V	Range: Medium-speed setting to 10V

P-Logic Control PCB – Group Control for 2 Pipe, 4 Pipe, AC & EC



WPT Water Temperature Sensor

The WPT water sensor must always be positioned on the water supply pipe upstream of the valve.
The WPT water sensor is connected to the white terminal.



CAUTION - For a 4-pipe machine, the WPT water sensor must be installed on the hot water pipe

CAUTION - In master/slave control mode, a single WPT water sensor must be connected to the installed Plogic card of the MRC/WRC remote control or infrared control.

RAT AND RCT Airr Temperature Sensor

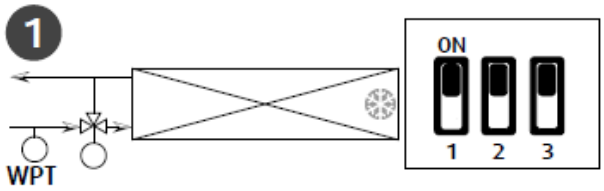
The air temperature, measured by the factory-fitted RAT sensor, is considered as a reference temoerature for the unit.
The RAT air sensor is connected to the red teminal.
If the RAT air sensor is not fitted or is disconnected, the system changes over automatically to the RCT air sensor integrated into the MRC/WRC remote control or infrared remote control receiver.
In master slave control mode, each unit of the zone uses its own air sensor to control its ventilation and valves.

CAUTION - In auto change-over mode, the RAT air sensor is deactivated. The auot change-over mode is fully controlled by the RCT air temperature sensor integrated into the MRC/WRC remote control of infrared remote control receiver

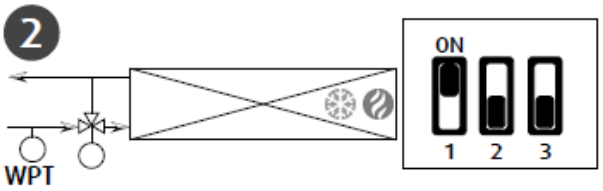
CAUTION - The auot change-over mode is not recommended if thr MRC remote control is fitted to the bodywork of the fan convector unit.

P-Logic Installation Dip-Switch Configuration

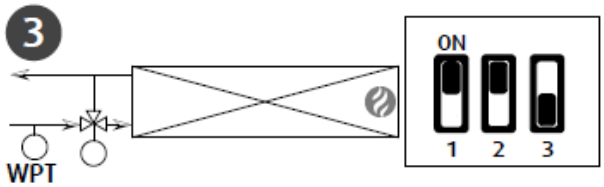
2 pipes with valve - Cooling only



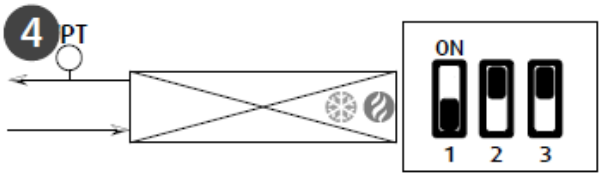
2 pipes with valve - Reversible/change over



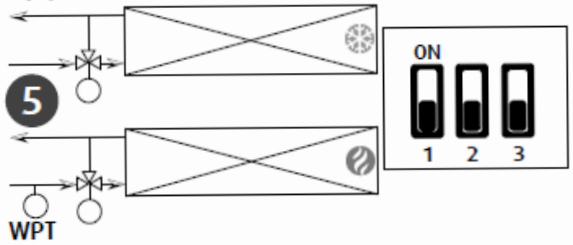
2 pipes with valve - Heating only



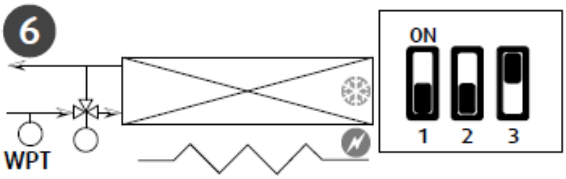
2 pipes without valve - Reversible/change over



4 pipes with valve - Cooling and heating

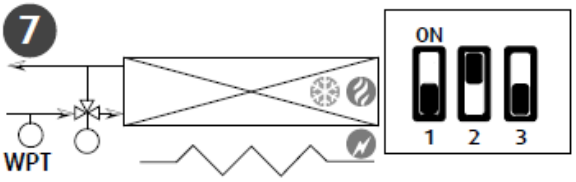


2 pipes with valve and electric heater Cooling/Heating



P07* = 1 (heating only by electrical heater)

2 pipes with valve and electric heater Reversible/change over



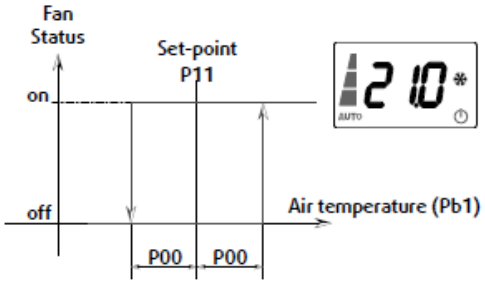
P07* = 0 (electrical heater as aux. heating)

P-Logic Parameters

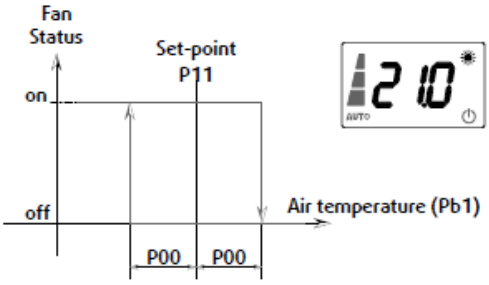
Description	MODBUS			Can be consulted via MRC/WRC
	Type	Gain	Address*	
Room temperature set-point	UW	0.1	1239	rEA
Water temperature (WPT)	UW	0.4	1157	H_2O
Air temperature measured by the remote control (WRC/MRC)	UW	0.1	1066	AiL
Air temperature measured by the air return sensor (RAT)	UW	0.1	1156	Aib
Current operating mode **0** = cooling mode **1** = heating mode **2** = auto change-over mode	enum	1	40001	H_C
Valve 1 position (Out1)	enum	1	1164	✘
Valve 2 position (Out2)	enum	1	1165	✘
Fan speed **1** = LS **2** = MS **3** = HS	enum	1	1166	✘
Digital input **0** = OFF **4** = ON	enum	1	1163	✘
ON/OFF **0** = OFF **1** = ON	enum	1	1227	✘

P-Logic Operation Logic

The room air temperature is controlled by the opening or closing of the valve (if installed) and the activation or deactivation of the ventilation.

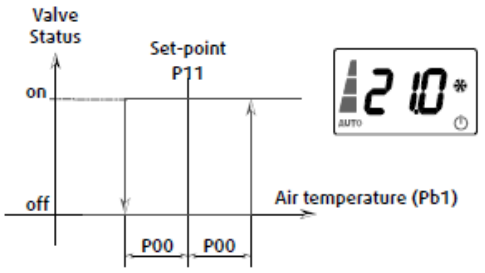


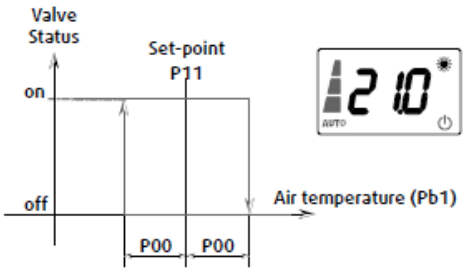
Water inlet temperature < 18°C



Water inlet temperature > 30°C

8.1.2. VALVE

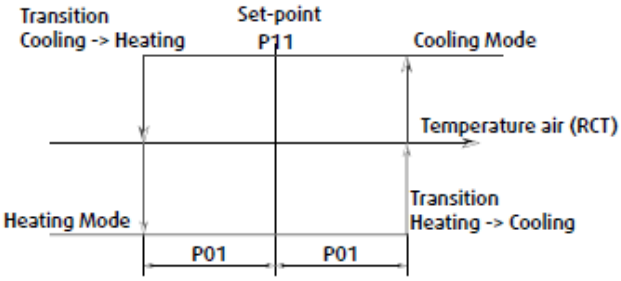




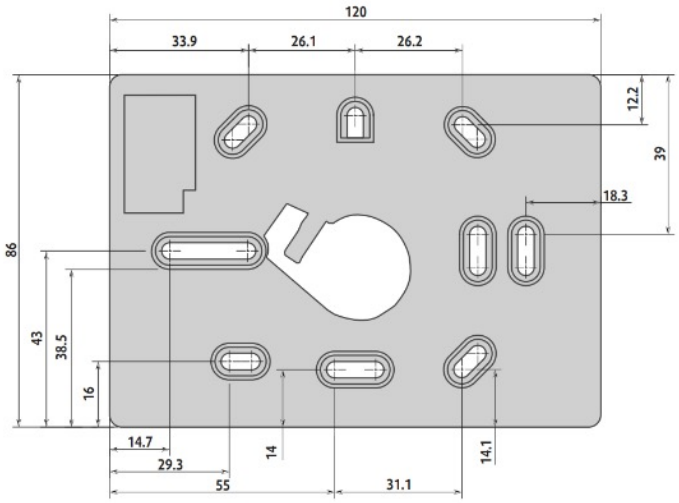
Medium Static Ducted (P-FD) 2 & 4 Pipe EC Fan

This setting is enabled by default.
The set-point (P11) is 21oC by default. The fancoil switched automatically from Heating to Cooling model. The rule for transition is described in the table.

Mode	Condition
Heating	T_{air} (RCT) ≤ (P11 - P01)
Cooling	T_{air} (RCT) ≥ (P11 + P01)
Neutral Zone*	(P11- P01) < T_{air} (RCT) < (P11 + P01)



CAUTION - If the ambient temperature is in the neutral zone when the system is switched on, the fancoil will change the operating mode depending on the value of the water temperature.

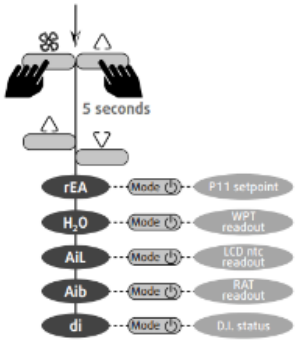


No.	Description of keys
1	- Ventilation control - Esc function in programming menu
2	Down key: - Decrease values - Scroll through values
3	Up key: - Increase values - Scroll through values
4	- Switch ON/OFF by pressing and holding for 5 seconds - Change mode by pressing once

N.B.- To switch the device on/off the power button must be pressed for 5 seconds.
To activate modification of the set-point, one of the up or down buttons must be pressed for 3 seconds.

Control Menu

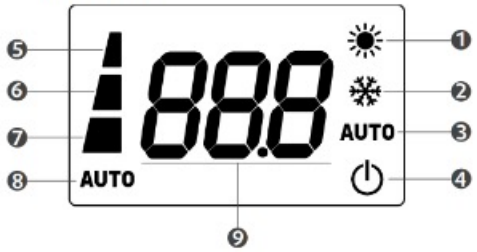
This menu allows the values of the unit sensors to be read.



PAR.	Description
rEA	Room temperature set-point
H_2O	Water temperature (WPT)
AiL	Air temperature measured by the remote control (RCT)
Aib	Air temperature measured by the air return sensor (RAT)
di	Configuring input DI1: **1** = Eco mode **2** = On/Off

N.B.- If left unused for 15 seconds, the keypad times out and reverts to the main window.

Display



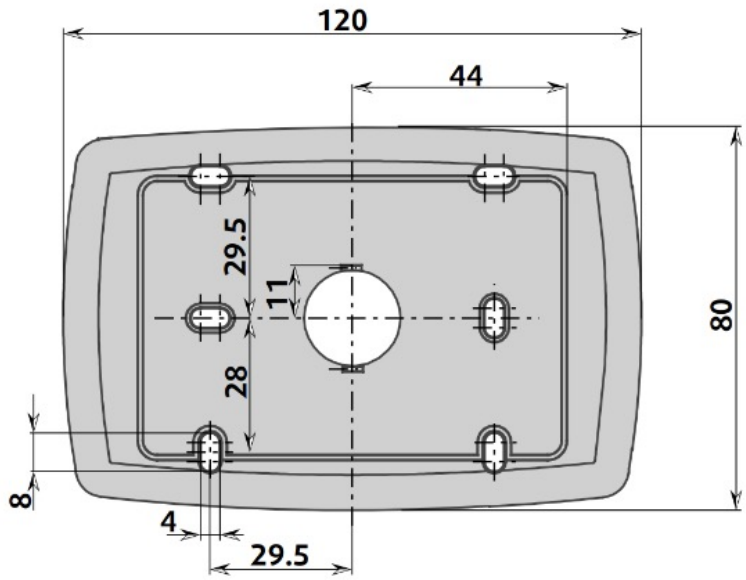
No.	Description of icons
1	Heating Mode
2	Cooling Mode
3	Auto mode
4	Stand-by
5	Minimum fan speed
6	Medium fan speed
7	Maximum fan speed
8	Automatic fan speed
9	3 Digits with decimal point

P-Logic – WRC Fault Codes

Display	Alarm detected	Effects	Remedy
E03	Water probe fault	Hot Start and Too Cool functions not working	Check probe type Check probe wiring Replace water probe
E04	RAT or RCT air sensor error	The MRC/WRC remote control transfers the operating parameters, but not the room temperature	Replace the RAT air sensor Replace the MRC/WRC remote control sensor
E05	Communication error Several water sensors connected in a master/slave configuration Wiring error on the Plogic card	The unit goes into Stand-by mode	Check the Plogic card wiring. Check that only one water sensor is connected for a master/slave installation
Mode LED flashing	Digital contact activated	The unit goes into Stand-by mode	Check the wiring and configuration of the digital input DI Depending on your installation, check ➢ the operation of the condensate pump ➢ that the windows close properly
Ventilation LEDs flashing	Water temperature unsuitable for the operating mode	Ventilation stops	Check the water temperature of the supply circuit Check the sensor wiring Replace the water sensor

N.B.- Errors can be displayed on a MRC/WRC remote terminal only.

P-Logic - BRC Installation and Operation



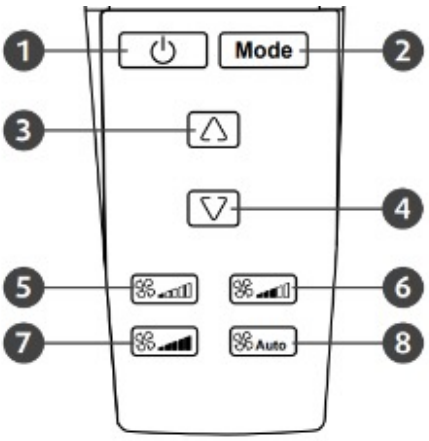
To mount the BRC remote terminal:
1. Fix the back to the wall
2. fasten the cover by appling light pressure around the clips

Do not mount the device in places exposed to high levels of dirt or humidity. The device is susitable for use in environments with ordinary or noral levels of pollutions.

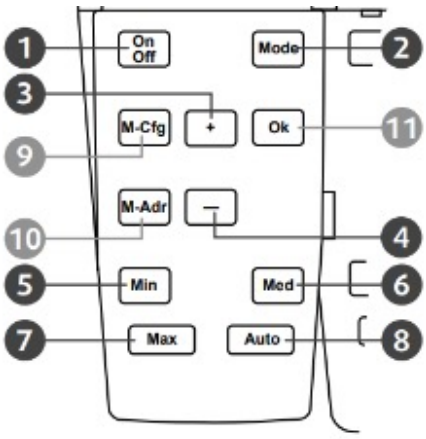
No.	Description
1	Ventilation control/auto
2	ON/OFF
3	Temperature control ±5 °C / °F

The BRC remote control is NOT a thermostat, it is used to control the untis operation, the fan speed and to shift the temperature set-point by more or less 5°C.

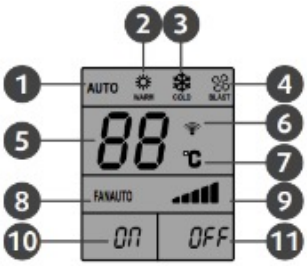
P-Logic - Infrared Remote Controller – User Interface

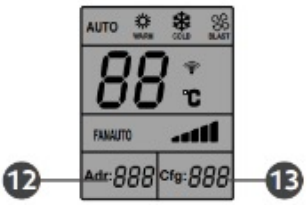


No	Description of keys
1	ON/OFF
2	Operating mode auto change-over mode heating mode cooling mode
3	Increase values
4	Decrease values
5	Ventilation control - Minimum fan speed
6	Ventilation control - Medium fan speed



No	Description of keys
7	Ventilation control - Maximum fan speed
8	Ventilation control - Automatic fan speed
9	Parity - Baud rate **0** = none **09** = 9600 **1** = even **19** = 19200 **2** = odd **38** = 38400
10	Address 1.....255
11	Validation / Confirmation



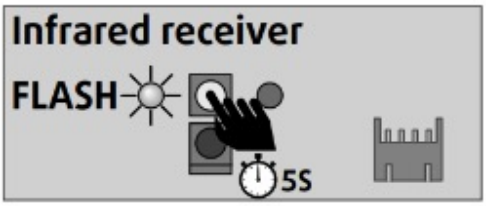


N°	Description of icons
1	Auto mode
2	Heating Mode
3	Cooling Mode
4	Ventilation only mode (Function not active)
5	Temperature setpoint (18°C<T<30°C)
6	Command transmission in progress
7	Temperature unit
8	Automatic fan speed
9	Minimum fan speed / Medium fan speed / Maximum fan speed
10	ON
11	OFF
12	Address
13	Parity - Baud rate

P-Logic - Infrared Remote Controller Modbus Addressing

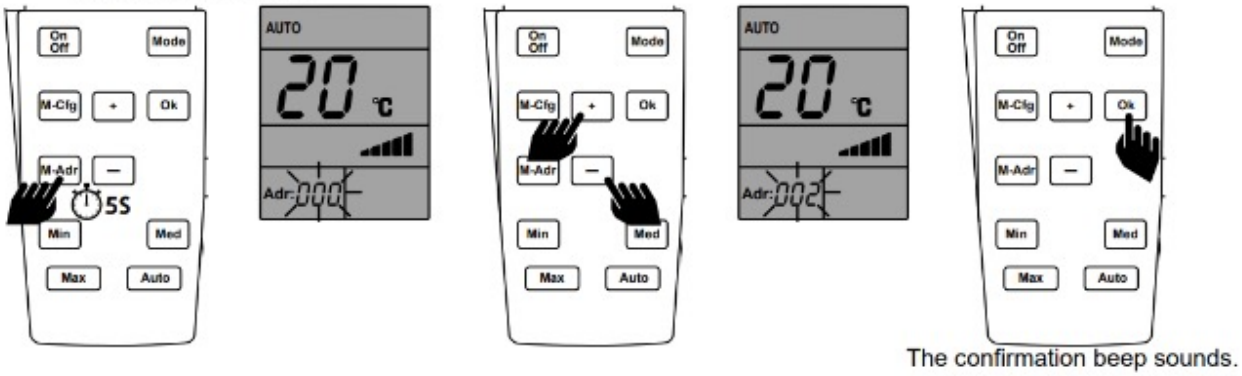
The IR remote control is used for setting the parameters of the MODBUS communication protocol:

- Address
- Parirty bits
- Transmission speed



CAUTION The green LED flashes for 20 seconds. During this period, changes can be made. The three parameters (Address, Parity and Speed) are updated during the validation phase. The unit must be rebooted for the parameter changes to be effective.

2.2.1. ADDRESSING



The confirmation beep sounds.

Maintenance / Service Instructions

General

Regular maintenance is essential to ensure reliable operation, maintain energy efficiency, and prolong the service life of Panasonic Fan Coil Units (FCUs). All maintenance and servicing shall be carried out by qualified personnel in accordance with the procedures outlined in INSTALLATION AND MAINTENANCE MANUAL and in compliance with relevant safety regulations.

Before performing any maintenance or inspection, isolate electrical power and close water supply valves. Allow all components to cool before handling.

The following shows an example of the maintenance tasks for a Duct type unit

Fan Coil Duct

CAUTION - The user is responsible for ensuring the unit is in perfect working order and that the techincal installation and minimum annual maintenance operations have been performed by a qualified technician in accordance with the procedures described in the present manual.

These units have been designed for minimum maintenance through the use of permanently lubricated components. However, there are operational maintenance requirements that require regular attention to ensure optimum performance. Maintenance must be performed by appropriately experienced personnel only.

WARNING - Isolate and lock-off unit from power supply before working on the unit

General Inspection

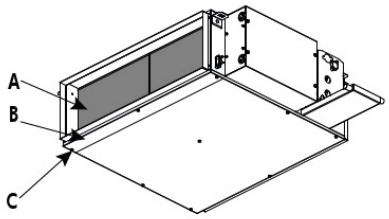
Carry outn a visual inspection of the complete installtion in service.
Check the general cleanness of the installtion, and check the condensate drain is not blocked, before the cooling season.
Check the condition of the condensate tray by puling it out of the casing.

Air Filter

Changing the filter is a maintenance operation that should only be performed by qualified personnel.

To avoid clogging of the air filer, it is recommended to clean it regulary.
Filet changes are required at the regular intervals. The time period between changes will depend upon the specific operating conditions.
Some applications such as hotels where there is a lot of lint from carpetting will require more frequent filter changes.
If light cannot be seen through the filter, when held up to the sunlight or a bright light, it should be washed or exchanged.

CAUTION - The fan coil unit shall have a filter installed in the return air side. When the filter is not fitted inside the unit, the installer shall install its own filter in the grill or duct.

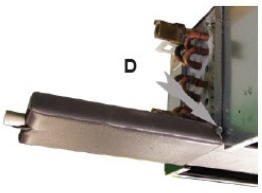


To remove the air filer, unscrew the fixing screws (C) to release the access panel (B) to reach the air filter (A).
Watch out the air filter could possibily fall during opening of the access panel.

A: Filter
B: Filter access panel
C. Filter access panel screws

Condensate Tray

The condensate tray must be checked regularly to ensure the evacuation pipe is not blocked. If required, it can be cleaned and washed with water.
To remove the consensate tray remove the access panel (B), unscrew and remove the bottom panel (screws C) and unscrew D.
Watch out, the condensate drain pan could possibly fall during removal of the bottom panel.



Coils

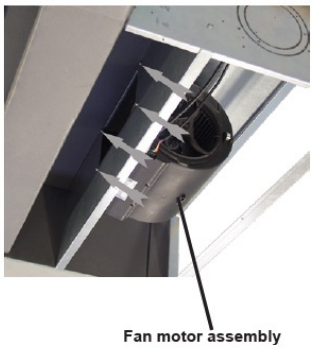
Check that the find are not clogged or damaged.
To avoid the coils becoming mouldy with an accumulation of tiny impurities, it is recommended they are cleaned regularly. If necessary, brush the coils with an appropriate tool.
Take care not to damage the fins during cleaning.

Fan Motor Assembly

The fan motor assembly does not require any particular maintenance. The motors are equipped with sliding bearings. adding oil is not necessary. However, each time regular maintainence is performed the fan should be inspected to check that it turns freely without friction.
In the event the fan motor overload protection device is engaged, wait for the automatic protection device being triggered.

To remove the fan motor assembly:

- Withdraw the lower central panel
- Disconnect the fan motor assembley power supply starting from the electric box.
- Unscrew the fan motor assembly retaining screws.



Electrical Section

Check the main power supply cable is not damaged or altered in such a way as to affect the insulation.
The contact surfaces of relays and contactors should be inspected regularly by and electrician and replaced as judged necessary. On these occasions the control box should be cleaned with compressed air to remove any accumulation of dust or other contaminants.
Check the earth ground connection.

Water Pipes

Once a year, drain the water pipes and check for scale formation. Des-scale the pipe if required.

Recommended Maintenance Intervals

Component	Action	Interval	Notes
Air Filter	Clean / Replace	3 months	More frequent in dusty environments
Coil	Inspect / Clean	6 months	Use approved coil cleaner
Condensate Drain	Flush / Disinfect	6 months	Prevent odours and blockages
Fan & Motor	Inspect / Clean	12 months	Check rotation and noise
Controls	Functional Test	12 months	Verify sensors and communication
Valves & Connections	Inspect / Test	12 months	Check for leaks and insulation condition

Maintenance / Service Instructions

SERVICING CHECKLIST CASING
1. Clean the outer panels.
2. Remove the panels.
3. Check the insulation is not damaged. Repair as required.

CONDENSATE DRAIN PAN
1. Check that drainage orifices, conduits and siphon are not blocked.
2. Eliminate all accumulated dirt.
3. Check that no traces of rust are present.

COILS
1. Clean the fin surfaces as required.
2. Clean or replace the filters.
3. Check the condition of the fan and the fan motor.

ELECTRICAL EQUIPMENT
1. Check nominal current draw and the condition of the fuses or protective devices.
2. Check the tightness of the screw terminals.
3. Perform a visual check of the condition of the contacts.
4. Check the general tightness of all cable connections.

Replace the panels and add any missing screws.

Panasonic service

Our Panasonic Service teams are committed to ensuring your peace of mind. Best service is our aim.

Panasonic provides a team of highly trained technicians and engineers to deliver professional and responsive services that meet the highest levels of quality and safety while being efficient and cost effective.
To find out more about Panasonic Heating & Cooling Solutions, please visit **www.aircon.panasonic.eu**.

Maintenance.
To meet the requirements of the standard warranty, the product must be maintained and serviced annually by a suitably trained and qualified engineer. This way we can extend the lifetime of the product.

Repair.
Panasonic offers a wide range of service agreements, like Panasonic Service+ for a maximised product lifetime. Leave the care of your Panasonic products to the experts. In the unlikely event that something goes wrong, trust one of our qualified and Panasonic trained experts to get things back on track.

Warranty.
In accordance with the regulations, Panasonic guarantees its products against hidden defects. Moreover, Panasonic grants to the professional purchaser a commercial warranty, specific to the product families, subject to compliance of all the rules of installation and use of its products.

Panasonic Heating & Cooling Solutions customer service

Use our European website **www.aircon.panasonic.eu** for contacting us.
Panasonic has implemented a contact page on the Panasonic Heating & Cooling Solutions website for potential or existing Panasonic customers.

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Nangor Road, Dublin 22

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

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