



# ECOi and ECO G systems indoor units range

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P. 330	<b>NEW</b> energy recovery ventilation with DX coil - HRPT Series - R32 / R410A		 PAW-HRPT40 [2,5 kW]			 PAW-HRPT80 [5 kW]	
P. 331	Heat recovery with DX coil - ZDX Series - R410A			 PAW-500ZDX3N [3 kW]	 PAW-800ZDX3N [5,1 kW]	 PAW-01KZDX3N [5,8 kW]	



+ OPTIONAL UNITS ON VENTILATION SECTION

6,0 kW

7,3 kW

9,0 kW

10,6 kW

11,2 kW

14,0 kW

16,0 kW

22,4 kW

28,0 kW



S-60MU2E5BN



S-73MU2E5BN



S-90MU2E5BN



S-112MU2E5BN



S-140MU2E5BN



S-160MU2E5BN



S-73ML1E5



S-73MD1E5



S-60MF3E5BN  
S-60MF3E5AN



S-73MF3E5BN  
S-73MF3E5AN



S-90MF3E5BN  
S-90MF3E5AN



S-112MF3E5BN  
S-112MF3E5AN



S-140MF3E5BN  
S-140MF3E5AN



S-160MF3E5BN  
S-160MF3E5AN



S-224ME2E5



S-280ME2E5



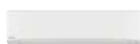
S-73MT2E5A



S-106MT2E5A



S-140MT2E5A



S-73MK2E5B



S-106MK2E5B



S-71MP1E5



S-71MR1E5



S-80MW1E5



S-125MW1E5



PAW-HRPT120HX  
PAW-HRPT120 (7 kW)



PAW-HRPT160HX  
PAW-HRPT160 (10 kW)



PAW-HRPT200HX  
PAW-HRPT200 (12,5 kW)

# 4 way 90x90 cassette with nanoe X Generator Mark 3



Large capacity VRF. Trusted power and high efficiency. These Cassettes offer upgraded nanoe™ X technology and Econavi as accessories for making application space more comfortable and efficient.

Thanks to advances in design and technology such as the high performance turbo fan which is more efficient and silent, nanoe™ X technology, and the floor temperature and humidity sensor (Econavi) for more control, the Panasonic U2 type 4 way 90x90 cassette offers greater comfort.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

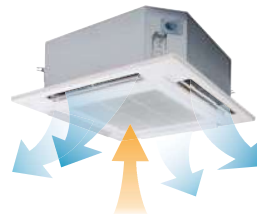


## Always fresh and clean air with nanoe™ X

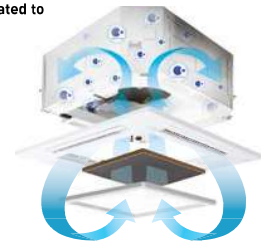
The 4 way 90x90 cassette with nanoe™ X, when tested, has shown to inhibit hazardous substances by 92%, when compared to natural reduction\*. In addition to the 7 effects of nanoe™ X, the indoor unit can also be cleaned with a short operation of nanoe™ X + dry mode.

\* Controllers (CZ-RTC5B or CZ-RTC6/BL/BLW) are required.

After cooling/drying operation, the inside of the indoor unit is automatically dried and nanoe™ X is activated to suppress mould growth.



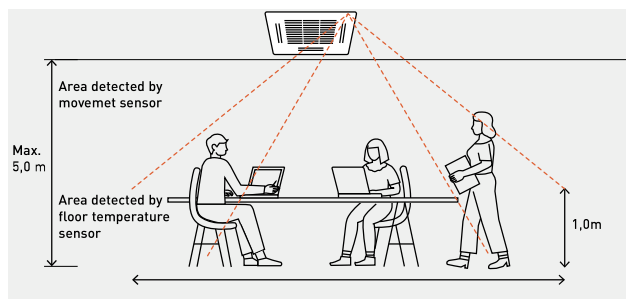
Operates the fan to discharge internal humidity.



Operate the fan to circulate nanoe™ X internally.

## Optional Econavi intelligent sensor

Human activity sensor and floor temperature sensor can reduce waste energy, by optimising air conditioner operation.

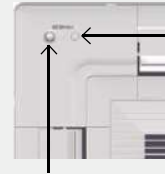


## Advanced Econavi functions.

2 sensors (movement and floor temperature) can provide a reduction in wasted energy by means of effective control. The floor temperature can be detected with a ceiling height of up to 5 m.



### Econavi exclusive panel. Optional (CZ-KPU3AW)



**Floor temperature sensor.**  
This sensor detects average floor temperature and operates circulation if floor temperature is low.

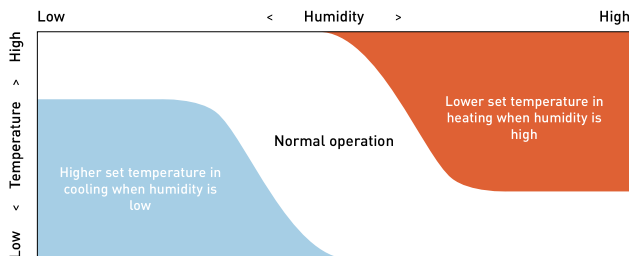
**Movement sensor.**  
This sensor detects the amount of human activity, and operates effectively.



Wired remote controller CZ-RTC5B or CZ-RTC6/BL is required.

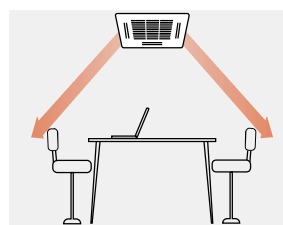
## Humidity sensor.

A humidity sensor positioned in the air inlet provides comfort and saves energy based on temperature and humidity.

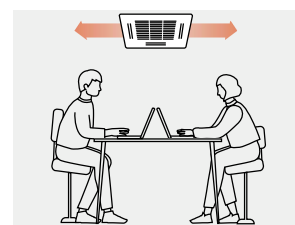


## Group control, circulation function.

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize thermal stratification in both heating and cooling operation.



Circulation by detecting no movement (10 minutes).



Indirect air flow by detecting movement.

## U2 type 4 way 90x90 cassette - R32 / R410A

### The 4 way 90x90 cassettes with integrated nanoe X Generator Mark 3 and design panel.

A modern flat panel design blends into any space. These cassettes provide high energy saving, comfort and better indoor air quality that satisfy customers.



COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION



**nanoe<sup>TM</sup> X**

nanoe<sup>TM</sup> X as a standard.

Indoor unit. S-***MU2E5BN			22	28	36	45	56	60	73	90	112	140	160
Cooling capacity	kW		2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	11,2	14,0	16,0
Input power	W		20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	95,00	95,00	105,00
Current	A		0,21	0,21	0,21	0,21	0,23	0,33	0,36	0,38	0,74	0,74	0,82
Heating capacity	kW		2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	14,0	16,0	18,0
Input power	W		20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	90,00	90,00	100,00
Current	A		0,20	0,20	0,20	0,20	0,22	0,32	0,35	0,37	0,72	0,72	0,80
Fan type			Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Air flow	Hi/	m <sup>3</sup> /min	12,8/12,1/	12,8/12,1/	14,5/13,0/	15,5/13,0/	16,5/13,5/	21,0/16,0/	22,5/16,0/	23,0/18,5/	36,0/26,0/	36,0/26,0/	37,0/28,0/
	Med/		11,5	11,5	11,5	11,5	11,5	13,0	13,0	14,0	20,0	20,0	24,0
Sound pressure	Lo	dB(A)	30/29/28	30/29/28	30/29/28	31/29/28	32/30/28	36/32/29	37/32/29	38/35/32	45/39/35	45/39/35	46/40/38
Sound power		dB(A)	45/44/43	45/44/43	45/44/43	46/44/43	47/45/43	51/47/44	52/47/44	53/50/47	60/54/50	60/54/50	61/55/53
Dimension (HxWxD)	Indoor	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight (Panel)	kg		19 (5)	19 (5)	19 (5)	19 (5)	19 (5)	20 (5)	20 (5)	20 (5)	25 (5)	25 (5)	25 (5)
Piping diameter R32 model	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Piping diameter R410A model	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52) <sup>1)</sup>	3/8 (9,52) <sup>1)</sup>	3/8 (9,52) <sup>1)</sup>	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88) <sup>1)</sup>	5/8 (15,88) <sup>1)</sup>	5/8 (15,88) <sup>1)</sup>	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)

<sup>1)</sup> When the piping diameter is (liquid) Ø1/4 (6,35) - (gas) Ø1/2 (12,70), connect the liquid socket tube (Ø1/4 (6,35) - Ø3/8 (9,52)) to the liquid tubing side indoor unit and connect the gas socket tube (Ø1/2 (12,70) - Ø5/8 (15,88)) to the gas tubing side indoor unit. \* Above values are in the case of nanoe<sup>TM</sup> X OFF.

#### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function
<b>CZ-RWS3 + CZ-RWRU3W</b>	Infrared remote controller and receiver
<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black

#### Accessories

<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black
<b>CZ-KPU3W</b>	Standard panel
<b>CZ-KPU3AW</b>	Econavi exclusive panel
<b>CZ-CENSC1</b>	Econavi energy saving sensor
<b>CZ-FDU3+CZ-ATU2</b>	Fresh air-intake kit
<b>CZ-CGLSC1</b>	Panasonic R32 refrigerant leak detector

### Technical focus

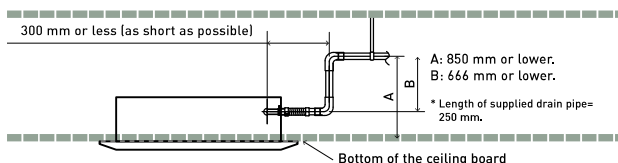
- High performance turbo fan
- Lower noise in low fan operation
- Ceiling height up to 5,0 m
- Industry leading lightweight design
- Econavi: Temperature, humidity and activity sensor
- nanoe<sup>TM</sup> X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe<sup>TM</sup> X and dry operation
- Powerful drain pump gives 850 mm lift
- Fresh air knockout
- Branch duct connection
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)

### Panel design

Flat design, well-matched with interior aesthetic. 4-way individual flap control.

### The drain pipe can be raised to a maximum height of 850 mm from the bottom of the ceiling

Integrated drain pump allows a drain height of 850 mm making the installation much easier.



ECONAVI and INTERNET CONTROL: Optional.

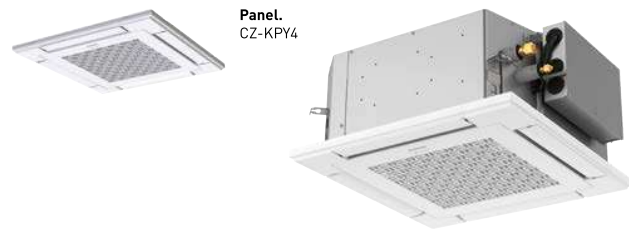
Rating conditions: Cooling indoor 27 °C DB / 19 °C WB, Cooling outdoor 35 °C DB / 24 °C WB, Heating indoor 20 °C DB, Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites [www.aircon.panasonic.eu](http://www.aircon.panasonic.eu) or [www.ptc.panasonic.eu](http://www.ptc.panasonic.eu).



### Y3 type 4 way 60x60 cassette - R32 / R410A

Mini cassette with a modern panel design is available in VRF range.

The Y3 type not only perfectly matches with 600 x 600 mm ceiling grids but also provides the additional benefits of nanoe™ X, for better indoor air quality.



Panel:  
CZ-KPY4



COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION



Indoor unit			S-15MY3E	S-22MY3E	S-28MY3E	S-36MY3E	S-45MY3E	S-56MY3E
Cooling capacity	kW		1,5	2,2	2,8	3,6	4,5	5,6
Input power	W		19,00	20,00	21,00	22,00	30,00	42,00
Current	A		0,24	0,24	0,25	0,26	0,34	0,43
Heating capacity	kW		1,7	2,5	3,2	4,2	5,0	6,3
Input power	W		17,00	18,00	19,00	20,00	28,00	40,00
Current	A		0,21	0,21	0,22	0,23	0,31	0,40
Fan type			Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Air flow	Cool (Hi/Med/Lo)	m³/min	8,5/7,0/6,0	8,7/7,0/6,0	9,0/7,5/6,0	9,5/7,8/6,0	11,5/9,0/6,5	13,5/10,5/8,0
	Heat (Hi/Med/Lo)	m³/min	8,5/7,0/6,0	8,7/7,0/6,0	9,0/7,5/6,0	9,5/7,8/6,0	11,5/9,0/6,5	13,5/10,5/8,0
Sound pressure	Hi/Med/Lo	dB(A)	33/30/28	33/30/28	34/30/28	35/31/28	39/34/30	42/37/33
	Sound power	Hi/Med/Lo	dB(A)	48/45/43	48/45/43	49/45/43	50/46/43	57/52/48
Dimension (HxWxD) <sup>1)</sup>	Indoor	mm	243x575x575	243x575x575	243x575x575	243x575x575	243x575x575	243x575x575
	Panel	mm	30x625x625	30x625x625	30x625x625	30x625x625	30x625x625	30x625x625
Net weight		kg	17,8(15+2,8)	17,8(15+2,8)	17,8(15+2,8)	17,8(15+2,8)	17,8(15+2,8)	17,8(15+2,8)
Piping diameter	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)
	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)

1) Unit height is 230 mm, but need 243 mm height in ceiling space for its installation.

#### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function
<b>CZ-RWS3 + CZ-RWRY3</b>	Infrared remote controller and receiver
<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white

#### Accessories

<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black
<b>CZ-CENSC1</b>	Econavi energy saving sensor
<b>CZ-CGLSC1</b>	Panasonic R32 refrigerant leak detector
<b>CZ-KPY4</b>	Panel for 4 way 60x60 cassette

### Technical focus

- Built-in drain pump
- DC drain pump and float switch to reduce the noise
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Indoor unit internal cleaning with nanoe™ X plus dry operation

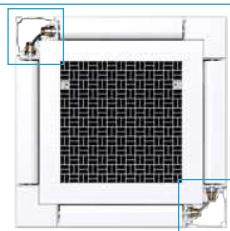
### Compact and stylish design

- Required ceiling depth of only 250 mm <sup>1)</sup>
- Exposed area is only 30 mm

1) Installation dimension.

### Individual flap control

Better control of the air flow with 4 motors, providing individual flap control. Perfect air distribution without direct airflow, to reduce the feeling of cold drafts.



### Internal cleaning function

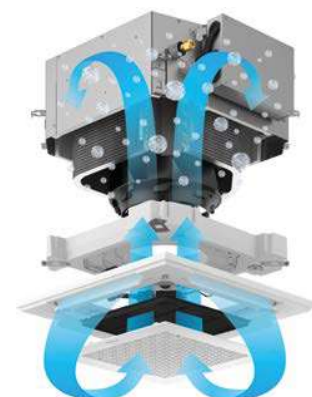
When cooling or dry operation stopped, internal drying and nanoe™ X circulation airflow is activated in order to suppress the mould proliferation inside the unit (airflow passage, fan, heat exchanger)\*.

\* Depending on the installation environment or operating hours, mould proliferation or inhibition of mould growth will be changed.

After cooling/drying operation, the inside of the indoor unit is automatically dried and nanoe™ X is activated to suppress mould growth.



Operates the fan to discharge internal humidity.



Operate the fan to circulate nanoe™ X internally.



ECONAVI and INTERNET CONTROL: Optional.

## L1 type 2 way cassette - R410A

### Slim, compact and lightweight units.

Remarkable size and weight reductions have been achieved by improvement of the design around the fan, the weight of all models now just 30 kg.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-22ML1E5	S-28ML1E5	S-36ML1E5	S-45ML1E5	S-56ML1E5	S-73ML1E5
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6	7,3
Input power		W	90,00	92,00	93,00	97,00	97,00	145,00
Current		A	0,45	0,45	0,45	0,45	0,45	0,65
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3	8,0
Input power		W	58,00	60,00	61,00	65,00	65,00	109,00
Current		A	0,29	0,29	0,29	0,29	0,29	0,48
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi/Med/Lo	m <sup>3</sup> /min	8,0/7,0/6,0	9,0/8,0/7,0	9,7/8,7/7,7	11,0/9,0/8,0	11,0/9,0/8,0	19,0/16,0/14,0
Sound pressure	Hi/Med/Lo	dB(A)	30/27/24	33/29/26	34/31/28	35/33/29	35/33/29	38/35/33
Dimension	Indoor	mm	350 x 840 x 600	350 x 840 x 600	350 x 840 x 600	350 x 840 x 600	350 x 840 x 600	350 x 1140 x 600
	Panel	mm	8 x 1060 x 680	8 x 1060 x 680	8 x 1060 x 680	8 x 1060 x 680	8 x 1060 x 680	8 x 1360 x 680
Net weight (Panel)		kg	26 (8)	26 (8)	26 (8)	26 (8)	26 (8)	26 (8)
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)

#### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function
<b>CZ-RWS3 + CZ-RWRL3</b>	Infrared remote controller and receiver

#### Accessories

<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black
<b>CZ-02KPL2</b>	Panel for S-22 to S-56 models
<b>CZ-03KPL2</b>	Panel for S-73 model

### Technical focus

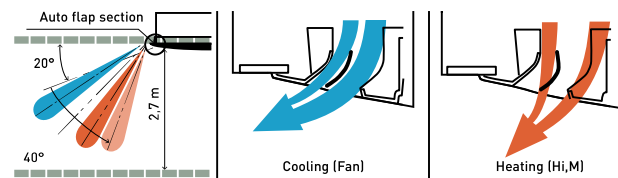
- Air flow and distribution is automatically altered depending on the operational mode of the unit
- Drain pump provides up to 500 mm lift height
- Simplified maintenance

### Simplified maintenance

The drain pan is equipped with site wiring and can be removed. The fan case has a split construction, and the fan motor can be removed easily when the lower case is removed.

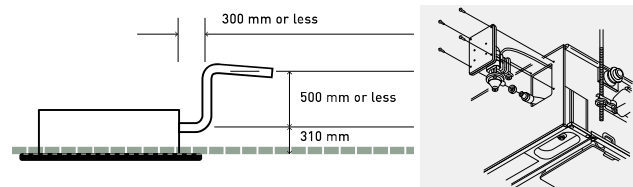
### Auto flap control

Air flow and distribution is automatically altered depending on the operational mode of the unit.



### Drain pump provides up to 500 mm lift height

Maintenance of the drain pump is possible from two sides, from the left side (piping side) and from the inside of the unit.



INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB, Cooling outdoor 35 °C DB / 24 °C WB, Heating indoor 20 °C DB, Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites [www.aircon.panasonic.eu](http://www.aircon.panasonic.eu) or [www.ptc.panasonic.eu](http://www.ptc.panasonic.eu).

## D1 type 1 way cassette - R410A

Designed for installation within the ceiling void, the D1 range of slimline 1 way blow cassettes feature powerful yet quiet fans for installation of up to 4,2 m.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-28MD1E5	S-36MD1E5	S-45MD1E5	S-56MD1E5	S-73MD1E5
Cooling capacity	kW		2,8	3,6	4,5	5,6	7,3
Input power	W		51,00	51,00	51,00	60,00	87,00
Current	A		0,39	0,39	0,39	0,46	0,70
Heating capacity	kW		3,2	4,2	5,0	6,3	8,0
Input power	W		40,00	40,00	40,00	48,00	76,00
Current	A		0,35	0,35	0,35	0,41	0,65
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi/Med/Lo	m <sup>3</sup> /min	12,0/10,0/9,0	12,0/10,0/9,0	12,0/11,0/10,0	13,0/11,5/10,0	18,0/15,0/13,0
Sound pressure	Hi/Med/Lo	dB(A)	36/34/33	36/34/33	36/35/34	38/36/34	45/40/36
Dimension (H x W x D)	Indoor	mm	200 x 1000 x 710	200 x 1000 x 710	200 x 1000 x 710	200 x 1000 x 710	200 x 1000 x 710
	Panel	mm	20 x 1230 x 800	20 x 1230 x 800	20 x 1230 x 800	20 x 1230 x 800	20 x 1230 x 800
Net weight (Panel)		kg	23,5(7,5)	23,5(7,5)	23,5(7,5)	23,5(7,5)	24,5(7,5)
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)

### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function
<b>CZ-RWS3 + CZ-RWRD3</b>	Infrared remote controller and receiver

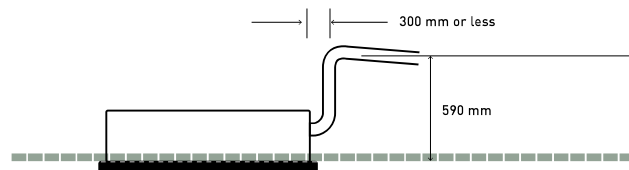
### Accessories

<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black
<b>CZ-KPD2</b>	Panel

### Technical focus

- Ultra-Slim
- Suitable for standard and high ceilings
- Built-in drain pump provides 590 mm lift
- Easy to install and maintain
- Hanging height can be easily adjusted
- Uses a DC fan motor to improve energy-efficiency

### Drain height



### With 2 types of air-blow systems, the units can be used in various ways



#### 1. One-direction "down-blow" system.

Powerful one-direction "down-blow" system reaches the floor even from high ceilings (up to 4,2 m).



#### 2. Two-direction ceiling-mounted system.

"Down-blow" and "front-blow" systems are combined in a ceiling-mounted unit to blow air over a wide area.



INTERNET CONTROL: Optional.

F3 type variable static pressure adaptive duct · R32 / R410A

Design adaptive ducted F3 range.

2 installation possibilities (horizontal / vertical) with high ESP 150 Pa allows for flexible installation.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION



R32 unit. S-***MF3E5BN		15	22	28	36	45	56	60	73	90	112	140	160
R410A unit. S-***MF3E5AN													
Cooling capacity	kW	1,5	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	11,2	14,0	16,0
Input power	W	60,00	60,00	60,00	60,00	60,00	89,00	79,00	79,00	136,00	265,00	265,00	330,00
Current	A	0,45	0,45	0,45	0,45	0,45	0,63	0,52	0,52	0,90	1,76	1,76	2,14
Heating capacity	kW	1,7	2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	12,5	16,0	18,0
Input power	W	60,00	60,00	60,00	60,00	60,00	89,00	79,00	79,00	136,00	265,00	265,00	330,00
Current	A	0,45	0,45	0,45	0,45	0,45	0,63	0,52	0,52	0,90	1,76	1,76	2,14
R32 leakage sensors <sup>1)</sup>		2	2	2	2	2	2	2	2	2	2	2	2
Fan type		Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
nanoe X Generator		Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
External static pressure	Pa	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	40 (10-150)	50 (10-150)	50 (10-150)	50 (10-150)
Air flow <sup>2)</sup>	Hi/ Med/ Lo	m <sup>3</sup> /min	12,8/11,0/8,0	12,8/11,0/8,0	14,0/12,0/8,0	14,0/12,0/8,0	14,0/12,0/8,0	16,0/14,0/10,0	21,0/18,0/15,0	21,0/18,0/15,0	25,0/23,0/16,0	37,0/32,0/26,0	40,0/34,0/28,0
Sound pressure		dB(A)	31/28/20	31/28/20	31/28/20	31/28/20	31/28/20	35/32/24	31/28/23	31/28/23	35/33/25	41/36/32	43/37/33
Sound power		dB(A)	54/51/43	54/51/43	54/51/43	54/51/43	54/51/43	58/55/47	54/51/46	54/51/46	58/56/48	64/59/55	66/60/56
Dimension (HxWxD)		mm	250x800x730	250x800x730	250x800x730	250x800x730	250x800x730	250x1000x730	250x1000x730	250x1000x730	250x1400x730	250x1400x730	250x1400x730
Net weight		kg	26	26	26	26	26	31	31	31	40	40	40
Piping diameter	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	3/8(9,52)	3/8(9,52)	3/8(9,52)
R32 model	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88)	5/8(15,88)	5/8(15,88)
Piping diameter	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)
R410A model	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)

1) Only available in the R32 version. 2) Value referred to standard settings at shipment (H curve 8, M curve 5, L curve 1).

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white

Accessories	
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor
PAW-APF800F	NEW BION air pollutant filter for MF3 15, 22, 28, 36, 45 and 56
PAW-APF1000F	NEW BION air pollutant filter for MF3 60 and 73
PAW-APF1400F	NEW BION air pollutant filter for MF3 90, 106, 112, 140 and 160

Technical focus

- 4 installation possibilities with horizontal and vertical mounting, plus selectable rear or bottom air inlet
- Industry leading low noise with super quiet operation, minimum 20 dB(A)
- Only 250 mm height and lightweight unit from, 26 to 40 kg
- Integrated Panasonic R32 refrigerant leak detectors <sup>1)</sup>
- Improved drain pan suitable for both horizontal / vertical installation
- Drain pump included <sup>2)</sup>
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard, effective even with duct connections up to 10 m with 3 x 90° bends <sup>3)</sup>
- **NEW** BION air pollutant filter for certain types of pollutants, such as nitrogen dioxide (NO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>) and Ozone (O<sub>3</sub>) (optional)

1) Only available in the R32 version. 2) For use with horizontal installation only. 3) Panasonic internal survey.

Vertical Installation

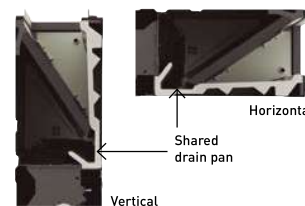
Vertical installation option. Variable external static pressure to support ducted installations with bends.

\* Vertical installation requires additional settings on field, please check the installation manual.



Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation. No need to modify the unit.



ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB, Cooling outdoor 35 °C DB / 24 °C WB, Heating indoor 20 °C DB, Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.plc.panasonic.eu.

## M1 type slim variable static pressure hide-away concealed duct · R32 / R410A

The ultra slim M1 type is one of the leading products of its type in the industry.

With a depth of only 200 mm it provides greater flexibility and can be used in far more applications.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-15MM1E5B	S-22MM1E5B	S-28MM1E5B	S-36MM1E5B	S-45MM1E5B	S-56MM1E5B
Cooling capacity	kW		1,5	2,2	2,8	3,6	4,5	5,6
Input power	W		36,00	36,00	40,00	42,00	49,00	64,00
Current	A		0,26	0,26	0,30	0,31	0,37	0,48
Heating capacity	kW		1,7	2,5	3,2	4,2	5,0	6,3
Input power	W		26,00	26,00	30,00	32,00	39,00	54,00
Current	A		0,23	0,23	0,27	0,28	0,34	0,45
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi/Med/Lo	m <sup>3</sup> /min	8,0/7,0/6,0	8,0/7,0/6,0	8,5/7,5/6,5	9,0/8,0/7,0	10,5/9,5/8,0	12,5/11,5/10,0
External static pressure		Pa	10(30)	10(30)	15(30)	15(40)	15(40)	15(40)
Sound pressure	Hi/Med/Lo <sup>1)</sup>	dB(A)	28/27/25 (30/29/27)	28/27/25 (30/29/27)	30/29/27 (32/31/29)	32/30/28 (34/32/30)	34/32/30 (36/34/32)	35/33/31 (37/35/32)
Sound power	Hi/Med/Lo	dB(A)	43/42/40	43/42/40	45/44/42	47/45/43	49/47/45	50/48/46
Dimension	HxWxD	mm	200x750x640	200x750x640	200x750x640	200x750x640	200x750x640	200x750x640
Net weight		kg	19	19	19	19	19	19
Piping diameter	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)
	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)

1) By DIP switches or by RC setting.

### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function
<b>CZ-RWS3 + CZ-RWRC3</b>	Infrared remote controller and receiver

### Accessories

<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black
<b>CZ-CENSC1</b>	Econavi energy saving sensor
<b>CZ-CGLSC1</b>	Panasonic R32 refrigerant leak detector

### Technical focus

- Ultra-slim profile: 200 mm for all models
- DC fan motor greatly reduces power consumption
- Ideal for hotel application with very narrow false ceilings
- Easy maintenance and service by external electrical box

- Up to 40 Pa static pressure enables ductwork to be fitted
- Includes drain pump

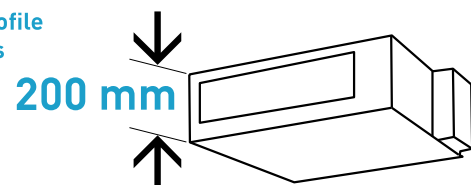
In addition, its high-efficiency and extremely quiet sound levels make it very popular with many users, including hotels and small offices.

### Air outlet and inlet plenum

	Diameters	Air outlet plenum	Diameters	Air inlet plenum
22, 28 and 36	2 x Ø200	CZ-DUMPA22MMS2	2 x Ø200	CZ-DUMPA22MMR2
45 and 56	3 x Ø160	CZ-DUMPA45MMS3		

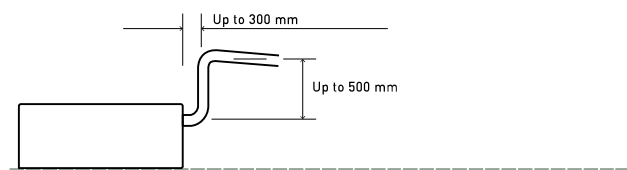
\* Plenums installed with an R32 Mini ECOi system may only be used when no Panasonic R32 refrigerant leak detector is required. Please refer to technical data manual for refrigerant installation requirements.

### Ultra-slim profile for all models



### Drain pump with increased power!

By adoption of a high-lift drain pump, the drain piping can achieve up to 500 mm lift from the outlet port of the unit.



ECONAVI and INTERNET CONTROL: Optional.



## E2 type high static pressure hide-away - R410A

### High pressure duct and 100% Fresh air duct function.

The E2 range of ducted units offers improved design flexibility for extended duct layouts as a result of their increased external static pressures whilst reducing energy consumption.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Type	100% Fresh air duct function (by using Kit for 100% fresh air)				High pressure duct				
	Indoor unit	S-224ME2E5		S-280ME2E5		S-224ME2E5		S-280ME2E5	
		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	22,4	21,2	28,0	26,5	22,4	25,0	28,0	31,5
Input power	W	290,00	290,00	350,00	350,00	440,00	440,00	715,00	715,00
Current	A	1,85	1,85	2,20	2,20	2,45	2,45	3,95	3,95
Air flow	Hi/Med/Lo	m <sup>3</sup> /min 28,3/-/-		35,0/-/-		56,0/51,0/44,0		72,0/63,0/53,0	
External static pressure	Pa	200		200		140(60-270) <sup>1)</sup>		140(72-270) <sup>1)</sup>	
Sound pressure <sup>2)</sup>	Hi/Med/Lo	dB(A) 43/-/-		44/-/-		45/43/41		49/47/43	
Sound power	Hi/Med/Lo	dB(A) 75/-/-		76/-/-		77/75/73		81/79/75	
Dimension	HxWxD	mm 479 x 1453 x 1205		479 x 1453 x 1205		479 x 1453 x 1205		479 x 1453 x 1205	
Net weight	kg	102		106		102		106	
Piping diameter	Liquid	Inch (mm) 3/8(19,52)		3/8(19,52)		3/8(19,52)		3/8(19,52)	
	Gas	Inch (mm) 3/4(19,05)		7/8(22,22)		3/4(19,05)		7/8(22,22)	

Rating Conditions for 100% Fresh air duct function: Cooling Outdoor 33 °C DB / 28 °C WB, Heating Outdoor 0 °C DB / -2,9 °C WB.

1) Available to select the setting by initial setup. 2) Values with 140 Pa setting. \* No filter included. \*\* No compatible with 3-Pipe ECO G GF3.

Accessories	
<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function
<b>CZ-RWS3 + CZ-RWRC3</b>	Infrared remote controller and receiver

Accessories	
<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black
<b>CZ-CENSC1</b>	Econavi energy saving sensor

### Technical focus

- No need of rap valves for standard operation
- 100% fresh air duct function\*
- DC fan motor for more savings
- Complete flexibility for ductwork design
- Can be located within a weatherproof housing for external installation
- Air OFF sensor avoids cold air dumping
- Configurable air temperature control

\* Rap valves required, see 100% fresh air duct function below.

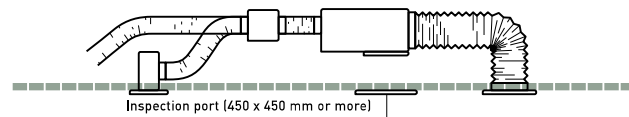
### 100% fresh air duct function

The E2 duct with 100% fresh air duct function have exceptional discharge temperature.

	Discharge Range		
	Min	Max	Default
Cooling	15 °C	24 °C	18 °C
Heating	17 °C	45 °C	40 °C

### System example

An inspection port (450 x 450 mm or more) is required at the lower side of the indoor unit body (field supply).



### Plenums

Air outlet plenum (suitable for rigid + flexible duct)		
	Number of exits with diameters	Model
S-224ME2E5	1 x 500 mm	CZ-TREMIESPW705
S-280ME2E5	1 x 500 mm	CZ-TREMIESPW706

### Kit for 100% fresh air function

Kit for 2 way systems		Kit for 3 way systems	
<b>2x CZ-P160RVK2</b>	Rap valve kit	<b>2x CZ-P160HR3</b>	3 way valve kit
<b>2x CZ-CAPE2</b>	3 way control PCB	<b>2x CZ-CAPE2</b>	3 way control PCB
<b>CZ-P680BK2BM</b>	Distribution joint kit	<b>CZ-P680BH2BM</b>	Distribution joint kit
	1x remote controller		1x remote controller



ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB, Cooling outdoor 35 °C DB / 24 °C WB, Heating indoor 20 °C DB, Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites [www.aircon.panasonic.eu](http://www.aircon.panasonic.eu) or [www.plc.panasonic.eu](http://www.plc.panasonic.eu).



## T2 type ceiling - R410A

The T2 type ceiling mounted units feature a DC fan motor for increased efficiency and reduced operating sound levels.

All the units are the same height and depth for a uniform appearance in mixed installations, and feature a fresh air knockout for improved air quality.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-36MT2E5A	S-45MT2E5A	S-56MT2E5A	S-73MT2E5A	S-106MT2E5A	S-140MT2E5A
Cooling capacity	kW		3,6	4,5	5,6	7,3	10,6	14,0
Input power	W		35,00	40,00	40,00	55,00	80,00	100,00
Current	A		0,36	0,38	0,38	0,44	0,67	0,79
Heating capacity	kW		4,2	5,0	6,3	8,0	11,4	16,0
Input power	W		35,00	40,00	40,00	55,00	80,00	100,00
Current	A		0,36	0,38	0,38	0,44	0,67	0,79
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi/Med/Lo	m <sup>3</sup> /min	14,0/12,0/10,5	15,0/12,5/10,5	15,0/12,5/10,5	21,0/18,0/15,5	30,0/25,0/23,0	32,0/28,0/24,0
Sound pressure	Hi/Med/Lo	dB(A)	36/32/30	37/33/30	37/33/30	39/35/33	42/37/36	46/40/37
Sound power	Hi/Med/Lo	dB(A)	54/50/48	55/51/48	55/51/48	57/53/51	60/55/54	62/58/55
Dimension	HxWxD	mm	235x960x690	235x960x690	235x960x690	235x1275x690	235x1590x690	235x1590x690
Net weight		kg	27	27	27	33	40	40
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)

### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function
<b>CZ-RWS3 + CZ-RWRT3</b>	Infrared remote controller and receiver

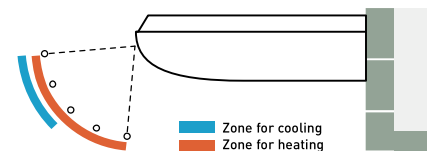
### Accessories

<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black
<b>CZ-CENSC1</b>	Econavi energy saving sensor

### Technical focus

- Low sound levels
- All units just 235 mm high
- Large and wide air distribution
- Easy to install and maintain
- Fresh air knockout

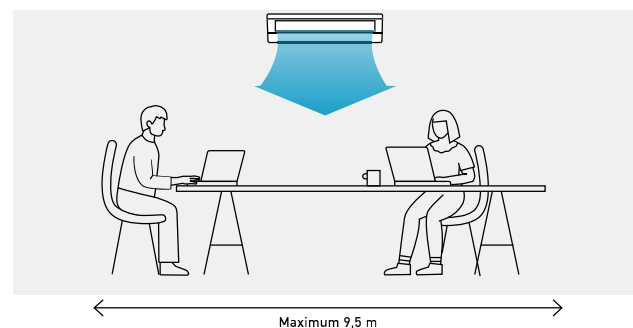
### Air distribution is altered depending on the operational mode



### Further comfort improvement with air flow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.

The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, increasing the degree of comfort.



ECONAVI and INTERNET CONTROL: Optional.

## K2 type wall-mounted · R32 / R410A

The wall-mounted unit has a stylish smooth panel that looks good and is easy to clean.

The unit is also smaller, lighter and substantially quieter than previous models making it ideal for small offices and other commercial applications.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit		S-15MK2E5B	S-22MK2E5B	S-28MK2E5B	S-36MK2E5B	S-45MK2E5B	S-56MK2E5B	S-73MK2E5B	S-106MK2E5B	
Cooling capacity	kW	1,5	2,2	2,8	3,6	4,5	5,6	7,3	10,6	
Input power	W	25,00	25,00	25,00	30,00	30,00	35,00	55,00	80,00	
Current	A	0,20	0,21	0,23	0,25	0,32	0,35	0,51	0,70	
Heating capacity	kW	1,7	2,5	3,2	4,2	5,0	6,3	8,0	11,4	
Input power	W	25,00	25,00	25,00	30,00	30,00	35,00	55,00	80,00	
Current	A	0,20	0,21	0,23	0,25	0,32	0,35	0,51	0,70	
Fan type		Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	
Air flow	Cool (Hi/Med/Lo)	m <sup>3</sup> /min	7,9/7,4/6,5	9,0/7,5/6,5	9,5/8,3/6,5	10,9/9,0/6,5	14,5/12,5/10,0	16,0/14,0/12,0	19,5/17,0/14,0	21,5/18,5/15,0
	Heat (Hi/Med/Lo)	m <sup>3</sup> /min	9,0/7,7/6,8	9,2/8,3/6,8	9,7/8,5/6,8	11,2/9,5/6,8	14,5/12,5/10,0	16,0/14,0/12,0	19,5/17,0/14,0	21,5/18,5/15,0
Sound pressure	Hi/Med/Lo	dB(A)	34/32/29	36/33/29	37/34/29	40/36/29	38/35/33	40/37/35	47/44/40	49/46/42
Sound power	Hi/Med/Lo	dB(A)	49/47/44	51/48/44	52/49/44	55/51/44	53/50/48	55/52/50	62/59/55	64/61/57
Dimension	H x W x D	mm	290 x 870 x 214	290 x 870 x 214	290 x 870 x 214	290 x 870 x 214	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236
Net weight		kg	9	9	9	9	13	13	14	14
Piping diameter	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	3/8(9,52) <sup>1)</sup>	3/8(9,52)
	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88) <sup>1)</sup>	5/8(15,88)

1) When the piping diameter is [liquid] Ø1/4 (6,35) - [gas] Ø1/2 (12,70), connect the liquid socket tube (Ø1/4 (6,35) - Ø3/8 (9,52)) to the liquid tubing side indoor unit and connect the gas socket tube (Ø1/2 (12,70) - Ø5/8 (15,88)) to the gas tubing side indoor unit.

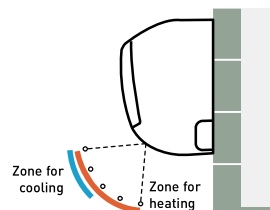
Accessories	
<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function
<b>CZ-RWS3</b>	Infrared remote controller
<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white

Accessories	
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black
<b>CZ-CENSC1</b>	Econavi energy saving sensor
<b>CZ-P56SVK2</b>	External valve for model sizes 15 to 56
<b>CZ-P160SVK2</b>	External valve for model sizes 60 to 106
<b>CZ-CGLSC1</b>	Panasonic R32 refrigerant leak detector

### Technical focus

- Compact lightweight units for easy installation
- Quiet operation
- Smooth and durable design
- Piping outlet in six directions
- Air distribution is automatically altered depending on the operational mode

**Air distribution is automatically altered depending on the operational mode of the unit**

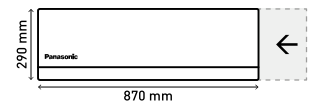


### Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

### Lighter and smaller units

Compact and lightweight units make for easy installation. When the unit is turned OFF, the flap closes completely to prevent entry of dust into the unit and to keep the equipment clean.



### Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making the installation work more flexible.



### External valve (optional)

CZ-P56SVK2 (model sizes 15 to 56).  
CZ-P160SVK2 (model sizes 60<sup>1)</sup> to 106).

1) When the piping diameter is liquid 1/4(6,35) and gas 1/2(12,70), use CZ-P56SVK2



ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB, Cooling outdoor 35 °C DB / 24 °C WB, Heating indoor 20 °C DB, Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites [www.aicon.panasonic.eu](http://www.aicon.panasonic.eu) or [www.ptc.panasonic.eu](http://www.ptc.panasonic.eu).

## G1 type floor console - R410A

The stylish and compact unit profile, also used for residential market range, is easy to integrate into any design of building.

Compact and versatile, this system is capable of being installed in an area with limited space. It is a perfect solution for retrofit, replacing existing radiator panels.



COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION



Indoor unit			S-22MG1E5N	S-28MG1E5N	S-36MG1E5N	S-45MG1E5N	S-56MG1E5N
Cooling capacity	kW		2,2	2,8	3,6	4,5	5,6
Input power	W		20,00	20,00	22,00	28,00	31,00
Current	A		0,20	0,20	0,23	0,25	0,28
Heating capacity	kW		2,5	3,2	4,2	5,0	6,3
Input power	W		21,00	21,00	23,00	29,00	32,00
Current	A		0,20	0,20	0,24	0,26	0,28
Fan type			Cross flow	Cross flow	Cross flow	Cross flow	Cross flow
nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1	Mark 1
Air flow	Cool (Hi/Med/Lo)	m <sup>3</sup> /min	9,2/7,5/6,0	9,2/7,5/6,0	9,7/8,2/6,0	10,5/9,0/6,5	12,0/9,5/6,5
	Heat (Hi/Med/Lo)	m <sup>3</sup> /min	9,7/8,0/6,5	9,7/8,0/6,5	10,2/8,7/6,5	11,0/9,5/7,0	12,5/10,0/7,0
Sound pressure	Hi/Med/Lo	dB(A)	38/34/29	38/34/29	39/35/29	42/37/30	44/38/30
Dimension	H x W x D	mm	600 x 750 x 207	600 x 750 x 207	600 x 750 x 207	600 x 750 x 207	600 x 750 x 207
Net weight		kg	14	14	14	14	14
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)

\* Infrared receiver is integrated with the unit as standard.

### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function
<b>CZ-RWS3*</b>	Infrared remote controller

### Accessories

<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black
<b>CZ-CENSC1</b>	Econavi energy saving sensor

## 1 nanoe™ X: Bringing nature's balance indoors

Panasonic's nanoe™ X technology brings nature's detergent – hydroxyl radicals – indoors to help improve protection 24/7 against several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen or hazardous substances.

## 2 Stylish and simple

- Clean and modern European design with slim depth
- Modern matt white color panel
- Washable air filter

The stylish and compact unit profile, also used for residential market range, is easy to integrate into any design of building.



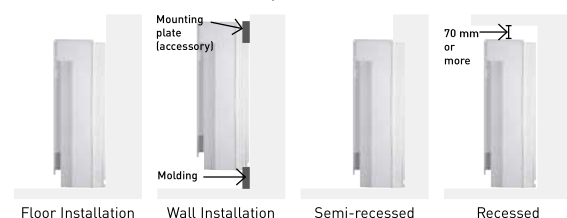
**Dimension:**  
W x H x D = 750 x 600 x 207 mm

**Weight:**  
14kg

## 3 Flexible easy installation

Four different mounting styles possible: exposed (floor or wall), semi-recessed and recessed.

Flexible installation with 4 different options.



## 4 Functions for comfort

- Double Air Flow direction to maximize comfort
- Self-cleaning function
- Compatible with Commercial Wi-Fi Adaptor for cloud control

### Self-cleaning function.

- Self cleaning function can be pre-scheduled with remote controller, up to a maximum of 90 minutes following cooling / dry operation
- Air flow will not blow directly at occupants during self-cleaning



ECONAVI and INTERNET CONTROL: Optional.

## P1 type floor-standing · R410A

The compact floor-standing P1 units are the ideal solution for providing perimeter air conditioning.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit		S-22MP1E5	S-28MP1E5	S-36MP1E5	S-45MP1E5	S-56MP1E5	S-71MP1E5	
Cooling capacity	kW	2,2	2,8	3,6	4,5	5,6	7,1	
Input power	W	56,00	56,00	85,00	126,00	126,00	160,00	
Current	A	0,25	0,25	0,38	0,56	0,56	0,72	
Heating capacity	kW	2,5	3,2	4,2	5,0	6,3	8,0	
Input power	W	40,00	40,00	70,00	91,00	91,00	120,00	
Current	A	0,18	0,18	0,31	0,41	0,41	0,54	
Fan type		Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	
Air flow	Hi/Med/Lo	m <sup>3</sup> /min	7,0/6,0/5,0	7,0/6,0/5,0	9,0/7,0/6,0	12,0/9,0/8,0	15,0/13,0/11,0	17,0/14,0/12,0
External static pressure		Pa	15	15	15	15	15	
Sound pressure	Hi/Med/Lo	dB(A)	33/30/28	33/30/28	39/35/29	38/35/31	39/36/31	41/38/35
Dimension	HxWxD	mm	615 x 1065 x 230	615 x 1065 x 230	615 x 1065 x 230	615 x 1380 x 230	615 x 1380 x 230	615 x 1380 x 230
Net weight		kg	29	29	29	39	39	39
Piping diameter	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	3/8(9,52)
	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88)

### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function

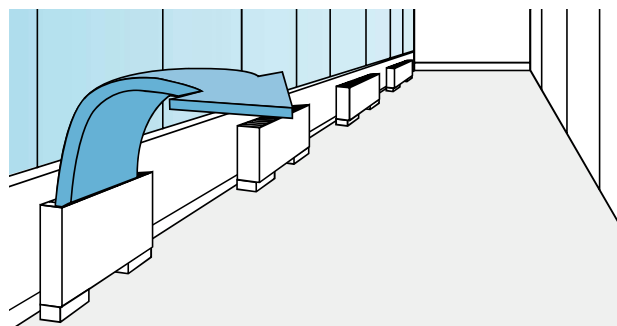
### Accessories

<b>CZ-RWS3 + CZ-RWRC3</b>	Infrared remote controller and receiver
<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black

### Technical focus

- Pipes can be connected to either side of the unit from the bottom or rear
- Easy to install
- Front panel opens fully for easy maintenance
- Removable air discharge grille gives flexible airflow
- Room for condensate pump

### Effective perimeter handling



INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB, Cooling outdoor 35 °C DB / 24 °C WB, Heating indoor 20 °C DB, Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites [www.aircon.panasonic.eu](http://www.aircon.panasonic.eu) or [www.ptc.panasonic.eu](http://www.ptc.panasonic.eu).

## R1 type concealed floor-standing - R410A

At just 229 mm deep, the R1 unit can be easily concealed in perimeter areas to provide powerful and effective air conditioning.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-22MR1E5	S-28MR1E5	S-36MR1E5	S-45MR1E5	S-56MR1E5	S-71MR1E5
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6	7,1
Input power		W	56,00	56,00	85,00	126,00	126,00	160,00
Current		A	0,25	0,25	0,38	0,56	0,56	0,72
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3	8,0
Input power		W	40,00	40,00	70,00	91,00	91,00	120,00
Current		A	0,18	0,18	0,31	0,41	0,41	0,54
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi/Med/Lo	m <sup>3</sup> /min	7,0/6,0/5,0	7,0/6,0/5,0	9,0/7,0/6,0	12,0/9,0/8,0	15,0/13,0/11,0	17,0/14,0/12,0
External static pressure		Pa	15	15	15	15	15	15
Sound pressure	Hi/Med/Lo	dB(A)	33/30/28	33/30/28	39/35/29	38/35/31	39/36/31	41/38/35
Dimension	HxWxD	mm	616 x 904 x 229	616 x 904 x 229	616 x 904 x 229	616 x 1219 x 229	616 x 1219 x 229	616 x 1219 x 229
Net weight		kg	21	21	21	28	28	28
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)

### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function

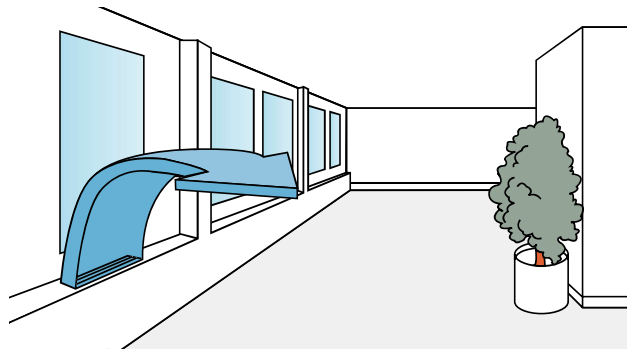
### Accessories

<b>CZ-RWS3 + CZ-RWRC3</b>	Infrared remote controller and receiver
<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black

### Technical focus

- Chassis unit for discreet installation
- Complete with removable filters
- Pipes can be connected to either side of the unit from the bottom or rear
- Easy to install

### Perimeter air conditioning with high interior quality



INTERNET CONTROL: Optional.

## Hydrokit for ECOi, water at 45 °C · R410A

### Connect the Hydrokit to your VRF system, together with other indoor units.

Total system performs high energy efficiency through heat recovering operation, and it gives an advantage for sustainability related assessment methods, such as BREEAM in UK.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-80MW1E5	S-125MW1E5
Power supply	Voltage	V	230	230
	Phase		Single phase	Single phase
	Frequency	Hz	50	50
Cooling capacity		kW	8,0	12,5
Heating capacity		kW	9,0	14,0
Maximum temperature		°C	-45/-65 <sup>1)</sup>	-45/-65 <sup>1)</sup>
Dimension	H x W x D	mm	892 x 502 x 353	892 x 502 x 353
Water pipe connector		Inch	R 1 1/4	R 1 1/4
Water pump (built-in)			DC motor (A class)	DC motor (A class)
Water flow rate	Cool	L/min	22,90	35,80
	Heat	L/min	25,80	40,10
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)
	Drain	mm	15 ~ 17 (inner size)	15 ~ 17 (inner size)
Operation range	Cool	Ambient	°C	+10 ~ +43
		Water	°C	+5 ~ +20
	Heat	Ambient	°C	-20 ~ +43
		Water	°C	+25 ~ +45
Connectable system	3-Pipe (heat recovery type) VRF System [system capable up to 48 HP]			
Maximum Indoor ratio (connectable hydrokit module capacity ratio)	Total indoor unit + Hydrokit capacity: up to 130% (** - **% vs total outdoor unit capacity)			

1) Maximum 45 °C by refrigerant circuit (heat pump cycle), over 45 °C is provided by electric heater operation.

#### Accessories

**CZ-RTC5B** Wired remote controller with Econavi function

### Basic principle and advantage.

Hydrokit module provides hot water by using waste heat that is recovered from standard air-conditioning indoor unit in cooling mode.

### Technical focus

- Only with 3-Pipe ECOi EX MF3 Series outdoor units
- Remote controller CZ-RTC5B common use with DX coil indoor units PACi and ECOi

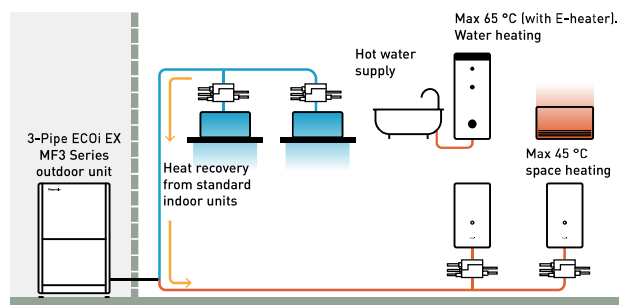
### Hydrokit control function / CZ-RTC5B

- CZ-RTC5B can be used for hydrokit and also normal indoor unit. CZ-RTC5B checks the type of connected unit and switches between hydrokit and air conditioner display automatically

- Hydrokit mode (tank or air conditioning mode) is set during initial startup

### Overview: hydromodule in VRF system

- Multiple hydromodule connection in same circuit is available
- The mode of each module can be individually set from either hot water or space heating / cooling (once set the units cannot operate in another mode, resetting will be required)
- 3-Pipe control solenoid valve kit is necessary for each indoor unit and hydromodule





## NEW AHU connection kit MAH4M for ECOi 2-Pipe

Space-saving compact casing.  
Direct Modbus communication without the need for an additional interface.  
Accurate control with a pressure transducer.

New  
2024



Built-in controller.



PAW-P+100MAH4M			6 HP	12 HP	16 HP
Cooling capacity	Nominal	kW	16,0	33,5	45,0
Heating capacity	Nominal	kW	17,0	37,5	50,0
Air flow	Min / Max	m <sup>3</sup> /h	1800/4400	2000/10000	3500/12000
Dimension	HxWxD	mm	300x400x150	300x400x150	300x400x150
Weight		kg	11	11	11
Pipe length range		m	10 ~ 100	10 ~ 100	10 ~ 100
Elevation difference (in / out)		m	10	10	10
Piping diameter ≤ 90 m	Liquid	Inch (mm)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)
	Gas	Inch (mm)	5/8 (15,88)	1 (25,40)	1 1/8 (28,57)
Piping diameter > 90 m <sup>1)</sup>	Liquid	Inch (mm)	—	5/8 (15,88)	5/8 (15,88)
	Gas	Inch (mm)	—	1 1/8 (28,57)	1 1/4 (31,75)

1) For R410A models only.

### AHU connection kit / system combination

Cooling capacity	Mini VRF		2-Pipe VRF	AHU connection kit	EEV pack
	Mini ECOi LZ2 Series (R32)	Mini ECOi LE2 Series (R410A)			
<b>6 HP</b> <b>16,0 kW</b>	U-5LZ2E5(8) U-6LZ2E5(8)	U-5LE2E5(8) U-6LE2E5(8)	—	PAW-P+100MAH4M	PAW-P+116EEVPACK
<b>12 HP</b> <b>33,5 kW</b>	U-8LZ2E8 U-10LZ2E8	U-8LE1E8 U-10LE1E8	U-8ME2E8 U-10ME2E8 U-12ME2E8	PAW-P+100MAH4M	PAW-P+133EEVPACK
<b>16 HP</b> <b>45,0 kW</b>	—	—	U-14ME2E8 U-16ME2E8	PAW-P+100MAH4M	PAW-P+145EEVPACK

### Accessories

<b>PAW-P+102SENSPACK</b>	AHU connection kit sensor pack 1 [2 pcs of SENSOR PT1000 HT IP67 -50/250 CABLE 6 m PCK]
<b>PAW-P+116EEVPACK</b>	EEV pack 1 [1 pc of expansion valve ≤ 16 kW (R410A / R32) and 1 pc of UNIPOLAR stator]
<b>PAW-P+133EEVPACK</b>	EEV pack 2 [1 pc of expansion valve ≤ 33 kW (R410A / R32) and 1 pc of UNIPOLAR stator]

### Accessories

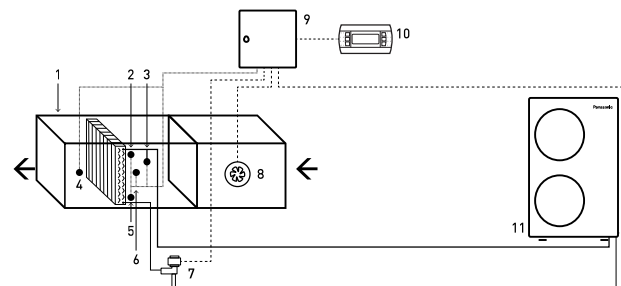
<b>PAW-P+145EEVPACK</b>	EEV pack 3 [1 pc of expansion valve ≤ 45 kW (R410A / R32) and 1 pc of UNIPOLAR stator]
<b>PAW-P+100PGNEPACK</b>	Remote control pack [1 pc of PGNE 132 x 64 mm, mounting panel and 1 pc of cable L= 1,5 m, telephone connectors]

## Technical focus

- Maximum capacity / system: 16 HP (45 kW\*)
- Selectable expansion valve packs depending on the capacity
- DC 12 V outlet available without optional interface
- Maximum elevation difference indoor/outdoor unit: 10 m
- Elevation difference (indoor unit / indoor unit): 4 m
- In / out connection capacity ratio: 50~100%
- Maximum number of AHU connection kits: 1 unit
- Outdoor temperature range in heating: -20 ~ +15 °C
- Available temperature range for the suction air at AHU connection kit: cool: +18 ~ +32 °C / heat: +16 ~ +30 °C
- The system's set temperature can be selected either as the default setting discharge air temperature (supply room temperature) or the suction air set temperature (or room return air temperature)
- Accurate control with a pressure transducer
- Direct Modbus communication with a built-in Modbus S-Link interface
- Various technical parameters available with Modbus
- SG ready fulfilled. Demand input can be set Thermostat OFF or 40 - 200% by the user
- Defrost operation signal, compressor status ON / OFF output
- Display an error message concerning drain water overflow

- Connectable with S-Link system. Special care for electrical noise may be necessary depending on the on-site system
- Fan control signal output to manage the air flow (ON / OFF)
- Alarm status monitoring output

\* Nominal cooling capacity.



### System and regulations. System overview.

- 1 | AHU Unit equipment (field supplied)
- 2 | Thermistor for gas pipe (E3)
- 3 | Pressure transducer
- 4 | Thermistor for discharge air (BL)
- 5 | Thermistor for liquid pipe (E1)
- 6 | Thermistor for suction air (TA)
- 7 | Expansion valve (accessorie part)
- 8 | Fan (field supplied)
- 9 | AHU connection kit controller box
- 10 | Optional remote controller
- 11 | Outdoor unit Mini ECOi and 2-Pipe ECOi EX

**AHU connection kit MAH3M for ECOi and ECO G**

Available with ECOi and ECO G Series.  
 CONEX Bluetooth® version (CZ-RTC6BL) is built-in.  
 0-10 V demand control.



**CONEX**  
 CONEX Bluetooth®  
 control built-in.  
 CZ-RTC6BL



Reference	PAW-	5 HP		10 HP		20 HP		30 HP		40 HP		50 HP		60 HP		70 HP		80 HP	
		160MAH3M	280MAH3M	560MAH3M	280MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M	560MAH3M
Cooling capacity	kW	14,0	28,0	56,0	84,0	112,0	140,0	168,0	196,0	224,0									
Heating capacity	kW	16,0	31,5	63,0	95,0	127,0	155,0	189,0	219,0	252,0									
Air flow	Cool Min/Max m³/h	2598/1140	4998/3498	10002/7002	15000/10500	19998/13998	24996/17496	30000/21000	24000/35000	28000/40000									
Bypass factor recommended		0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9									
Dimension	HxWxD mm	500x400 x150	500x400 x150	500x400 x150	500x400 x150	500x400 x150	500x400 x150	500x400 x150	500x400 x150	500x400 x150									
Net weight	kg	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5									
Pipe length range	m	10~100	10~100	10~100	10~100	10~100	10~100	10~100	10~100	10~100									
Elevation difference (in / out)	Max m	10	10	10	10	10	10	10	10	10									
Piping diameter	Liquid Inch (mm)	3/8(9,52)	3/8(9,52)	5/8(15,88)	3/4(19,05)	3/4(19,05)	3/4(19,05)	3/4(19,05)	3/4(19,05)	3/4(19,05)									
	Gas Inch (mm)	5/8(15,88)	7/8(22,22)	1 1/8(28,58)	1 1/4(31,75)	1 1/2(38,15)	1 1/2(38,15)	1 1/2(38,15)	1 1/2(38,15)	1 1/2(38,15)									
Intake temperature of AHU connection kit	Cool Min~Max °C DB	+18~+32	+18~+32	+18~+32	+18~+32	+18~+32	+18~+32	+18~+32	+18~+32	+18~+32									
	Cool Min~Max °C WB	+13~+23	+13~+23	+13~+23	+13~+23	+13~+23	+13~+23	+13~+23	+13~+23	+13~+23									
	Heat Min~Max °C	+16~+30	+16~+30	+16~+30	+16~+30	+16~+30	+16~+30	+16~+30	+16~+30	+16~+30									
Ambient temperature of outdoor unit	Cool Min~Max °C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43									
	Heat Min~Max °C	-20~+15	-20~+15	-20~+15	-20~+15	-20~+15	-20~+15	-20~+15	-20~+15	-20~+15									

**AHU connection kit / system combination**

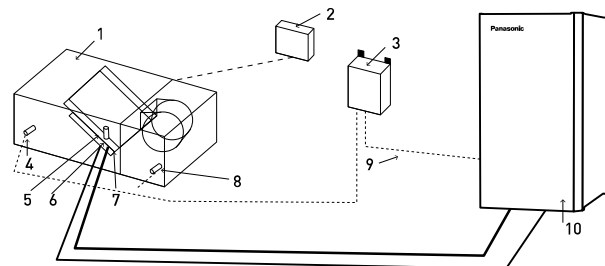
Capacity	ECOi Series			AHU kit				Capacity	ECO G Series		AHU kit
<b>5 HP 16 kW</b>	All ECOi			160MAH3M	—	—	—	<b>5 HP 16 kW</b>	All ECO G		160MAH3M
<b>10 HP 28 kW</b>	U-10ME2E8	—	—	280MAH3M	—	—	—	<b>10 HP 28 kW</b>	All ECO G		280MAH3M
<b>20 HP 56 kW</b>	U-20ME2E8	—	—	560MAH3M	—	—	—	<b>20 HP 56 kW</b>	U-20GE3E5		560MAH3M
<b>30 HP 84 kW</b>	U-16ME2E8	U-14ME2E8	—	560MAH3M	280MAH3M	—	—				
<b>40 HP 112 kW</b>	U-20ME2E8	U-20ME2E8	—	560MAH3M	560MAH3M	—	—				
<b>50 HP 140 kW</b>	U-18ME2E8	U-16ME2E8	U-16ME2E8	560MAH3M	560MAH3M	280MAH3M	—				
<b>60 HP 168 kW</b>	U-20ME2E8	U-20ME2E8	U-20ME2E8	560MAH3M	560MAH3M	560MAH3M	—				
<b>70 HP 196 kW</b>	U-20ME2E8	U-20ME2E8	U-20ME2E8	560MAH3M	560MAH3M	560MAH3M	280MAH3M				
<b>80 HP 224 kW</b>	U-20ME2E8	U-20ME2E8	U-20ME2E8	560MAH3M	560MAH3M	560MAH3M	560MAH3M				

**Technical focus**

- Maximum capacity / system: 80 HP (224 kW)
- Maximum piping length: 100 m (120 m equivalent)
- Elevation difference (indoor unit / indoor unit): 4 m
- In / out capacity ratio: 50~100%
- Maximum number of AHU connection kits: 4 units\*
- Outdoor temperature range in heating: -20 ~ +15 °C
- Available temperature range for the suction air at AHU connection kit: cool: +18 ~ +32 °C / heat: +16 ~ +30 °C
- The systems is controlled by the suction air (or room return air) temperature (same as standard indoor unit)
- The discharge air temperature is also controlled to prevent too-low air discharge in cooling or too-high air discharge in heating (in case of VRF)
- Demand control (forcible thermostat-OFF control by operating current)
- Defrost operation signal, Thermo-ON / OFF states output
- Drain pump control (drain pump and the float switch to be supplied in local)
- External target temperature setting via indoor / outdoor signal interface is available with CZ-CAPBC2 (Ex. 0-10 V)
- Demand control 40% to 120% (5% steps) by 0-10 V input signal
- Connectable with S-Link system. Special care for electrical noise may be necessary depending on the on-site system

- Fan control signal from the PCB can be used to control the air flow (high / mid / low and LL for Th-OFF). Need to change the fan control circuit wiring at field

\* To be simultaneous operation controlled by one remote controller sensor.



**System and regulations. System overview.**

- 1 | AHU Unit equipment (field supplied)
- 2 | AHU Unit system controller (field supplied)
- 3 | AHU connection kit controller box (with control PCB)
- 4 | Thermistor for discharge air
- 5 | Electronic expansion valve
- 6 | Thermistor for gas pipe [E3]
- 7 | Thermistor for liquid pipe [E1]
- 8 | Thermistor for suction air
- 9 | Inter-unit wiring
- 10 | ECOi or ECOi G outdoor unit

**Optional controller.**

**Timer remote controller.**  
 CZ-RTC5B.



## Energy recovery ventilation

Indoor air quality (IAQ) is a key consideration for any business owner looking to create a healthy and comfortable environment. An energy recovery ventilator (ERV) provides balanced, energy-efficient ventilation by transferring heat and moisture between incoming fresh filtered air and outgoing stale air. In the winter, an ERV keeps heat and moisture inside the building. During hot, humid summer months, it maintains cool, dry indoor air.



### Advanced ERV ZY Series.

- Extended 9 model line-up including 2000 m<sup>3</sup>/h model
- DC motors
- ESP up to 150 Pa
- F7 grade filter built-in as a standard
- New intuitive remote controller
- BMS integration with RS485



### ERV ZDY Series.

- Simple 5 line-up
- AC motor
- A nonwoven cloth filter
- Simple wired remote controller with black panel



Advanced energy recovery ventilation - ZY Series



Rated flow rate			150 m <sup>3</sup> /h	250 m <sup>3</sup> /h	350 m <sup>3</sup> /h	500 m <sup>3</sup> /h	650 m <sup>3</sup> /h	800 m <sup>3</sup> /h	1000 m <sup>3</sup> /h	1500 m <sup>3</sup> /h	2000 m <sup>3</sup> /h
Indoor unit			FV-15ZY1G	FV-25ZY1G	FV-35ZY1G	FV-50ZY1G	FV-65ZY1G	FV-80ZY1G	FV-1KZY1G	FV-1HZY1G	FV-2KZY1G
Power supply	Voltage	V	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50
Motor type			DC	DC	DC	DC	DC	DC	DC	DC	DC
<b>ERV</b>											
Air flow	Max	m <sup>3</sup> /h	150	250	350	500	650	800	1000	1500	2000
External static pressure	Max	Pa	100	120	140	130	150	150	150	130	130
Sound power <sup>2)</sup>	Max	dB(A)	37	38	39	43	45	45	46	49	51
Input power	Max	W	76 - 84	106 - 117	141 - 155,5	180 - 198	420 - 462	470 - 517	550 - 605	940 - 1034	1100 - 1210
<b>Heat exchange efficiency <sup>3)</sup></b>											
Cooling	Max	%	68,0	69,0	71,0	65,0	64,0	63,0	65,0	63,0	65,0
Heating	Max	%	83,0	82,0	83,0	81,0	82,0	83,0	82,0	83,0	82,0
<b>Enthalpy exchange efficiency</b>											
Cooling	Max	%	66,0	66,0	67,0	62,5	62,5	63,5	63,0	63,5	63,0
Heating	Max	%	76,0	74,0	75,0	73,0	72,0	73,0	74,0	73,0	74,0
Adapter diameter		mm	100	150	150	200	200	250	250	250	250
Dimension	H x W x D	mm	289 x 610 x 860	289 x 735 x 860	331 x 874 x 968	331 x 1016 x 968	404 x 954 x 1008	404 x 1004 x 1224	404 x 1231 x 1224	808 x 1004 x 1224	808 x 1231 x 1224
Net weight		kg	23	27	37	40	48	60	64	119	142

1) Different dimensions depending on models. 2) Measurement of noise 1,5 m below the center of the main unit (anechoic chamber). 3) Heat exchange efficiency measurement standard JIS B 8628 (2003). \* JIS B 8628 (2017) is used in the measurement environment. \* A remote controller is included.

Accessories	
<b>FV-FP15ZY1G</b>	Replacement high efficiency filter for FV-15ZY1G
<b>FV-FP25ZY1G</b>	Replacement high efficiency filter for FV-25ZY1G
<b>FV-FP35ZY1G</b>	Replacement high efficiency filter for FV-35ZY1G
<b>FV-FP50ZY1G</b>	Replacement high efficiency filter for FV-50ZY1G

Accessories	
<b>FV-FP65ZY1G</b>	Replacement high efficiency filter for FV-65ZY1G
<b>FV-FP80ZY1G</b>	Replacement high efficiency filter for FV-80ZY1G and FV-1HZY1G*
<b>FV-FP1KZY1G</b>	Replacement high efficiency filter for FV-1KZY1G and FV-2KZY1G*

\* 2 sets of filters required for those models.

Energy recovery ventilation - ZDY Series



Rated flow rate			250 m <sup>3</sup> /h			350 m <sup>3</sup> /h			500 m <sup>3</sup> /h			800 m <sup>3</sup> /h			1000 m <sup>3</sup> /h		
Indoor unit			FY-250ZDY8R			FY-350ZDY8R			FY-500ZDY8R			FY-800ZDY8R			FY-01KZDY8R		
Power supply	Voltage	V	220 - 240			220 - 240			220 - 240			220 - 240			220 - 240		
	Phase		Single phase			Single phase			Single phase			Single phase			Single phase		
	Frequency	Hz	50			50			50			50			50		
Notch			Extra high	High	Low	Extra high	High	Low	Extra high	High	Low	Extra high	High	Low	Extra high	High	Low
	Input power	W	112,0-128,0	108,0-123,0	87,0-96,0	182,0-190,0	178,0-185,0	175,0-168,0	263,0-289,0	204,0-225,0	165,0-185,0	387,0-418,0	360,0-378,0	293,0-295,0	437,0-464,0	416,0-432,0	301,0-311,0
Air flow		m <sup>3</sup> /h	250	250	190	350	350	240	500	500	440	800	800	630	1000	1000	700
External static pressure		Pa	105	95	45	140	60	45	120	60	35	140	110	55	105	80	75
Sound power	Heat exchange	dB(A)	30,0-31,5	29,5-30,5	23,5-26,5	32,5-33,0	30,5-31,0	22,5-25,5	36,5-37,5	34,5-35,5	31,0-32,5	37,0-37,5	36,5-37,0	33,5-34,5	37,5-38,5	37,0-37,5	33,5-34,5
	Normal	dB(A)	30,0-31,5	29,5-30,5	23,5-26,5	32,5-33,0	30,5-31,0	22,5-25,5	37,5-38,5	37,0-38,0	31,0-32,5	37,0-37,5	36,5-37,0	33,5-34,5	39,5-40,5	39,0-39,5	35,5-36,5
Temperature exchange efficiency		%	75	75	77	75	75	78	75	75	76	75	75	76	75	75	79
Dimension	H x W x D	mm	270 x 599 x 882			317 x 804 x 1050			317 x 904 x 1090			388 x 884 x 1322			388 x 1134 x 1322		
Net weight		kg	29			49			57			71			83		

The noise level was measured within an acoustic chamber. Due to installation arrangement and surfaces within the space, actual noise levels may increase. The input, the current and the exchange efficiency are values relevant to the indicated air flows. The noise level is measured 1,5 m below the centre of the unit. The temperature exchange efficiency is an average of both cooling and heating operation.

## NEW energy recovery ventilation with DX coil - HRPT Series - R32 / R410A

- Dual flow ventilation with EC fan, featuring high efficiency heat recovery (>85%  $\eta$ )
- 2 types of polypropylene heat exchanger (high efficiency and sensible) with counter-current flows and integrated bypass as standard
- Modbus connection available

New  
2024



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit with high-efficiency heat exchanger			PAW-HRPT40HX		PAW-HRPT80HX		PAW-HRPT120HX		PAW-HRPT160HX		PAW-HRPT200HX	
Power supply	Voltage	V	230		230		230		230		380	
	Phase		Single phase		Single phase		Single phase		Single phase		Three phase	
	Frequency	Hz	50		50		50		50		50	
<b>Heat recovery ventilation <sup>1)</sup></b>			<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>
Temperature efficiency	%		60,9	49,5	59,2	47,6	60,3	48,8	61,0	49,6	59,2	47,6
Enthalpy efficiency	%		75,7	51,6	73,1	48,9	73,6	50,7	74,3	50,8	73	48,8
Weight	kg		70		120		135		150		180	

Indoor unit with sensible heat exchanger			PAW-HRPT40		PAW-HRPT80		PAW-HRPT120		PAW-HRPT160		PAW-HRPT200	
Power supply	Voltage	V	230		230		230		230		380	
	Phase		Single phase		Single phase		Single phase		Single phase		Three phase	
	Frequency	Hz	50		50		50		50		50	
<b>Heat recovery ventilation <sup>1)</sup></b>			<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>
Temperature efficiency	%		86,1	86,6	84,3	84,7	82,9	83,5	83,9	84,2	81,3	82,0
Weight	kg		67		117		132		147		177	

### Common data

DX coil			Cooling		Heating		Cooling		Heating		Cooling		Heating	
Total / Sensible capacity	kW		2,5	3,0	5,0	6,0	7,0	8,1	10,0	12,5	12,5	14,0	14,0	14,0
Maximum input current	A		1,5		2,2		4,1		4,4		3,3		3,3	
Sound pressure @1 m / @3 m	dB(A)		41 / 35		51 / 43		42 / 36		49 / 41		57 / 49		57 / 49	
Air flow	High	m <sup>3</sup> /h	500		800		1500		1700		2450		2450	
External static pressure	High	Pa	150		150		150		150		150		150	
Dimension	H x W x D	mm	283 x 975 x 1400		408 x 1180 x 1720		408 x 1580 x 1720		408 x 1980 x 1720		408 x 1980 x 1720		408 x 1980 x 1720	
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)		3/8 (9,52)		3/8 (9,52)		3/8 (9,52)		3/8 (9,52)		3/8 (9,52)	
	Gas	Inch (mm)	1/2 (12,70)		5/8 (15,88)		5/8 (15,88)		5/8 (15,88)		5/8 (15,88)		5/8 (15,88)	

1) Data refers to the following conditions [UNI EN 13141-7]: nominal air flow, external air 5 °C with 72% r. / expelled air 25 °C with 28% r. \* Image is for PAW-HRPT40.

### Accessories

<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function

### Accessories

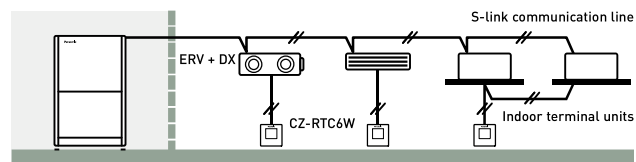
<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black

## Technical focus

- Dual flow ventilation with EC fan, featuring high efficiency heat recovery (>85%  $\eta$ )
- 5 model line-up is available with air flow rates of 500, 800, 1200, 1600 and 2000 m<sup>3</sup>/h
- 2 types of polypropylene heat exchanger (high efficiency and sensible) with counter-current flows and integrated bypass as standard
- Automatic defrosting of the exchanger
- Low consumption and EC motors with electronic speed control ensure high useful static pressure for circular inlet connection to air ducts
- Wide ambient temperature range up to +50 °C and down to -15 °C
- Modbus connection available

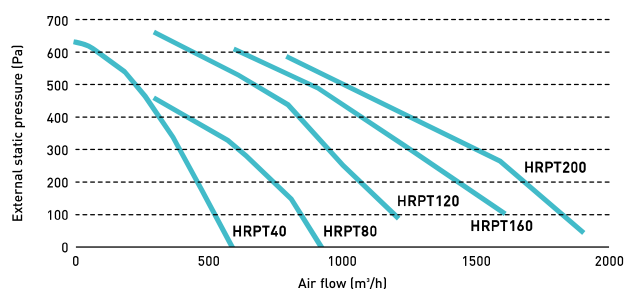


## Interconnection to outdoor / indoor units



## Aeraulic performance

EC motors with electronic speed control ensure high values of effective static pressure for ducting.





## Heat recovery with DX coil - ZDX Series - R410A

Motorised heat recovery by-pass device automatically controlled to use fresh air free-cooling when convenient.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			PAW-500ZDX3N	PAW-800ZDX3N	PAW-01KZDX3N			
Power supply	Voltage	V	230	230	230			
	Phase		Single phase	Single phase	Single phase			
	Frequency	Hz	50	50	50			
Air flow		m <sup>3</sup> /min	8,3	13,3	16,7			
External static pressure <sup>1)</sup>		Pa	90	120	115			
Maximum current	Total full load	A	0,6	1,4	2,1			
Input power		W	150	320	390			
Sound pressure <sup>2)</sup>		dB(A)	39	42	43			
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)			
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)			
<b>Heat recovery</b>			<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>	<b>Cooling</b>	<b>Heating</b>
Temperature efficiency	%		76	76	76	76	76	76
Enthalpy efficiency	%		63	67	63	65	60	62
Saved power summer mode or winter mode*	kW		1,70	4,30 (4,80)	2,50	6,50 (7,30)	3,20	8,20 (9,00)
<b>DX coil</b>								
Total / Sensible capacity	kW		3,00/2,10	2,50/2,70	5,10/3,50	4,40/4,80	5,80/4,10	5,20/6,70
OFF temperature	°C		15,9	28,0 (27,3)	15,5	29,6 (29,0)	16,2	28,5 (27,8)
OFF relative humidity	%		90	16 (15)	90	14 (13)	89	15 (14)

Nominal summer conditions: Outside air: 32 °C DB, RH 50%. Ambient air: 26 °C DB, RH 50%. Nominal winter conditions: Outside air: -5 °C DB, RH 80%. Ambient air: 20 °C DB, RH 50%. Cooling mode air inlet condition: 28,5 °C DB, RH 50%; evaporating temperature 7 °C. Heating mode air inlet condition: 13 °C DB, RH 40% (11 °C DB, RH 45%); condensating temperature 40 °C. DB: Dry Bulb; RH: Relative Humidity. 1) Referred to the nominal air flow after filter and plate heat exchanger. 2) Sound pressure level calculated at 1 m far from: ducted supply exhaust air ducted return - first air intake / service side, at normal condition. \* Tentative data.

Accessories	
<b>CZ-RTC6W</b>	CONEX wired remote controller (non-wireless), white
<b>CZ-RTC6WBL</b>	CONEX wired remote controller with Bluetooth®, white
<b>CZ-RTC6</b>	CONEX wired remote controller (non-wireless), black
<b>CZ-RTC6BL</b>	CONEX wired remote controller with Bluetooth®, black
<b>CZ-RTC5B</b>	Wired remote controller with Econavi function

Accessories	
<b>PAW-RE2C4-MOD-WH</b>	Room controller for hotel rooms, white
<b>PAW-RE2C4-MOD-BK</b>	Room controller for hotel rooms, black
<b>PAW-RE2D4-WH</b>	Display control for hotel rooms, white
<b>PAW-RE2D4-BK</b>	Display control for hotel rooms, black

### Technical focus

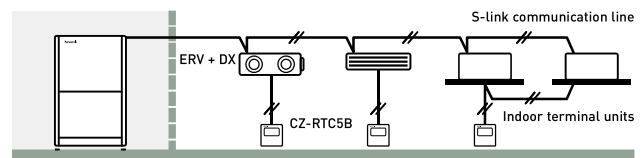
- Galvanized steel self-supporting panels, internally and externally insulated
- High efficiency static cross-flow heat recovery, made by membrane with high moisture permeability, good air tightness, excellent tear, and aging resistance, structure consisting of flat and corrugated plates. Total heat exchange with temperature efficiency up to 76% and enthalpy efficiency up to 67%, also at high level during summer season
- ISO16890 ePm2,5 95% (F9 EN 779) efficiency class filter with synthetic cleanable media and COARSE 50% (G3 EN 779) pre-filter ON fresh air, COARSE 50% filter on return air intake
- Removable side panel to access filters and heat recovery in the event of scheduled maintenance
- Low consumption, low noise, high efficiency direct driven fans

- Supply section complete with DX coil (R410A) fitted with solenoid control valve, freon filter, contact temperature sensors on liquid and gas line, NTC sensors upstream and downstream of air flow
- Built-in electric box equipped with PCB to control internal fan speed and to interconnect outdoor / indoor units
- Duct connection by circular plastic collars

### Balanced ventilation



### Interconnection to outdoor / indoor units



INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB, Cooling outdoor 35 °C DB / 24 °C WB, Heating indoor 20 °C DB, Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites [www.aircon.panasonic.eu](http://www.aircon.panasonic.eu) or [www.plc.panasonic.eu](http://www.plc.panasonic.eu).



## Air curtain with DX coil, connected to VRF systems

**Comfort:** Easy redirection of air flow by means of manual deflector.

**Ease of use:** Speed selector (high and low) on the unit itself.

**Easy installation and maintenance:** Easy installation / Compact dimensions improve installation and positioning / Easy cleaning of grid without opening of the unit.



Outdoor unit capacity			4 HP		5 HP		8 HP	
Air outlet height 2,7 m			PAW-10EAIRC-LS	PAW-15EAIRC-LS	PAW-20EAIRC-LS	PAW-25EAIRC-LS		
Cooling capacity <sup>1)</sup>	Max	kW	6,1	9,7	13,0	17,0		
Heating capacity <sup>2)</sup>	Max	kW	7,9	12,0	15,0	19,0		
Air flow	High	m <sup>3</sup> /h	1800	2700	3600	4500		
Heat Exchanger	Volume	L	1,67	2,85	3,94	5,03		
Electric consumption fan	230 V / 50 Hz	kW	0,30	0,50	0,60	0,80		
Current	230 V / 50 Hz	A	2,10	3,10	4,10	5,10		
Sound pressure <sup>3)</sup>	Max	dB(A)	65	66	67	69		
Air outlet height 3,0 m			PAW-10EAIRC-HS	PAW-15EAIRC-HS	PAW-20EAIRC-HS	PAW-25EAIRC-HS		
Cooling capacity <sup>1)</sup>	Max	kW	9,1	13,0	19,5	23,7		
Heating capacity <sup>2)</sup>	Max	kW	11,8	15,8	23,6	27,6		
Air flow	High	m <sup>3</sup> /h	2700	3600	5400	6300		
Heat Exchanger	Volume	L	1,67	2,85	3,94	5,12		
Electric consumption fan	230 V / 50 Hz	kW	0,75	1,00	1,50	1,75		
Current	230 V / 50 Hz	A	4,10	5,50	8,20	9,60		
Sound pressure <sup>3)</sup>	Max	dB(A)	66	67	68	68		
Common data								
Dimension <sup>4)</sup>	H x W x D	mm	260 (+140) x 1000 x 460	260 (+140) x 1500 x 460	260 (+140) x 2000 x 460	260 (+140) x 2500 x 460		
Net weight	Air outlet height 2,7 m	kg	50	65	80	95		
	Air outlet height 3,0 m	kg	55	65	85	110		
Fan type			EC	EC	EC	EC		
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52) / 5/8(15,88)	3/8(9,52) / 3/4 (19,05)	3/8(9,52) / 7/8 (22,22)	3/8(9,52) / 7/8 (22,22)		
Door width		m	1,0	1,5	2,0	2,5		
Refrigerant			R32 / R410A	R32 / R410A	R32 / R410A	R32 / R410A		

LS / VRF outdoor combination			
Operation until	40 °C	35 °C	30 °C
PAW-1EAIRC-LS	U-4	U-4	U-4
PAW-15EAIRC-LS	U-6	U-5	U-4
PAW-20EAIRC-LS	U-8	U-6	U-4
PAW-25EAIRC-LS	U-8	U-8	U-5

HS / VRF outdoor combination			
Operation until	40 °C	35 °C	30 °C
PAW-10EAIRC-HS	U-6	U-5	U-4
PAW-15EAIRC-HS	U-8	U-6	U-4
PAW-20EAIRC-HS	U-8	U-8	U-8
PAW-25EAIRC-HS	U-12	U-10	U-8

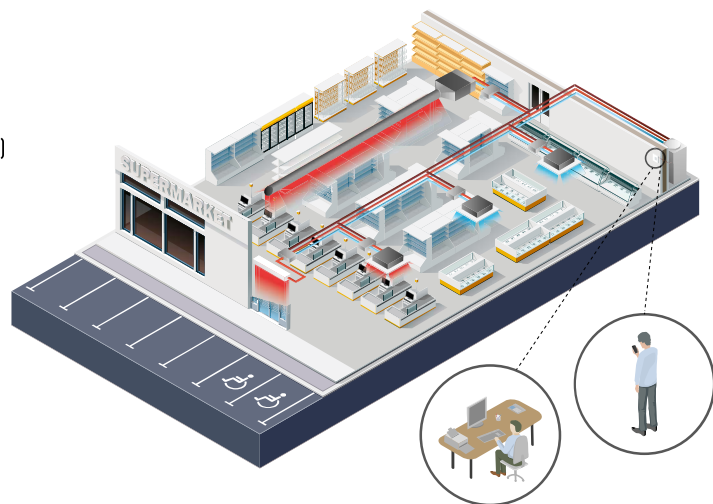
1) Cooling capacity DX coil, air temperature in / out +27 / +18 °C, R32 and R410. 2) Heating capacity condenser, air temperature in / out +20 / +33 °C, R32 and R410. In the case of lower outdoor temperatures, an outdoor model with higher capacity may be necessary. 3) Measured in distance up to 5,0 m, direction factor 2, absorbing surfaces 200 m<sup>2</sup>, Min / Max air flow. 4) 140 mm is the height of an electrical box if it is installed on the top. \* Also compatible with ECO G Series (GE3 and GF3) and Hybrid Serie.

## Technical focus

- Compatible with R32 and R410A refrigerant
- Save up to 40% energy costs by use of the integrated EC fan technology (higher efficiency than conventional AC fan, soft start and longer motor duration)
- 4 length of air curtain LS and HS are available 1,0, 1,5, 2,0 and 2,5 m
- Installation height up to 3,0 m
- Outlet grilles can be adjusted in five positions, to suite different indoor and installation requirements
- Control with Panasonic remote control systems (optional)
- Direct integration to BMS via optional Panasonic interfaces
- Drip tray included in all DX air curtains
- Drain pump included

## Internet control

An app added to your tablet or smartphone or via the Internet allows you to control and manage the system remotely. There is also the option to integrate into existing BMS systems by using other Panasonic interfaces.



### Ceiling mounted air-e nanoe X Generator

- nanoe™ X technology  
(Generator Mark 1: 4,8 trillion hydroxyl radicals/sec)
- Silent operation. Whisper quiet at 25,5 dB(A)\*
- Low power consumption 4 W
- Easy installation
- Compact and modern design

air-e™



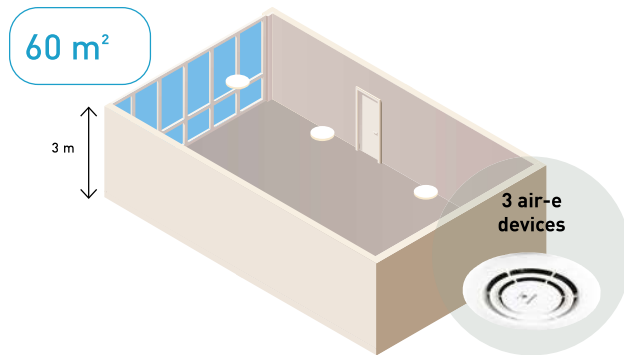
\* 230 V.

Model	FV-15CSD1G				
Power supply	Voltage	V	220	230	240
	Frequency	Hz	50	50	50
Air flow		m³/h	15	16	17
		CFM	8,8	9,4	10,0
Consumption		W	4	4	4
Sound pressure		dB(A)	23,5	25,5	27,0
Net weight		kg		1,1	

\* The value of air volume, power consumption and noise are specified at static pressure 0 Pa. The value of air volume is the mean value and a tolerance of +-10% is allowed. The value of noise level is a weighted average sound pressure level, the mean value is measured by Panasonic. A tolerance of +3 dB/-7 dB is allowed. The noise is measure at 1 m apart from the left, the front and below of the tested product. Conditions of generating nanoe™ X: room temperature: about 5 °C ~ 40 °C (dew point temperature more than 2 °C), relative humidity: about 30% ~ 85%. nanoe™ X is generated using the air in the room, and its amount is subject to the temperature and humidity in the air.

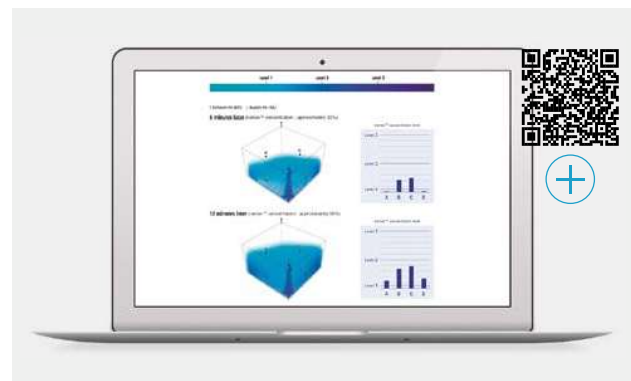
### One device is suitable for around 20 m² (with a ceiling height 3 m)

Ex. 3 air-e devices are required for the room size 60 m².

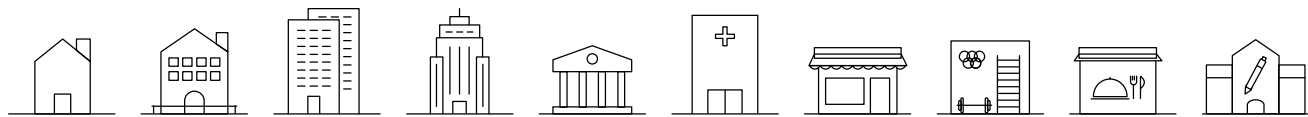


### Concentration simulator is ready

See how nanoe™ X fills space.



The air-e is a stand alone device which is an easy and simple choice to improve indoor air quality. It can be easily installed to various commercial projects including refurbishments.



### The tested effects of nanoe™ X

#### Bacteria and viruses.

SARS-CoV-2: 99,9% % inhibited <sup>1)</sup>

Influenza virus H1N1 subtype: 99,9 % inhibited <sup>2)</sup>

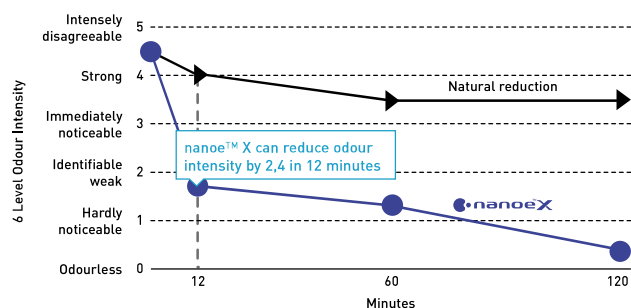
#### Odour.

nanoe X Generator can reduce cigarette smoke odour intensity by 2,4 levels in 12 minutes.

- 1) Novel coronavirus [SARS-CoV-2] > [Test organization] Texcell (France) [Test subject] Adhered novel coronavirus [SARS-CoV-2] [Test volume] 45 L enclosed box [Test result] Inhibited 99,9% in 2 hours [Test report] 1140-01 A1.
- 2) Adhered virus [Influenza virus H1N1 subtype] > [Test organization] Kitasato Research Center for Environmental Science [Test subject] Influenza virus [H1N1 subtype] [Test volume] 1000 L enclosed box [Test result] Inhibited 99,9% in 2 hours [Test report] 21\_0084\_1.
- 3) Deodorisation effect for adhering odour [cigarette smoke] > [Test organization] Panasonic Product Analysis Center [Test subject] Adhered cigarette smoke odour [Test volume] Approx. 24 m³ laboratory [Test result] Odour intensity reduced 2,4 levels in 0,2 hours [Test report] 4AA33-160615-N04.

Performance of nanoe™ X might differ in real life environment and is only expected in the same room as where the unit is placed. The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not a medical device.

Deodorisation effect for adhering odour (cigarette smoke) <sup>3)</sup>.



For further details and validation data, please refer to the following website.



## Fan coils units

A large range of fan coil units dedicated to energy savings, comfort, flexibility and quality.

+ MORE FAN COIL OPTIONS IN CHILLERS SECTION



### Energy savings and comfort

#### Low consumption solutions.

- High efficiency fan motor
- High level of energy performance

#### Silence.

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

### Flexibility and quality

#### Many factory-mounted options.

- Control
- Valve
- Air diffusion
- Condensate drain pump ...

#### Products fully customisable to satisfy your requirements.

- Choice of service side for hydraulic and electrical connections
- Version with or without cabinet ...

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

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



PAW-FC-RC1

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



PAW-FC-903AC



PAW-FC-907AC

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



PAW-FC-903EC

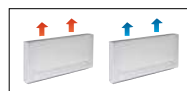


PAW-FC-907EC

## Smart fan coils



Built-in advanced thermostat.



			PAW-AAIR-200-2	PAW-AAIR-700-2	PAW-AAIR-900-2	PAW-AAIR-1100-2
Total cooling capacity	Lo/Med/Hi	kW	0,3/0,5/0,6	0,6/0,9/1,5	0,8/1,6/2,1	0,9/1,8/2,5
Sensible capacity	Lo/Med/Hi	kW	0,2/0,4/0,6	0,5/0,9/1,3	0,7/1,3/1,9	0,9/1,6/2,3
Water flow	Lo/Med/Hi	kg/h	51,1/89,4/106,3	96,0/155,2/251,1	140,8/267,2/365,7	158,1/300,3/423,6
Water pressure drop	Lo/Med/Hi	kPa	3,3/5,7/6,1	1,1/2,1/4,2	1,5/5,8/10,3	1,3/5,0/10,6
Inlet water temperature		°C	10	10	10	10
Outlet water temperature		°C	15	15	15	15
Inlet air temperature		°C	27	27	27	27
Outlet air temperature	Lo/Med/Hi	°C	12,8/13,2/14,9	14,6/14,8/14,0	15,8/14,6/14,4	18,1/15,2/14,7
Relative humidity of inlet air		%	47	47	47	47
Total heating capacity	Lo/Med/Hi	kW	0,2/0,4/0,5	0,4/0,8/1,2	0,6/1,2/1,6	0,8/1,4/2,1
Water flow	Lo/Med/Hi	kg/h	38,4/70,5/92,8	72,7/139,2/201,6	114,0/204,2/284,5	138,3/243,2/356,7
Water pressure drop	Lo/Med/Hi	kPa	1,0/2,3/3,0	0,5/1,5/3,1	1,0/3,3/6,6	1,1/3,1/7,3
Inlet water temperature		°C	35	35	35	35
Outlet water temperature		°C	30	30	30	30
Inlet air temperature		°C	19	19	19	19
Outlet air temperature	Lo/Med/Hi	°C	33,5/33,3/30,9	30,1/31,4/31,8	30,1/31,1/31,2	26,6/29,5/30,5
Air flow	Lo/Med/Hi	m <sup>3</sup> /min	0,9/1,9/2,7	2,6/4,2/5,3	4,1/6,1/7,7	6,2/7,6/9,6
Maximum input power	Lo/Med/Hi	W	7,0/9,0/13,0	14,0/18,0/22,0	16,0/20,0/24,0	18,0/22,0/26,5
Sound pressure	Lo/Med/Hi	dB(A)	24/33/39	25/34/40	25/34/42	26/35/43
Dimension (H x W x D)		mm	579 x 735 x 129	579 x 935 x 129	579 x 1135 x 129	579 x 1335 x 129
Net weight		kg	17	20	23	26
3 Ways valve included			Yes	Yes	Yes	Yes
Touch screen thermostat			Yes	Yes	Yes	Yes

\* Smart fan coils is produced by Innova.

## Accessories

PAW-AAIR-LEGS-1 Set of 2 legs to protect water pipes

## Accessories

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

## Stylish floor-standing fan coils with advanced controller

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

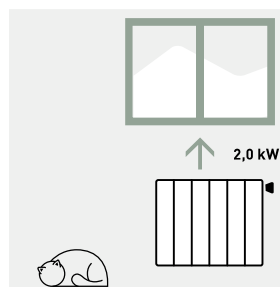
With a depth of just under 130 mm they are at the cutting edge of the market. Blending easily into the home, Smart fan coil's elegant design and product refinements are clear to see in every detail.

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

## Technical focus

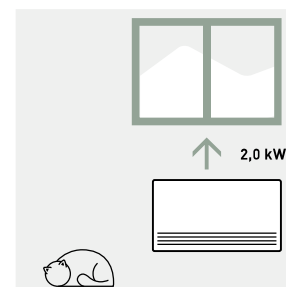
- 4 operation modes (auto, silent, night-time and maximum ventilation speed)
- Exclusive design
- Extremely compact (only 129 mm deep)
- Cooling and dehumidification functions possible (drain is needed)
- 3-way valve included (no overflow valve needed on the installation if more than 3 units installed)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

With standard cast radiators.



Water at 65 °C needed.

With Smart fan coil.



Water at 35 °C needed.

All temperature curves and capacity are available on [www.panasonicproclub.com](http://www.panasonicproclub.com)

PRO Club



## Fan coil comfort AC fan

Fan coil floor and ceiling units with cooling and heating.

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

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



Optional controller.  
WRC remote control.



Optional controller.  
SRC - mini BMS  
controller.



Optional controller.  
Electronic controller  
TControl POD glass.



Optional controller.  
Electronic controller  
TControl EASY 3S.



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



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

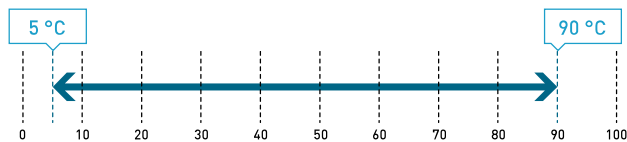


Optional controller.  
Advanced wired  
remote controller.  
PAW-FC-RC1

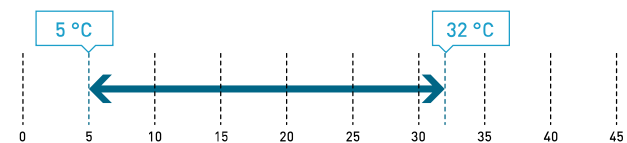
SEE PAGE 516 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

## Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



## The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 7 sizes
- 5-speed AC fan - standard factory set speeds: S1,S3,S5
- Air flow from 94 to 1064 m<sup>3</sup>/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)

## AC SELECT.

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





## Technical features

Fan coil comfort AC fan			P-FC10	P-FC20	P-FC30	P-FC40	P-FC50	P-FC60	P-FC70
			S1/S3/S5 <sup>1)</sup>	S1/S3/S5 <sup>1)</sup>	S1/S3/S5 <sup>1)</sup>	S1/S3/S5 <sup>1)</sup>	S1/S3/S5 <sup>1)</sup>	S1/S3/S5 <sup>1)</sup>	S1/S3/S5 <sup>1)</sup>
<b>2-pipes</b>									
Total cooling capacity <sup>2)</sup>	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 <sup>2)</sup>	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 <sup>2)</sup>	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 <sup>2)3)</sup>	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 <sup>4)</sup>	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 <sup>4)</sup>	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 <sup>3)4)</sup>	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	
<b>4-pipes</b>									
Total cooling capacity <sup>2)</sup>	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 <sup>2)</sup>	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 <sup>2)</sup>	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 <sup>2)3)</sup>	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 <sup>5)</sup>	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 <sup>5)</sup>	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 <sup>3)5)</sup>	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	
<b>Sound levels</b>									
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 <sup>6)</sup>	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 <sup>6)</sup>	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
<b>Ventilation</b>									
Number of fans			1	1	1	2	2	2	2
Air flow	2-pipes	m <sup>3</sup> /h	94/190/283	68/104/196	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064
	4-pipes	m <sup>3</sup> /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
<b>Electrical data</b>									
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	
<b>Water connections</b>									
Connection type			Gas female threaded	Gas female threaded	Gas female threaded	Gas female threaded	Gas female threaded	Gas female threaded	Gas female 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
<b>Dimension</b>									
With cabinet - without feet	LxWxH	mm	766 x 225 x 477	766 x 225 x 477	951 x 225 x 477	1136 x 225 x 477	1321 x 225 x 477	1506 x 225 x 477	1319 x 225 x 575
Without cabinet	LxWxH	mm	570 x 220 x 430	570 x 220 x 430	753 x 220 x 430	938 x 220 x 430	1122 x 220 x 430	1307 x 220 x 430	1121 x 220 x 530
<b>Weight</b>									
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).





## Fan coil wall AC fan

Fan coil wall-mounted units with cooling and heating.

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

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



Optional controller.  
WRC remote control.



Optional controller.  
SRC - mini BMS  
controller.



Optional controller.  
Electronic controller  
TControl POD glass.



Optional controller.  
Electronic controller  
TControl EASY 3S.



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



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

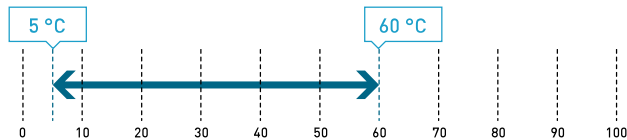


Optional controller.  
Advanced wired  
remote controller.  
PAW-FC-RC1

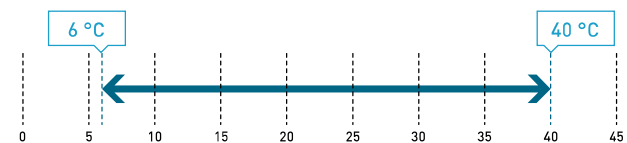
+ SEE PAGE 516 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

## Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



## The range at a glance

- Versions (2-pipes): infrared without valve (IR SV), infrared with valve (IR AV) and terminal block without valve (TB SV)
- 4 sizes
- 3-speed AC fan
- Air flow from 280 to 850 m<sup>3</sup>/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

## 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	P-FW09	P-FW18	P-FW22
			S2/S3/S4 <sup>1)</sup>	S2/S3/S4 <sup>1)</sup>	S2/S3/S4 <sup>1)</sup>	S2/S3/S4 <sup>1)</sup>
<b>2-pipes, without valve</b>						
Total cooling capacity <sup>2)</sup>	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 <sup>2)</sup>	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 <sup>2)</sup>	l/h		172/231/291	270/308/431	479/525/620	505/565/687
Water pressure drop <sup>2)</sup>	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 <sup>3)</sup>	W		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 <sup>3)</sup>	l/h		245/279/296	289/331/482	515/568/706	548/625/775
Water pressure drop <sup>3)</sup>	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
<b>Sound levels</b>						
Sound power	dB(A)		45/49/51	40/43/52	47/50/54	50/55/60
Sound pressure <sup>4)</sup>	dB(A)		30/33/35	32/36/40	39/41/43	39/43/48
NR <sup>4)</sup>	dB(A)		32/36/38	34/39/44	40/43/46	43/46/50
<b>Ventilation</b>						
Number of fans			1	1	1	1
Air flow	m <sup>3</sup> /h		282/321/360	367/413/551	532/592/680	617/709/850
Filter			G1	G1	G1	G1
<b>Electrical data</b>						
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
<b>Water connections</b>						
Connection type			Gas female threaded	Gas female threaded	Gas female threaded	Gas female threaded
Connections	Inch		1/2	1/2	1/2	1/2
<b>Dimension and weight</b>						
Dimension	LxWxH	mm	845 x 180 x 275	845 x 180 x 275	940 x 200 x 298	940 x 200 x 298
Weight		kg	11	11	13	13
Fan coil wall AC fan			P-FW09		P-FW22	
			S2/S3/S4 <sup>1)</sup>		S2/S3/S4 <sup>1)</sup>	
<b>2-pipes, with valve</b>						
Total cooling capacity <sup>2)</sup>	kW		1,11/1,25/1,40		2,32/2,68/3,10	
Sensible capacity <sup>2)</sup>	kW		0,91/1,08/1,25		1,68/1,98/2,28	
Water flow <sup>2)</sup>	l/h		191/215/241		400/460/532	
Water pressure drop <sup>2)</sup>	kPa		14,9/16,8/18,8		42,4/50,8/61,5	
Heating capacity <sup>3)</sup>	W		1,29/1,61/2,00		2,51/2,75/3,30	
Water flow <sup>3)</sup>	l/h		222/277/344		432/474/568	
Water pressure drop <sup>3)</sup>	kPa		16,1/21,3/28,2		45,8/48,6/54,1	
<b>Sound levels</b>						
Sound power	dB(A)		44/50/54		53/57/60	
Sound pressure <sup>4)</sup>	dB(A)		32/36/40		39/43/48	
NR <sup>4)</sup>	dB(A)		27/31/37		34/37/41	
<b>Ventilation</b>						
Number of fans			1		1	
Air flow	m <sup>3</sup> /h		150/250/400		290/400/600	
Filter			G1		G1	
<b>Electrical data</b>						
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	
<b>Water connections</b>						
Connection type			Gas female threaded		Gas female threaded	
Connections	Inch		1/2		1/2	
<b>Dimension and weight</b>						
Dimension	LxWxH	mm	845 x 180 x 275		940 x 200 x 298	
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 compliant following COMMISSION REGULATION (EU) 2016/2281.