

Panasonic



VRF RANGE
2025 / 2026

PANASONIC TOTAL SOLUTION

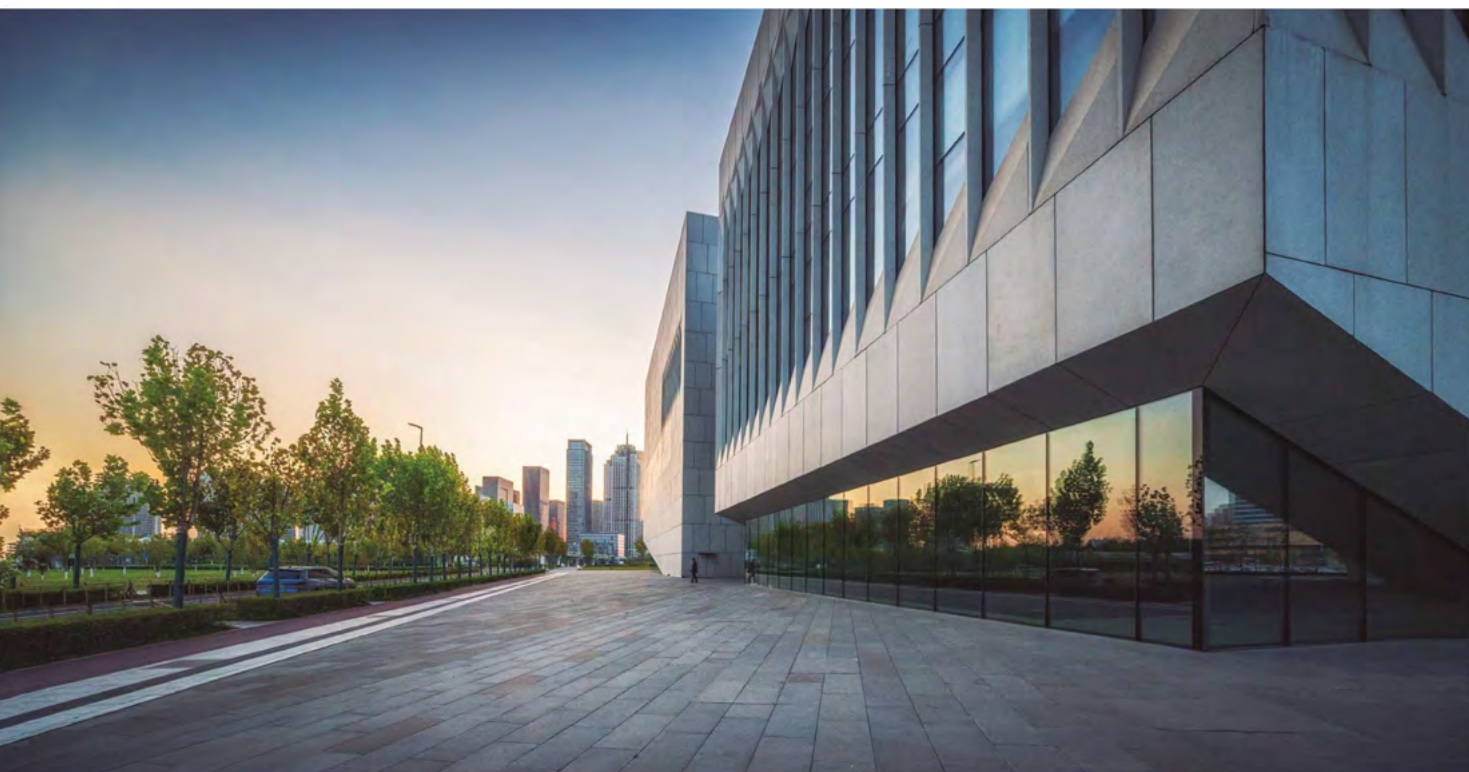


heating & cooling solutions

PanClima
Air Conditioning & Heating Systems

VRF highlighted features

Panasonic provides an extensive range of solutions for medium and large sized buildings, combining the best options to satisfy all needs and site restrictions.



ECOi. Electrical VRF					ECO G. Gas Powered VRF	
R32	R410A	R32	R410A	R410A	R410A	R410A
Mini ECOi LZ2	Mini ECOi LE2/LE1	ECOi EX MZ1	ECOi EX ME2	ECOi EX MF3	ECO G GE3	ECO G GF3
						
Capacity range						
4 - 10 HP	4 - 10 HP	8 - 48 HP	8 - 80 HP	8 - 48 HP	16 - 60 HP	16 - 25 HP
Extreme temperatures operation						
-20 °C (heating) / 52 °C (cooling)	-20 °C (heating) / 46 °C (cooling)	-25 °C (heating) / 52 °C (cooling)	-25 °C (heating) / 52 °C (cooling)	-20 °C (heating) / 52 °C (cooling)	-21 °C (heating) / 43 °C (cooling)	-21 °C (heating) / 43 °C (cooling)
Maximum number of connectable indoor units						
16 ¹⁾	15	64	64	52	64	24
Indoor to outdoor connection ratio						
50 ~ 150%	50 ~ 130%	50 ~ 200%	50 ~ 200%	50 ~ 150%	50 ~ 200% ²⁾	50 ~ 200%
Indoor units						
All (check restrictions)						
Controls						
All						
Other ranges integration						
PACi range full control integration + Domestic range integration by accessory						

1) For 6 HP model. 2) 50 ~ 200% only when one outdoor unit is installed. In other cases 50 ~ 130%.

Panasonic ECOi is Eurovent certified. Panasonic's VRF systems - ECOi range is now certified by Eurovent*.

The Eurovent certification verifies the performance ratings of heating and cooling systems following European standards. Those data provides products efficiency with full transparency for the benefit of customers and professionals.



* Reference website: <https://www.eurovent-certification.com/en>.

Energy saving

R32

REFRIGERANT

Refrigerant R32.

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



Inverter Plus system.

Inverter Plus system classification highlights Panasonic's highest performing systems.



Panasonic R2 rotary compressor.

Designed to withstand extreme conditions, it delivers high performance and efficiency.



All Inverter compressors.

Multiple large-capacity all Inverter compressors (more than 14 HP). Two independently controlled Inverter compressors achieve high efficiency. Redesigned components in the body provide performance improvement especially in the rated cooling condition and EER performance.



High COP.

High efficiency models performs higher COP than standard units and standard combinations.

GAS

POWERED

ECO G

Gas powered.

ECO G technology offers the best in energy efficiency. ECO G gas VRF is specially designed for buildings where the electricity is restricted or CO₂ emissions must be reduced.



ECONAVI

Econavi.

Intelligent human activity sensor and sunlight sensor technologies that can detect and reduces the waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

ErP



ERP 2018.

Compliant following COMMISSION REGULATION (EU) No2016/2281.

High performance and indoor air quality



Bluefin.

Panasonic has extended the life of its condensers with an original anti-rust coating.

-10 °C

COOLING MODE

Down to -10 °C in cooling mode.

The air conditioner works in cooling mode when the outdoor temperature of -10 °C.

-25 °C

HEATING MODE

Down to -25 °C in heating mode.

The air conditioner works in heat pump mode when the outdoor temperature is as low as -25 °C.

52 °C

COOLING MODE

Cooling with outdoor temperature up to 52 °C.

The ECOi EX system works in cooling mode with performance data at outdoor temperature up to 52 °C.



Automatic restart.

Automatic restart function for power failure. Even when power failure occurs, preset programmed operation can be reactivated once power is resumed.



R22 R410A

RENEWAL

R22 renewal.

The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing high efficiency R410A systems.



nanoe™ X

nanoe™ X.

Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise.



SELF-DIAGNOSING

Self-diagnosing function.

By using electronic control valves past warnings are stored. This makes it easier to diagnose malfunctions, reducing service labour and therefore costs.



AUTOMATIC FAN

Automatic fan operation.

Convenient microprocessor control automatically adjusts fan speed to High, Medium or Low, corresponding to room sensor and maintains comfortable air flow throughout the room.



HUMIDITY CONTROL DRY

Mild Dry.

By intermittent control of compressor and indoor unit's fan, "Mild Dry" gives you comfort. It realizes efficient dehumidification according to room temperature.



AUTO-FLAP CONTROL

Comfortable auto-flap control.

When the unit is first turned on, flap position is automatically adjusted in accordance with the cooling or heating operation.



AIRSWEEP

Air Sweep.

The air sweep function moves the flap up and down in the air outlet, directing air in a "sweeping" motion around the room and providing comfort in every corner.



BUILT-IN DRAINPUMP

Built-in drain pump.

Maximum head 50 cm (or 75 cm for U type) from the bottom of the unit.



FILTER INCLUDED

Filter included.

Hide-away with filter included.



5 YEARS COMPRESSOR WARRANTY

5 Years compressor warranty.

We guarantee the outdoor unit compressors in the entire range for five years.

High connectivity



INTEGRATION TOS-LINK

Domestic integration to S-Link - CZ-CAPRA1.

Can connect RAC range to S-Link. Full control is now possible.



INTERNET CONTROL

Internet control.

A next generation system providing user-friendly control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone or tablet via Wi-Fi.



BMS CONNECTIVITY

BMS connectivity.

The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic air conditioner to your home or Building Management System.



PANASONIC AC SMART CLOUD

Panasonic AC Smart Cloud.

The AC Smart Cloud from Panasonic allows you to have complete control of all your installations. In a simple click, receive status updates from all your units in real-time, preventing breakdowns and optimising costs.

Bringing nature's balance indoors



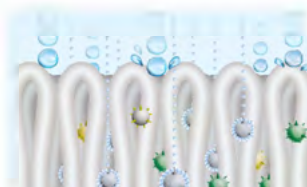
nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be, whether at home, work, or visiting hotels, shops and restaurants etc.



What is unique about nanoe™ X?

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.



2 | Contained in tiny water particles, nanoe™ X has a long lifespan, which is about 600 seconds, to spread easily around the room.

Huge quantity.



3 | nanoe X Generator Mark 3 produces 48 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.

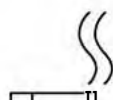


The image shows nanoe X Generator Mark 3.

4 | No service and maintenance required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titanium.

7 effects of nanoe™ X – Panasonic unique technology

Deodorises



Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances



Skin and hair

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

First nanoe™ device was developed by Panasonic in 2003

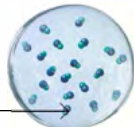
Generator: nanoe™

2003

480 billion hydroxyl radicals/sec

Ion particle structure

Hydroxyl radicals

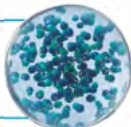


Generator: nanoe™ X

Mark 1 - 2016

4,8 trillion hydroxyl radicals/sec

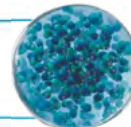
10x times



Mark 2 - 2019

9,6 trillion hydroxyl radicals/sec

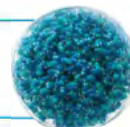
20x times



Mark 3 - 2022

48 trillion hydroxyl radicals/sec

100x times



Panasonic ECOi is Eurovent certified. Panasonic's VRF systems - ECOi range is now certified by Eurovent*.

The Eurovent certification verifies the performance ratings of heating and cooling systems following European standards. Those data provides products efficiency with full transparency for the benefit of customers and professionals.



* Reference website: <https://www.eurovent-certification.com/en>.

Energy saving

R32

REFRIGERANT

Refrigerant R32.

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



Inverter Plus system.

Inverter Plus system classification highlights Panasonic's highest performing systems.



Panasonic R2 rotary compressor.

Designed to withstand extreme conditions, it delivers high performance and efficiency.



All Inverter compressors.

Multiple large-capacity all Inverter compressors (more than 14 HP). Two independently controlled Inverter compressors achieve high efficiency. Redesigned components in the body provide performance improvement especially in the rated cooling condition and EER performance.



High COP.

High efficiency models performs higher COP than standard units and standard combinations.

GAS

POWERED

ECO G

Gas powered.

ECO G technology offers the best in energy efficiency. ECO G gas VRF is specially designed for buildings where the electricity is restricted or CO₂ emissions must be reduced.



ECONAVI

Econavi.

Intelligent human activity sensor and sunlight sensor technologies that can detect and reduces the waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.



ERP 2018.

Compliant following COMMISSION REGULATION (EU) No2016/2281.

High performance and indoor air quality



Bluefin.

Panasonic has extended the life of its condensers with an original anti-rust coating.

-10 °C

COOLING MODE

Down to -10 °C in cooling mode.

The air conditioner works in cooling mode when the outdoor temperature of -10 °C.

-25 °C

HEATING MODE

Down to -25 °C in heating mode.

The air conditioner works in heat pump mode when the outdoor temperature is as low as -25 °C.

52 °C

COOLING MODE

Cooling with outdoor temperature up to 52 °C.

The ECOi EX system works in cooling mode with performance data at outdoor temperature up to 52 °C.



Automatic restart.

Automatic restart function for power failure. Even when power failure occurs, preset programmed operation can be reactivated once power is resumed.



R22 RENEWAL

R22 renewal.

The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing high efficiency R410A systems.



nanoe™ X

nanoe™ X.

Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise.



SELF-DIAGNOSING

Self-diagnosing function.

By using electronic control valves past warnings are stored. This makes it easier to diagnose malfunctions, reducing service labour and therefore costs.



AUTOMATIC FAN

Automatic fan operation.

Convenient microprocessor control automatically adjusts fan speed to High, Medium or Low, corresponding to room sensor and maintains comfortable air flow throughout the room.



HUMIDITY CONTROL DRY

Mild Dry.

By intermittent control of compressor and indoor unit's fan, "Mild Dry" gives you comfort. It realizes efficient dehumidification according to room temperature.



AUTO-FLAP CONTROL

Comfortable auto-flap control.

When the unit is first turned on, flap position is automatically adjusted in accordance with the cooling or heating operation.



AIRSWEEP

Air Sweep.

The air sweep function moves the flap up and down in the air outlet, directing air in a "sweeping" motion around the room and providing comfort in every corner.



BUILT-IN DRAINPUMP

Built-in drain pump.

Maximum head 50 cm (or 75 cm for U type) from the bottom of the unit.



FILTER INCLUDED

Filter included.

Hide-away with filter included.



5 YEARS COMPRESSOR WARRANTY

5 Years compressor warranty.

We guarantee the outdoor unit compressors in the entire range for five years.

High connectivity



INTEGRATION TO S-LINK

Domestic integration to S-Link - CZ-CAPRA1.

Can connect RAC range to S-Link. Full control is now possible.



INTERNET CONTROL

Internet control.

A next generation system providing user-friendly control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone or tablet via Wi-Fi.



BMS CONNECTIVITY

BMS connectivity.

The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic air conditioner to your home or Building Management System.



PANASONIC AC SMART CLOUD

Panasonic AC Smart Cloud.

The AC Smart Cloud from Panasonic allows you to have complete control of all your installations. In a simple click, receive status updates from all your units in real-time, preventing breakdowns and optimising costs.

VRF outdoor units range

Outdoor units	4 HP	5 HP	6 HP	8 HP	10 HP	12 HP
R32 Mini ECOi LZ2 Series · R32	 U-4LZ2E5 / U-4LZ2E8	 U-5LZ2E5 / U-5LZ2E8	 U-6LZ2E5 / U-6LZ2E8	 U-8LZ2E8	 U-10LZ2E8	
Mini ECOi LE2 / LE1 Series · R410A	 U-4LE2E5 / U-4LE2E8	 U-5LE2E5 / U-5LE2E8	 U-6LE2E5 / U-6LE2E8	 U-8LE1E8	 U-10LE1E8	
R32 NEW 2-Pipe ECOi EX MZ1 Series · R32				 U-8MZ1E8	 U-10MZ1E8	 U-12MZ1E8
2-Pipe ECOi EX ME2 Series · R410A				 U-8ME2E8	 U-10ME2E8	 U-12ME2E8
3-Pipe ECOi EX MF3 Series · R410A				 U-8MF3E8	 U-10MF3E8	 U-12MF3E8
2-Pipe ECO G GE3 Series · R410A						
3-Pipe ECO G GF3 Series · R410A						
GHP/EHP Hybrid System · R410A						

14 HP

16 HP

18 HP

20 HP

25 HP

30 HP



U-14ME2E8



U-16ME2E8



U-18ME2E8



U-20ME2E8



U-14MF3E8



U-16MF3E8



U-16GE3E5



U-20GE3E5



U-25GE3E5



U-30GE3E5



U-16GF3E5



U-20GF3E5



U-25GF3E5



U-20GES3E5 / U-10MES2E8

Best efficiency ECOi Series from Panasonic

The ECOi Series is designed for energy savings, easy installation, and high efficiency. Always continuing to evolve, Panasonic uses advanced technologies to meet the requirements of diverse situations and contribute to the creation of comfortable living spaces.



Mini ECOi LZ2 Series · R32.

From 4 to 10 HP.

The Mini ECOi LZ2 Series utilizes environmentally friendly R32 refrigerant, reducing the total amount of refrigerant by 20% and more, resulting in lower GWP, reduced by 75%*.

* As a result of applying R32 while at the same time reducing the total refrigerant amount.



R32
REFRIGERANT

New 2-Pipe ECOi EX MZ1 Series · R32.

From 8 to 48 HP.

The next generation in energy efficiency and versatility for commercial applications.



R32
REFRIGERANT

Mini ECOi LE Series · R410A.

From 4 to 10 HP.

The 2-Pipe heat pump small VRF system specifically designed for the European market.



2-Pipe ECOi EX ME2 Series · R410A.

From 8 to 80 HP.

The VRF system delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible.



ECOi EX

3-Pipe ECOi EX MF3 Series · R410A.

From 8 to 48 HP.

The VRF system that offers high-efficiency and performance for simultaneous heating and cooling.



ECOi EX

ECOi R32 - Extended decarbonised solution. Minimize environmental impact.



Refrigerant amount
-57%²⁾



The ECOi Series with R32 refrigerant has been expanded to minimise the environmental impact of VRF systems for the decarbonised buildings. Advanced R32 technology and optimised design make it a more sustainable alternative to R410A. With lower GWP and superior efficiency, it ensures sustainability throughout its lifetime.

1) GWP of R32 refrigerant is 675, while the GWP of R410A is 2088. 2) Panasonic's internal research. Refrigerant amount reduction compared to the R410A equivalent system, 12 HP model with 30 m piping installation.



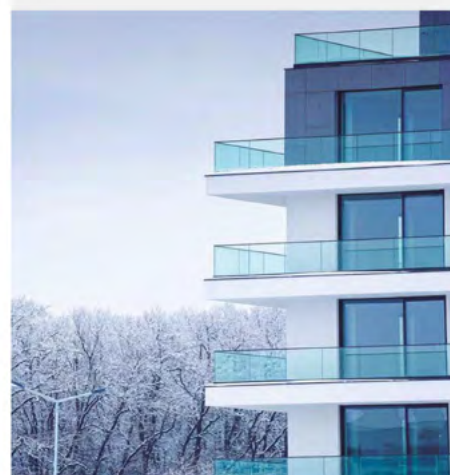
Sustainable yet highly efficient.

Benefit from a substantial 68% ¹⁾ reduction in Global Warming Potential (GWP) and up to 82% ³⁾ total CO₂ Eq reduction thanks to decreased refrigerant volume, all while boosting overall efficiency.



Reliability - R32 standard-compliant.

Panasonic offers safety measures such as a leak detector, alarm, and safety valve kit, compliant with the latest standards. These are designed to meet requirements based on R32 refrigerant density under specific project conditions.



Design flexibility.

Maximum piping length of up to 1000 m.
Extreme operating range, with heating down to -25 °C.
Wide selection of indoor units, including premium nanoe™ X for improved indoor air quality.
Seamless connectivity with a variety of standalone, central, cloud and BMS integration options.

1) GWP of R32 refrigerant is 675, while the GWP of R410A is 2088. 2) Panasonic's internal research. Refrigerant amount reduction compared to the R410A equivalent system, 12 HP model with 30 m piping installation. 3) Total CO₂ Eq= GWP x charge. Panasonic's internal research conducted under consistent system conditions.

High performance of Panasonic's ECOi Series is verified by Eurovent now!



Mini ECOi LZ2 Series R32

Outstanding efficiency in a compact body and continuous operation even at extreme ambient temperatures. VRF with outstanding energy-saving performance and superior SEER and SCOP.



SEER SCOP
8,50 ¹⁾ 5,05 ¹⁾

Extraordinary savings.



Reliable quality - R32 standard-compliant ²⁾.



Panasonic DNA compressors.



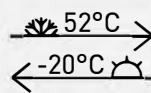
Low height 996 mm.

HIGH ESP

High external static pressure 35 Pa.



Quiet mode operation with low capacity drop.



Continuous operation at extreme ambient temperatures.

150% ↑

Increased indoor / outdoor capacity ratio up to 150%.

¹⁾ for 4 HP model. ²⁾ Panasonic's R32 safety measures comply with IEC 60335-2-40 (ed. 7.0) and EN 378 (ISO 5149).

Mini ECOi LZ2 provides the optimal performance in any climatic condition.

Extended design operation conditions

LZ2 mini VRF is extremely reliable even under the most difficult conditions. The units can operate in cooling mode at extreme temperatures, 52 °C in cooling and -20 °C in heating mode.

Cooling operation conditions.

-15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55

-20 °C

Heating operation conditions.

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

Compatible with a large range of indoor units and controls

An expansion of Panasonic VRF line up, the Mini ECOi R32 is compatible with a large range of indoor units, either supporting Panasonic's optional R32 refrigerant leak detector alarm or having built-in detectors provide a great flexibility for all types of installation, and can utilize all Panasonic's scalable control and monitoring solutions.

Connects R32 refrigerant leak detector - CZ-CGLSC2



Built-in R32 sensors



Panasonic R32 refrigerant leak detector/alarm (optional)

The optional R32 refrigerant leak detector (CZ-CGLSC2) is available for compatible indoor units, allowing customers to determine if the detector is required for safety compliance or if the indoor unit can be installed without it. This sensor includes an integrated alarm buzzer and can connect to a central alarm system. It links to the indoor unit's remote control terminals and is compatible with any VRF remote controllers, wired or wireless.

Connects Panasonic R32 refrigerant leak detector. CZ-CGLSC2

The alarm triggered by the Panasonic R32 refrigerant leak detector will also be transmitted and displayed on any connected centralised controller.

* Only one remote controller can be connected with the Panasonic R32 refrigerant leak detector.

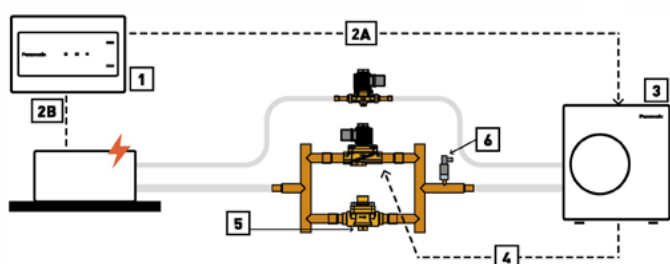


Non-voltage contact external output, maximum allowable voltage: DC 24 V (for central monitoring, etc.).

R32 Pump Down solution

R32 Pump Down solution offers the assurance of additional safety protection, whilst expanding the potential installation cases, allowing for installation within smaller rooms.

Suitable for the Mini ECOi LZ2 range up to 10 HP, compatible indoor units connected to CZ-CGLSC2 or integrated Panasonic R32 refrigerant leak detector.



Operation steps: 1 | A leak is detected by the leak detection sensor. 2A | Leak alarm signal is sent to the outdoor unit. 2B | Indoor unit fan activated and runs at maximum speed. 3 | Pump Down procedure is activated. 4 | Solenoid valves are closed preventing refrigerant returning to indoor units. 5 | Outdoor unit is operating in Pump Down mode and check valve only allows flow to the outdoor unit. 6 | Low pressure switch threshold is reached. Error signal isolates the outdoor unit, preventing restart.

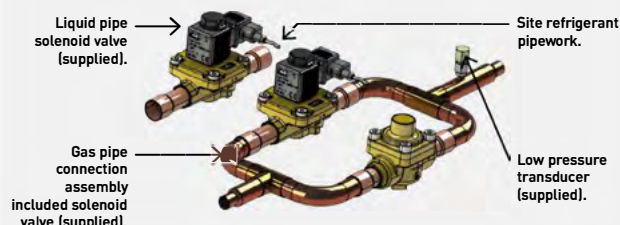
Technical focus

- Simplified design and installation
- Complies with IEC 60335-2-40 ed.6.0
- Recovers base charge within outdoor unit
- Expands potential installation cases
- IP rated connections for outdoor installation

Model reference	Description
PAW-PUD2WB-1	Basic Pump Down system (2 way) for one R32 Mini ECOi outdoor unit

Pump Down kit.

Indication of the items included within the Pump Down kit.



Mini ECOi LZ2 Series 4 to 6 HP · R32

Outstanding efficiency in a compact body and continuous operation even at extreme ambient temperatures.

- SEER levels up to 8,5 and SCOP levels up to 5,0 (for 4 HP model)
- Continuous operation at extreme ambient temperatures: -20 °C (heating) to 52 °C (cooling)
- Unique indoors with nanoe™ X, hydroxyl radicals contained in water

Low height
996 mm



HP			4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Outdoor unit			U-4LZ2E5	U-5LZ2E5	U-6LZ2E5	U-4LZ2E8	U-5LZ2E8	U-6LZ2E8
Power supply	Voltage	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Single phase	Single phase	Single phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity	kW		12,1	14,0	15,5	12,1	14,0	15,5
EER ¹⁾	W/W		4,53	4,12	3,88	4,53	4,12	3,88
Current	A		13,30 - 12,80 - 12,20	16,90 - 16,20 - 15,50	19,60 - 18,70 - 18,00	4,37 - 4,15 - 4,00	5,50 - 5,23 - 5,04	6,44 - 6,12 - 5,89
Input power	kW		2,67	3,40	4,00	2,67	3,40	4,00
Heating capacity	kW		12,5	16,0	16,5	12,5	16,0	16,5
COP ¹⁾	W/W		5,27	4,71	4,42	5,27	4,71	4,42
Current	A		12,00 - 11,40 - 11,00	16,90 - 16,20 - 15,50	18,50 - 17,70 - 17,00	3,91 - 3,71 - 3,58	5,50 - 5,22 - 5,03	6,02 - 5,72 - 5,51
Input power	kW		2,37	3,40	3,73	2,37	3,40	3,73
Starting current	A		1,0	1,0	1,0	1,0	1,0	1,0
Maximum current	A		19,6	23,7	26,5	7,2	9,2	9,9
Maximum input power	kW		3,92 - 4,10 - 4,28	4,76 - 4,98 - 5,19	5,41 - 5,66 - 5,90	4,40 - 4,63 - 4,80	5,69 - 5,99 - 6,22	6,15 - 6,47 - 6,72
Maximum number of connectable indoor units ²⁾			7(10)	8(12)	9(12)	7(10)	8(12)	9(12)
External static pressure	Pa		0 - 35	0 - 35	0 - 35	0 - 35	0 - 35	0 - 35
Air flow	m ³ /min		69	72	74	69	72	74
Sound pressure	Cool	dB(A)	52	53	54	52	53	54
	Cool (Silent1/2/3/4)	dB(A)	49/47/45/45	50/48/46/45	51/49/47/45	49/47/45/45	50/48/46/45	51/49/47/45
	Heat	dB(A)	54	56	56	54	56	56
Sound power	Cool / Heat	dB(A)	69/72	70/74	72/75	69/72	70/74	72/75
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight	kg		94	94	94	94	94	94
Piping diameter	Liquid	Inch (mm)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)
	Gas	Inch (mm)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)
Maximum piping length (total)	m		90(180)	90(180)	90(180)	90(180)	90(180)	90(180)
Elevation difference (in / out)	m		50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)
Refrigerant (R32)	kg		2,7	2,7	2,7	2,7	2,7	2,7
Maximum allowable indoor / outdoor capacity ratio ³⁾	%		50 - 150(130)	50 - 150(130)	50 - 150(130)	50 - 150(130)	50 - 150(130)	50 - 150(130)
Operating range	Cool Min - Max	°C	-10 - 52	-10 - 52	-10 - 52	-10 - 52	-10 - 52	-10 - 52
	Heat Min - Max	°C	-20 - 18	-20 - 18	-20 - 18	-20 - 18	-20 - 18	-20 - 18

ErP data ⁴⁾

SEER ⁵⁾	8,50	8,12	7,71	8,50	8,12	7,71
$\eta_{s,c}$	337,0%	321,8%	305,4%	337,0%	321,8%	305,4%
SCOP ⁵⁾	5,05	4,61	4,59	5,05	4,61	4,59
$\eta_{s,h}$	199,0%	181,4%	180,6%	199,0%	181,4%	180,6%

1) EER and COP calculation is based in accordance to EN 14511. 2) The number in parenthesis indicates maximum number of connectable indoor unit in case of 1,5 kW indoor units connection. 3) The number in parenthesis indicates maximum allowed indoor / outdoor capacity ratio in case of 1,5 kW indoor units connection. 4) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for U2 type 4 way 90x90 cassette indoor units. 5) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Minimum environmental impact

Panasonic has designed the LZ2 series in order to minimize the environmental impact of the system. Low GWP refrigerant R32 and highest efficiency levels ensure this through the total operational lifetime.

For the most challenging spaces

The Mini ECOi LZ2 R32 VRF system is the ideal solution to fit into any application thanks to its compact design and long piping lengths.

Technical focus

- Widest range of connectable units in R32 VRF
- Allowing wide range of installations with and without mitigation measures
- Flexible mitigation measures, with Panasonic R32 refrigerant leak detector / alarm to be installed only when required



INTERNET CONTROL: Optional.



Mini ECOi LZ2 Series 8 and 10 HP - R32

Introducing widest range of R32 Mini VRF.

- SEER levels up to 7,6 and SCOP levels up to 4,6 (for 8 HP model)
- Continuous operation at extreme ambient temperatures: -20 °C (heating) to 52 °C (cooling)
- Unique indoors with nanoe™ X, hydroxyl radicals contained in water

Industry 1st 8 HP
and 10 HP Mini VRF
units with R32



HP			8 HP	10 HP
Outdoor unit			U-8LZ2E8	U-10LZ2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Cooling capacity		kW	22,4	28,0
EER ¹⁾		W/W	3,84	3,47
Current		A	9,73 - 9,25 - 8,91	13,2 - 12,5 - 12,1
Input power		kW	5,83	8,07
Heating capacity		kW	25,0	28,0
COP ¹⁾		W/W	4,30	4,47
Current		A	9,81 - 9,32 - 8,98	10,5 - 9,93 - 9,57
Input power		kW	5,81	6,26
Starting current		A	1,0	1,0
Maximum current		A	13,7	19,5
Maximum input power		kW	8,21 - 8,64 - 8,96	11,9 - 12,6 - 13,0
Maximum number of connectable indoor units ²⁾			16	16
External static pressure		Pa	0 - 35	0 - 35
Air flow		m³/min	158	167
Sound pressure	Cool	dB(A)	59,0	60,0
	Cool (Silent 1/2/3/4)	dB(A)	56/54/52/50	57/55/53/50
Sound power	Cool	dB(A)	72	74
Dimension	H x W x D	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	125	126
Piping diameter	Liquid	Inch (mm)	3/8(9,52)	3/8(9,52)
	Gas	Inch (mm)	3/4(19,05)	7/8(22,22)
Maximum piping length (total)		m	100(300)	100(300)
Elevation difference (in / out)		m	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)
Refrigerant (R32)		kg	4,9	5,1
Maximum allowable indoor / outdoor capacity ratio ³⁾		%	50 - 150 (130)	50 - 150 (130)
Operating range	Cool Min ~ Max	°C	-10 - 52	-10 - 52
	Heat Min ~ Max	°C	-20 - 18	-20 - 18
ErP data ⁴⁾				
SEER ⁵⁾			7,56	7,08
η _{s,c}			299,4%	280,2%
SCOP ⁵⁾			4,59	4,60
η _{s,h}			180,6%	181,0%

1) EER and COP calculation is based in accordance to EN 14511. 2) The number in parenthesis indicates maximum number of connectable indoor unit in case of 1,5 kW indoor units connection. 3) The number in parenthesis indicates maximum allowed indoor / outdoor capacity ratio in case of 1,5 kW indoor units connection. 4) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for F2 type variable static pressure hide-away indoor units. 5) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Perfect fit for small to medium size projects

8 and 10 HP LZ2 Mini VRF units bring in the total benefits of a VRF system in a smaller application. You can enjoy advanced individual and central VRF control options including the revolutionary Panasonic AC Smart Cloud and AC Service Cloud.

Technical focus

- Widest range of connectable units in R32 VRF
- Allowing wide range of installations with and without refrigerant mitigation
- Flexible mitigation measures, with Panasonic R32 refrigerant leak detector / alarm to be installed only when required

For the most difficult conditions

The Mini ECOi LZ2 series are able to operate at the hardest conditions from -20 °C up to +52 °C providing continuous and efficient, heating and cooling for your space all year long.



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.ptc.panasonic.eu.



Mini ECOi LE Series R410A

Mini ECOi with extraordinary energy-saving performance and high external static pressure (35Pa).



SEER SCOP
7,85 ¹⁾ 4,87 ¹⁾

Extraordinary savings.



High Quality - Panasonic
twin rotary compressor.



No extra refrigerant needed
up to 50 m ²⁾.

HIGH
COP

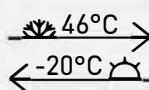
High COP mode option ²⁾.



Low height 996 mm.

HIGH
ESP

High external static
pressure 35 Pa.



Continuous operation at
extreme ambient
temperatures.

130
%

Increased indoor / outdoor
capacity ratio up to 130%.

¹⁾ for 4 HP model. ²⁾ For model 4-6 HP.

Mini ECOi LE2 Series high efficiency 4 to 6 HP · R410A

Panasonic Mini ECOi. Extraordinary energy-saving.

The most compact ECOi system ever.

- Outstanding SEER and SCOP
- Better efficiency even compared to 2 fan outdoor units



HP			4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Outdoor unit			U-4LE2E5	U-5LE2E5	U-6LE2E5	U-4LE2E8	U-5LE2E8	U-6LE2E8
Power supply	Voltage	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Single phase	Single phase	Single phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity	kW		12,1	14,0	15,5	12,1	14,0	15,5
EER ¹⁾	W/W		4,50	4,06	3,73	4,50	4,06	3,73
Current	A		13,30 - 12,70 - 12,20	16,30 - 15,60 - 17,00	20,30 - 19,40 - 18,60	4,39 - 4,17 - 4,02	5,58 - 5,30 - 5,11	6,71 - 6,37 - 6,14
Input power	kW		2,69	3,45	4,15	2,69	3,45	4,15
Heating capacity	kW		12,5	16,0	16,5	12,5	16,0	16,5
COP ¹⁾	W/W		5,19	4,60	4,27	5,19	4,60	4,27
Current	A		12,20 - 11,60 - 11,20	17,60 - 16,80 - 16,10	19,10 - 18,20 - 17,50	3,98 - 3,78 - 3,64	5,62 - 5,34 - 5,14	6,24 - 5,93 - 5,71
Input power	kW		2,41	3,48	3,86	2,41	3,48	3,86
Starting current	A		1,00	1,00	1,00	1,00	1,00	1,00
Maximum current	A		17,30	24,30	27,40	7,90	10,10	10,70
Maximum input power	kW		3,50 - 3,66 - 3,82	4,92 - 5,14 - 5,37	5,61 - 5,86 - 6,12	4,34 - 5,09 - 5,28	6,25 - 6,55 - 6,82	6,62 - 6,97 - 7,23
Maximum number of connectable indoor units ²⁾			7(10)	8(10)	9(12)	7(10)	8(10)	9(12)
External static pressure	Pa		0 - 35	0 - 35	0 - 35	0 - 35	0 - 35	0 - 35
Air flow	m ³ /min		69	72	74	69	72	74
Sound pressure	Cool	dB(A)	52	53	54	52	53	53
	Cool (Silent1/2/3/4)	dB(A)	50,5/49/47/45	51,5/50/48/46	52,5/51/48/46	50,5/49/47/47	48,5/50/48/46	48,5/50/48/46
	Heat	dB(A)	54	56	56	54	56	56
Sound power	Cool / Heat	dB(A)	69/72	71/75	73/75	69/72	71/75	73/75
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight	kg		106	106	106	106	106	106
Piping diameter	Liquid	Inch (mm)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)
	Gas	Inch (mm)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)
Maximum piping length (total)	m		150(180)	150(180)	150(180)	150(180)	150(180)	150(180)
Elevation difference (in / out)	m		50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)
Refrigerant (R410A) / CO ₂ Eq.	kg / T		6,70(14,40) / 13,9896	6,70(14,40) / 13,9896	6,70(14,40) / 13,9896	6,70(14,40) / 13,9896	6,70(14,40) / 13,9896	6,70(14,40) / 13,9896
Maximum allowable indoor / outdoor capacity ratio	%		50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130
Operating range	Cool Min - Max	°C	-10 - +46	-10 - +46	-10 - +46	-10 - +46	-10 - +46	-10 - +46
	Heat Min - Max	°C	-20 - +18	-20 - +18	-20 - +18	-20 - +18	-20 - +18	-20 - +18

ErP data ³⁾

SEER ⁴⁾	7,85	7,48	7,25	7,85	7,48	7,25
$\eta_{s,c}$	311,0%	296,2%	286,8%	311,0%	296,2%	286,8%
SCOP ⁴⁾	4,87	4,40	4,24	4,87	4,40	4,24
$\eta_{s,h}$	191,8%	172,9%	166,7%	191,8%	172,9%	166,7%

1) EER and COP calculation is based in accordance to EN 14511. 2) In case of 1,5 kW indoor units connection, able to connect maximum 12 indoor units. 3) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for F2 type variable static pressure hide-away indoor units. 4) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

For light commercial use

Mini ECOi allows easier installation in condominiums and medium sized buildings with limited spaces. Utilising R410A and DC Inverter technology, Panasonic offers VRF to a new and growing market.

Technical focus

- 50 m piping without additional refrigeration charge
- High static pressure 35 Pa
- High COP mode selectable with maintenance remote controller
- Selectable silent mode

Reduced height of 996 mm

In addition to raising efficiency, the outdoor unit has been designed to be as compact as possible. It can now be installed in places that were previously too small.



INTERNET CONTROL: Optional.



Mini ECOi LE1 Series high efficiency 8 and 10 HP - R410A

Prepare to be blown away by Panasonic's Mini VRF system.

The Mini VRF compact system is the ideal solution for minimum outdoor space.

Panasonic extends the Mini VRF range by 8 and 10 HP units.

- Piping flexibility with 150 m maximum length
- High efficiency



HP	8 HP		10 HP	
Outdoor unit	U-8LE1E8		U-10LE1E8	
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Cooling capacity	kW	22,4	28,0	
EER ¹⁾	W/W	3,80	3,11	
Current	A	9,60 - 9,15 - 8,80	14,70 - 14,00 - 13,50	
Input power	kW	5,89	9,00	
Heating capacity	kW	25,0	28,0	
COP ¹⁾	W/W	4,02	3,93	
Current	A	10,20 - 9,65 - 9,30	11,60 - 11,10 - 10,70	
Input power	kW	6,22	7,13	
Starting current	A	1,00	1,00	
Maximum current	A	13,70	19,60	
Maximum input power	kW	9,16	13,10	
Maximum number of connectable indoor units ²⁾		15	15	
External static pressure	Pa	0 - 35	0 - 35	
Air flow	m ³ /min	150	160	
Sound pressure	Cool	dB(A)	60	63
	Cool (Silent 1/2/3)	dB(A)	57/55/53	60/58/56
	Heat	dB(A)	64	65
Sound power	Cool / Heat	dB(A)	81/85	84/86
Dimension	H x W x D	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight	kg	132	133	
Piping diameter	Liquid	Inch (mm)	3/8(9,52) ³⁾ / 1/2(12,70) ⁴⁾	3/8(9,52) ³⁾ / 1/2(12,70) ⁴⁾
	Gas	Inch (mm)	3/4(19,05) ³⁾ / 7/8(22,22) ⁴⁾	7/8(22,22) ³⁾ / 1(25,40) ⁴⁾
Maximum piping length (total)	m	7,5 - 150 (7,5 - 300)	7,5 - 150 (7,5 - 300)	
Elevation difference (in / out)	m	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	
Refrigerant (R410A) / CO ₂ Eq.	kg / T	6,30 (24,00) / 13,1544	6,60 (24,00) / 13,7808	
Maximum allowable indoor / outdoor capacity ratio	%	50 - 130	50 - 130	
Operating range	Cool Min - Max	°C	-10 - +46	-10 - +46
	Heat Min - Max	°C	-20 - +18	-20 - +18

ErP data ⁵⁾

SEER ⁶⁾	6,27	6,37
$\eta_{s,c}$	247,9%	251,8%
SCOP ⁶⁾	4,24	4,31
$\eta_{s,h}$	166,4%	169,5%

1) EER and COP calculation is based in accordance to EN 14511. 2) If the heating utilized, it is necessary to increase 1 size with respect to the main liquid pipe, depending on the combination of the indoor unit. 3) Under 90 m for ultimate indoor unit. 4) Over 90 m for ultimate indoor unit. If the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas and liquid pipes. 5) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for F2 type variable static pressure hide-away indoor units. 6) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Increase external static pressure

When unit is installed on a narrow balcony, any barrier in front will be an obstacle. High external static pressure will overcome this obstacle and maintain operating capacity.

Technical focus

- Connection of up to 15 indoor units
- Quiet operation mode (one of the lowest in the market)
- High ambient temp performance
- High static pressure 35 Pa

High ambient temperature performance

Cooling operation range up to 46 °C. The system can maintain the rated (100%) capacity up to 40 °C by 8 HP model and up to 37 °C by 10 HP model.



INTERNET CONTROL: Optional.

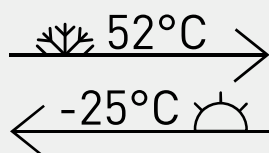
Rating conditions: Cooling indoor 27 °C DB / 19 °C WB, Cooling outdoor 35 °C DB / 24 °C WB, Heating indoor 20 °C DB, Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our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



ECOi EX Series



ECOi EX range system delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible. Taking quality to the extreme — that's the Panasonic challenge.



High performance at extreme conditions.

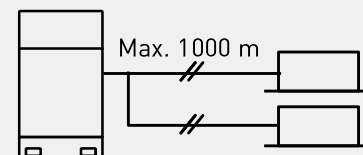
ECOi EX is highly reliable, with strong cooling and heating power, even when operating at extreme ambient temperatures. The units deliver excellent cooling performance up to 52 °C and heating operation down to -25 °C*.

Also, the ECOi EX features include Bluefin in the heat exchanger, improving efficiency in marine ambient. A silicone coated PCB (Printed Circuit Board) protects the unit from being damaged by environmental factors such as moisture and dust.



Outstanding efficiency and comfort.

The ECOi EX system is designed to increase energy efficiency by delivering high SEER rating, as well as high efficiency for part-load operation. The system has reduced energy costs thanks to "All-Inverter Compressors" with independent control, to deliver highly flexible performance. Also, the ECOi EX features an enlarged heat exchanger with triple surfaces that allow for improved heat transfer and a curved air discharge bell-mouth, for better aerodynamics. The three-stage oil recovery design makes it able to minimise the frequency of forced oil recovery, leading to reduced energy costs and sustained comfort.



Superior flexibility.

With up to 1000* meters of pipeline, 30 meters maximum height difference between indoor units and maximum 100 meters between outdoor unit and indoor unit, the design possibilities have grown exponentially, making the ECOi EX the ideal air conditioning option for expansive buildings, such as train stations, airports, schools or hospitals. These advantages are enhanced with the wide range of indoor unit models and capacities, facilitating the perfect adaptation to all kinds of project. The careful selection of controls and peripherals such as the Pump Down, the AHU and / or the chiller, enables an optimised system selection. Maximum allowable indoor / outdoor connected capacity ratio of up to 200%.

* Conditions of 2-Pipe ECOi EX ME2 and MZ1 Series.

New generation of 2-Pipe ECOi EX MZ1 Series R32

Extreme efficiency, quality, compact.

Panasonic provides safety measure compliant with the latest standards, as required based on R32 refrigerant density under specific project conditions. Everything necessary for R32 refrigerant safety is prepared by Panasonic.



Reliable quality - R32 standard-compliant ¹⁾.

$\eta_{s,c}$ $\eta_{s,h}$
310,1% ²⁾ 172,4% ²⁾

High seasonal efficiency.



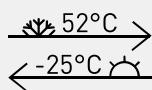
More sustainable solution ³⁾.



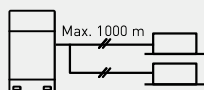
Saving installation space.



Silent mode, maintaining high capacity.



Extended operation range.



Flexible piping installation.



Maximum indoor / outdoor capacity ratio 200%.



Saving installation cost.

1) Panasonic's R32 safety measures comply with IEC 60335-2-40 (ed. 7.0) and EN 378 (ISO 5149). 2) U-10MZ1E8. 3) Compared to R410A systems.

2-Pipe ECOi EX MZ1 Series R32. Enjoy greater installation flexibility and cost savings.



Extensive R32 range to meet any project requirements

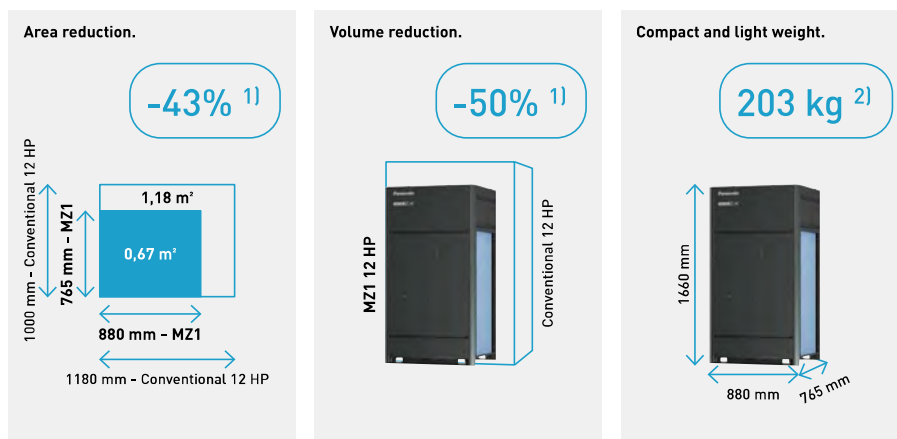
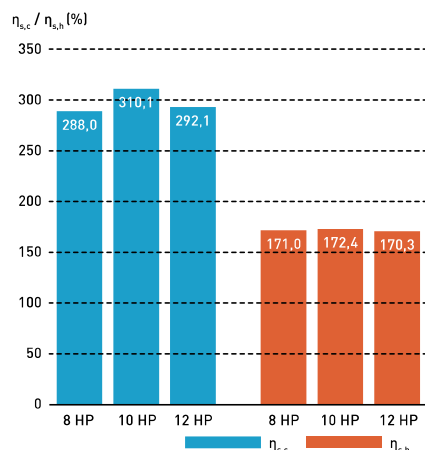
- All air to air indoor units are equipped with nanoe™ X for improved indoor air quality
- A range of ventilations including ERVs and AHU connection kits
- A wide range of connectivity options, including stand-alone, central, and remote monitoring, with BMS integration for seamless operation



High efficiency in a compact outdoor unit

Significantly reduced volume and a lightweight chassis help reduce design and installation work.

MZ1 Series seasonal efficiency.

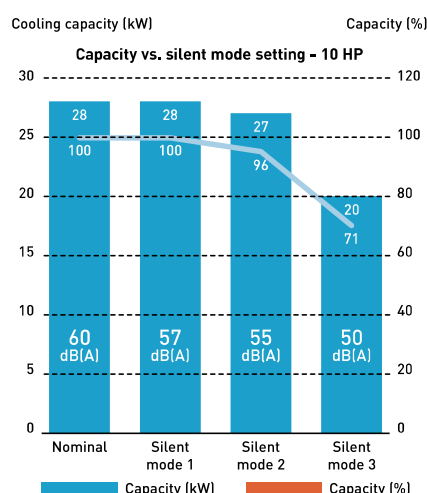


1) 12 HP model compared to the equivalent conventional R410A ECOi EX model. 2) 8 and 10 HP models.

Maximum comfort with silent operation mode

Thanks to the optimised bell mouth design, sound pressure can be reduced to as low as 54 dB(A)* in silent mode while maintaining high cooling capacity.

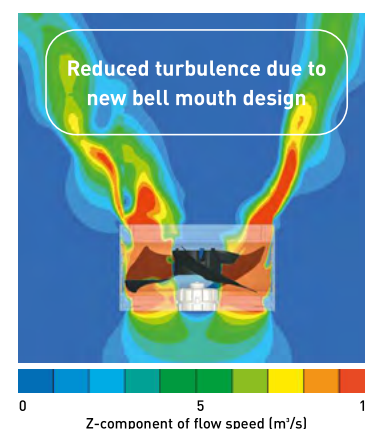
* For model U-8MZ1E8.



- Silent operation mode reduces outdoor unit noise down to 50 dB(A)
- 3-step set point available
- Silent mode 1 maintains rated 100% cooling capacity

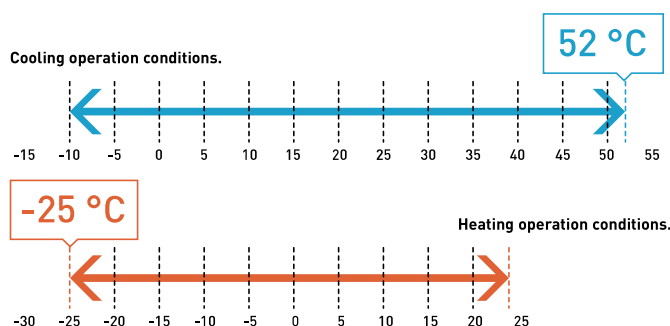
Noise (SPL)	8 HP	10 HP	12 HP
Nominal	57 dB(A)	60 dB(A)	64 dB(A)
Silent mode 1	54 dB(A)	57 dB(A)	61 dB(A)
Silent mode 2	52 dB(A)	55 dB(A)	59 dB(A)
Silent mode 3	50 dB(A)	50 dB(A)	50 dB(A)

Improved bell mouth design.

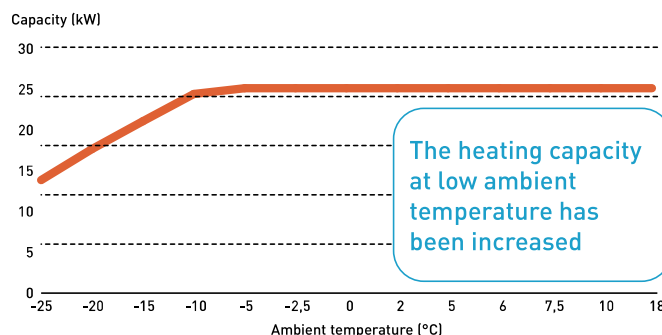


MZ1 Series maintains high performance even at extremely low winter temperatures.

Wide operating limits



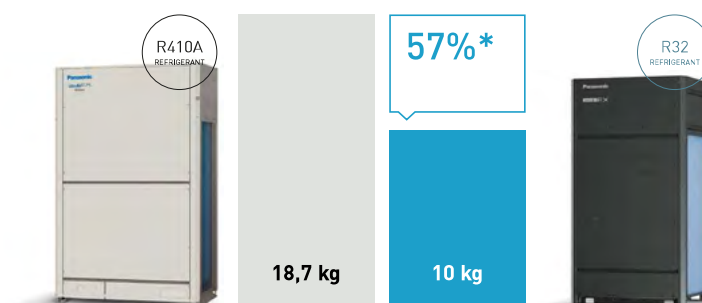
Cooling: Outside air temperature °C (DB), Heating: Outside air temperature °C (WB).



* Maximum capacity unaffected by defrost operation.

Refrigerant amount reduction and piping material choice

The new MZ1 Series uses only 57%* of the R32 refrigerant compared to the R410A equivalent system and supports imperial or metric piping installation.



* Panasonic's internal research, 12 HP model with 30 m piping installation.

R32 safety measures by Panasonic.

Everything necessary for R32 refrigerant safety is prepared by Panasonic.

Panasonic provides safety measure compliant with the latest standards, as required based on R32 refrigerant density under specific project conditions. Everything necessary for R32 refrigerant safety is prepared by Panasonic.

The safety measures which comply with EN 378 (ISO 5149) and IEC 60335-2-40 (ed. 7.0).

Leak detector - CZ-CGLSC2.

Leak detector designed for 4 way 90x90 cassettes, 4 way 60x60 cassettes, and wall-mounted units.



Leak alarm - CZ-CGLALC1.

R32 refrigerant leak alarm designed for adaptive duct and slim duct units.



2-pipe safety valve kit - CZ-P1160SVK.

A 2-pipe safety valve manages the shutdown of only the area / zone experiencing a refrigerant leak, instead of shutting down the whole system.

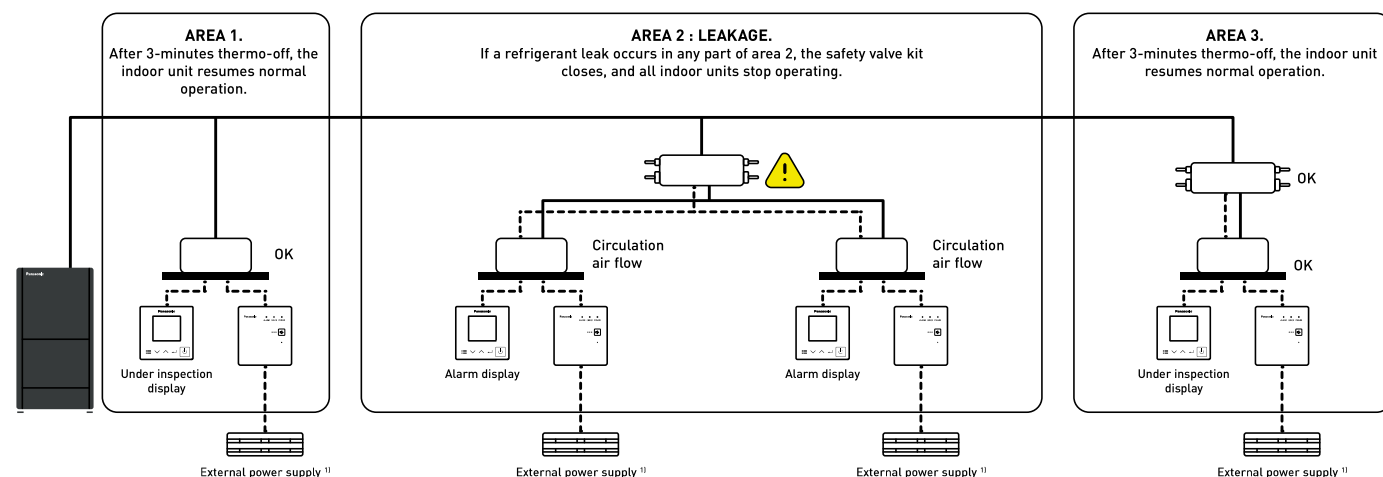


External power supply - PAW-16DC-ALC1.

External 16 V power supply (EN 378 compliant), including a leak alarm for remote locations. The leak alarm can be deactivated.



Example of how R32 safety measures work in an HVAC system.



* A maximum of 1 leak detector can be connected per indoor unit or group. If a leak detector is connected, only 1 wired remote controller is allowed (no sub-controller). Up to 8 units, including indoor units and a safety valve, can be connected. 1) In accordance with EN 378-3, alarm systems such as external leak detectors and safety alarms require a power source independent of the air conditioning system they are protecting. In addition, they must have a backup power source and be able to alert a monitored location. For further information, please contact an authorised Panasonic dealer.

NEW 2-Pipe ECOi EX MZ1 Series - R32

Extreme efficiency, quality, compact.

With advanced R32 refrigerant technology and optimised system design, this series offers a more sustainable solution compared to R410A.

Wide operation range from -25 °C in heating to +52 °C in cooling.

New 2025



HP			8 HP	10 HP	12 HP
Outdoor unit			U-8MZ1E8	U-10MZ1E8	U-12MZ1E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Cooling capacity		kW	22,4	28,0	33,5
EER ¹⁾		W/W	3,30	3,50	3,00
Current		A	11,70 - 11,10 - 10,70	13,50 - 12,80 - 12,40	18,30 - 17,40 - 16,80
Input power		kW	6,78	8,00	11,1
Heating capacity		kW	25,0	31,5	37,5
COP ¹⁾		W/W	4,50	4,30	4,00
Current		A	9,81 - 9,32 - 8,98	12,50 - 11,90 - 11,50	15,70 - 14,90 - 14,40
Input power		kW	5,55	7,32	9,37
Starting current		A	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80
Air flow		m ³ /min	209	209	209
Sound pressure	Normal mode (Cool / Heat)	dB(A)	57 / 57	60 / 60	64 / 67
	Silent mode 1 / 2 / 3 (Cool)	dB(A)	54 / 52 / 50	57 / 55 / 50	61 / 59 / 50
Sound power	Normal mode (Cool / Heat)	dB(A)	75 / 75	77 / 77	81 / 84
Dimension	H x W x D	mm	1660 x 880 x 765	1660 x 880 x 765	1660 x 880 x 765
Net weight		kg	203	203	206
Piping diameter ²⁾	Liquid	Inch (mm)	3/8 (9,52) / 1/2 (12,70)	3/8 (9,52) / 1/2 (12,70)	3/8 (9,52) / 1/2 (12,70)
	Gas	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1-1/8 (28,58)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R32) / CO ₂ Eq		kg/T	6,30 / 4,25	6,40 / 4,32	8,50 / 5,74
Maximum allowable indoor / outdoor capacity ratio ³⁾		%	50 - 200 (130)	50 - 200 (130)	50 - 200 (130)
Operating range	Cool Min - Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min - Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24

ErP data ⁴⁾				
SEER ⁵⁾		7,27	7,82	7,37
$\eta_{s,c}$		288,0%	310,1%	292,1%
SCOP ⁵⁾		4,35	4,38	4,33
$\eta_{s,h}$		171,0%	172,4%	170,3%

1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 100 m for ultimate indoor unit / over 100 m for ultimate indoor unit (if the longest piping equivalent length exceeds 100 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units. 4) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for U2 type 4 way 90x90 cassette indoor units. 5) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Technical focus

- Compact outdoor unit with a significant 43% ¹⁾ footprint reduction, delivering high seasonal efficiency, reliable quality, and R32 standard compliance
- The series uses only 57% ²⁾ of the R32 refrigerant compared to R410A equivalent system, minimizing the need for extra safety measures
- Extensive R32 Range with all air-to-air indoor units equipped with nanoe™ X, along with ERVs and AHU connection kits

- A wide range of connectivity options, including stand-alone, central, and remote monitoring, with BMS integration for seamless operation

1) 12 HP model compared to the equivalent conventional R410A ECOi EX ME2.

2) Panasonic's internal research. 12 HP model with 30 m piping installation.



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.ptc.panasonic.eu.

2-Pipe ECOi EX MZ1 Series R32 combination from 16 to 48 HP • R32

HP			16 HP	18 HP	20 HP	20 HP	22 HP	24 HP	24 HP	26 HP
			U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-10MZ1E8	U-10MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8
Outdoor unit			U-8MZ1E8	U-10MZ1E8	U-12MZ1E8	U-10MZ1E8	U-12MZ1E8	U-12MZ1E8	U-8MZ1E8	U-8MZ1E8
Power supply	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity			kW	44,8	50,4	55,9	56,0	61,5	67,0	72,8
EER ¹⁾			W/W	3,20	3,40	3,10	3,50	3,20	3,00	3,20
SEER ²⁾ / $\eta_{s,c}$				7,24/286,8%	7,56/299,6%	7,29/288,9%	7,82/310,1%	7,55/299,1%	7,33/290,2%	7,24/286,8%
Current			A	23,40-22,20-21,40	25,20-23,90-23,10	30,00-28,50-27,50	27,00-25,60-24,80	31,80-30,20-29,20	36,60-34,80-33,60	35,10-33,30-32,10
Input power			kW	13,6	14,8	17,9	16,0	19,1	22,2	20,4
Heating capacity			kW	50,0	56,5	62,5	63,0	69,0	75,0	81,5
COP ¹⁾			W/W	4,50	4,30	4,10	4,20	4,10	3,90	4,40
SCOP ²⁾ / $\eta_{s,h}$				4,32/169,8%	4,33/170,3%	4,29/168,8%	4,38/172,2%	4,34/170,7%	4,33/170,2%	4,32/169,8%
Current			A	19,62-18,64-17,96	22,31-21,22-20,48	25,51-24,22-23,38	25,00-23,80-23,00	28,20-26,80-25,50	31,40-29,80-28,80	29,43-27,96-26,94
Input power			kW	11,1	12,9	15,0	14,7	16,7	18,8	16,7
Starting current			A	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)			Pa	80	80	80	80	80	80	80
Air flow			m ³ /min	418	418	418	418	418	418	418
Sound pressure	Normal mode (Cool / Heat)	dB(A)	60,0/60,0	62,0/62,0	65,0/67,5	63,0/63,0	65,5/68,0	67,0/70,0	62,0/62,0	63,0/63,0
	Silent mode 1 / 2 (Cool)	dB(A)	57,0/55,0	59,0/57,0	62,0/60,0	60,0/58,0	62,5/60,5	64,0/62,0	59,0/57,0	60,0/58,0
	Sound power	Normal mode (Cool / Heat)	dB(A)	78,0/78,0	79,5/79,5	82,0/84,5	80,0/80,0	82,5/85,0	84,0/87,0	80,0/80,0
Dimension			HxWxD	mm	1660x1760 (+60)x765	1660x1760 (+60)x765	1660x1760 (+60)x765	1660x1760 (+60)x765	1660x1760 (+60)x765	1660x2640 (+120)x765
Net weight			kg	406	406	409	406	409	412	609
Piping diameter ³⁾	Liquid	Inch (mm)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)
	Gas	Inch (mm)	1-1/8(28,58)/ 1-3/8(34,96)	1-1/8(28,58)/ 1-3/8(34,96)	1-1/8(28,58)/ 1-3/8(34,96)	1-1/8(28,58)/ 1-3/8(34,96)	1-1/8(28,58)/ 1-3/8(34,96)	1-1/8(28,58)/ 1-3/8(34,96)	1-1/8(28,58)/ 1-3/8(34,96)	1-1/8(28,58)/ 1-3/8(34,96)
	Balance	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)
Refrigerant (R32) / CO ₂ Eq.			kg / T	12,6/8,51	12,7/8,57	14,8/9,99	12,8/8,64	14,9/10,06	17,0/11,48	18,9/12,76
Maximum allowable indoor / outdoor capacity ratio ⁴⁾			%	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24

HP			28 HP	28 HP	30 HP	30 HP	32 HP	32 HP	32 HP	34 HP
			U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-10MZ1E8	U-8MZ1E8	U-10MZ1E8	U-8MZ1E8	U-10MZ1E8
Outdoor unit			U-8MZ1E8	U-10MZ1E8	U-10MZ1E8	U-10MZ1E8	U-12MZ1E8	U-10MZ1E8	U-8MZ1E8	U-12MZ1E8
			U-12MZ1E8	U-10MZ1E8	U-12MZ1E8	U-10MZ1E8	U-12MZ1E8	U-12MZ1E8	U-8MZ1E8	U-12MZ1E8
Power supply	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity			kW	78,3	78,4	83,9	84,0	89,4	89,5	95,0
EER ¹⁾			W/W	3,10	3,40	3,20	3,50	3,00	3,30	3,10
SEER ²⁾ / $\eta_{s,c}$				7,23/286,3%	7,61/301,5%	7,45/295,1%	7,82/310,1%	7,26/287,4%	7,63/302,4%	7,24/286,8%
Current			A	41,70-39,60-38,20	38,70-36,70-35,50	43,50-41,30-39,90	40,50-38,40-37,20	48,30-45,90-44,30	45,30-43,00-41,60	46,80-44,40-42,80
Input power			kW	24,7	22,8	25,9	22,8	29,0	27,1	27,2
Heating capacity			kW	87,5	88,0	94,0	94,5	100,0	100,0	106,0
COP ¹⁾			W/W	4,20	4,30	4,20	4,20	4,10	4,10	4,00
SCOP ²⁾ / $\eta_{s,h}$				4,34/170,9%	4,35/171,2%	4,33/170,4%	4,38/172,4%	4,31/169,6%	4,38/172,2%	4,32/169,8%
Current			A	35,32-33,54-32,36	34,81-33,12-31,98	38,01-36,12-34,88	37,50-35,70-34,50	41,21-39,12-37,78	40,70-38,70-37,40	39,24-37,28-35,92
Input power			kW	20,5	20,2	22,3	22,0	24,3	24,1	22,2
Starting current			A	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)			Pa	80	80	80	80	80	80	80
Air flow			m ³ /min	627	627	627	627	627	627	627
Sound pressure	Normal mode (Cool / Heat)	dB(A)	65,5/68,0	64,0/64,0	66,0/68,5	65,0/65,0	67,5/70,5	66,5/68,5	63,0/63,0	68,0/70,5
	Silent mode 1 / 2 (Cool)	dB(A)	62,5/60,5	61,0/59,0	63,0/61,0	62,0/60,0	64,5/62,5	63,5/61,5	60,0/58,0	65,0/63,0
	Sound power	Normal mode (Cool / Heat)	dB(A)	83,0/85,0	81,5/81,5	83,5/85,5	82,0/82,0	84,5/87,5	83,5/85,5	81,0/81,0
Dimension			HxWxD	mm	1660x2640 (+120)x765	1660x2640 (+120)x765	1660x2640 (+120)x765	1660x2640 (+120)x765	1660x2640 (+120)x765	1660x3520 (+180)x765
Net weight			kg	612	609	612	609	615	612	812
Piping diameter ³⁾	Liquid	Inch (mm)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)
	Gas	Inch (mm)	1-1/8(28,58)/ 1-3/8(34,96)	1-1/8(28,58)/ 1-3/8(34,96)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)
	Balance	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)
Refrigerant (R32) / CO ₂ Eq.			kg / T	21,1/14,24	19,1/12,89	21,2/14,31	19,2/12,96	23,3/15,73	21,3/14,38	25,2/17,01
Maximum allowable indoor / outdoor capacity ratio ⁴⁾			%	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU)

2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Piping diameter under 100 m for ultimate indoor unit / over 100 m for ultimate indoor unit (if the longest piping equivalent length exceeds 100 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

4) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for U2 type 4 way 90x90 cassette indoor units.

HP			34 HP	36 HP	36 HP	36 HP	38 HP	38 HP	40 HP	40 HP
			U-8MZ1E8	U-12MZ1E8	U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-10MZ1E8
Outdoor unit			U-8MZ1E8	U-12MZ1E8	U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-10MZ1E8	U-8MZ1E8	U-10MZ1E8
			U-8MZ1E8	U-12MZ1E8	U-10MZ1E8	U-8MZ1E8	U-10MZ1E8	U-10MZ1E8	U-12MZ1E8	U-10MZ1E8
			U-10MZ1E8		U-10MZ1E8	U-12MZ1E8	U-12MZ1E8	U-10MZ1E8	U-12MZ1E8	U-10MZ1E8
Power supply	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	95,2	100,0	100,0	100,0	106,0	106,0	111,0	112,0
EER ¹⁾		W/W	3,30	3,00	3,30	3,10	3,20	3,40	3,10	3,50
SEER ²⁾ / η_{sc}			7,37/291,8%	7,37/292,0%	7,53/298,2%	7,25/287,0%	7,36/291,7%	7,66/303,4%	7,30/289,0%	7,82/310,1%
Current		A	48,60-46,10-44,50	54,90-52,20-50,40	50,40-47,80-46,20	53,40-50,70-48,90	55,20-52,40-50,60	52,20-49,50-47,90	60,00-57,00-55,00	54,00-51,20-49,60
Input power		kW	28,4	33,3	29,6	31,5	32,7	30,8	35,8	32,0
Heating capacity		kW	106,0	112,0	113,0	112,0	119,0	119,0	125,0	126,0
COP ¹⁾		W/W	4,40	3,90	4,30	4,20	4,20	4,30	4,10	4,30
SCOP ²⁾ / η_{sh}			4,29/168,7%	4,33/170,3%	4,33/170,3%	4,32/170,1%	4,31/169,6%	4,36/171,4%	4,29/168,8%	4,38/172,2%
Current		A	41,93-39,86-38,44	47,10-44,70-43,20	44,62-42,44-40,96	45,13-42,86-41,34	47,82-45,44-43,86	47,31-45,02-43,48	51,02-48,44-46,76	50,00-47,60-46,00
Input power		kW	24,0	28,2	25,8	26,1	27,8	27,6	29,9	29,3
Starting current		A	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m ³ /min	836	627	836	836	836	836	836	836
Sound pressure	Normal mode (Cool / Heat)	dB(A)	64,0/64,0	69,0/72,0	65,0/65,0	66,0/68,5	66,5/68,5	65,5/65,5	68,0/70,5	66,0/66,0
	Silent mode 1 / 2 (Cool)	dB(A)	61,0/59,0	66,0/64,0	62,0/60,0	63,0/61,0	63,5/61,5	62,5/60,5	65,0/63,0	63,0/61,0
Sound power	Normal mode (Cool / Heat)	dB(A)	82,0/82,0	86,0/89,0	82,5/82,5	83,5/85,5	84,0/86,0	83,0/83,0	85,0/87,5	83,0/83,0
Dimension	H x W x D	mm	1660 x 3520 (+180) x 765	1660 x 2640 (+120) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765
Net weight		kg	812	618	812	815	815	812	818	812
Piping diameter ³⁾	Liquid	Inch (mm)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)
	Gas	Inch (mm)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)
	Balance	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)
Refrigerant (R32) / CO ₂ Eq.		kg / T	25,3/17,08	25,5/17,21	25,4/17,15	27,4/18,50	27,5/18,56	25,5/17,21	29,6/19,98	25,6/17,28
Maximum allowable indoor / outdoor capacity ratio ⁴⁾		%	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24

HP			40 HP	42 HP	42 HP	44 HP	44 HP	46 HP	48 HP
			U-8MZ1E8	U-8MZ1E8	U-10MZ1E8	U-8MZ1E8	U-10MZ1E8	U-10MZ1E8	U-12MZ1E8
Outdoor unit			U-10MZ1E8	U-10MZ1E8	U-10MZ1E8	U-12MZ1E8	U-10MZ1E8	U-12MZ1E8	U-12MZ1E8
			U-10MZ1E8	U-12MZ1E8	U-10MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8
			U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8
Power supply	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	111,0	117,0	117,0	122,0	123,0	128,0	134,0
EER ¹⁾		W/W	3,20	3,10	3,30	3,00	3,20	3,00	3,00
SEER ²⁾ / η_{sc}			7,53/298,2%	7,43/294,4%	7,65/303,2%	7,28/288,5%	7,56/299,4%	7,41/293,7%	7,37/292,1%
Current		A	57,00-54,10-52,30	61,80-58,70-56,70	58,80-55,80-54,00	66,60-63,30-61,10	63,60-60,40-58,40	68,40-65,00-62,80	73,20-69,60-67,20
Input power		kW	33,9	37,0	35,1	40,1	38,2	41,3	44,4
Heating capacity		kW	125,0	131,0	132,0	137,0	138,0	144,0	150,0
COP ¹⁾		W/W	4,20	4,10	4,20	4,00	4,10	4,00	4,00
SCOP ²⁾ / η_{sh}			4,34/170,6%	4,35/171,0%	4,36/171,6%	4,33/170,3%	4,34/170,7%	4,35/171,2%	4,33/170,3%
Current		A	50,51-48,02-46,38	53,71-51,02-49,28	53,20-50,60-48,90	56,91-54,02-52,18	56,40-53,60-51,80	59,60-56,60-54,70	62,80-59,60-57,60
Input power		kW	29,6	31,7	31,4	33,7	33,4	35,5	37,5
Starting current		A	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80
Air flow		m ³ /min	836	836	836	836	836	836	836
Sound pressure	Normal mode (Cool / Heat)	dB(A)	67,0/69,0	68,5/71,0	67,5/69,0	69,0/72,0	68,5/71,0	69,5/72,0	70,0/73,0
	Silent mode 1 / 2 (Cool)	dB(A)	64,0/62,0	65,5/63,5	64,5/62,5	66,0/64,0	65,5/63,5	66,5/64,5	67,0/65,0
Sound power	Normal mode (Cool / Heat)	dB(A)	84,5/86,0	85,5/88,0	84,5/86,0	86,5/89,0	85,5/88,0	86,5/89,0	87,0/90,0
Dimension	H x W x D	mm	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765
Net weight		kg	815	818	815	821	818	821	824
Piping diameter ³⁾	Liquid	Inch (mm)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)
	Gas	Inch (mm)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)	1-3/8(34,96)/ 15/8(15,88)
	Balance	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)
Refrigerant (R32) / CO ₂ Eq.		kg / T	27,6/18,63	29,7/20,05	27,7/18,70	31,8/21,47	29,8/20,12	31,9/21,53	34,0/22,95
Maximum allowable indoor / outdoor capacity ratio ⁴⁾		%	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Piping diameter under 100 m for ultimate indoor unit / over 100 m for ultimate indoor unit (if the longest piping equivalent length exceeds 100 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units, B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units. 4) SEER / SCOP and η_{sc} / η_{sh} are in accordance with ErP test data for U2 type 4 way 90x90 cassette indoor units.

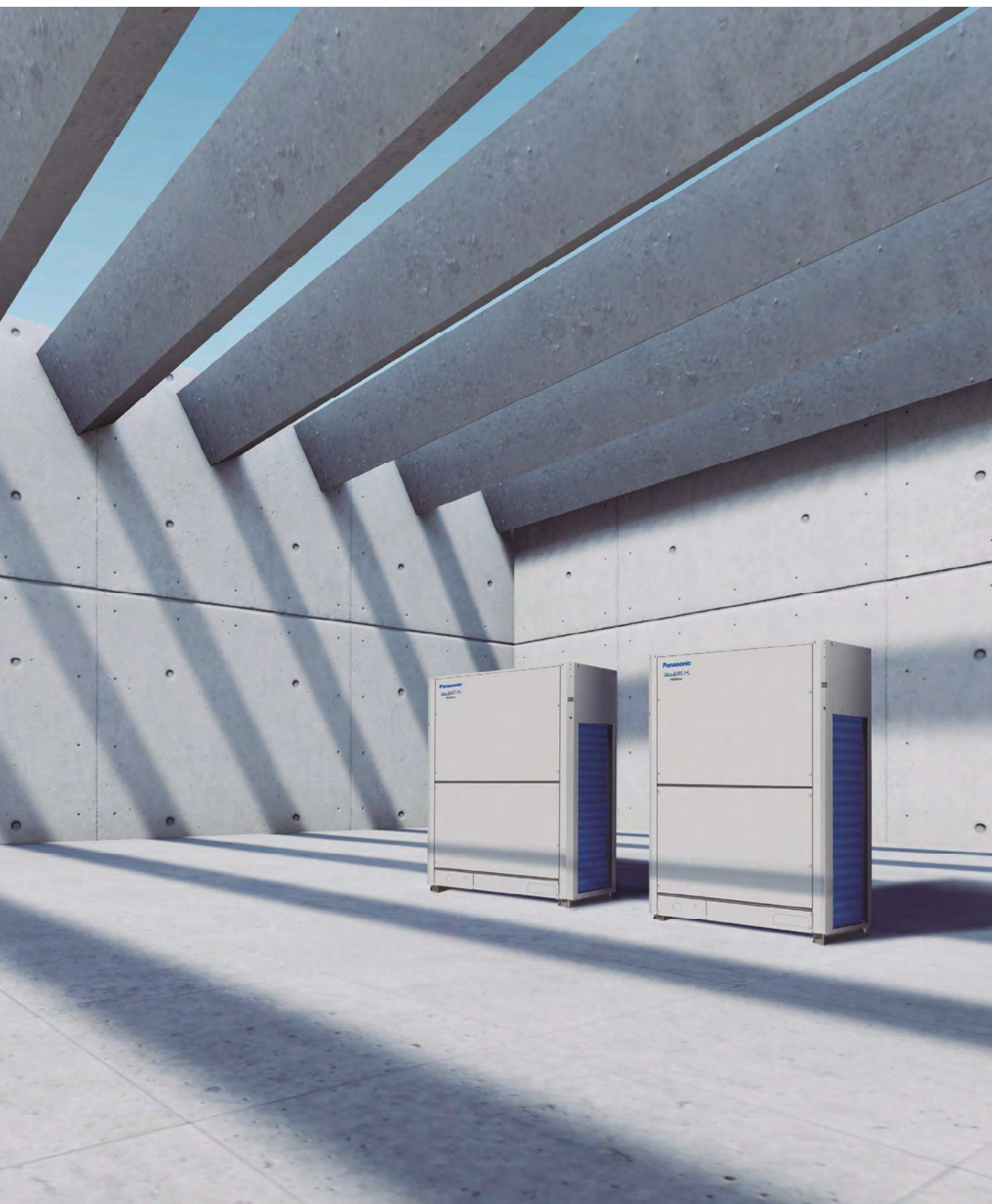
Rating conditions: Cooling indoor 27 °C DB / 19 °C WB, Cooling outdoor 35 °C DB / 24 °C WB, Heating indoor 20 °C DB, Heating outdoor 7 °C DB / 6 °C WB, (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our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

2-Pipe ECOi EX ME2 Series R410A

ECO*i* EX

Two independently controlled Inverter compressors achieve high efficiency. Redesigned components in the body provide performance improvement especially in the rated cooling condition and EER performance*.

* Applicable to ECOi EX outdoor units over 14 HP (2-compressor models).



2-Pipe ECOi EX ME2 Series - R410A

A VRF system delivering energy-saving performance, powerful operation, reliability and comfort, surpassing anything previously possible. It represents a true paradigm shift in air conditioning solutions.

VRF with outstanding energy-saving performance and powerful operation SEER 7,56 (18 HP model).



HP			8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP
Outdoor unit			U-8ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8
Power supply	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	22,4	28,0	33,5	40,0	45,0	50,0	56,0
EER ¹⁾		W/W	4,70	4,37	3,96	3,88	3,52	3,52	3,35
ESEER		W/W	9,33	8,67	7,94	7,73	7,19	6,95	6,18
Current		A	7,79 - 7,40 - 7,14	10,70-10,20-9,80	13,70-13,00-12,50	17,40-16,50-15,90	21,10-20,10-19,40	23,20-22,00-21,20	26,70-25,40-24,50
Input power		kW	4,77	6,41	8,47	10,30	12,80	14,20	16,70
Heating capacity		kW	25,0	31,5	37,5	45,0	50,0	56,0	63,0
COP ¹⁾		W/W	5,13	4,76	4,73	4,56	4,42	4,38	3,94
Current		A	7,96 - 7,56 - 7,29	11,10-10,50-10,10	12,90-12,30-11,80	16,60-15,80-15,20	18,90-17,90-17,30	21,10-20,10-19,40	25,90-24,60-23,70
Input power		kW	4,87	6,62	7,92	9,86	11,30	12,80	16,00
Starting current		A	1,00	1,00	1,00	2,00	2,00	2,00	2,00
External static pressure [Max]		Pa	80	80	80	80	80	80	80
Air flow		m ³ /min	224	224	232	232	232	405	405
Sound pressure	Normal mode	dB(A)	54	56	59	60	61	59	60
	Silent mode	dB(A)	51	53	56	57	58	56	57
Sound power	Normal mode	dB(A)	75	77	80	81	82	80	81
Dimension	H x W x D	mm	1842 x 770 x 1000	1842 x 770 x 1000	1842 x 1180 x 1000	1842 x 1180 x 1000	1842 x 1180 x 1000	1842 x 1540 x 1000	1842 x 1540 x 1000
Net weight		kg	210	210	270	315	315	375	375
Piping diameter ²⁾	Liquid	Inch (mm)	3/8 (9,52) / 1/2 (12,70)	3/8 (9,52) / 1/2 (12,70)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)
	Gas	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1 (25,40)	1 (25,40) / 1-1/8 (28,58)	1 (25,40) / 1-1/8 (28,58)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)
	Balance	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)
Refrigerant [R410A] / CO ₂ Eq		kg/T	5,60 / 11,6928	5,60 / 11,6928	8,30 / 17,3304	8,30 / 17,3304	8,30 / 17,3304	9,50 / 19,836	9,50 / 19,836
Maximum allowable indoor / outdoor capacity ratio ³⁾		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

ErP data ⁴⁾									
SEER ⁵⁾			7,43	6,96	6,74	7,23	6,43	7,56	7,03
η _{s,c}			294,3%	275,4%	266,6%	286,0%	254,3%	299,2%	278,2%
SCOP ⁵⁾			4,79	4,27	4,72	4,28	4,05	4,29	4,09
η _{s,h}			188,4%	167,6%	185,8%	168,2%	159,0%	168,7%	160,4%

1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A, Obey the limited number of connectable indoor units, B, The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB), C, Simultaneous operation is limited to less than 130% of connectable indoor units, 4) SEER / SCOP and η_{s,c} / η_{s,h} are in accordance with ErP test data for F2 type variable static pressure hide-away indoor units, 5) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Technical focus

- Twin rotary Inverter compressor
- High performance at extreme conditions
- Outstanding efficiency and comfort
- Extraordinary partial load, SEER and SCOP
- SEER and SCOP following EN-14825
- Oil recovery intelligent control
- Top comfort
- Superior flexibility
- Bluefin full line up EX
- Extremely high capacity at -20 °C and unique heating capacity at -25 °C
- Smooth exhaust flow by bell-mouth



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.ptc.panasonic.eu.

2-Pipe ECOi EX ME2 Series R410A high efficiency model combination from 18 to 64 HP

HP			18 HP	20 HP	22 HP	24 HP	26 HP	28 HP
Outdoor unit			U-8ME2E8	U-10ME2E8	U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8
			U-10ME2E8	U-10ME2E8	U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity	kW		50,0	56,0	61,5	68,0	73,0	78,5
EER ¹⁾	W/W		4,55	4,38	4,13	3,93	3,80	3,69
Current	A		18,20 - 17,30 - 16,60	21,40 - 20,30 - 19,60	24,30 - 23,10 - 22,30	28,00 - 26,60 - 25,60	31,70 - 30,10 - 29,00	34,80 - 33,10 - 31,90
Input power	kW		11,00	12,80	14,90	17,30	19,20	21,30
Heating capacity	kW		56,0	63,0	69,0	76,5	81,5	87,5
COP ¹⁾	W/W		4,96	4,77	4,76	4,69	4,55	4,56
Current	A		18,70 - 17,70 - 17,10	22,00 - 20,90 - 20,20	23,90 - 22,70 - 21,90	26,60 - 25,30 - 24,40	29,90 - 28,40 - 27,40	31,70 - 30,10 - 29,00
Input power	kW		11,30	13,20	14,50	16,30	17,90	19,20
Starting current	A		2,00	2,00	2,00	2,00	3,00	3,00
External static pressure [Max]	Pa		80	80	80	80	80	80
Air flow	m ³ /min		448	448	456	464	456	464
Sound pressure	Normal	dB(A)	58,5	59,0	61,0	62,0	62,5	63,5
	Silent mode	dB(A)	55,5	56,0	58,0	59,0	59,5	60,5
Sound power	Normal mode	dB(A)	79,5	80,0	82,0	83,0	83,5	84,5
Dimension / Net weight	H x W x D	mm / kg	1842 x 1600 x 1000 / 420	1842 x 1600 x 1000 / 420	1842 x 2010 x 1000 / 480	1842 x 2420 x 1000 / 540	1842 x 2010 x 1000 / 535	1842 x 2420 x 1000 / 585
Piping diameter ²⁾	Liquid	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)
	Balance	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)
Refrigerant (R410A) / CO ₂ Eq.	kg / T		11,20 / 23,3856	11,20 / 23,3856	13,90 / 29,0232	16,60 / 34,6608	13,90 / 29,0232	16,60 / 34,6608
Maximum allowable indoor / outdoor capacity ratio ³⁾	%		50 ~ 130 [200]	50 ~ 130 [200]	50 ~ 130 [200]	50 ~ 130 [200]	50 ~ 130 [200]	50 ~ 130 [200]
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

HP			30 HP	32 HP	34 HP	36 HP	38 HP	40 HP
Outdoor unit			U-14ME2E8	U-16ME2E8	U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8
			U-16ME2E8	U-16ME2E8	U-12ME2E8	U-12ME2E8	U-16ME2E8	U-12ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity	kW		85,0	90,0	96,0	101,0	107,0	113,0
EER ¹⁾	W/W		3,68	3,52	4,05	3,95	3,84	3,75
Current	A		38,60 - 36,60 - 35,30	42,30 - 40,20 - 38,70	38,70 - 36,80 - 35,50	41,40 - 39,30 - 37,90	46,10 - 43,80 - 42,20	49,20 - 46,70 - 45,00
Input power	kW		23,10	25,60	23,70	25,60	27,90	30,10
Heating capacity	kW		95,0	100,0	108,0	113,0	119,0	127,0
COP ¹⁾	W/W		4,48	4,42	4,72	4,73	4,61	4,57
Current	A		35,40 - 33,60 - 32,40	37,70 - 35,80 - 34,60	37,80 - 35,90 - 34,60	39,00 - 37,10 - 35,80	42,60 - 40,50 - 39,00	45,90 - 43,60 - 42,00
Input power	kW		21,20	22,60	22,90	23,90	25,80	27,80
Starting current	A		4,00	4,00	3,00	3,00	4,00	4,00
External static pressure [Max]	Pa		80	80	80	80	80	80
Air flow	m ³ /min		464	464	688	696	688	696
Sound pressure	Normal	dB(A)	63,5	64,0	63,0	64,0	64,0	64,5
	Silent mode	dB(A)	60,5	61,0	60,0	61,0	61,0	61,5
Sound power	Normal mode	dB(A)	84,5	85,0	84,0	85,0	85,0	85,5
Dimension / Net weight	H x W x D	mm / kg	1842 x 2420 x 1000 / 630	1842 x 2420 x 1000 / 630	1842 x 3250 x 1000 / 750	1842 x 3660 x 1000 / 810	1842 x 3250 x 1000 / 795	1842 x 3660 x 1000 / 855
Piping diameter ²⁾	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)
	Balance	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)
Refrigerant (R410A) / CO ₂ Eq.	kg / T		16,60 / 34,6608	16,60 / 34,6608	22,20 / 46,3536	24,90 / 51,9912	22,20 / 46,3536	24,90 / 46,3536
Maximum allowable indoor / outdoor capacity ratio ³⁾	%		50 ~ 130 [200]	50 ~ 130 [200]	50 ~ 130 [200]	50 ~ 130 [200]	50 ~ 130 [200]	50 ~ 130 [200]
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

Data is for reference. 1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

HP			42 HP	44 HP	46 HP	48 HP	50 HP	52 HP
			U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-10ME2E8	U-12ME2E8
Outdoor unit			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-12ME2E8	U-12ME2E8
			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-12ME2E8	U-12ME2E8
							U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	118,0	124,0	130,0	135,0	140,0	145,0
EER ¹⁾		W/W	3,69	3,62	3,62	3,52	3,87	3,82
Current	A		52,80 - 50,20 - 48,40	56,00 - 53,20 - 51,30	59,90 - 56,90 - 54,90	63,40 - 60,20 - 58,10	59,10 - 56,20 - 54,20	62,10 - 59,00 - 56,80
Input power		kW	32,00	34,30	35,90	38,40	36,20	38,00
Heating capacity		kW	132,0	138,0	145,0	150,0	155,0	160,0
COP ¹⁾		W/W	4,49	4,50	4,46	4,42	4,65	4,66
Current	A		49,10 - 46,60 - 44,90	50,70 - 48,20 - 46,40	54,30 - 51,50 - 49,70	56,60 - 53,80 - 51,80	55,00 - 52,20 - 50,40	56,60 - 53,80 - 51,90
Input power		kW	29,40	30,70	32,50	33,90	33,30	34,30
Starting current	A		5,00	5,00	6,00	6,00	5,00	5,00
External static pressure (Max)	Pa		80	80	80	80	80	80
Air flow		m³/min	688	696	696	696	920	928
Sound pressure	Normal	dB(A)	65,0	65,5	65,5	66,0	65,5	66,0
	Silent mode	dB(A)	62,0	62,5	62,5	63,0	62,5	63,0
Sound power	Normal mode	dB(A)	86,0	86,5	86,5	87,0	86,5	87,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 3250 x 1000 / 840	1842 x 3660 x 1000 / 900	1842 x 3660 x 1000 / 945	1842 x 3660 x 1000 / 945	1842 x 4490 x 1000 / 1065	1842 x 4900 x 1000 / 1125
Piping diameter ²⁾	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)
	Balance	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)
Refrigerant (R410A) / CO ₂ Eq.	kg / T		22,20 / 51,9912	24,90 / 51,9912	24,90 / 51,9912	24,90 / 51,9912	30,50 / 63,6840	33,20 / 69,3216
Maximum allowable indoor / outdoor capacity ratio ³⁾	%		50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

HP			54 HP	56 HP	58 HP	60 HP	62 HP	64 HP
			U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8
Outdoor unit			U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	151,0	156,0	162,0	168,0	174,0	180,0
EER ¹⁾		W/W	3,75	3,71	3,65	3,60	3,60	3,52
Current	A		66,60 - 63,20 - 60,90	68,80 - 65,30 - 63,00	73,30 - 69,70 - 67,10	77,10 - 73,30 - 70,60	79,80 - 75,80 - 73,00	84,60 - 80,30 - 77,40
Input power		kW	40,30	42,10	44,40	46,70	48,30	51,20
Heating capacity		kW	169,0	175,0	182,0	189,0	195,0	201,0
COP ¹⁾		W/W	4,56	4,56	4,47	4,47	4,45	4,42
Current	A		61,90 - 58,80 - 56,70	63,40 - 60,20 - 58,10	68,00 - 64,60 - 62,20	70,60 - 67,10 - 64,70	73,10 - 69,50 - 67,00	76,00 - 72,20 - 69,60
Input power		kW	37,10	38,40	40,70	42,30	43,80	45,50
Starting current	A		6,00	6,00	7,00	7,00	8,00	8,00
External static pressure (Max)	Pa		80	80	80	80	80	80
Air flow		m³/min	920	928	920	928	928	928
Sound pressure	Normal	dB(A)	66,0	66,5	66,5	67,0	67,0	67,0
	Silent mode	dB(A)	63,0	63,5	63,5	64,0	64,0	64,0
Sound power	Normal mode	dB(A)	87,0	87,5	87,5	88,0	88,0	88,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 4490 x 1000 / 1110	1842 x 4900 x 1000 / 1170	1842 x 4490 x 1000 / 1155	1842 x 4900 x 1000 / 1215	1842 x 4900 x 1000 / 1260	1842 x 4900 x 1000 / 1260
Piping diameter ²⁾	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-5/8 (41,28) / 1-3/4 (44,45)	1-5/8 (41,28) / 1-3/4 (44,45)
	Balance	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)
Refrigerant (R410A) / CO ₂ Eq.	kg / T		30,50 / 63,6840	33,20 / 69,3216	30,50 / 63,6840	33,20 / 69,3216	33,20 / 69,3216	33,20 / 69,3216
Maximum allowable indoor / outdoor capacity ratio ³⁾	%		50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

Data is for reference, 1) EER and COP calculation is based in accordance to EN 14511, 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes), 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A, Obey the limited number of connectable indoor units, B, The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB), C, Simultaneous operation is limited to less than 130% of connectable indoor units.

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.ptc.panasonic.eu.

2-Pipe ECOi EX ME2 Series R410A space saving model combination from 22 to 80 HP

HP			22 HP	24 HP	26 HP	28 HP	30 HP	32 HP	34 HP
Outdoor unit			U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-14ME2E8
			U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-20ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	61,5	68,0	73,0	78,5	85,0	90,0	96,0
EER ¹⁾		W/W	4,13	3,93	3,80	3,69	3,68	3,52	3,56
SEER ²⁾			6,90	6,86	6,62	6,60	6,88	6,55	7,21
Current		A	24,30-23,10-22,30	28,00-26,60-25,60	31,70-30,10-29,00	34,80-33,10-31,90	38,60-36,60-35,30	42,30-40,20-38,70	44,10-41,90-40,40
Input power		kW	14,90	17,30	19,20	21,30	23,10	25,60	27,00
Heating capacity		kW	69,0	76,5	81,5	87,5	95,0	100,0	108,0
COP ¹⁾		W/W	4,76	4,69	4,55	4,56	4,48	4,42	4,17
SCOP ²⁾			4,53	4,78	4,16	4,29	4,13	4,09	4,14
Current		A	23,90-22,70-21,90	26,60-25,30-24,40	29,90-28,40-27,40	31,70-30,10-29,00	35,40-33,60-32,40	37,70-35,80-34,60	42,80-40,60-39,20
Input power		kW	14,50	16,30	17,90	19,20	21,20	22,60	25,90
Starting current		A	2,00	2,00	3,00	3,00	4,00	4,00	4,00
External static pressure [Max]		Pa	80	80	80	80	80	80	80
Air flow		m³/min	456	464	456	464	464	464	637
Sound pressure	Normal / Silent mode	dB(A)	61,0/58,0	62,0/59,0	62,5/59,5	63,5/60,5	63,5/60,5	64,0/61,0	63,0/60,0
Sound power	Normal mode	dB(A)	82,0	83,0	83,5	84,5	84,5	85,0	84,0
Dimension / Net weight	HxWxD	mm / kg	1842x2010 x1000/480	1842x2420 x1000/540	1842x2010 x1000/525	1842x2420 x1000/585	1842x2420 x1000/630	1842x2420 x1000/630	1842x2780 x1000/690
Piping diameter ³⁾	Liquid	Inch (mm)	5/8(15,88)/ 3/4(19,05)	5/8(15,88)/ 3/4(19,05)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)
	Gas	Inch (mm)	1-1/8(28,58)/ 1-1/4(31,75)	1-1/8(28,58)/ 1-1/4(31,75)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)
	Balance	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)
Refrigerant (R410A) / CO ₂ Eq.		kg / T	13,90/23,3856	16,60/34,6608	13,90/29,0232	16,60/34,6608	16,60/34,6608	16,60/34,6608	17,80/37,1664
Maximum allowable indoor / outdoor capacity ratio ⁴⁾		%	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

HP			36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
Outdoor unit			U-16ME2E8	U-18ME2E8	U-20ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8
			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	101,0	107,0	113,0	118,0	124,0	130,0	135,0
EER ¹⁾		W/W	3,42	3,42	3,34	3,69	3,62	3,62	3,52
SEER ²⁾			6,86	7,32	7,16	6,57	6,60	6,70	6,55
Current		A	47,70-45,30-43,70	50,60-48,10-46,30	54,10-51,40-49,50	52,80-50,20-48,40	56,00-53,20-51,30	59,90-56,90-54,90	63,40-60,20-58,10
Input power		kW	25,9	31,3	33,8	32,0	34,3	35,9	38,4
Heating capacity		kW	113,0	119,0	127,0	132,0	138,0	145,0	150,0
COP ¹⁾		W/W	4,14	4,13	3,92	4,49	4,50	4,46	4,42
SCOP ²⁾			4,06	4,14	4,13	4,11	4,21	4,12	4,09
Current		A	44,60-42,40-40,80	47,10-44,70-43,10	52,40-49,80-48,00	49,10-46,60-44,90	50,70-48,20-46,40	54,30-51,50-49,7	56,60-53,80-51,8
Input power		kW	27,30	28,80	32,40	29,40	30,70	32,50	33,90
Starting current		A	4,00	4,00	4,00	5,00	5,00	6,00	6,00
External static pressure [Max]		Pa	80	80	80	80	80	80	80
Air flow		m³/min	637	810	810	688	696	696	696
Sound pressure	Normal / Silent mode	dB(A)	63,5/60,5	62,5/59,5	63,0/60,0	65,0/62,0	65,5/62,5	65,5/62,5	66,0/63,0
Sound power	Normal mode	dB(A)	84,5	83,5	84,0	86,0	86,5	86,5	87,0
Dimension / Net weight	HxWxD	mm / kg	1842x2780 x1000/690	1842x3140 x1000/750	1842x3140 x1000/750	1842x3250 x1000/840	1842x3660 x1000/900	1842x3660 x1000/945	1842x3660 x1000/945
Piping diameter ³⁾	Liquid	Inch (mm)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)
	Gas	Inch (mm)	1-1/2(38,10)/ 1-5/8(41,28)	1-1/2(38,10)/ 1-5/8(41,28)	1-1/2(38,10)/ 1-5/8(41,28)	1-1/2(38,10)/ 1-5/8(41,28)	1-1/2(38,10)/ 1-5/8(41,28)	1-1/2(38,10)/ 1-5/8(41,28)	1-1/2(38,10)/ 1-5/8(41,28)
	Balance	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)
Refrigerant (R410A) / CO ₂ Eq.		kg / T	17,80/37,1664	19,00/39,672	19,00/39,672	22,20/46,3536	24,90/51,9912	24,90/51,9912	24,90/51,9912
Maximum allowable indoor / outdoor capacity ratio ⁴⁾		%	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A, Obey the limited number of connectable indoor units. B, The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C, Simultaneous operation is limited to less than 130% of connectable indoor units.

HP			50 HP	52 HP	54 HP	56 HP	58 HP	60 HP	62 HP	64 HP
			U-14ME2E8	U-16ME2E8	U-14ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8	U-14ME2E8	U-16ME2E8
Outdoor unit			U-16ME2E8	U-16ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-16ME2E8	U-16ME2E8
			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-16ME2E8	U-16ME2E8
			U-16ME2E8							
Power supply	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity	kW		140,0	145,0	151,0	156,0	162,0	168,0	174,0	180,0
EER ¹⁾	W/W		3,55	3,46	3,49	3,41	3,40	3,35	3,60	3,52
SEER ²⁾			6,96	6,72	7,16	6,92	7,30	7,16	6,68	6,55
Current	A		64,40-61,10-58,90	68,50-65,00-62,70	70,00-66,50-64,10	74,00-70,30-67,80	76,90-73,10-70,40	80,10-76,10-73,40	79,80-75,80-73,00	84,60-80,30-77,40
Input power	kW		39,40	41,90	43,30	45,80	47,60	50,10	48,30	51,20
Heating capacity	kW		155,0	160,0	169,0	175,0	182,0	189,0	195,0	201,0
COP ¹⁾	W/W		4,29	4,27	4,11	4,08	4,06	3,94	4,45	4,42
SCOP ²⁾			4,08	4,05	4,13	4,07	4,13	4,13	4,11	4,09
Current	A		59,60-56,60-54,60	61,90-58,80-56,70	67,10-63,80-61,50	70,10-66,60-64,20	73,20-69,50-67,00	77,60-73,70-71,00	73,10-69,50-67,00	76,00-72,20-69,60
Input power	kW		36,10	37,50	41,10	42,90	44,80	48,00	43,80	45,50
Starting current	A		6,00	6,00	6,00	6,00	6,00	6,00	8,00	8,00
External static pressure [Max]	Pa		80	80	80	80	80	80	80	80
Air flow	m ³ /min		869	869	1042	1042	1215	1215	928	928
Sound pressure	Normal / Silent mode	dB(A)	65,5/62,5	65,5/62,5	65,0/62,0	65,5/62,5	64,5/61,5	65,0/62,0	67,0/64,0	67,0/64,0
Sound power	Normal mode	dB(A)	86,5	86,5	86,0	86,5	85,5	86,0	88,0	88,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 4020 x 1000/1005	1842 x 4020 x 1000/1005	1842 x 4380 x 1000/1065	1842 x 4380 x 1000/1065	1842 x 4740 x 1000/1125	1842 x 4740 x 1000/1125	1842 x 4900 x 1000/1260	1842 x 4900 x 1000/1260
Piping diameter ³⁾	Liquid	Inch (mm)	3/4(19,05)/7/8(22,22)	3/4(19,05)/7/8(22,22)	3/4(19,05)/7/8(22,22)	3/4(19,05)/7/8(22,22)	3/4(19,05)/7/8(22,22)	3/4(19,05)/7/8(22,22)	3/4(19,05)/7/8(22,22)	3/4(19,05)/7/8(22,22)
	Gas	Inch (mm)	1-1/2(38,10)/1-5/8(41,28)	1-1/2(38,10)/1-5/8(41,28)	1-1/2(38,10)/1-5/8(41,28)	1-1/2(38,10)/1-5/8(41,28)	1-1/2(38,10)/1-5/8(41,28)	1-1/2(38,10)/1-5/8(41,28)	1-5/8(41,28)/1-3/4(44,45)	1-5/8(41,28)/1-3/4(44,45)
	Balance	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)
Refrigerant (R410A) / CO ₂ Eq.	kg / T		26,10/54,4968	26,10/54,4968	27,30/57,0024	27,30/57,0024	28,50/59,508	28,50/59,508	33,20/69,3216	33,20/69,3216
Maximum allowable indoor / outdoor capacity ratio ⁴⁾	%		50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

HP			66 HP	68 HP	70 HP	72 HP	74 HP	76 HP	78 HP	80 HP
			U-10ME2E8	U-12ME2E8	U-10ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8
Outdoor unit			U-16ME2E8	U-16ME2E8	U-20ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8
			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8
			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8
Power supply	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity	kW		185,0	190,0	196,0	202,0	208,0	213,0	219,0	224,0
EER ¹⁾	W/W		3,52	3,49	3,47	3,42	3,42	3,39	3,38	3,35
SEER ²⁾			6,92	6,91	7,09	6,86	7,03	7,01	7,18	7,16
Current	A		85,00-80,80-77,80	88,10-83,70-80,70	91,30-86,80-83,60	95,40-90,60-87,30	98,30-93,40-90,00	101,70-96,60-93,10	103,50-98,30-94,70	106,80-101,50-97,80
Input power	kW		52,60	54,50	56,50	59,00	60,80	62,90	64,70	66,80
Heating capacity	kW		207,0	213,0	219,0	226,0	233,0	239,0	245,0	252,0
COP ¹⁾	W/W		4,16	4,18	4,05	4,14	4,12	4,03	4,03	3,94
SCOP ²⁾			4,11	4,17	4,13	4,06	4,12	4,07	4,13	4,13
Current	A		81,20-77,10-74,30	83,30-79,20-76,30	87,40-83,10-80,10	89,20-84,70-81,70	92,30-87,70-84,50	96,90-92,00-88,70	98,30-93,40-90,00	103,40-98,30-94,70
Input power	kW		49,70	51,00	54,10	54,60	56,50	59,30	60,80	64,00
Starting current	A		7,00	7,00	7,00	8,00	8,00	8,00	8,00	8,00
External static pressure [Max]	Pa		80	80	80	80	80	80	80	80
Air flow	m ³ /min		1266	1274	1439	1274	1447	1447	1620	1620
Sound pressure	Normal / Silent mode	dB(A)	66,0/63,0	66,5/63,5	65,5/62,5	66,5/63,5	66,5/63,5	66,5/63,5	66,0/63,0	66,0/63,0
Sound power	Normal mode	dB(A)	87,0	87,5	86,5	87,5	87,5	87,5	87,0	87,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 5210 x 1000/1275	1842 x 5620 x 1000/1335	1842 x 5570 x 1000/1335	1842 x 5620 x 1000/1380	1842 x 5980 x 1000/1440	1842 x 5980 x 1000/1440	1842 x 6340 x 1000/1500	1842 x 6340 x 1000/1500
Piping diameter ³⁾	Liquid	Inch (mm)	3/4(19,05)/7/8(22,22)	7/8(22,22)/1(25,04)	7/8(22,22)/1(25,04)	7/8(22,22)/1(25,04)	7/8(22,22)/1(25,04)	7/8(22,22)/1(25,04)	7/8(22,22)/1(25,04)	7/8(22,22)/1(25,04)
	Gas	Inch (mm)	1-5/8(41,28)/1-3/4(44,45)	1-5/8(41,28)/1-3/4(44,45)	1-5/8(41,28)/1-3/4(44,45)	1-3/4(44,45)/2(50,80)	1-3/4(44,45)/2(50,80)	1-3/4(44,45)/2(50,80)	1-3/4(44,45)/2(50,80)	1-3/4(44,45)/2(50,80)
	Balance	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)
Refrigerant (R410A) / CO ₂ Eq.	kg / T		32,90/68,6952	35,60/74,3328	34,10/19,836	35,80/68,6952	36,80/76,8384	36,80/76,8384	38,00/79,344	38,00/79,344
Maximum allowable indoor / outdoor capacity ratio ⁴⁾	%		50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)	50 ~ 130(200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

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.ptc.panasonic.eu.

ECOi and ECO G indoor units range

Indoor units	1,0 kW	1,5 kW	2,2 kW	2,8 kW	3,6 kW	4,5 kW	5,6 kW
U2 type 4 way 90x90 cassette - R32 / R410A			 S-22MU2E5C	 S-28MU2E5C	 S-36MU2E5C	 S-45MU2E5C	 S-56MU2E5C
Y3 type 4 way 60x60 cassette - R32 / R410A	 S-15MY3EB	 S-22MY3EB	 S-28MY3EB	 S-36MY3EB	 S-45MY3EB	 S-56MY3EB	
L1 type 2 way cassette - R410A			 S-22ML1E5	 S-28ML1E5	 S-36ML1E5	 S-45ML1E5	 S-56ML1E5
D1 type 1 way cassette - R410A				 S-28MD1E5	 S-36MD1E5	 S-45MD1E5	 S-56MD1E5
F3 type variable static pressure adaptive duct - R32 / R410A		 S-15MF3E5D	 S-22MF3E5D	 S-28MF3E5D	 S-36MF3E5D	 S-45MF3E5D	 S-56MF3E5D
NEW M2 type slim variable static pressure hide-away - R32 / R410A	 S-10MM2EB	 S-15MM2EB	 S-22MM2EB	 S-28MM2EB	 S-36MM2EB	 S-45MM2EB	 S-56MM2EB
E2 type high static pressure hide-away - R410A							
NEW K3 type wall-mounted - R32 / R410A		 S-15MK3E	 S-22MK3E	 S-28MK3E	 S-36MK3E	 S-45MK3E	 S-56MK3E
T2 type ceiling - R410A					 S-36MT2E5A	 S-45MT2E5A	 S-56MT2E5A
G1 type floor console - R410A			 S-22MG1E5N	 S-28MG1E5N	 S-36MG1E5N	 S-45MG1E5N	 S-56MG1E5N
P1 type floor-standing - R410A			 S-22MP1E5	 S-28MP1E5	 S-36MP1E5	 S-45MP1E5	 S-56MP1E5
R1 type concealed floor-standing - R410A			 S-22MR1E5	 S-28MR1E5	 S-36MR1E5	 S-45MR1E5	 S-56MR1E5
Hydrokit for ECOi, water at 45 °C - R410A							
NEW HT Booster for ECOi EX Series, water at 70 °C - R410A							
Energy recovery ventilation with DX coil - HRPT Series - R32 / R410A			 PAW-HRPT40HX PAW-HRPT40 (2,5 kW)			 PAW-HRPT80HX PAW-HRPT80 (5 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-60MU2E5C



S-73MU2E5C



S-90MU2E5C



S-112MU2E5C



S-140MU2E5C



S-160MU2E5C

A new panel in graphite black (RAL9011) is available.



S-73ML1E5



S-73MD1E5



S-60MF3E5D



S-73MF3E5D



S-90MF3E5D



S-112MF3E5D



S-140MF3E5D



S-160MF3E5D



S-224ME2E5



S-280ME2E5



S-73MK3E



S-106MK3E



S-73MT2E5A



S-106MT2E5A



S-140MT2E5A



S-71MP1E5



S-71MR1E5



S-80MW1E5



S-125MW1E5

P-250WXHT1E5
(25,0 kW)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.

White and graphite black panels now available for the 4 way 90x90 cassette, offering versatile options for commercial applications.



Standard panel, white (RAL9003).
CZ-KPU3



Standard panel, graphite black (RAL9011).
CZ-KPU3B

Econavi panel, white (RAL9003).
CZ-KPU3A



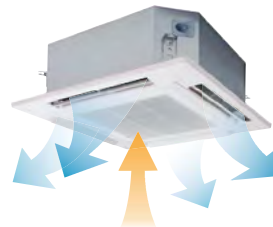
Always fresh and clean air with nanoe™ X

The 4 way 90x90 cassette with nanoe™ X, when tested, has shown to inhibit hazardous substances by 92%, when compared to natural reduction*.

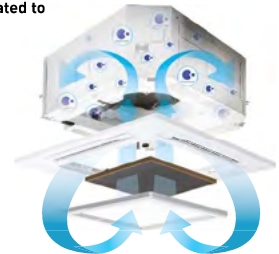
In addition to the 7 effects of nanoe™ X, the indoor unit can also be cleaned with a short operation of nanoe™ X and dry operation.

* 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.



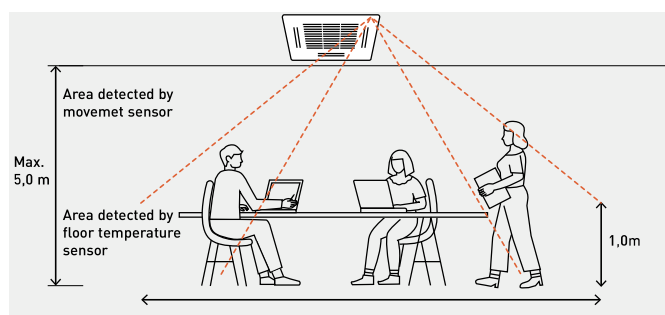
Operates the fan to discharge internal humidity.



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.

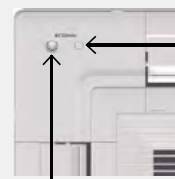


Advanced Econavi functions.

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-KPU3A).



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

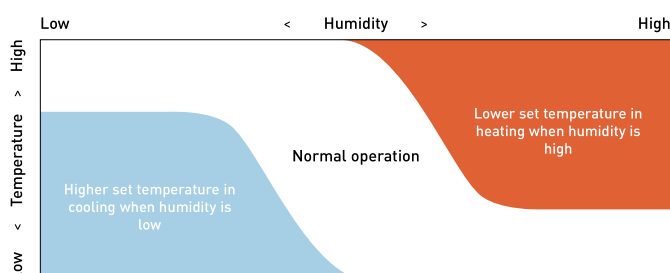
Movement sensor.
This sensor detects the amount of human activity, and operates effectively.



Wired remote controller CZ-RTC5B, CZ-RTC6W/BL or CZ-RTC6/BL is required.

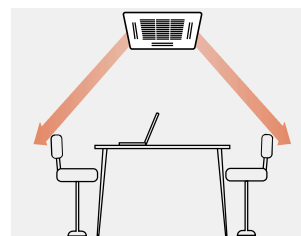
Humidity sensor.

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

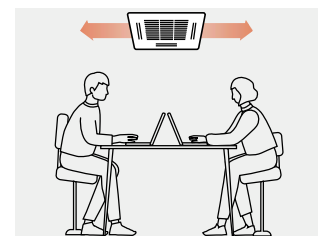


Group control, circulation function.

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.



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

Panels (sold separately):

Standard, white
(RAL9003).
CZ-KPU3

Econavi, white
(RAL9003).
CZ-KPU3A

Standard, graphite
black (RAL9011).
CZ-KPU3B



nanoe™ X as a standard.

Indoor unit. S-***MU2E5C		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/ Med/ Lo	m³/min	12,8/12,1/ 11,5	12,8/12,1/ 11,5	14,5/13,0/ 11,5	15,5/13,0/ 11,5	16,5/13,5/ 11,5	21,0/16,0/ 13,0	22,5/16,0/ 13,0	23,0/18,5/ 14,0	36,0/26,0/ 20,0	37,0/28,0/ 24,0
Sound pressure		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	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	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	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
Net weight (Panel)	kg		20 (5)	20 (5)	20 (5)	20 (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)
	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)	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) ¹⁾	3/8 (9,52) ¹⁾	3/8 (9,52) ¹⁾	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) ¹⁾	5/8 (15,88) ¹⁾	5/8 (15,88) ¹⁾	5/8 (15,88)	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. * Above values are in the case of nanoe™ X OFF.

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-RWRU3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black

Accessories

PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-KPU3	Standard panel, white (RAL9003)
CZ-KPU3B	Standard panel, graphite black (RAL9011)
CZ-KPU3A	Econavi exclusive panel, white (RAL9003)
CZ-CENSC1	Econavi energy saving sensor
CZ-FDU3+CZ-ATU2	Fresh air-intake kit
CZ-CGLSC2	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™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ 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)
- **New** graphite black and white panels providing options to suit a variety of light commercial applications

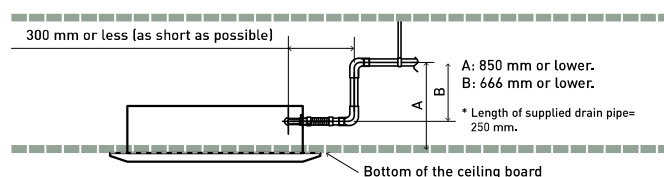
Panel design

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

- 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 or 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



nanoe™ X as a standard.

Indoor unit			S-15MY3EB	S-22MY3EB	S-28MY3EB	S-36MY3EB	S-45MY3EB	S-56MY3EB
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	54/49/45	57/52/48
Dimension (H x W x D) ¹⁾	Indoor	mm	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575
	Panel	mm	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625
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	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRY3	Infrared remote controller and receiver

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
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
CZ-CGLSC2	Panasonic R32 refrigerant leak detector
CZ-KPY4	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 and dry operation

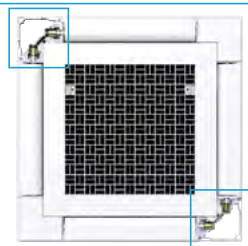
Compact and stylish design

- Required ceiling depth of only 250 mm ¹⁾
- 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 air flow, to reduce the feeling of cold drafts.



Internal cleaning function

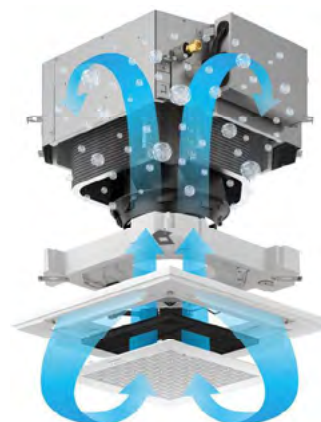
When cooling or dry operation stopped, internal drying and nanoe™ X circulation air flow is activated in order to suppress the mould proliferation inside the unit (air flow passage, fan, heat exchanger)*.

* Depending on the installation environment or operating hours, mould proliferation or inhabitation 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	m³/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 (HxWxD)	Indoor	mm	350x840x600	350x840x600	350x840x600	350x840x600	350x840x600	350x1140x600
	Panel	mm	8x1060x680	8x1060x680	8x1060x680	8x1060x680	8x1060x680	8x1360x680
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

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-RWRL3	Infrared remote controller and receiver

Accessories

PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
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-02KPL2	Panel for S-22 to S-56 models
CZ-03KPL2	Panel for S-73 model

Technical focus

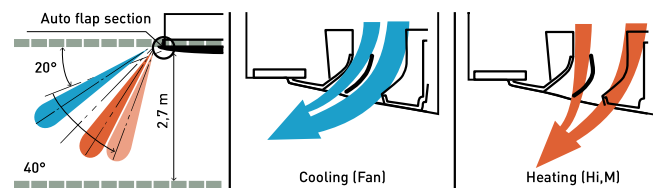
- Air flow and distribution is automatically altered depending on the operational mode of the unit
- Drain pump provides up to 500 mm lift height
- Simplified maintenance

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.

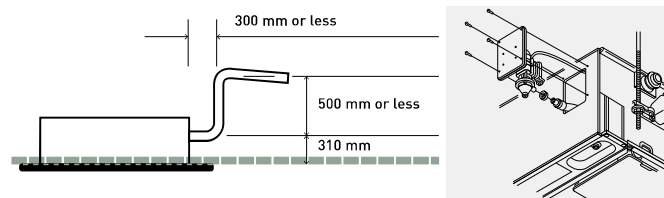
Auto flap control

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 or 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	m³/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

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-RWRD3	Infrared remote controller and receiver

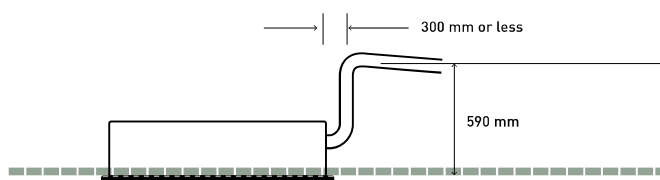
Accessories

PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
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-KPD2	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

Indoor unit. S-***MF3E5D		15	22	28	36	45	56	60	73	90	112	140	160
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 ¹⁾		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 ²⁾	Hi/ Med/ Lo	m ³ /min	12,8/11,0/ 8,0	12,8/11,0/ 8,0	12,8/11,0/ 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 (H x W x D)		mm	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	26	26	26	26	26	26	31	31	31	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)	1/4(6,35)	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)	1/2(12,70)	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)	5/8(15,88)	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-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-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	BION air pollutant filter for MF3 15, 22, 28, 36, 45 and 56
PAW-APF1000F	BION air pollutant filter for MF3 60 and 73
PAW-APF1400F	BION air pollutant filter for MF3 90, 112, 140 and 160
CZ-CGLALC1	R32 refrigerant leak alarm

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 ¹⁾
- Improved drain pan suitable for both horizontal / vertical installation
- Drain pump included ²⁾
- 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 ³⁾
- BION air pollutant filter for certain types of pollutants, such as nitrogen dioxide (NO₂), nitrogen oxides (NO_x) and Ozone (O₃) (optional)

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

Vertical Installation

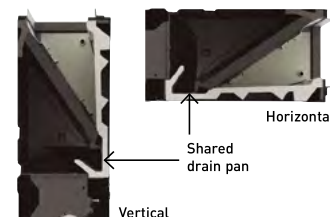
Vertical installation option. Variable external static pressure to support ducted installations with bends.

* 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.ptc.panasonic.eu.

NEW M2 type slim variable static pressure hide-away concealed duct • R32 / R410A

Upgraded nanoe™ X (Generator Mark 3).

Ultra-slim profile: 200 mm for all capacities.

Ideal for hotel application with very narrow false ceilings.

New
2025



nanoe™ X as a standard.

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

Indoor unit		S-10MM2EB	S-15MM2EB	S-22MM2EB	S-28MM2EB	S-36MM2EB	S-45MM2EB	S-56MM2EB
Cooling capacity	kW	1,0	1,5	2,2	2,8	3,6	4,5	5,6
Input power	W	12,00	19,00	25,00	29,00	32,00	39,00	54,00
Current	A	0,25	0,30	0,33	0,35	0,36	0,44	0,51
Heating capacity	kW	1,3	1,7	2,5	3,2	4,2	5,0	6,3
Input power	W	12,00	19,00	25,00	29,00	32,00	39,00	54,00
Current	A	0,25	0,30	0,33	0,35	0,36	0,44	0,51
Fan type		Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi/Med/Lo	m³/min	4,5/4,3/4,1	6,8/6,2/5,0	8,0/7,0/5,0	8,5/7,5/6,5	9,0/8,0/7,0	13,0/11,0/10,5
External static pressure		Pa	10(30)	10(30)	10(30)	15(30)	15(40)	15(40)
Sound pressure	Hi/Med/Lo ¹⁾	dB(A)	22/21/20	24/23/20	26/25/20	27/26/23	28/26/23	30/27/26
Sound power	Hi/Med/Lo	dB(A)	37/36/35	39/38/35	41/40/35	42/41/38	43/41/38	45/42/41
Dimension	HxWxD	mm	200x700x450	200x700x450	200x700x450	200x700x450	200x900x450	200x900x450
Net weight		kg	17	17	17	17	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	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function

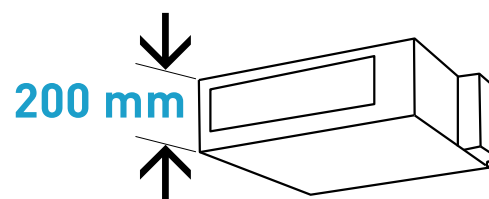
Accessories	
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor
CZ-CGLALC1	R32 refrigerant leak alarm

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

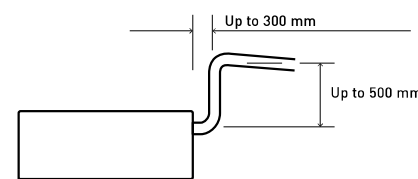
In addition, its high-efficiency and extremely quiet sound levels make it very popular with many users, including hotels and small offices.

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 ³ /min		m ³ /min		m ³ /min		m ³ /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] ¹⁾		140 [72 - 270] ¹⁾	
Sound pressure ²⁾	Hi/Med/Lo	dB(A)		dB(A)		dB(A)		dB(A)	
		43 / — / —		44 / — / —		45 / 43 / 41		49 / 47 / 43	
Sound power	Hi/Med/Lo	dB(A)		dB(A)		dB(A)		dB(A)	
		75 / — / —		76 / — / —		77 / 75 / 73		81 / 79 / 75	
Dimension	H x W x D	mm		mm		mm		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 [9,52]	Inch (mm)	3/8 [9,52]	Inch (mm)	3/8 [9,52]	Inch (mm)	3/8 [9,52]
	Gas	Inch (mm)	3/4 [19,05]	Inch (mm)	7/8 [22,22]	Inch (mm)	3/4 [19,05]	Inch (mm)	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	
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

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
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

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.

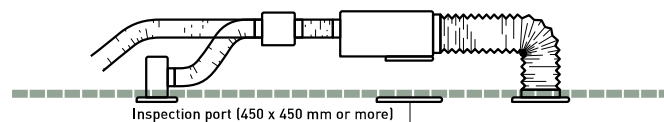
100% fresh air duct function

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	
2x CZ-P160RVK2	Rap valve kit	2x CZ-P160HR3	3 way valve kit
2x CZ-CAPE2	3 way control PCB	2x CZ-CAPE2	3 way control PCB
CZ-P680BK2BM	Distribution joint kit	CZ-P680BH2BM	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 or www.ptc.panasonic.eu.

NEW K3 type wall-mounted • R32 / R410A

Equipped with the upgraded nanoe™ X (Generator Mark 3) for improved indoor air quality.

It's modern, flat design with a stylish matte white finish complements any interior, while improved fan serviceability ensures effortless maintenance.

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

New 2025

nanoe™ X
nanoe™ X as a standard.

Indoor unit			S-15MK3E	S-22MK3E	S-28MK3E	S-36MK3E	S-45MK3E	S-56MK3E	S-73MK3E	S-106MK3E
Cooling capacity	kW		1,5	2,2	2,8	3,6	4,5	5,6	7,3	10,6
Input power	W		15,00	18,00	19,00	20,00	25,00	40,00	55,00	80,00
Current	A		0,18	0,19	0,20	0,22	0,25	0,35	0,50	0,70
Heating capacity	kW		1,7	2,5	3,2	4,2	5,0	6,3	8,0	10,6
Input power	W		15,00	18,00	19,00	20,00	25,00	40,00	55,00	80,00
Current	A		0,18	0,19	0,20	0,22	0,25	0,35	0,50	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)	m³/min	6,8/6,3/5,5	9,0/8,0/7,0	9,5/8,5/7,0	10,5/9,0/7,5	11,5/10,0/7,5	15,0/14,0/13,0	19,0/17,0/14,0	22,0/18,0/14,0
	Heat (Hi/Med/Lo)	m³/min	6,8/6,3/5,5	9,0/8,0/7,0	10,0/8,5/7,0	10,5/9,0/7,5	11,5/10,0/7,5	15,0/14,0/13,0	19,0/17,0/14,0	22,0/18,0/14,0
Sound pressure	Hi/Med/Lo	dB(A)	31/29/28	32/30/29	33/31/29	35/32/29	38/33/29	40/38/35	47/44/40	50/45/40
Sound power	Hi/Med/Lo	dB(A)	46/44/43	47/45/44	48/46/44	50/47/44	53/48/44	55/53/50	62/59/55	65/60/55
Dimension	H x W x D	mm	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249
Net weight	kg		12	12	12	12	12	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)	1/4 (6,35)	3/8 (9,52) ¹⁾	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) ¹⁾	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. * Available in summer 2025.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RW53	Infrared remote controller

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
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
CZ-P73SVK3	External valve for model sizes 15 to 73*
CZ-P106SVK3	External valve for model size 106
CZ-CGLSC2	Panasonic R32 refrigerant leak detector

Technical focus

- Modern, flat design with a stylish matte white finish
- Quiet operation
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard
- Easy fan, front grill, and blow-off grill removal for easy maintenance
- Efficient installation with drain hose support holders and lock mechanism
- Piping outlet in six directions
- Air distribution is automatically altered depending on the operational mode

External valve (optional)

CZ-P73SVK3 (model sizes 15 to 73*).

CZ-P106SVK3 (model size 106).

* A 3/8" to 1/4" reducer is required when combining the S-73MK3E with ECOi EX R410A outdoor units (ME2 and MF3).

**Efficient installation with drain hose support holders and lock mechanism****Easy connection and disconnection of the drain hose.**

Locking mechanism between the drain tray and hose ensures a tight connection during installation and easy dismantling.

**Built-in support holders for secure spacing.**

Holds the indoor unit against the wall, providing clear access for setting up the drain hose and piping.



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.ptc.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	m³/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

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-RWRT3	Infrared remote controller and receiver

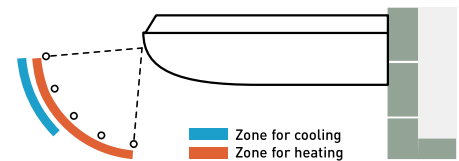
Accessories

PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
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

Technical focus

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

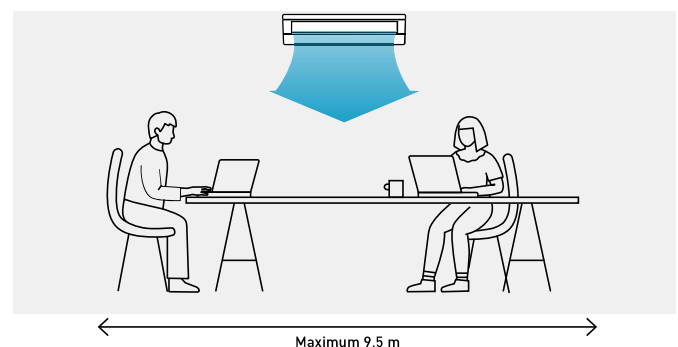
Air distribution is altered depending on the operational mode



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.

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)	m³/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)	m³/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

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*	Infrared remote controller

Accessories

PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
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

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.



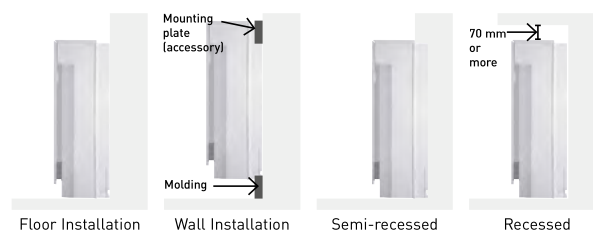
Dimension:
W x H x D = 750 x 600 x 207 mm

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.

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.ptc.panasonic.eu.

P1 type floor-standing • R410A

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

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

P1 indoor unit			S-22MP1E5	S-28MP1E5	S-36MP1E5	S-45MP1E5	S-56MP1E5	S-71MP1E5
R1 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	m³/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
P1 dimension	HxWxD	mm	615x1065x230	615x1065x230	615x1065x230	615x1380x230	615x1380x230	615x1380x230
P1 net weight		kg	29	29	29	39	39	39
R1 dimension	HxWxD	mm	616x904x229	616x904x229	616x904x229	616x1219x229	616x1219x229	616x1219x229
R1 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

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

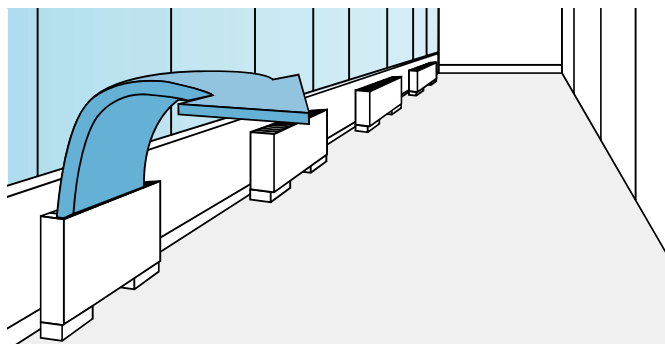
Accessories

CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
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

P1 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 air flow
- Room for condensate pump

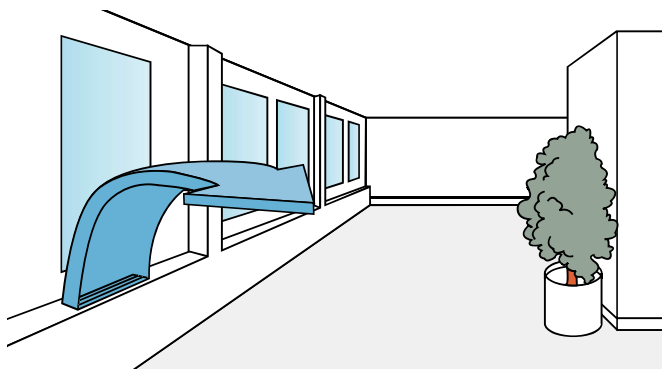
Effective perimeter handling



R1 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.

New HT Booster for ECOi EX Series

Hydraulic module solution for high-temperature heating applications, ideal for boiler replacements.



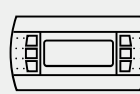
Maximum water outlet temperature of 70 °C.



R290 cascade system for high-temperature hot water.



Priority mode selectable for hot water or space heating.



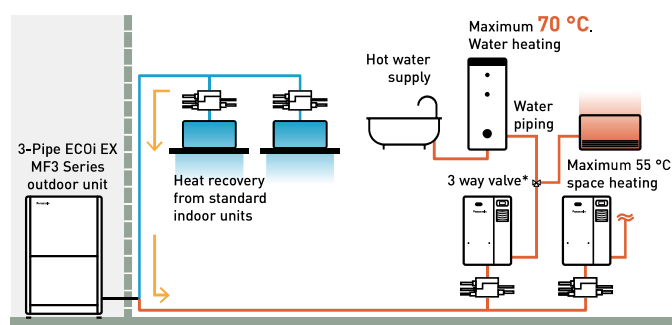
Smart logic built-in controller.



Direct BMS integration.

Overview: HT Booster in VRF system

- Multiple HT Boosters can be connected within the same system circuit
- Hot water or space heating mode can be set via HT Booster
- A 3 way water valve (field supplied) is required for the HT Booster if both DHW and space heating are needed. For DHW or space heating alone, no valve is required
- A 3-Pipe control solenoid valve kit is required for each indoor unit and HT Booster in the case of 3-Pipe ECOi EX system



* Field supplied.

NEW HT Booster for ECOi EX Series, water at 70 °C · R410A

Contributes to building decarbonisation through heat recovery operation.

New
2025



Indoor unit		P-250WXHT1E5	
Power supply	Voltage	V	400
	Phase		Three phase
	Frequency	Hz	50
	Maximum amperage	A	28
Heating capacity		kW	25,0 ¹⁾
Maximum temperature		°C	70
Dimension	H x W x D	mm	925 x 640 x 445
Water pipe connector		Inch	R 1 ½
Water pump (built-in)			Modulating / EC motor
Water flow rate	Nominal	L/min	73
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)
Indoor operating range	Ambient	°C	+5 ~ +40
	Water	°C	+35 ~ +70
Outdoor operating range	Ambient	°C	-25 ~ +52 ²⁾
Connectable system		2-Pipe ECOi EX ME2 R410A 3-Pipe ECOi EX MF3 R410A (heat recovery type)	
Maximum Indoor ratio (connectable hydrokit module capacity ratio)		Total indoor unit + HT Booster capacity: up to 130%	

1) 25 kW heating capacity at 50 °C temperature, 20 kW heating capacity at 70 °C temperature, 2) Minimum operating temperature of -25 °C is considering connection with 2-Pipe ECOi EX ME2 or MF3. For Mini ECOi or 3-Pipe ECOi EX MF3 the minimum operating range is -20 °C. For 3-Pipe ECOi EX operation, the available heating range is -25 °C to +24 °C, varying depending on the outdoor unit type.

* Available in Autumn 2025.

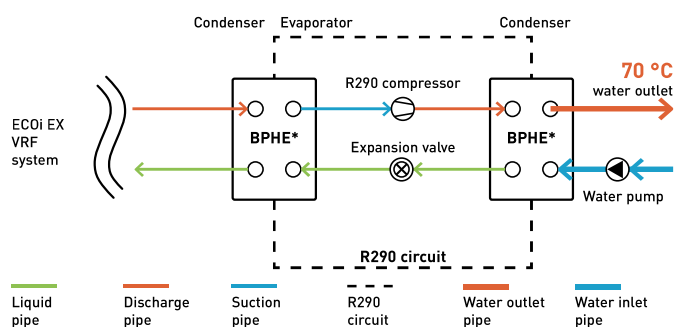
Technical focus

- Maximum water outlet temperature of 70 °C
- Cascade circuit system using R290 refrigerant for efficient high-temperature hot water production
- High-volume flow ensures rapid recovery and flexible installation options
- Integrated pump simplifies installation
- Built-in R290 sensor and safety ventilation compliant with IEC 60335-2-40 edition 7
- Built-in remote controller designed for straightforward programming and enhanced customisation
- Direct Modbus communication without requiring an additional interface
- Optimised control prioritising energy-saving performance, including heat recovery operation with the 3-Pipe ECOi EX outdoor unit
- Compatible with ECOi EX Series 2-Pipe (ME2) and 3-Pipe (MF3)
- Operates in ambient temperatures as low as -25 °C for heating and up to +52 °C for cooling with 2-Pipe ECOi EX outdoor unit.

How the HT Booster works

Optimised cascade circuit system with R290 refrigerant efficiently delivers high-temperature hot water up to 70 °C, ensuring energy-saving performance and sustainability.

Boosts hot water up to 70 °C



* BPHE: Brazed plate heat exchanger.

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.ptc.panasonic.eu.

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.



Built-in controller.



PAW-P+100MAH4M			6 HP	12 HP	16 HP	18 HP	20 HP	22 HP	24 HP	34 HP ¹⁾
Cooling capacity	Nominal	kW	16,0	33,5	45,0	50,0	56,0	61,5	68,0	96,0
Heating capacity	Nominal	kW	17,0	37,5	50,0	56,0	63,0	69,0	76,5	108,0
Air flow	Min / Max	m ³ /h	1800 / 4400	2000 / 10000	3500 / 12000	5000 / 20000	5000 / 20000	5000 / 20000	6000 / 24000	8500 / 32000
Dimension	H x W x D	mm	300 x 400 x 150	300 x 400 x 150	300 x 400 x 150	300 x 400 x 150	300 x 400 x 150	300 x 400 x 150	300 x 400 x 150	300 x 400 x 150
Weight		kg	11	11	11	11	11	11	11	11
Pipe length range		m	10 ~ 100	10 ~ 100	10 ~ 100	10 ~ 100	10 ~ 100	10 ~ 100	10 ~ 100	10 ~ 100
Elevation difference (in / out)		m	10	10	10	10	10	10	10	10
Piping diameter ≤ 90 m	Liquid	Inch (mm)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)
	Gas	Inch (mm)	5/8 (15,88)	1 (25,40)	1 1/8 (28,57)	1 1/8 (28,57)	1 1/8 (28,57)	1 1/8 (28,57)	1 1/8 (28,57)	1 1/4 (31,75)
Piping diameter > 90 m ²⁾	Liquid	Inch (mm)	—	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)	3/4 (19,05)	3/4 (19,05)	3/4 (19,05)	7/8 (22,22)
	Gas	Inch (mm)	—	1 1/8 (28,57)	1 1/4 (31,75)	1-1/4 (31,75)	1 1/4 (31,75)	1 1/4 (31,75)	1 1/4 (31,75)	1 1/2 (38,10)

1) High-efficiency combination: U-10ME2E8 + 2xU-12ME2E8. 2) For R410A models only.

AHU connection kit / system combination				
Cooling capacity	Mini VRF		2-Pipe VRF	AHU connection kit
	Mini ECOi LZ2 Series (R32)	Mini ECOi LE Series (R410A)	ECOi EX ME2 Series	
4 ~ 6 HP	U-4LZ2E5(8) / U-5LZ2E5(8) / U-6LZ2E5(8)	U-4LE2E5(8) / U-5LE2E5(8) / U-6LE2E5(8)	—	PAW-P+100MAH4M
8 ~ 12 HP	U-8LZ2E8 / U-10LZ2E8	U-8LE1E8 / U-10LE1E8	U-8ME2E8 / U-10ME2E8 / U-12ME2E8	PAW-P+100MAH4M
14 ~ 18 HP	—	—	U-14ME2E8 / U-16ME2E8 / U-18ME2E8	PAW-P+100MAH4M
20 ~ 22 HP	—	—	20 HP (2xU-10ME2E8) 22 HP (U-10ME2E8 + U-12ME2E8)	PAW-P+100MAH4M
24 ~ 34 HP	—	—	24 HP (2xU-12ME2E8) 34 HP*	PAW-P+100MAH4M

* Multiple combinations available.

Accessories	
PAW-P+102SENSPACK	AHU connection kit sensor pack 1 (2 pcs of SENSOR PT1000 HT IP67 -50/250 CABLE 6 m PCK)
PAW-P+116EEVPACK	EEV pack 1 (1 pc of expansion valve ≤ 16,0 kW [R410A / R32] and 1 pc of UNIPOLAR stator)
PAW-P+133EEVPACK	EEV pack 2 (1 pc of expansion valve ≤ 33,0 kW [R410A / R32] and 1 pc of UNIPOLAR stator)
PAW-P+145EEVPACK	EEV pack 3 (1 pc of expansion valve ≤ 45,0 kW [R410A / R32] and 1 pc of UNIPOLAR stator)

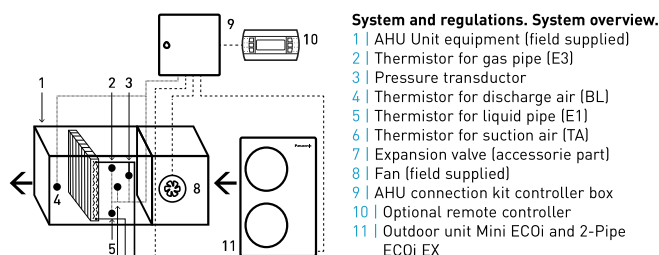
Accessories	
PAW-P+156EEVPACK	EEV pack 4 (1 pc of expansion valve ≤ 61,5 kW [R410A / R32] and 1 pc of UNIPOLAR stator)
PAW-P+174EEVPACK	EEV pack 5 (1 pc of expansion valve ≤ 96,0 kW [R410A / R32] and 1 pc of UNIPOLAR stator)
PAW-P+100PGNEPACK	Remote control pack (1 pc of PGNE 132 x 64 mm, mounting panel and 1 pc of cable L= 1,5 m, telephone connectors)

Technical focus

- Maximum capacity / system: 34 HP (96 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.



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



ECO i EX / ECO i / ECO G

		5 HP	10 HP	20 HP	30 HP	40 HP	50 HP	60 HP	70 HP	80 HP
Model	PAW-	160MAH3M	280MAH3M	560MAH3M	280MAH3M 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	1140/2598	3498/4998	7002/10002	10500/15000	13998/19998	17496/24996	21000/30000	35000/24000	40000/28000
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)	7/8(22,22)	7/8(22,22)
	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 5/8(41,28)	1 3/4(44,45)
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

* The value applies to one unit of the AHU connection kit.

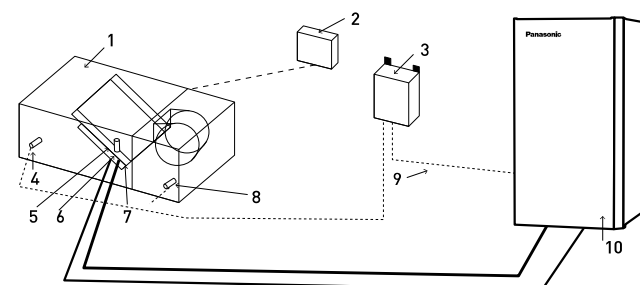
AHU connection kit / system combination							
Capacity	ECOi Series			AHU kit			
5 HP 16 kW	Mini ECOi / ECOi EX ME2 Series			160MAH3M	—	—	—
10 HP 28 kW	U-8LZ2E8/U-10LZ2E8/ U-8LE1E8/U-10LE1E8/ U-10ME2E8			280MAH3M	—	—	—
20 HP 56 kW	U-20ME2E8			560MAH3M	—	—	—
30 HP 84 kW	U-16ME2E8	U-14ME2E8	—	560MAH3M	280MAH3M	—	—
40 HP 112 kW	U-20ME2E8	U-20ME2E8	—	560MAH3M	560MAH3M	—	—
50 HP 140 kW	U-18ME2E8	U-16ME2E8	U-16ME2E8	560MAH3M	560MAH3M	280MAH3M	—
60 HP 168 kW	U-20ME2E8	U-20ME2E8	U-20ME2E8	560MAH3M	560MAH3M	560MAH3M	—
70 HP 196 kW	U-20ME2E8	U-20ME2E8	U-20ME2E8	560MAH3M	560MAH3M	560MAH3M	280MAH3M
80 HP 224 kW	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.



Advanced energy recovery ventilation - ZY Series

- Extended 9 model line-up including 2000 m³/h model
- DC motors
- ESP up to 150 Pa
- F7 grade filter built-in as a standard
- Intuitive remote controller
- BMS integration with RS485



Rated flow rate			150 m ³ /h	250 m ³ /h	350 m ³ /h	500 m ³ /h	650 m ³ /h	800 m ³ /h	1000 m ³ /h	1500 m ³ /h	2000 m ³ /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
ERV											
Air flow	Max	m ³ /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 ²⁾	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
Heat exchange efficiency ³⁾											
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
Enthalpy exchange efficiency											
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	
FV-FP15ZY1G	Replacement high efficiency filter for FV-15ZY1G
FV-FP25ZY1G	Replacement high efficiency filter for FV-25ZY1G
FV-FP35ZY1G	Replacement high efficiency filter for FV-35ZY1G
FV-FP50ZY1G	Replacement high efficiency filter for FV-50ZY1G

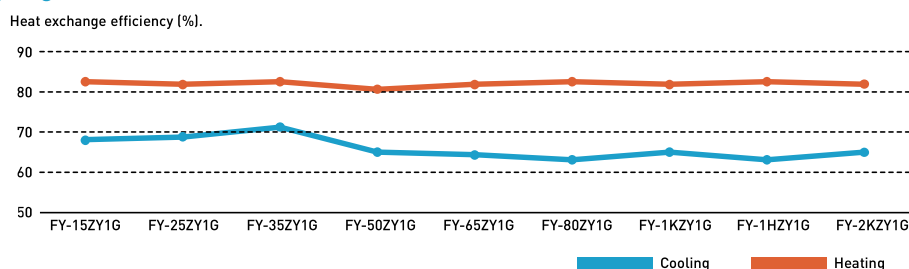
Accessories	
FV-FP65ZY1G	Replacement high efficiency filter for FV-65ZY1G
FV-FP80ZY1G	Replacement high efficiency filter for FV-80ZY1G and FV-1HZY1G ¹⁾
FV-FP1KZY1G	Replacement high efficiency filter for FV-1KZY1G and FV-2KZY1G ¹⁾
PAW-ERV-IAQCT	IAQ Controller

1) 2 sets of filters required for those models.

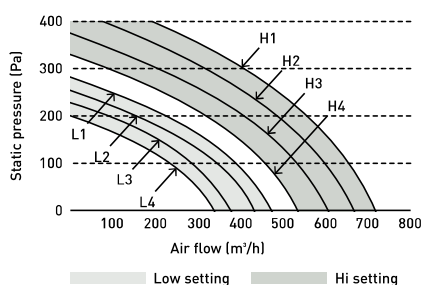
Recovers up to 83% of the heat in the outgoing air

ZY Series achieves more than 80% of heat exchange efficiency in all the line-up ¹⁾. The high recovery rate optimizes operation cost and can be considered as a sustainable solution.

1) Heating operation, H1 speed setting.



Ventilation volume setting PQ curve example.



Easy adjust for air volume balance

DC motors are equipped with independent control settings for air supply and exhaust. Air volume balance can be easily adjusted with 4 speeds settings for each Hi / Low operation.

Intuitive remote controller with RS485 connection.

- Simple and clean screen with white back light panel
- RS485 terminal equipped to integrate with Building Management Systems
- Metal switch box is included in the package



Energy recovery ventilation with DX coil - HRPT Series - R32 / R410A

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



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	
Heat recovery ventilation ¹⁾			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Temperature efficiency		%	63,4	76,7	60,0	73,5	61,4	75,0	62,2	76,0	59,4	73,2
Enthalpy efficiency		%	52,3	53,2	47,8	49,2	49,5	50,7	50,0	51,2	46,8	48,3
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	
Heat recovery ventilation ¹⁾			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Temperature efficiency		%	84,6	84,9	84,3	84,7	84,8	85,2	84,7	85,1	83,8	84,2
Weight		kg	67		117		132		147		177	

Common data												
DX coil ²⁾			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Total / Sensible capacity	kW		3,0 / 2,4	3,2	6,0 / 4,1	6,2	8,0 / 5,5	8,3	10,0 / 7,1	11,0	12,5 / 8,6	12,8
Maximum input current	A		1,5		2,2		4,1		4,4		3,3	
Sound pressure @1 m / @3 m	dB(A)		41 / 35		51 / 43		42 / 36		49 / 41		57 / 49	
Air flow	High	m³/h	480		800		1100		1500		1750	
External static pressure	High	Pa	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	
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)	
	Gas	Inch (mm)	1/2 (12,70)		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. 2) Data refers to the following conditions: nominal air flow, cooling inlet coil summer 27 °C with 48% / heating inlet coil winter 20 °C with 50% r. * Image is for PAW-HRPT40.

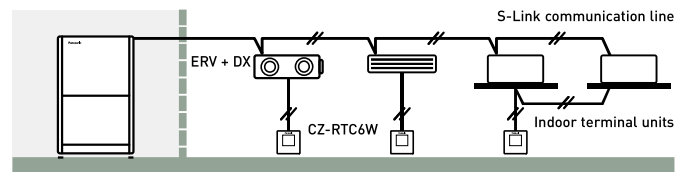
Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi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

Accessories	
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
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

Technical focus

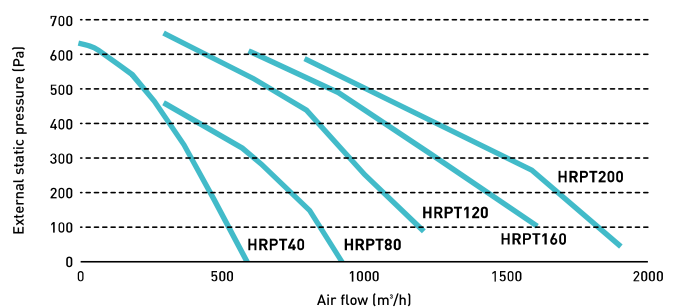
- Dual flow ventilation with EC fan, featuring high efficiency heat recovery (>85% η)
- 5 model line-up is available with air flow rates of 480, 800, 1100, 1500 and 1750 m³/h
- 2 types of polystyrene heat exchanger (high efficiency and sensible) with counter-current flows and integrated bypass as standard
- 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.



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.ptc.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	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 ¹⁾	Max	kW	6,1	9,7	13,0	17,0
Heating capacity ²⁾	Max	kW	7,9	12,0	15,0	19,0
Air flow	High	m³/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 ³⁾	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 ¹⁾	Max	kW	9,1	13,0	19,5	23,7
Heating capacity ²⁾	Max	kW	11,8	15,8	23,6	27,6
Air flow	High	m³/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 ³⁾	Max	dB(A)	66	67	68	68
Common data						
Dimension ⁴⁾	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

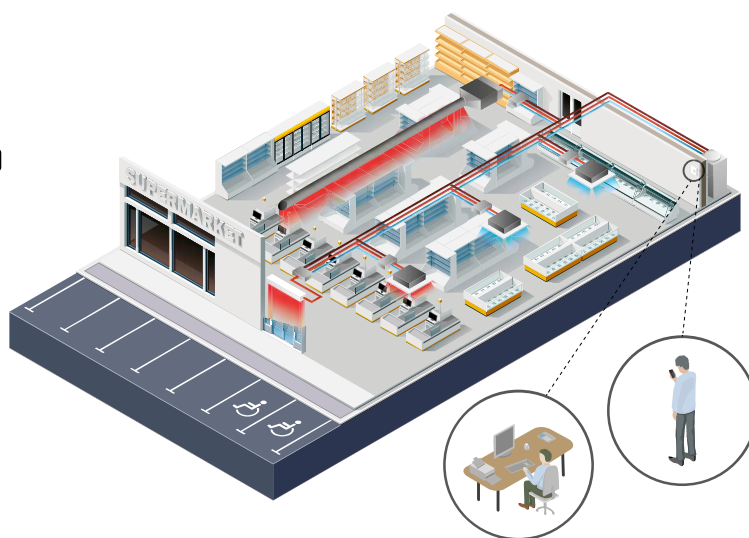
1) Cooling capacity DX coil, air temperature in / out +27 / +18 °C, R32 and R410. 2) Heating capacity condenser, air temperature in / out +20 / +33 °C, R32 and R410. In the case of lower outdoor temperatures, an outdoor model with higher capacity may be necessary. 3) Measured in distance up to 5,0 m, direction factor 2, absorbing surfaces 200 m², 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.



Rating Conditions: Cooling Outdoor +35 °C DB Indoor +27 °C DB / +19 °C WB, Discharge temperature 16 °C. All combinations under rated conditions: Heating Outdoor +7 °C DB/+6 °C WB Indoor +20 °C DB. In case of lower outdoor temperatures a higher capacity outdoor unit model may be necessary. Specifications subject to change without notice. For detailed information about ErP, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

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

* 230 V.

air-e™



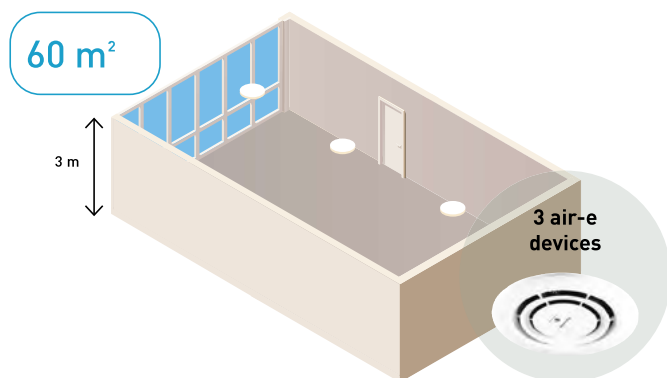
+ nanoe™ X

Model	FV-15CSD16				
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 $\pm 10\%$ 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 measured 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 ¹⁾

Influenza virus H1N1 subtype: 99,9 % inhibited ²⁾

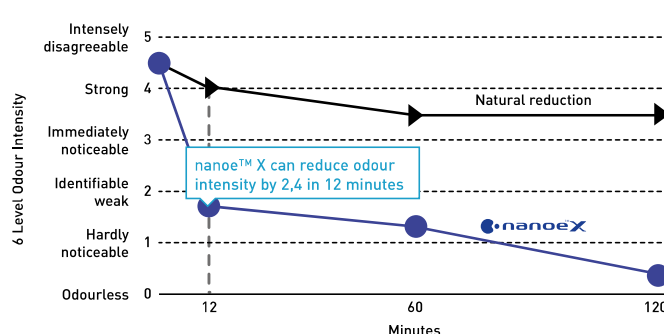
Odour.

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) ³⁾.



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



Accessories and control

Distribution joint kits

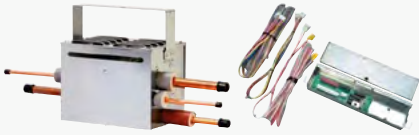
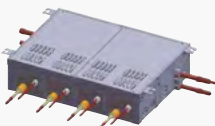
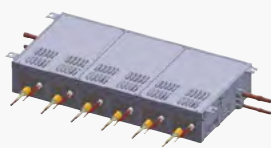
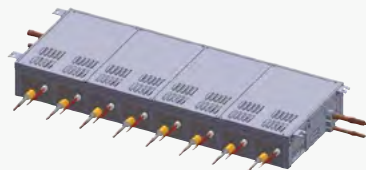


2-Pipe ME2 for outdoor units (up to 68,0 kW). ----- CZ-P680PH2BM	2-Pipe ME2 for outdoor units (from 68,0 kW to 168,0 kW). ----- CZ-P1350PH2BM	2-Pipe ME2 and Mini ECOi for indoor units (up to 22,4 kW*). ----- CZ-P224BK2BM
2-Pipe ME2 for indoor units (from 22,4 kW to 68,0 kW*). ----- CZ-P680BK2BM	2-Pipe ME2 for indoor units (from 68,0 kW to 168,0 kW*). ----- CZ-P1350BK2BM	3-Pipe MF3 for outdoor units (up to 68,0 kW). ----- CZ-P680PJ2BM
3-Pipe MF3 for outdoor units (from 68,0 kW to 135,0 kW). ----- CZ-P1350PJ2BM	3-Pipe MF3 for indoor units (up to 22,4 kW). ----- CZ-P224BH2BM	3-Pipe MF3 for indoor units (from 22,4 kW to 68,0 kW). ----- CZ-P680BH2BM
3-Pipe MF3 for indoor units (up to 68,0 kW). ----- CZ-P1350BH2BM	2-Pipe ME2 header pipe. ----- CZ-P4HP4C2BM	3-Pipe MF3 header pipe. ----- CZ-P4HP3C2BM

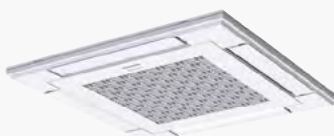
* In case the total capacity of indoor units connected after distribution exceeds the total capacity of the outdoor units, select the distribution piping size for the total capacity of the outdoor units.

Heat recovery box



 3-Pipe control Solenoid valve kit (up to 5,6 kW). CZ-P56HR3 + CZ-CAPE2. ----- KIT-P56HR3	 Solenoid valve kit (up to 5,6 kW). ----- CZ-P56HR3	 3-Pipe control PCB. ----- CZ-CAPE2
3-Pipe control Solenoid valve kit (from 5,6 kW to 16,0 kW). CZ-P160HR3 + CZ-CAPE2. ----- KIT-P160HR3	Solenoid valve kit (from 5,6 kW to 16,0 kW). ----- CZ-P160HR3	3-Pipe control PCB for wall-mounted. ----- CZ-CAPEK2
 4 ports 3 pipe box (up to 5,6 kW per port). ----- CZ-P456HR3	 6 ports 3 pipe box (up to 5,6 kW per port). ----- CZ-P656HR3	 8 ports 3 pipe box (up to 5,6 kW per port). ----- CZ-P856HR3
4 ports 3 pipe box (up to 16,0 kW per port). ----- CZ-P4160HR3		

Panels

 Standard panel for 4 way 90x90 cassette, white (RAL9003). ----- CZ-KPU3	 Econavi panel for 4 way 90x90 cassette, white (RAL9003). ----- CZ-KPU3A	 NEW Standard panel for 4 way 90x90 cassette, graphite black (RAL9011). ----- CZ-KPU3B	 Panel for 4 way 60x60 cassette - MY3. ----- CZ-KPY4
---	---	--	---



Panel for ML1 22 to 56.

CZ-02KPL2



Panel for MD1.

CZ-KPD2

Panel for ML1 73.

CZ-03KPL2

Sensors



Econavi energy saving sensor.

CZ-CENSC1



Remote temperature sensor.

CZ-CSRC3



Fresh air-intake kit.

CZ-FDU3+CZ-ATU2

R32 safety measures



Leak detector for 4 way 90x90 cassette, 4 way 60x60 cassette, and wall-mounted units.

CZ-CGLSC2



R32 refrigerant leak alarm for adaptive duct and slim duct units.

CZ-CGLALC1



2-pipe safety valve kit.

CZ-P1160SVK



External 16 V power supply.

PAW-16DC-ALC1

IAQ filter for adaptive ducted unit



BION air pollutant filter for MF3 15 to 56.

PAW-APF800F

BION air pollutant filter for MF3 60 and 73.

PAW-APF1000F

BION air pollutant filter for MF3 90 to 160.

PAW-APF1400F

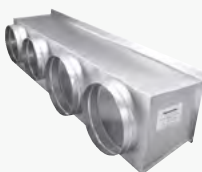
* Tentative image.

Plenums



Air outlet plenum for MF3 15, 22, 28, 36, 45 and 56.

CZ-56DAF2



Air outlet plenum for S-224ME1E5.

CZ-TREMIESPW705

Air outlet plenum for MF3 60, 73 and 90.

CZ-90DAF2

Air outlet plenum for S-280ME1E5.

CZ-TREMIESPW706

Air outlet plenum for MF3 112, 140 and 160.

CZ-106DAF2

Valves



External valve for MK3 15 to 73.

CZ-P73SVK3*

External valve for MK3 106.

CZ-P106SVK3

Rap valve kit.

CZ-P160RVK2

* A 3/8" to 1/4" reducer is required when combining the S-73MK3E with ECOI EX R410A outdoor units (ME2 and MF3).

VRF Smart Connectivity+



Remote controller Panasonic Net Con, RH, No PIR, R1/R2.

SER8150R0B1194

Remote controller Panasonic Net Con, RH, PIR, R1/R2.

SER8150R5B1194



Wireless ZigBee® Pro module / Green Com card.

VCM8000V5094P



Door/window wireless sensor.

SED-WDC-G-5045



Wall/ceiling motion/temperature/humidity sensor.

SED-MTH-G-5045



CO₂ sensor.

SED-CO2-G-5045



Sensor with room temperature and humidity.

SED-TRH-G-5045



Water leakage sensor.

SED-WLS-G-5045



Cover frame. Silver.

FAS-00



Cover frame. White.

FAS-01



Cover frame. Glossy translucent white.

FAS-03



Cover frame. Light tan wood.

FAS-05



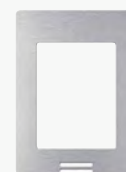
Cover frame. Dark brown wood.

FAS-06



Cover frame. Dark black wood.

FAS-07



Cover frame. Brushed steel finish.

FAS-10

Controller and touch controllers for hotels with dry contacts

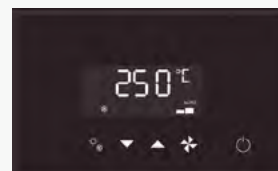


Modbus RS-485 touch room controller with I/O, white.

PAW-RE2C4-MOD-WH

Touch display control with 2 digital inputs, white.

PAW-RE2D4-WH



Modbus RS-485 touch room controller with I/O, black.

PAW-RE2C4-MOD-BK

Touch display control with 2 digital inputs, black.

PAW-RE2D4-BK

Hotel sensors for dry contacts



Wall silent motion sensor 24 V.

PAW-WMS-DC

Wall silent motion sensor 240 V AC.

PAW-WMS-AC



Ceiling silent motion sensor 24 V.

PAW-CMS-DC

Ceiling silent motion sensor 240 V AC.

PAW-CMS-AC



Power supply 24 V.

PAW-24DC



Door or window contact.

PAW-DWC

Centralised controls



System controller for 64 indoor units with weekly timer.

CZ-64ESMC3



Central ON / OFF controller, up to 16 groups, 64 indoor units.

CZ-ANC3



Intelligent controller (touch screen/web server) to control up to 256 indoors with included load distribution ratio (LDR).

CZ-256ESMC3

Centralised controls. BMS system. PC base



P-AIMS core software: Centralised software to control up to 1024 indoor units.

CZ-CSWKC2

P-AIMS communication adaptor.

CZ-CFUNC2

P-AIMS consumption calculation extension.

CZ-CSWAC2

P-AIMS layout display extension.

CZ-CSWGC2

P-AIMS BACnet extension.

CZ-CSWBC2

P-AIMS web application extension.

CZ-CSWWC2

Panasonic AC Smart Cloud



ALL REFERENCES RELATED TO AC SMART CLOUD IS IN THE DEDICATED PAGE

Panasonic AC Smart Cloud. Cloud internet control. Up to 128 groups. Controls 128 units.

CZ-CFUSCC1

BMS interface with S-Link



A unified interface supporting Modbus, BACnet, and KNX protocols for up to 16 indoor units.

PAW-AC2-BMS-16

A unified interface supporting Modbus, BACnet, and KNX protocols for up to 64 indoor units.

PAW-AC2-BMS-64

A unified interface supporting Modbus, BACnet, and KNX protocols for up to 128 indoor units.

PAW-AC2-BMS-128

Accessories interfaces



Commercial Wi-Fi Adaptor.

CZ-CAPWFC2



KNX interface (Intesis).

PAW-RC2-KNX-1i



Modbus RTU interface (Intesis).

PAW-RC2-MBS-1



Modbus RTU interface to control 4 indoor/groups (Intesis).

PAW-RC2-MBS-4



BACnet IP and MSTP (Intesis).

PAW-RC2-BAC-1



KNX interface (Airzone).

PAW-AZRC-KNX-1



Modbus RTU interface (Airzone).

PAW-AZRC-MBS-1



BACnet IP and MSTP interface (Airzone).

PAW-AZRC-BAC-1



RAC interface adapter for integration into S-Link, plus external input and alarm/status output.

CZ-CAPRA1



LonWorks® Interface controls up to 16 groups and 64 indoor units.

CZ-CLNC2

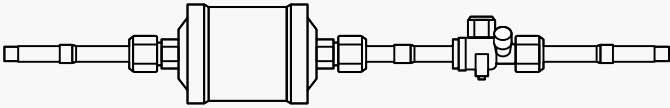
Centralised controls. Connection with general equipment

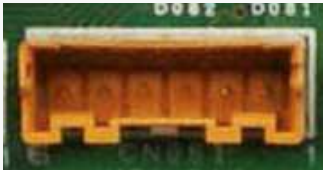
 Adaptor for ON / OFF control of external devices. ----- CZ-CAPC3	 Demand control for Mini ECOi (LZ2, LE2). ----- CZ-CAPDC3	 Mini series parallel device controlling indoor units, maximum 1 group and 8 indoor unit. ----- CZ-CAPBC2	 Communication Adaptor. Up to 128 groups. Controls 128 units. ----- CZ-CFUNC2
---	---	--	---

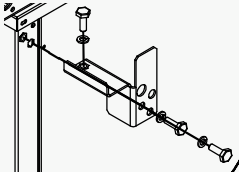
Individual controls

 CONEX wired remote controller (non-wireless), white. CZ-RTC6W	 CONEX wired remote controller with Bluetooth®, white. CZ-RTC6WBL	 CONEX wired remote controller with Wi-Fi and Bluetooth®, white. CZ-RTC6WBLW2*	 CONEX wired remote controller (non-wireless), black. CZ-RTC6
 CONEX wired remote controller with Bluetooth®, black. CZ-RTC6BL	 CONEX wired remote controller with Wi-Fi and Bluetooth®, black. CZ-RTC6BLW2*	 Design wired remote controller with Econavi function. CZ-RTC5B	 Infrared remote controller and receiver for 4 way 60x60 cassette - MY3 with panel. CZ-RWS3 + CZ-RWRY3
 Infrared remote controller and receiver for 4 way 90x90 cassette. CZ-RWS3 + CZ-RWRU3	 Infrared remote controller and receiver for 2 way cassette. CZ-RWS3 + CZ-RWRL3	 Infrared remote controller and receiver for 1 way cassette. CZ-RWS3 + CZ-RWRD3	
 Infrared remote controller and receiver for ceiling. CZ-RWS3 + CZ-RWRT3	 Infrared remote controller for wall-mounted and floor console. CZ-RWS3	 Infrared remote controller and receiver for all indoor units. CZ-RWS3 + CZ-RWRC3	

* Available for indoor unit types MY3, MF3, MM2, and MK3.

Accessories PCB	R-22 Replacement Kit
 T10 interface PCB with digital and relay connections. ----- PAW-T10 PCB for fan speed control of external EC Fan. ----- PAW-ECF	 Replacement kit for R-22. ----- CZ-SLK2

Accessories cables				
 Cable for all the T10 functions. ----- CZ-T10	 Cable to operate external EC fan. ----- PAW-FDC	 Cable for all option monitoring signals. ----- PAW-OCT	 Cable with force thermo OFF/leakage detection. ----- PAW-EXCT	

Water heat exchanger accessories
 Stacking kit for vertically stacking up to 3 WHE (4 pieces per Kit). ----- PAW-3WSK

Advanced energy recovery ventilation - ZY Series accessories

		
Replacement high efficiency filter for FV-15ZY1G. ----- FV-FP15ZY1G	Replacement high efficiency filter for FV-25ZY1G. ----- FV-FP25ZY1G	
Replacement high efficiency filter for FV-35ZY1G. ----- FV-FP35ZY1G	Replacement high efficiency filter for FV-50ZY1G. ----- FV-FP50ZY1G	
Replacement high efficiency filter for FV-65ZY1G. ----- FV-FP65ZY1G	Replacement high efficiency filter for FV-80ZY1G and FV-1HZY1G ¹⁾. ----- FV-FP80ZY1G	
Replacement high efficiency filter for FV-1KZY1G and FV-2KZY1G ¹⁾. ----- FV-FP1KZY1G		
		IAQ Controller. ----- PAW-ERV-IAQCT

1) 2 sets of filters required for those models.

WWW.AIRCON.PANASONIC.EU

Panasonic

ECO*i*EX

PanClima

Air Conditioning & Heating Systems

Γραφεία Αθήνας

Λεωφόρος Βουλιαγμένης 564 Άλιμος
174 56 Αθήνα Τ 216 800 90 90

Γραφεία Θεσσαλονίκης

Philippos Business Center Αγ. Αναστασίας 8 & Λαέρτου Πυλαία
555 35 Θεσσαλονίκη Τ 2316 004 020
e-mail: info@panclima.gr • www.panclima.gr

heating & cooling solutions



www.aircon.panasonic.eu/GR_el/



Panasonic

heating & cooling solutions