

Panasonic

AHU Connection Kit MAH4M for ECOi 2-Pipe

PAW-P+100MAH4M



heating & cooling solutions

AHU Connection Kit for VRF 2-PIPE

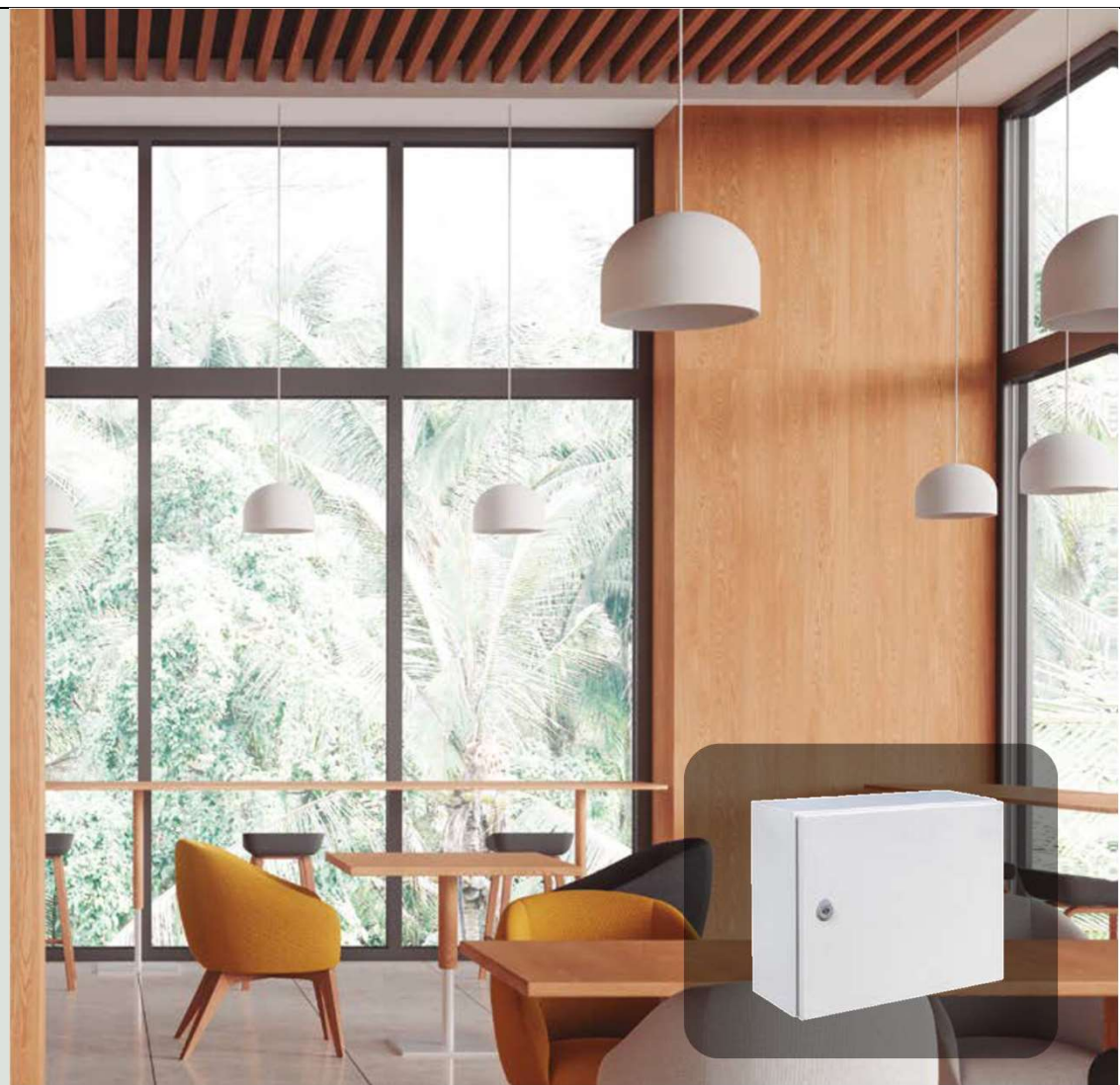
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New AHU connection kit line-up.
Flexible control for VRF 2 PIPE and AHU projects.
Selectable expansion valve available for different project capacity requirements.

- Space-saving compact casing
- Cooling capacity from 12 to 134 kW
- Heating capacity from 12.5 to 150 kW*.
- Compatible with ECOi 2-PIPE systems
- 0-10 V demand control
- Built-in controller for daily functions and service levels
- Direct Modbus communication without an additional interface**
- Easy integration to BMS
- Accurate control with a pressure transducer

*Now compatible with R32 ECOi EX MZ1 Series. Nominal capacity

**Next version of the software; update is required. Please contact PHVACEU technical team for detail information.



AHU Connection Kit All Line-up

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NEW AHU connection kit MAH4M for ECOi 2-Pipe (12 - 134 kW*)



ECO*i* EX / **ECO*i***

- Space-saving compact casing
- 0-10 V demand control
- Built-in controller for daily functions and service levels
- Direct Modbus communication without an additional interface
- Easy integration to BMS
- Accurate control with a pressure transducer

AHU connection kit PAH3M-1 for PACi NX and PACi (2,5 - 23,2 kW*)



PAC*i*

- Durable metal casing (IP 65) allows external installation
- 0-10 V demand control
- CONEX Bluetooth® control built-in (CZ-RTC6BL)
- Panasonic H&C Control App via Bluetooth®
- Easy integration to BMS

AHU connection kit MAH3M for ECOi and ECO G (14 - 224 kW*)



ECO*i* EX / **ECO*i*** / **ECO G**

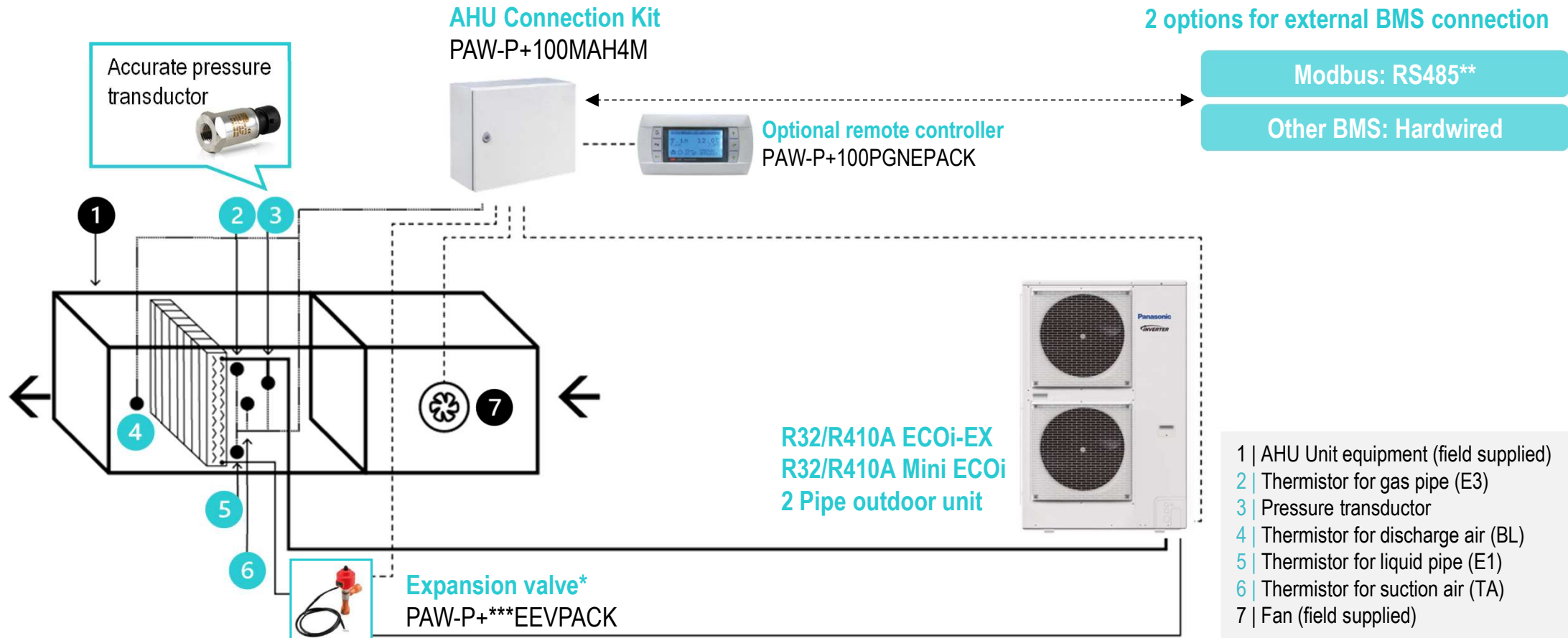
- Durable metal casing (IP 65) allows external installation
- 0-10 V demand control
- CONEX Bluetooth® control built-in (CZ-RTC6BL)
- Panasonic H&C Control App via Bluetooth®
- Easy integration to BMS

* Nominal cooling capacity extended. Now compatible with R32 ECOi EX MZ1 Series.

New AHU Connection Kit MAH4M System Overview

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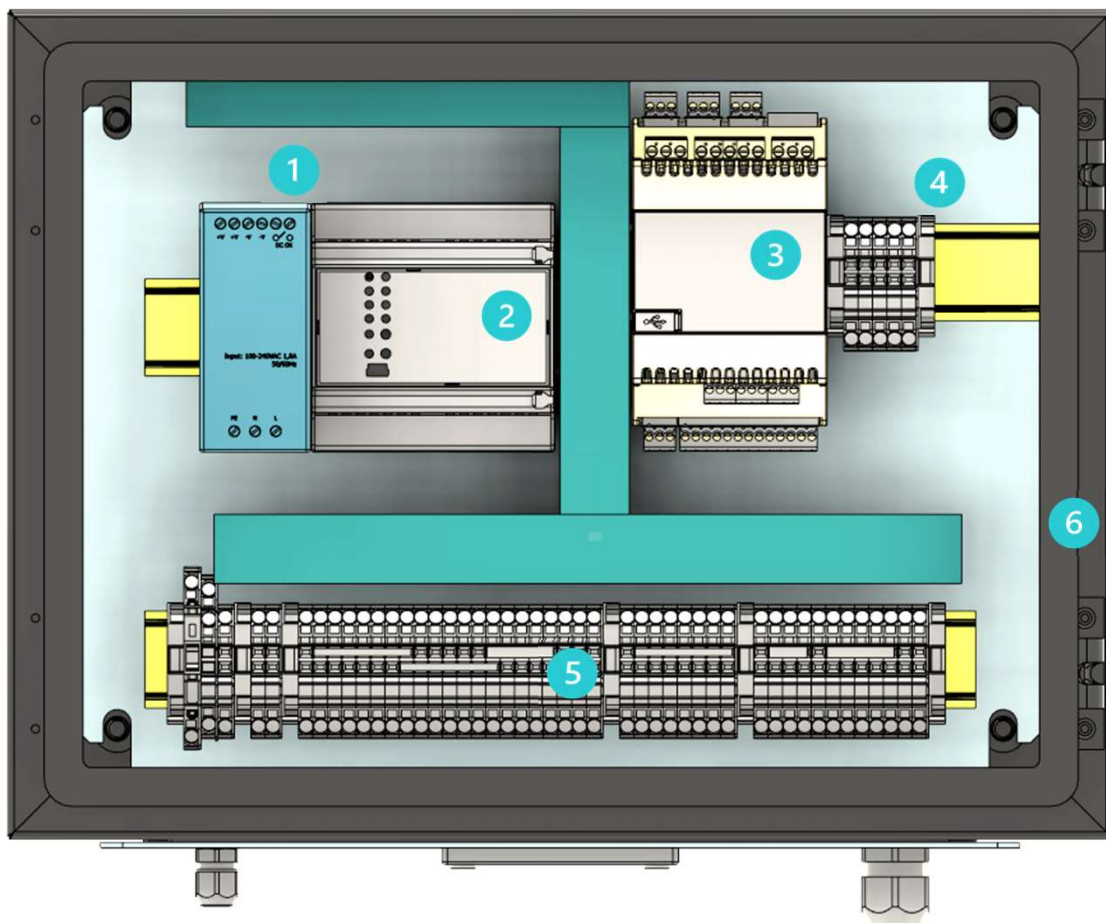
The new AHU kit includes all key components in one package and provides a flexible offer with selectable expansion valve and BMS connection options.



*Mandatory for ordering. Select the correct size depending on the project capacity. **Next version of the software; update is required. Please contact PHVACEU technical team for detail information.

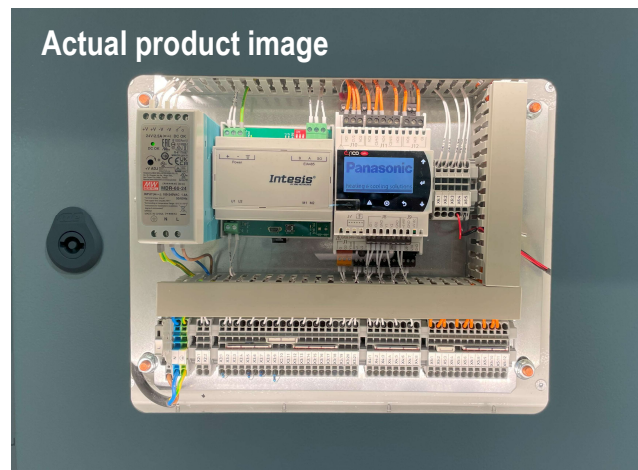
MAH4M, Upgraded AHU Control Solution

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- 1 Power supply (**240 VAC ~ 24 VDC**)
- 2 Direct Modbus communication with a built-in Modbus **S-Link** interface
- 3 Built-in **c.pCO** controller (more information on the next slide)
- 4 Terminal block for Modbus (**BMS connection**) & optional controller
- 5 Main terminal block
- 6 Durable metal casing (**IP65**)

Actual product image



High Efficiency

- Embedded ExV, Energy Saving Algorithms and driving smart devices

High Usability

- Semigraphic LCD with icons, languages, customisable user interface and easy wiring
- Standard protocols (Modbus)
- Integrated Fieldbus/BMS port
- Embedded Unipolar EXV
- One microUSB port Host and Device for the update and copy & paste project parameters.
- Extended service parameters (Discharge temperature, suction temp. etc.). More information on the next slide.
- Adjust temperature between the set points and outdoor ambient temperature



Built-in c.pCO controller

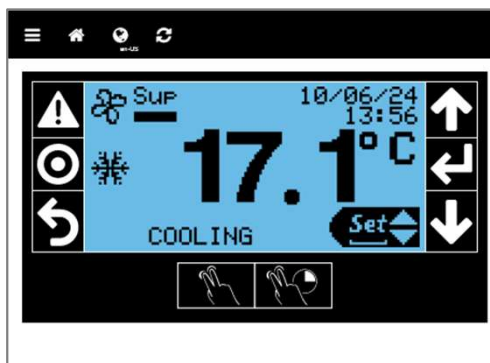
Extended Service Parameters on Built-in c.pCO Controller

Panasonic

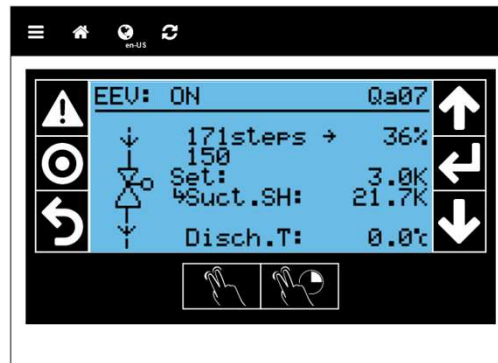
Service parameters accessible without the Panasonic Service Checker tool.



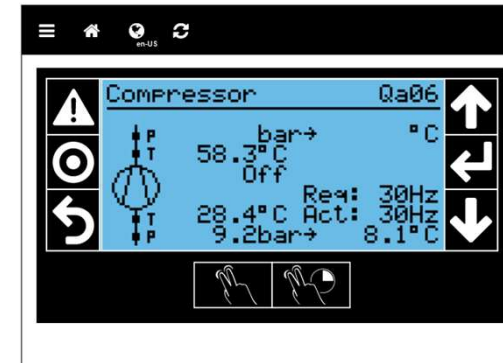
Built-in c.pCO controller



Temperature set



EEV operation parameters



Compressor parameters

0-10 V control

- With 0-10 V demand control, the outdoor unit capacity can be adjusted in 5% demand steps.
- Temperature set control (default discharge temperature control) is also available in 0,5 K steps.

Input voltage* (V)	0	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5
Demand (% of nominal current)	No cut ¹⁾	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	No limit / Full capacity ²⁾
Indoor unit start / stop	Stop ¹⁾									Start									

1) No cut / stop: AHU system / indoor unit is completely switched OFF.

2) No limit: No restrictions applied by BMS to AHU system / indoor unit performance (equivalent to "full-load operation" of AHU system / indoor unit).

SG ready - Future proof solution

Demand input can be set.
Thermostat OFF or 40 – 200% by the user.



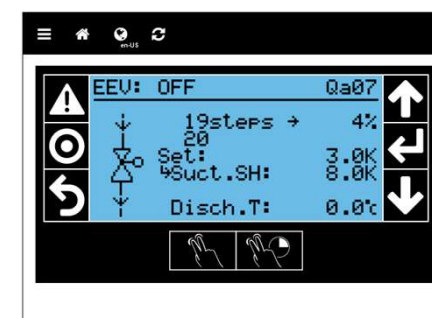
Accurate control with a pressure transducer.



*Sample image

**A pressure transducer is a device that measures pressure of the refrigerant and converts it into an electrical signal.

Extended service parameters available without Panasonic service checker tool.



Basic Specification with R32 ECOi Outdoor Units – Tentative as of Jul'25

Panasonic

AHU kit PAW-P+100MAH4M			4 HP	5 HP	6 HP	8 HP LZ2	8 HP MZ1	10 HP LZ2	10 HP MZ1	12 HP	16 HP	18 HP	20 HP	22 HP
AHU connection kit PAW-P+.....PACK			116EEV	116EEV	116EEV	116EEV	116EEV	133EEV	133EEV	133EEV	145EEV	145EEV	145EEV	145EEV
MZ1 Outdoor multi combination			-	-	-	-	-	-	-	-	8+8	8+10	10+10	10+12
nominal cooling ¹⁾		kW	12.0	14.0	16.0	22.4	22.4	28.0	28.0	33.5	44.8	50.4	56.0	61.5
nominal heating ²⁾		kW	12.5	16.0	17.0	25.0	25.0	28.0	31.5	37.5	50.0	56.5	63.0	69.0
minimum cooling continuous ¹⁾		kW	6.6	6.6	6.6	6.6	6.6	10.7	10.7	10.7	15.9	15.9	15.9	15.9
minimum heating continuous ²⁾		kW	7.4	7.4	7.4	7.4	7.4	12.1	12.1	12.1	18.0	18.0	18.0	18.0
Air volume flow	Min	m³/h	1,100	1,100	1,100	1,700	1,700	2,000	2,000	2,000	3,400	3,700	4,000	4,000
	Max	m³/h	4,000	5,000	5,000	8,000	10,000	8,600	10,000	10,000	16,000	20,000	20,000	20,000
AHU DX coil heat exchanger volume	Min	dm³	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0
	Max	dm³	5.5	6.3	7.0	7.0	8.5	7.0	10.0	12.0	15.0	18.0	20.0	22.0
Piping length	Min/Max	m	10 / 60	10 / 60	10 / 60	10 / 70	10 / 100	10 / 70	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100
Max. branch pipe length		m	12	12	12	12	12	12	12	12	12	12	12	12
Max. pipe length diff. after 1st joint		m	10	10	10	10	10	10	10	10	10	10	10	10
Max. elevation difference (in/out)		m	10	10	10	10	10	10	10	10	10	10	10	10
Piping connections EEV		mm	8	8	8	10	10	10	10	10	10	10	10	10
Pipe size branch pipe	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	3/8" / 9.52	3/8" / 9.52	1/2" / 12.7	1/2" / 12.7	1/2" / 12.7	1/2" / 12.7
	Gas	Inch/mm	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	3/4" / 19.05	3/4" / 19.05	7/8" / 22.22	3/4" / 19.05	7/8" / 22.22	1 1/8" / 28.58	1 1/8" / 28.58	1 1/8" / 28.58	1 1/8" / 28.58
On coil temperature Cooling	Min / Max	°CDB	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32
		°CWB	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25
On coil temperature Heating	Min / Max	°CDB	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾
Outdoor temperature Cooling	Min / Max	°CDB	-10 / 52	-10 / 52	-10 / 52	-10 / 52	-10 / 50	-10 / 52	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50
Outdoor temperature Heating	Min / Max	°CWB	-20 / 18	-20 / 18	-20 / 18	-20 / 18	-25 / 24 ⁴⁾	-20 / 18	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾

1) At rated condition with 35°CDB outdoor and 27°CDB/19°CWB on coil

2) At rated condition with 7°CDB/6°CWB outdoor and 20°CDB on coil

3) In case of on coil temperature of 5°C or below and of 31°C and above air flow would be restricted

4) In case of on coil temperature > +18°CWB in heating mode, intermittent operation could happen

Basic Specification with R32 ECOi Outdoor Units – Tentative as of Jul'25

Panasonic

AHU kit PAW-P+100MAH4M			24 HP	26 HP	28 HP	30 HP	32 HP	34 HP	36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
AHU connection kit PAW-P+....PACK			156EEV	156EEV	156EEV	174EEV	174EEV	174EEV	174EEV	174EEV	174EEV	174EEV	174EEV	174EEV	174EEV
MZ1 Outdoor multi combination			12+12	8+8+10	8+10+10	10+10+10	10+10+12	10+12+12	12+12+12	8+10+10+10	10+10+10+10	10+10+10+12	10+10+12+12	10+12+12+12	12+12+12+12
nominal cooling ¹⁾		kW	67.0	72.8	78.4	84.0	89.5	95.0	100.0	106.0	112.0	117.0	123.0	128.0	134.0
nominal heating ²⁾		kW	75.0	81.5	88.0	94.5	100.0	106.0	112.0	119.0	126.0	132.0	138.0	144.0	150.0
minimum cooling continuous ¹⁾		kW	23.3	23.3	23.3	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
minimum heating continuous ²⁾		kW	26.3	26.3	26.3	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
Air volume flow	Min	m³/h	4,000	5,400	5,700	6,000	6,000	6,000	6,000	7,700	8,000	8,000	8,000	8,000	8,000
	Max	m³/h	20,000	24,000	26,000	30,000	30,000	30,000	30,000	34,000	36,000	38,000	40,000	40,000	40,000
AHU DX coil heat exchanger volume	Min	dm³	4.0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	8.0	8.0	8.0	8.0	8.0
	Max	dm³	24.0	27.0	28.5	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0
Piping length	Min/Max	m	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100
Max. branch pipe length		m	12	12	12	12	12	12	12	12	12	12	12	12	12
Max. pipe length diff. after 1st joint		m	10	10	10	10	10	10	10	10	10	10	10	10	10
Max. elevation difference (in/out)		m	10	10	10	10	10	10	10	10	10	10	10	10	10
Piping connections EEV		mm (inch)	16	16	16	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Pipe size branch pipe	Liquid	Inch/mm	1/2" / 12.7	1/2" / 12.7	1/2" / 12.7	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88
	Gas	Inch/mm	1 1/8" / 28.58	1 1/8" / 28.58	1 1/8" / 28.58	1 3/8" / 34.98	1 3/8" / 34.98	1 3/8" / 34.98	1 3/8" / 34.98	1 3/8" / 34.98	1 3/8" / 34.98	1 3/8" / 34.98	1 3/8" / 34.98	1 3/8" / 34.98	1 3/8" / 34.98
On coil temperature Cooling	Min / Max	°CDB	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32
		°CWB	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25
On coil temperature Heating	Min / Max	°CDB	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾
Outdoor temperature Cooling	Min / Max	°CDB	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50	-10 / 50
Outdoor temperature Heating	Min / Max	°CWB	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾	-25 / 24 ⁴⁾

1) At rated condition with 35°CDB outdoor and 27°CDB/19°CWB on coil

2) At rated condition with 7°CDB/6°CWB outdoor and 20°CDB on coil

3) In case of on coil temperature of 5°C or below and of 31°C and above air flow would be restricted

4) In case of on coil temperature > +18°CWB in heating mode, intermittent operation could happen

Basic Specification with R410A ECOi Outdoor Units

Panasonic

AHU kit PAW-P+100MAH4M			4 HP	5 HP	6 HP	8 HP LE1	8 HP ME2	10 HP LE1	10 HP ME2	12 HP	14 HP	16 HP	18 HP
AHU connection kit PAW-P+.....PACK			116EEV	116EEV	116EEV	133EEV	133EEV	133EEV	133EEV	133EEV	145EEV	145EEV	145EEV
nominal cooling ¹⁾		kW	12.0	14.0	16.0	22.4	22.4	28.0	28.0	33.5	40.0	45.0	50.0
nominal heating ²⁾		kW	12.5	16.0	17.0	25.0	25.0	31.5	31.5	37.5	45.0	50.0	56.0
minimum cooling continuous ¹⁾		kW	4.3	4.3	4.3	7.0	7.0	7.0	7.0	7.0	10.4	10.4	10.4
minimum heating continuous ²⁾		kW	5.0	5.0	5.0	8.1	8.1	8.1	8.1	8.1	12.0	12.0	12.0
Air volume flow	Min	m³/h	1,100	1,100	1,100	1,700	1,700	2,000	2,000	2,000	3,500	3,500	5,000
	Max	m³/h	4,000	5,000	5,000	8,000	10,000	8,600	10,000	10,000	12,000	12,000	20,000
AHU DX coil heat exchanger volume	Min	dm³	1.5	1.5	1.5	2.0	2.0	2.0	2.0	3.0	3.0	4.0	4.0
	Max	dm³	5.5	6.3	7.0	7.0	10.0	7.0	10.0	17.0	17.0	17.0	19.0
Piping length	Min/Max	m	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100
Max. branch pipe length		m	12	12	12	12	12	12	12	12	12	12	12
Max. pipe length diff. after 1st joint		m	10	10	10	10	10	10	10	10	10	10	10
Max. elevation difference (in/out)		m	10	10	10	10	10	10	10	10	10	10	10
Piping connections EEV		mm	8	8	8	10	10	10	10	10	10	10	10
Pipe size branch pipe	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	3/8" / 9.52	1/2" / 12.7	1/2" / 12.7	1/2" / 12.7	5/8" / 15.88
	Gas	Inch/mm	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	3/4" / 19.05	3/4" / 19.05	7/8" / 22.22	7/8" / 22.22	1 1/8" / 28.58	1 1/8" / 28.58	1 1/8" / 28.58	1 1/8" / 28.58
On coil temperature Cooling	Min / Max	°CDB	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32
		°CWB	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25
On coil temperature Heating	Min / Max	°CDB	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾
Outdoor temperature Cooling	Min / Max	°CDB	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46
Outdoor temperature Heating	Min / Max	°CWB	-20 / 18	-20 / 18	-20 / 18	-20 / 18	-25 / 18	-20 / 18	-25 / 18	-25 / 18	-25 / 18	-25 / 18	-25 / 18

1) At rated condition with 35°CDB outdoor and 27°CDB/19°CWB on coil

2) At rated condition with 7°CDB/6°CWB outdoor and 20°CDB on coil

3) In case of on coil temperature of 5°C or below and of 31°C and above air flow would be restricted

Basic Specification with R410A ECOi Outdoor Units

Panasonic

AHU kit PAW-P+100MAH4M			20 HP	22 HP	24 HP	26 HP	28 HP	30 HP	32 HP	34 HP
AHU connection kit PAW-P+.....PACK			156EEV	156EEV	174EEV	174EEV	174EEV	174EEV	174EEV	174EEV
MZ1 Outdoor multi combination			10+10	10+12	12+12	10+16	12+16	14+16	16+16	14+20
nominal cooling ¹⁾		kW	56.0	61.5	68.0	73.0	78.5	85.0	90.0	96.0
nominal heating ²⁾		kW	63.0	69.0	76.5	81.5	87.5	95.0	100.0	108.0
minimum cooling continuous ¹⁾		kW	15.3	15.3	21.5	21.5	21.5	21.5	21.5	21.5
minimum heating continuous ²⁾		kW	17.5	17.5	24.7	24.7	24.7	24.7	24.7	24.7
Air volume flow	Min	m³/h	5,000	6,000	6,000	6,000	6,000	7,000	7,000	8,500
	Max	m³/h	20,000	24,000	24,000	24,000	25,000	25,000	25,000	30,000
AHU DX coil heat exchanger volume	Min	dm³	4.0	5.0	6.0	6.0	6.0	6.0	6.0	7.0
	Max	dm³	19.0	27.0	34.0	27.0	34.0	34.0	34.0	36.0
Piping length	Min/Max	m	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100	10 / 100
Max. branch pipe length		m	12	12	12	12	12	12	12	12
Max. pipe length diff. after 1st joint		m	10	10	10	10	10	10	10	10
Max. elevation difference (in/out)		m	10	10	10	10	10	10	10	10
Piping connections EEV		mm (inch)	16	16	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Pipe size branch pipe	Liquid	Inch/mm	5/8" / 15.88	5/8" / 15.88	5/8" / 15.88	3/4" / 19.05	3/4" / 19.05	3/4" / 19.05	3/4" / 19.05	3/4" / 19.05
	Gas	Inch/mm	1 1/8" / 28.58	1 1/8" / 28.58	1 1/8" / 28.58	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
On coil temperature Cooling	Min /	°CDB	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32	12 / 32
	Max	°CWB	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25	8 / 25
On coil temperature Heating	Min /	°CDB	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾	0 / 32 ³⁾
	Max									
Outdoor temperature Cooling	Min /	°CDB	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46
	Max									
Outdoor temperature Heating	Min /	°CWB	-25 / 18	-25 / 18	-25 / 18	-25 / 18	-25 / 18	-25 / 18	-25 / 18	-25 / 18
	Max									

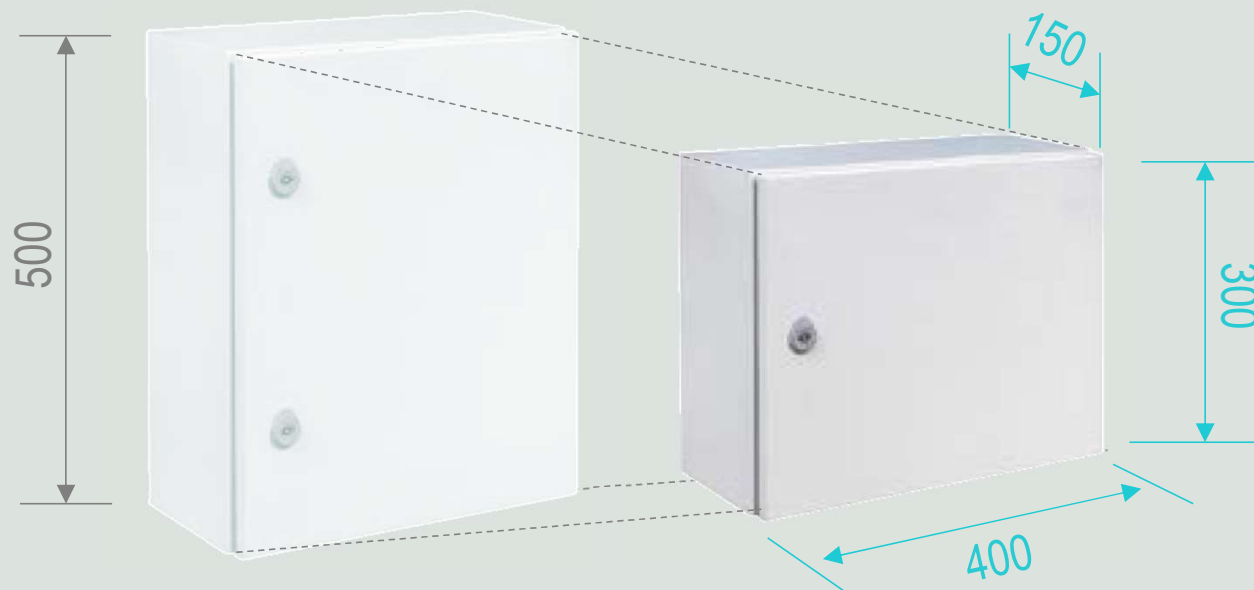
1) At rated condition with 35°CDB outdoor and 27°CDB/19°CWB on coil

2) At rated condition with 7°CDB/6°CWB outdoor and 20°CDB on coil

3) In case of on coil temperature of 5°C or below and of 31°C and above air flow would be restricted

MAH3M Casing

New MAH4M Casing



Height dimension reduced by
– 40* %

Light weight
11 Kg

*Comparison between MAH4M and MAH3M

Compatible R32 ECOi Outdoor Units

Panasonic

MAH4M Series is designed for the ECOi 2-PIPE system. One Electric Expansion Valve must be ordered based on the project size.

AHU connection kit / system combination



Cooling capacity	2-Pipe Mini VRF	AHU connection kit MAH4M	EEV pack *It must be ordered for the right project size.	2-Pipe VRF	AHU connection kit MAH4M	EEV pack *It must be ordered for the right project size.
	Mini ECOi LZ2 (R32)			ECOi EX MZ1 (R32)		
Product image						
4 - 8 HP	U-4/5/6LZ2E5(8) U-8LZ2E8	PAW-P+100MAH4M	PAW-P+ 116 EEVPACK	U-8MZ1E8	PAW-P+100MAH4M	PAW-P+ 116 EEVPACK
10 - 12 HP	U-10/12LZ2E8	PAW-P+100MAH4M	PAW-P+ 133 EEVPACK	U-10/12MZ1E8 U-12MZ1E8	PAW-P+100MAH4M	PAW-P+ 133 EEVPACK
16 - 22 HP	-	-	-	***	PAW-P+100MAH4M	PAW-P+ 145 EEVPACK
24 - 28 HP	-	-	-	***	PAW-P+100MAH4M	PAW-P+ 156 EEVPACK
30 - 48 HP	-	-	-	***	PAW-P+100MAH4M	PAW-P+ 174 EEVPACK

*Multiple combinations available.

***Multi outdoor combination are indicated on slide 10-11

Compatible R410A ECOi Outdoor Units

Panasonic

MAH4M Series is designed for the ECOi 2-PIPE system. One Electric Expansion Valve must be ordered based on the project size.

AHU connection kit / system combination

Cooling capacity	2-Pipe Mini VRF	AHU connection kit MAH4M	EEV pack *It must be ordered for the right project size.	2-Pipe VRF	AHU connection kit MAH4M	EEV pack *It must be ordered for the right project size.
	Mini ECOi LE2 (R410A)			ECOi EX ME2 (R410A)		
Product image	  			  		
4 - 6 HP	U-4/5/6LE2E5(8)	PAW-P+100MAH4M	PAW-P+ 116 EEVPACK (≤ 16.0 kW)	-	-	-
8 - 12 HP	U-8/10LE1E8	PAW-P+100MAH4M	PAW-P+ 133 EEVPACK (≤ 33.0 kW)	U-8/10/12ME2E8	PAW-P+100MAH4M	PAW-P+ 133 EEVPACK (≤ 33.0 kW)
14 - 18 HP	-	-	-	U-14/16/18ME2E8	PAW-P+100MAH4M	PAW-P+ 145 EEVPACK (≤ 45.0 kW)
20 - 22 HP	-	-	-	***	PAW-P+100MAH4M	PAW-P+ 156 EEVPACK (≤ 61.5 kW)
24 - 34 HP	-	-	-	***	PAW-P+100MAH4M	PAW-P+ 174 EEVPACK (≤ 96.0 kW)

*Multiple combinations available.

***Multi outdoor combination are indicated on slide 12-13

Optional Accessories

Panasonic

EEV (Electric expansion valve) pack.

EEV controls refrigerant circuit superheat (or subcooling), directly managed by the c.pCO mini controller. Different sizes based on capacity.

Description	Model reference
EEV pack "1" ≤ 16 kW*	PAW-P+116EEVPACK
EEV pack "2" ≤ 33 kW *	PAW-P+133EEVPACK
EEV pack "3" ≤ 45 kW*	PAW-P+145EEVPACK
EEV pack "4" ≤ 61.5 kW*	PAW-P+156EEVPACK
EEV pack "5" ≤ 96 kW*	PAW-P+174EEVPACK



*R410 ECOi models.

AHU connection kit sensor pack 1.

PAW-P+102SENSPACK

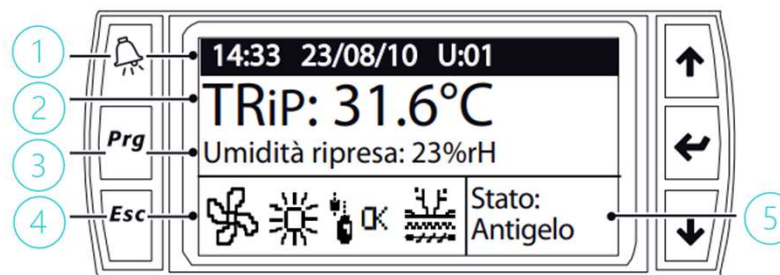
2 pcs of SENSORPT1000 HT
IP67 -50/250 CABLE 6 m PCK



Remote control pack.

PAW-P+100PGNEPACK

- Dimension: H 82, W156, D30 mm



1. Time/date/unit displayed
2. Variable 1 on display
3. Variable 2 on display
4. Active devices
5. Control status

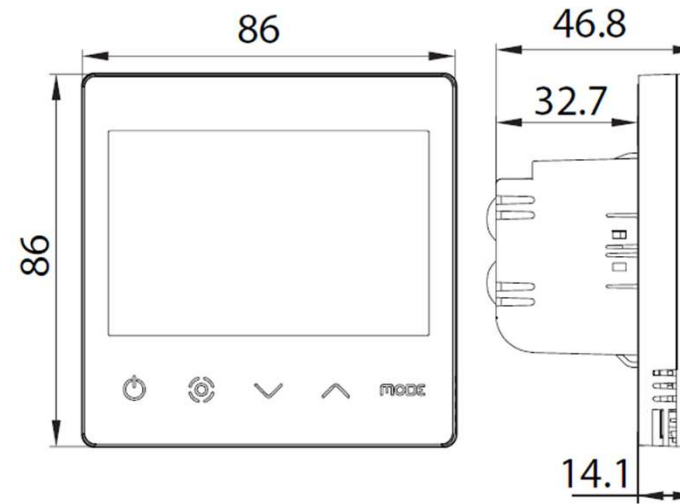
Single Remote Controller – Coming Soon in FY25

PAW-P+CZ-RTCTHTXTH for temperature & humidity control

PAW-P+CZ-RTCTHTXT for temperature control



Dimension (mm)



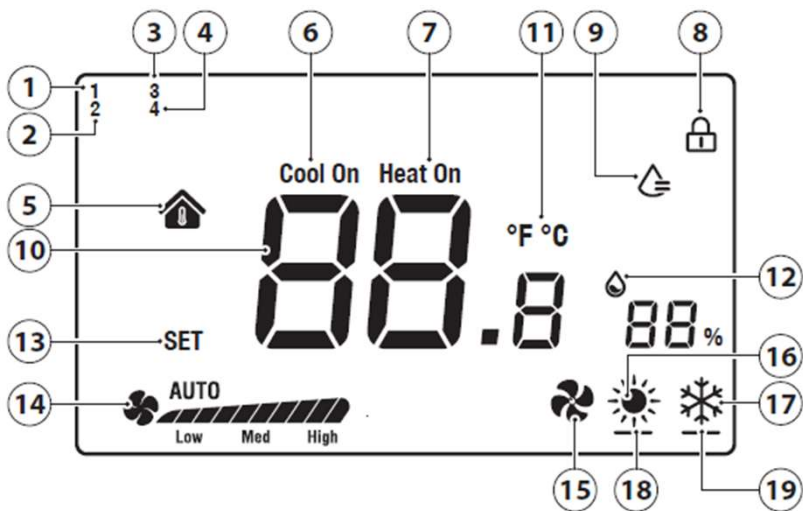
Intuitive and stylish design: Functions as a stand-alone room thermostat, seamlessly integrated with AHU systems

Smart connectivity: RS485* Modbus® enables multi-device control across centralized setups

Flexible configuration: Available with temperature or humidity sensors, various power options, and fan speed control

*Software update of MAH4M is required. Please contact PHVACEU technical team for detail information.

Remote Control. Display and Touch Buttons



Functionalities	
1	Humidify logic activated*
2	Manual logic via RS485 active (relay)
3	Manual logic via RS485 active (mode)
4	Manual logic via RS485 active (fan)
5	Indoor temperature
6	Relay closed in cooling mode
7	Relay closed in heating mode
8	Display lock activated
9	Relay closed in humidify mode*
10	Temperature
11	Temperature unit of measure
12	Relative humidity*
13	Temperature setting
14	Fan speed in manual/automatic mode

15	Operating mode: Ventilation
16	Operating mode: Heating
17	Operating mode: Cooling
18	Relay closed in heating mode
19	Relay closed in cooling mode

*The functionalities related to humidity are available with PAW-P+CZ-RTCTHTXTH.

MAH4M & MAH3M Comparison

Panasonic

MAH4M is a compact yet completed control package.

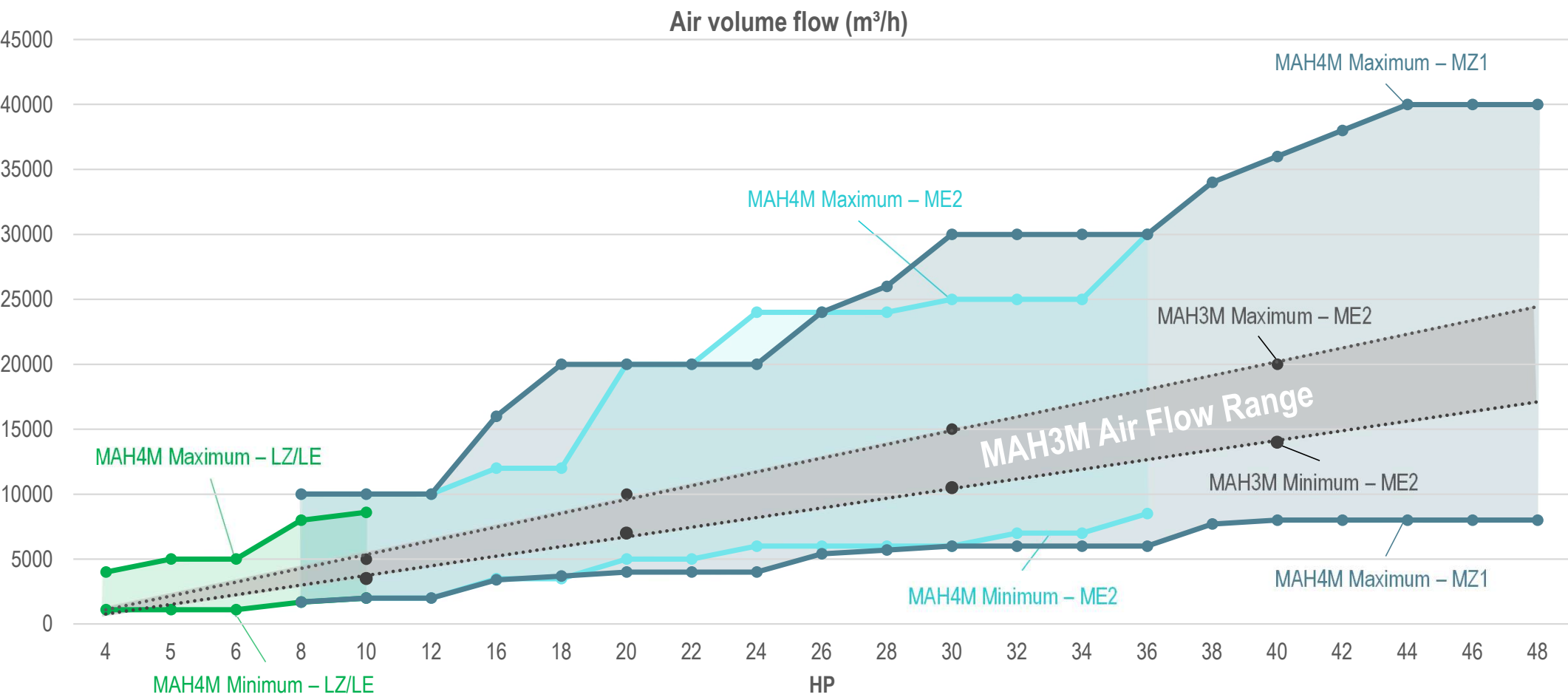
		New MAH4M Series	MAH3M Series
			
Model reference		PAW-P+100MAH4M	PAW-160MAH3M PAW-280MAH3M PAW-560MAH3M
Nominal capacity range	in cooling	12 – 134 kW*	14 - 224 kW
	in heating	12.5 – 150 kW*	16 - 252 kW
Air flow Cool Min / Max	m³/h	Air flow rate of MAH4M has been upgraded. (Shown on the next slide.)	
Casing		Durable metal casing (IP 65)	Durable metal casing (IP 65)
Dimension (H x W x D)	mm	300 x 400 x 150	500 x 400 x 150
Net weight	kg	11	11,5
Built-in controller		Built-in c.pCO controller	CONEX Bluetooth® control (CZ-RTC6BL)
Panasonic app availability		Not necessary since built-in controller covers all functionalities.	Panasonic H&C Control App via Bluetooth® 
0–10 V demand control		Yes	Yes
SG ready		Yes	No
Integration to BMS		Modbus available	No
Compatible outdoor units		R32 / R410A Mini ECOi and ECOi EX 2-Pipe	R410A Mini ECOi, all ECOi EX and all ECO G
Pipe length range	m	10 ~ 100	10 ~ 100
Optional accessories		5 EEV packs options (PAW-P+116/133/145/156/174EEVPACK)	-
		AHU connection kit sensor pack (PAW-P+102SENSPACK)	-
		Remote control pack (PAW-P+100PGNEPACK)	-
		Remote controllers (PAW-P+CZ-RTCTHTXT/PAW-P+CZ-RTCTHTXTH)	Remote controller (CZ-RTC5B)

*Extended. Now compatible with R32 ECOi EX MZ1.

Expanded Airflow Range with MAH4M



The MAH4M model now offers extended minimum and maximum airflow capabilities, ensuring coverage for a broader range of ventilation requirements.



Panasonic

heating & cooling solutions