

# NEW AHU KIT

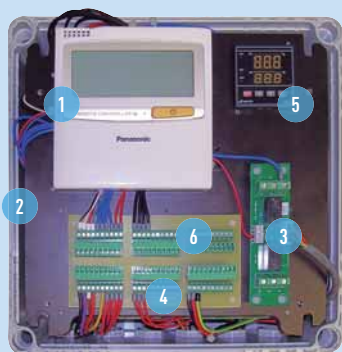
# Panasonic



## Air Handling Connection Kit

Ahu Kit connects PACi/VRF outdoor units to Air Handling Units System

**NEW**  
16kW // IP65 // COMPACT BODY



1. Remote control CZ-RTC2
2. New plastic IP 65 Box
3. PAW-T10 PCB for dry contact
4. 0-10V demand control PCB
5. Intelligent thermostat for:
  - Cold draft prevention
  - Outdoor temperature shift compensation
6. Terminal base for sensors and power supply

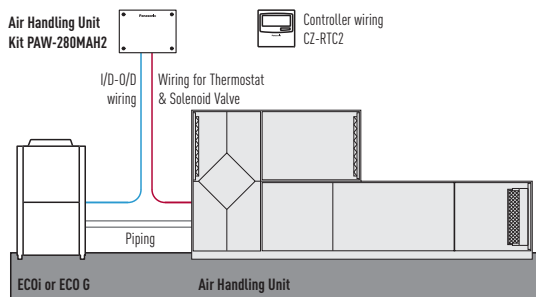
## Air Handling Unit Kit

New AHU Kits connect ECOi and ECO G systems to air handling unit systems, using the same refrigerant circuit as the VRF system. Large connectivity possibilities mean the Panasonic AHU Kit can be easily integrated. Application: Hotels, offices, server rooms or all large buildings where air quality control such as humidity control and fresh air and is needed.

2 types of AHU Kit: Advanced and Light

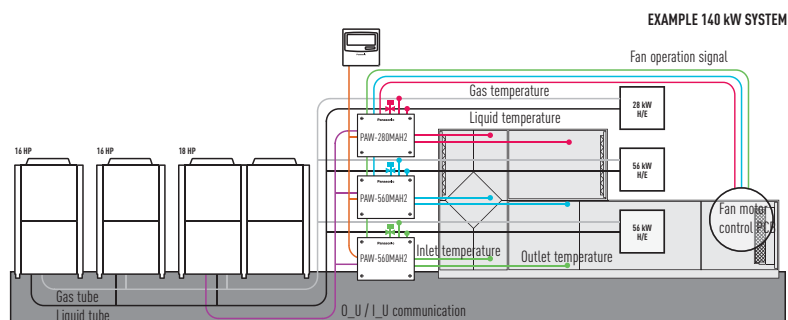
Model Code	IP 65	0-10V demand control	Outdoor temperature shift compensation. Cold draft prevention
PACi CZ-280PAH1			
PAW-280PAH2	Yes	Yes	Yes
PAW-280PAH2L	Yes	No	No
VRF PAW-160MAH2 / PAW-280MAH2 / PAW-560MAH2	Yes	Yes	Yes
PAW-160MAH2L / PAW-280MAH2L / PAW-560MAH2L	Yes	No	No

Panasonic AHU Kit, 16-56 kW connected to ECOi or ECO G outdoor unit PCB, Transformer, Solenoid Control Valve, Thermistor x 4 pcs, Terminal Base and Electrical Component Box.



System example for large capacity (more than 56 kW)

3 x [PCB, Transformer, Solenoid Control Valve, Thermistor x 4 pcs, Terminal Base and Electrical Component Box].

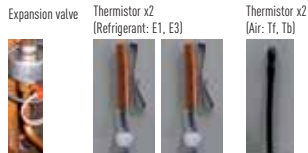


## AIR HANDLING UNIT KIT TO CONNECT TO YOUR VENTILATION SYSTEM

5-25 kW FOR PACi

28 kW AND 56 kW FOR ECOi AND GHP

**AHU Connection Kit**  
PCB, Power trans, Terminal block



**Remote controller**  
Standard wired remote controller (optional).  
Can be installed inside the box.



Optional  
Timer remote controller CZ-RTC2

**Panasonic**  
PRO Club

Calculation software is available on  
[www.panasonicproclub.com](http://www.panasonicproclub.com)  
or connect simply with your  
smartphone to the proclub using this  
QR.



**Optional parts: Following functions are available by using different control accessories:**

### CZ-RTC2 Timer remote controller

- Operation-ON/OFF
- Mode select
- Temperature setting

\* Fan operation signal can be taken from the PCB.

### CZ-T10 terminal

- Input signal= Operation ON/OFF
- Remote controller prohibition
- Output signal= Operating-ON status
- Alarm output (by DC12V)

### PAW-OCT, DC12 V outlet. OPTION terminal

- Output signal= Cooling/Heating/Fan status
- Defrost
- Thermostat-ON

### PAW-T10 PCB to connect to T10 connector

- A Dry contact PCB has been developed to easily control the unit
- Input signal operation ON/OFF
- Remote control prohibition
- Output signal Operation ON status maximum 230 V 5 A (NO/NC)
- Output signal Alarm status maximum 230 V 5 A (NO/NC)

### Additional available contacts:

- External humidifier control (ON/OFF) 230 VAC 3 A
- External fan control (ON/OFF) 12V DC
- External filter status signal potential free
- External float switch signal potential free
- External leakage detection sensor or TH. OFF contact potential free (possible usage for external blow out temperature control)

### CZ-CAPBC2 Mini seri-para I/O unit

- Demand control 40% to 120% (5% steps) by 0-10V input signal
- Temperature setting by 0-10 V or 0-140 Ω input signal
- Room (inlet air) temp outlet by 4-20 mA
- Mode select or/and ON/OFF control
- Fan operation control
- Operation status output/ Alarm output
- Thermostat ON/OFF control

### Technical focus

- Maximum capacity: 60HP (168 kW)
- Maximum piping length: 100 m (120 m equivalent)
- Elevation difference (O<sub>U</sub>-I<sub>U</sub>): 50 m (O<sub>U</sub> above)
- Elevation difference (I<sub>U</sub>-I<sub>U</sub>): 4 m
- In/Out capacity ratio: 50-100%  
Maximum I<sub>U</sub> number: 3 units\*
- Outdoor temperature range in Heating: -20 - 15°C
- Available temperature range for the suction air at AHU Kit:  
Cool: 18 - 32°C / Heat: 16 - 30°C

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



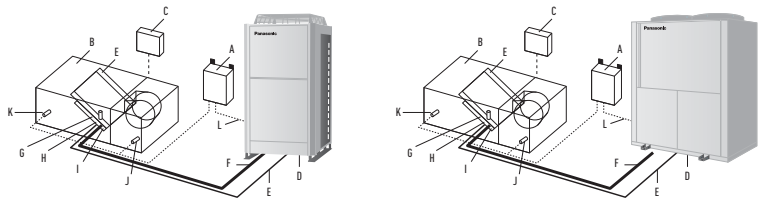
### PAW-160MAH2 // PAW-280MAH2 // PAW-560MAH2

- The systems is controlled by the suction air (or room return air) temperature (same as standard indoor unit). (Selectable mode: Automatic / Cooling / Heating / Fan / Dry (but same as Cool))
- 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 0-10V input signal
- Connectable with P-LINK system. Special care for electrical noise may be necessary depending on the on-side system
- Fan control signal from the PCB can be used for control the air volume (High/Mid/Low and LL for Th-OFF). Need to change the fan control circuit wiring at field

### System & regulations. System overview

- A: AHU Kit controller box (with control PCB)
- B: AHU Kit equipment (Field supplied)
- C: AHU Kit system controller (Field supplied)
- D: Outdoor unit
- E: Gas piping (Field supplied)
- F: Liquid piping (Field supplied)

- G: Electronic expansion valve
- H: Thermistor for Gas pipe
- I: Thermistor for Liquid pipe
- J: Thermistor for Suction air
- K: Thermistor for Discharge air
- L: Inter-unit wiring



AHU CONNECTION KIT FOR ECOi AND ECO G	Cooling capacity	Heating capacity	Horsepower	Cooling Airflow	Bypass Factor	Dimensions of the box	Piping length	Elevation diff. (in/out)	Pipe Diameters		Intake temperature of AHU Kit	Ambient temperature of outdoor unit
	Nominal	Nominal		High / Low					Liquid pipe	Gas pipe		
	kW	kW	HP	m³/min		H x W x D mm	Min / Max m	Max m	Inch (mm)	Inch (mm)	°C	°C
PAW-160MAH2	14,0	16,0	5	2.160 / 1.140	0,9 (recommended)	303 x 232 x 110	10 / 100	10	3/8 (9,52)	5/8 (15,88)	Cooling: 18 - 32 DB (13 - 23 WB) / Heating: 16 - 30 DB	Cooling: -10 - 34 DB / Heating: -15 - 15 WB
PAW-280MAH2	28,0	31,5	10	5.000 / 3.500	0,9 (recommended)	404 x 425 x 78	10 / 100	10	3/8 (9,52)	7/8 (22,22)		
PAW-560MAH2	56,0	63,0	20	10.000 / 7.000	0,9 (recommended)	404 x 425 x 78	10 / 100	10	5/8 (15,88)	1 1/8 (28,58)		
PAW-280MAH2 + PAW-560MAH2	84,0	95,0	30	15.000 / 10.500	0,9 (recommended)	404 x 425 x 78	10 / 100	10	3/4 (19,05)	1 1/4 (31,75)		
PAW-560MAH2 + PAW-560MAH2	112,0	127,0	40	20.000 / 14.000	0,9 (recommended)	404 x 425 x 78	10 / 100	10	3/4 (19,05)	1 1/2 (38,15)		
PAW-560MAH2 + PAW-560MAH2 + PAW-280MAH2	140,0	155,0	50	25.000 / 17.500	0,9 (recommended)	404 x 425 x 78	10 / 100	10	3/4 (19,05)	1 1/2 (38,15)		
PAW-560MAH2 + PAW-560MAH2 + PAW-560MAH2	168,0	189,0	60	30.000 / 21.000	0,9 (recommended)	404 x 425 x 78	10 / 100	10	3/4 (19,05)	1 1/2 (38,15)		

### AHU connection kit / System combination

Capacity ( HP )	Outdoor unit combination	AHU kit combination
28 kW (10 HP)	U-10ME1E81	PAW-280MAH2
56 kW (20 HP)	U-20ME1E81	PAW-560MAH2
84 kW (30 HP)	U-16ME1E81	PAW-560MAH2
112 kW (40 HP)	U-20ME1E81	PAW-560MAH2
140 kW (50 HP)	U-18ME1E81	PAW-560MAH2
168 kW (60 HP)	U-20ME1E81	PAW-560MAH2
56 kW (20 HP)	U-20GE2E5	PAW-560MAH2

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