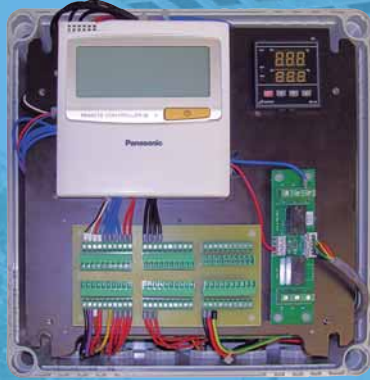


NEW AHU KIT



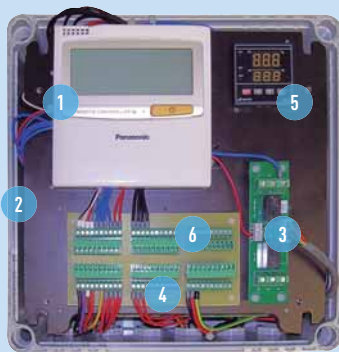
Air Handling Connection Kit

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

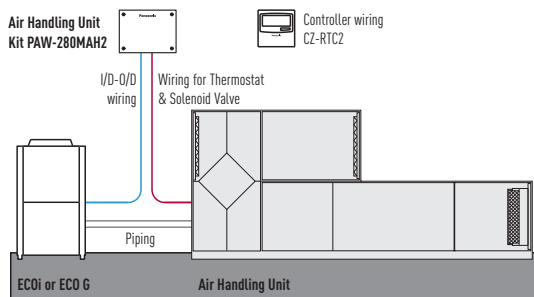
Air Handling Unit Kit

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

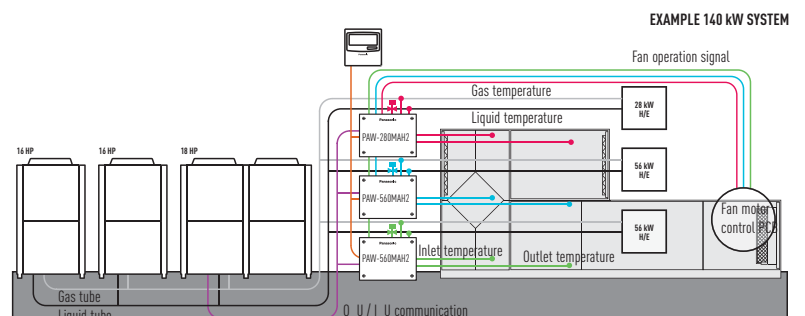
Model Code	IP 65	0-10V demand control	Outdoor temperature shift compensation. Cold draft prevention
PACi CZ-280PAH1			
PAW-280PAH2	Yes	Yes	Yes
PAW-280PAH2L	Yes	No	No
VRF PAW-160MAH2 / PAW-280MAH2 / PAW-560MAH2	Yes	Yes	Yes
PAW-160MAH2L / PAW-280MAH2L / PAW-560MAH2L	Yes	No	No

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].



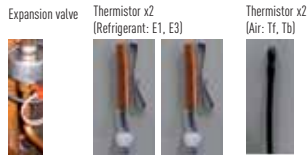
AIR HANDLING UNIT KIT TO CONNECT TO YOUR VENTILATION SYSTEM

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 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_U-I_U): 50 m (O_U above)
- Elevation difference (I_U-I_U): 4 m
- In/Out capacity ratio: 50-100%
Maximum I_U 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.



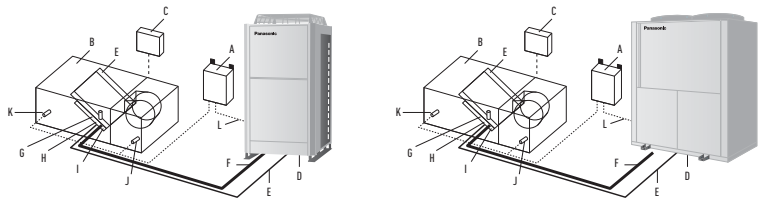
PAW-160MAH2 // PAW-280MAH2 // PAW-560MAH2

- 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	m ³ /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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