NEW

NEW WALL MOUNTED PROFESSIONAL WITH HIGH EFFICIENCY EVEN AT -15 °C

Complete line-up

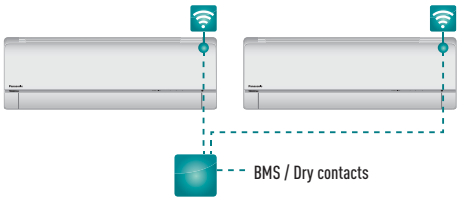
Design for 24h/7d a week operation

2 Interface options to manage server room operation

- **IntesisHome**, Advance package: PA-AC-WIFI-1 + Advance function. 1 interface PA-AC-WIFI-1 for indoor unit is needed. This interface must be connected to the local Wi-Fi network. Server room functionalities of the PA-AC-WIFI-1 + Advance function:
  - On/Off, temperature setting management
  - Backup management
  - Alternative running
  - Email in case of failure
  - Room temperature display on the online IntesisHome application
  - Energy consumption display
  - Online access of all functionalities
  - Ipad/Iphone/Android/Web application

- **PAW-SERVER-PKEA** server room interface with dry contacts for easy interconnection with BMS systems. 1 interface PAW-SERVER-PKEA can be connected to 2 PKEA indoor units. Server room functionalities with the PAW-SERVER-PKEA:
  - On/Off management by dry contact
  - Temperature set-up (easy setup on the interface without computer)
  - Backup management (easy setup on the interface without computer)
  - Alternative running (easy setup on the interface without computer)
  - Dry contact in case of failure (easy setup on the interface without computer)

2 Interface options to manage server room operation: PA-AC-WIFI-1*

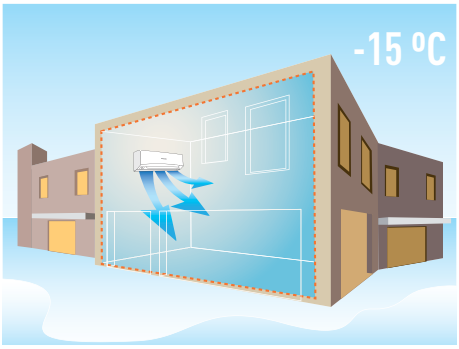


Optional accessory: PAW-SERVER-PKEA*

*Available from May 2013

Wide operating temperature range (from -15 °C up to 46 °C)

Panasonic Air Conditioners let you enjoy stable and comfortable cooling or heating even with extreme outside temperatures.
They let you enjoy stable cooling even when the outside temperature is below freezing. Outdoor units operate from -15 °C to 24 °C. Cooling is possible even when the outside temperature is from 5 °C up to 46 °C. Add to this exceptional durability and reliability and you are looking at worry-free operation for comfort throughout the year.



WALL MOUNTED PROFESSIONAL
INVERTER -15 °C ON COOLING MODE

KIT-E9-PKEA // KIT-E12-PKEA // KIT-E15-PKEA // KIT-E18-PKEA

OUTDOOR FEATURES
- Cooling from as low as ambient -15 °C
- Electronic expansion valve (accurate sub-cooling and adjustable refrigerant flow)
- Outdoor DC fan motor to provide flexible air-flow to ensure optimum condensation pressure (work on outdoor pipe temperature sensor)

Included with the indoor unit

CU-E9PKEA
CU-E12PKEA

CU-E15PKEA
CU-E18PKEA

KIT			KIT-E9-PKEA	KIT-E12-PKEA	KIT-E15-PKEA	KIT-E18-PKEA
Indoor			CS-E9PKEA	CS-E12PKEA	CS-E15PKEA	CS-E18PKEA
Outdoor			CU-E9PKEA	CU-E12PKEA	CU-E15PKEA	CU-E18PKEA
Cooling capacity	Nominal (Min - Max)	kW	2.50 (0.85-3.00)	3.50 (0.85-4.00)	4.20 (0.98-5.00)	5.00 (0.98-6.00)
	Nominal (Min - Max)	kCal/h	2,150 (730-2,580)	3,010 (730-3,440)	3,610 (840-4,300)	4,300 (840-5,160)
EER [1]	Nominal (Min - Max)	Energy Saving	4.85 (4.23-5.00) A	4.02 (3.57-5.00) A	3.50 (3.50-3.16) A	3.47 (3.50-3.02) A
SEER	Nominal	Energy Saving	7.1 A++	6.7 A++	6.3 A++	6.9 A++
Pdesign (cooling)		kW	2.5	3.5	4.2	5.0
Power input Cooling	Nominal (Min - Max)	kW	0.515 (0.17-0.71)	0.87 (0.17-1.12)	1.20 (0.28-1.58)	1.44 (0.28-1.99)
Annual electricity consumption (cooling) [2]		kWh	123	183	233	254
Heating capacity	Nominal (Min - Max)	kW	3.40 (0.85-5.40)	4.00 (0.85-6.60)	5.40 (0.98-7.10)	5.80 (0.98-8.00)
	Nominal (Min - Max)	kCal/h	2,920 (730-4,640)	3,440 (730-5,680)	4,640 (840-6,110)	4,990 (840-6,880)
Heating capacity at -7°C	Nominal	kW	3.91	4.78	5.14	5.80
COP [1]	Nominal (Min - Max)	Energy Saving	4.86 (4.12-5.15) A	4.35 (3.63-5.15) A	3.75 (2.88-3.24) A	3.82 (2.88-3.11) A
SCOP	Nominal	Energy Saving	4.4 A+	4.1 A+	3.9 A	4.2 A+
P Design at -10 °C		kW	2.8	3.6	3.6	4.4
Power input Heating	Nominal (Min - Max)	kW	0.7 (0.165-1.31)	0.92 (0.165-1.82)	1.44 (0.34-2.19)	1.52 (0.340-2.57)
Annual electricity consumption (heating) [2]		kWh	891	1229	1292	1467
Indoor Unit						
Power source		V	230	230	230	230
Recommended Fuse		A	16	16	16	16
Recommended power cable section		mm²	1.5	1.5	1.5	1.5
Connection indoor / outdoor		mm²	4 x 1.5	4 x 1.5	4 x 1.5	4 x 2.5
Current (Nominal)	Cooling / Heating	A	2.5 / 3.3	4.0 / 4.2	5.4 / 6.5	6.4 / 6.8
Max. Current		A	7.8	8.4	9.6	11.3
Air Volume	Cooling / Heating	m³/h	798 / 876	816 / 882	846 / 900	1074 / 1158
Moisture removal volume		l/h	1.5	2,0	2.4	2.8
Sound pressure Level [3]	Cooling - Heating (Hi / Lo / S-Lo)	dB(A)	39 / 26 / 23 - 40 / 27 / 24	42 / 29 / 26 - 42 / 33 / 30	43 / 32 / 29 - 43 / 35 / 32	44 / 37 / 34 - 44 / 37 / 34
Sound power Level	Cooling / Heating (Hi)	dB	55 / 56	58 / 58	59 / 59	60 / 60
Dimensions	H x W x D	mm	295 x 870 x 255	295 x 870 x 255	295 x 870 x 255	295 x 1070 x 255
Net weight		kg	10	10	10	13
Outdoor Unit						
Air Volume	Cooling / Heating	m³/h	1878 / 1782	1974 / 1926	2052 / 1980	2352 / 2274
Sound pressure Level [3]	Cooling / Heating (Hi)	dB(A)	46 / 47	48 / 50	46 / 46	47 / 47
Sound power Level	Cooling / Heating (Hi)	dB	61 / 62	63 / 65	61 / 61	61 / 61
Dimensions [4]	H x W x D	mm	622 x 824 x 299	622 x 824 x 299	695 x 875 x 320	695 x 875 x 320
Net weight		kg	36	36	45	46
Piping connections	Liquid / Gas pipe	inch (mm)	1/4" (6.35) / 3/8" (9.52)	1/4" (6.35) / 3/8" (9.52)	1/4" (6.35) / 1/2" (12.70)	1/4" (6.35) / 1/2" (12.70)
Refrigerant Loading	R410A	kg	1,100	1,100	1.060	1.240
Elevation difference (in/out)	Max	m	5	5	15	15
Piping length	Min / Max	m	3 / 15	3 / 15	3 / 15	3 / 20
Precharge length	Max	m	7.5	7.5	7.5	7.5
Additional charge		g/m	20	20	20	20
Operating range	Cooling Min / Max	°C	-15 / +43	-15 / +43	-15 / +43	-15 / +43
	Heating Min / Max	°C	-15 / +24	-15 / +24	-15 / +24	-15 / +24

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)
1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) Add 70 mm for piping port.
Specifications subject to change without notice.
For detailed information about ErP, please visit our page http://www.doc.panasonic.de

Internet Control is a next generation system providing a user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.

Inverter System. The Inverter range provides greater efficiency, more comfort and less noise than classic air conditioners. The Inverter system provides more precise temperature control, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels.

Exceptional Seasonal Cooling Efficiency based on the new ErP regulation. Higher the SEER ratings mean greater efficiency. Save all the year while cooling!

Exceptional Seasonal Heating Efficiency based on the new ErP regulation. Higher the SCOP ratings mean greater efficiency. Save all the year while heating!

Down to -15 °C in cooling only mode The air conditioner works in cooling only mode with an outdoor temperature of -15 °C.

Down to -15 °C in heating mode The air conditioner works in heat pump mode with an outdoor temperature as low as -15 °C.

The communication port is integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.

New Panasonic R2 Rotary Compressor. Designed to withstand extreme conditions, Panasonic Rotary delivers high performance, efficiency and reliable service, no matter where you are.

5 Years Warranty. We guarantee the compressors in the entire range for five years.

Panasonic

To find out how Panasonic cares for you, log on to: www.aircon.panasonic.eu

Contact Details: Telephone: 01344 853182 / www.panasonic.co.uk/aircon
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