

WELCOME TO THE COMMERCIAL RANGE



Here are some of your new air conditioner's major features. Panasonic has developed an impressive range of highly efficient Commercial Air Conditioners. This range confirms our commitment to the environment. Our Inverter compressors optimise performance and thus reduce energy costs.



HIGHLIGHTED FEATURES





PACi: Commercial air to air. The full solution for shops, restaurants, offices or residential applications with outstanding efficiency and compact in size.

Commercial benefits

Great savings and improved wellness.

Panasonic has developed an impressive range of highly efficient Commercial Air Conditioners. Our Inverter compressors optimise performance and thus reduce energy costs.

A wide range for the commerce, office or residence.

From the smaller 1X1 to the more complete 4x1 solutions, it doesn't

matter which your need is. Panasonic can offers you the best solution to get the best clima.

High connectivity.

The new control systems allows you to have complete control of all your installations. All your units from several locations, receive status updates in real-time, preventing breakdowns and optimizing costs.

Energy saving

28%
ECONAVI

Intelligent Human Activity Sensor and new Sunlight Sensor technologies that can detect and reduce waste by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

A++
7,40 SEER

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

A+
4,40 SCOP

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

INVERTER+

Inverter plus products improve on the characteristics of standard Inverter range by over 20%. This means 20% less consumption and 20% off your electric bill. A Inverter plus is also A class on cooling and heating mode.

HIGH EFFICIENT COMPRESSOR

Wider operation Hz range of compressor realize more high efficient operation through the year. For Big PACi Series PE2.

High performance

BLUEFIN

Panasonic has extended the life of its condensers with an original anti-rust coating. For Big PACi Series PE2.

BIG SIZE FAN

Big size Fan makes larger airflow rate and very silent operation at low speed. For Big PACi Series PE2.

DC FAN

DC Fan: Save and precise.

-15°C
COOLING MODE

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

-20°C
HEATING MODE

The air conditioner works in heat pump mode even when outdoor temperatures are as low as -20°C or -15°C.

R22 RENEWAL

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

5 YEARS COMPRESSOR WARRANTY

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

High connectivity

PROFESSIONAL AC SMART CLOUD

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

INTERNET CONTROL

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.

BMS CONNECTIVITY

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.

PACi OUTDOOR UNITS ENERGY SAVING CONCEPT



Product quality and safety. All Panasonic air conditioners undergo strict quality and safety tests before sale. This rigorous process includes obtaining all necessary safety approvals, to ensure that all air conditioners we sell are not only built to the highest market standards, but are also completely safe.

New Panasonic Mini PACi Series PE2

New outdoor PACi Elite from 3,6kW to 6,0kW and PACi Standard 6,0kW to 7,1kW, all made in Japan.

Fully new outdoor design with last generation compressor. Higher performance and better partial load. Includes control consumption, 0-10V demand control and all latest remote controller's functionalities.

Higher efficiency:

- New heat exchanger
- New and bigger fan
- New Panasonic Compressor
- New chassis

PACi Standard: For economy and value

With high quality design and engineering, the PACi Standard is the perfect solution for projects which demand quality on a limited budget. In addition, its compact size and light weight make it ideal for installations with limited space including small commercial and residential applications.

The outdoor unit is much more compact than the previous model. The slim and lightweight design means the PACi outdoor unit can be installed in a number of situations. On the 12,5kW (996 x 940 x 340mm).

PACi Standard. From 6,0 to 14,0kW.

- Good balance, system cost vs energy efficiency
- Top class SEER/SCOP as a Standard Inverter category
SEER: A++ / SCOP: A+ at 10,0kW (in 90x90 Cassette)
- Interchangeable controller with ECOi
- Compact outdoor units
- Twin connection possible
- Cooling operation up to -10°C
- Heating operation up to -15°C

New Big PACi Elite

New PACi 8 and 10HP are designed to adapt to current and most demanding commercial needs. Ready to connect to 1 big ducted indoor unit up to 4 indoor units.

Large capacity PACi Elite. Trusted power and high efficiency:

- Higher efficiency
- Better partial load (10% ~ 100%)
- More flexible piping
- Bluefin anti-rust coating
- 0-10V control demand
- Energy saving functions
- AHU connection kit
- From 1 to 4 indoor units



PACi Elite: Newly designed next generation of commercial air conditioning

Outstanding performance at low temperatures, high energy efficiency, power consumption in remote control display. Energy-saving concept. The use of energy saving design for the structure of fans, fan motors, compressors and heat exchangers resulted in high COP value which ranked as one the top class in the industry. In addition, use of highly efficient R410A refrigerant reduces CO₂ emission and lowers operating costs.

PACi Elite. From 3,6 to 25,0kW.

- Meeting all necessary safety approvals to ensure quality and safety
- Top-class SEER: A++ / SCOP: A++ at 10,0kW (in 90x90 Cassette)
- Cooling operation is possible when outdoor temperature as high as 46°C
- DC inverter technology combined with R410A for excellent efficiency
- Cooling operation is possible when outdoor temperature as low as -15°C
- Heating operation is possible when outdoor temperature as low as -20°C
- Compact outdoor units
- Auto restart from outdoor unit
- Twin, Triple and Doble-Twin connection possible



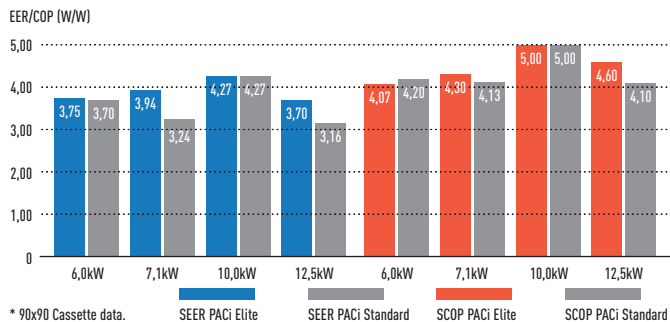
PACi ELITE: EXCELLENT SEER AND SCOP VALUES

SEASONAL
EFFICIENCY
SEER — SCOP
A++ / A++



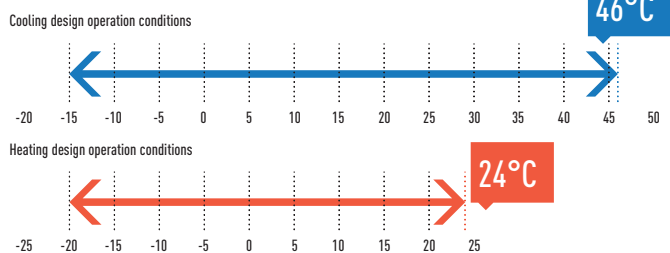
Operating efficiency has been improved using highly efficient R410A refrigerant, new DC inverter compressor, new DC motor and a new heat exchanger design.

Improved energy saving



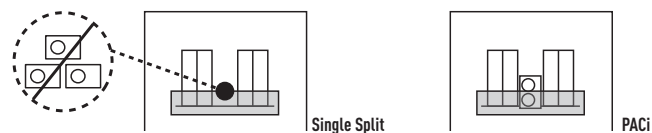
Design operation conditions

Cooling operation is possible when outdoor temperature as low as -15°C or as high as 46°C. Heating operation is possible when outdoor temperature as low as -20°C. The remote control temperature setting offers a range from 18°C to 30°C.

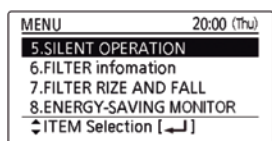


Compact & Flexible-design

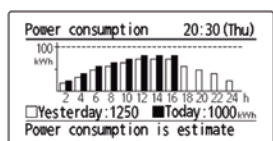
The slim and lightweight design means the PACi outdoor unit can be installed in a number of compact situations. As the unit only weighs 98kg, it is easy to carry and easy to install.



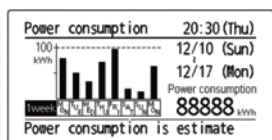
Energy consumption monitoring display with the CZ-RTC5A



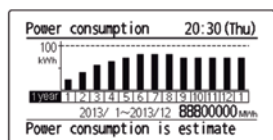
Menu selection: 3 types (Day/Week/Year) of display are available.



Daily Energy consumption: Data is shown with Yesterday's record. (Graph starts from 0 o'clock to 24 o'clock only.)



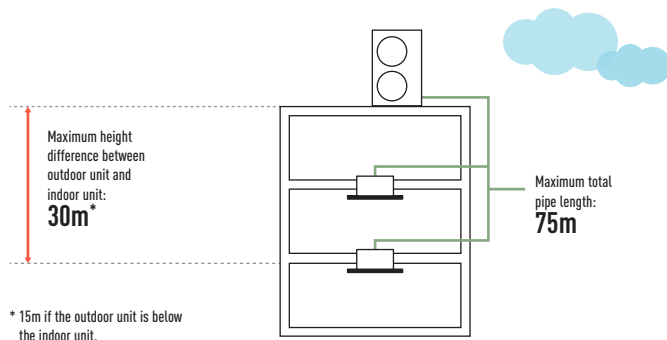
Weekly Energy consumption: Power consumption of each day of the week can be checked.



Annual Energy consumption: Power consumption of each month can be checked.

Increased piping length for greater design flexibility

Adaptable to various building types and sizes. Maximum piping length: 75m (10.0, 12.5, 14.0kW). 50m (6.0, 7.1kW).



Excellent SEER and SCOP values

Panasonic have an extremely high SEER and SCOP values following the SBEM method (some other manufacturers may use another non official calculation method). Developed by BRE, SBEM (Simplified Building Energy Model) is the basis of non-domestic building energy calculations. Based on the National calculation method (NCM), it is used to determine compliance with Part L of the Building Regulations and is also used to provide Energy Performance Certification.

Non-Domestic Building Services Compliance Guide provides information on various aspects of the calculation method, including those of Heat Pumps (Section 3), and Comfort Cooling (Section 9).

Part Load COP	SCOP - Seasonal Coefficient of Performance				SEER - Seasonal Energy Efficiency Rating			
	25%	50%	75%	100%	25%	50%	75%	100%
Ambient conditions	15°C	7°C	1°C	-5°C	20°C	25°C	30°C	35°C
Weighting factor	0,20 (a)	0,36 (b)	0,32 (c)	0,12 (d)	0,20 (a)	0,36 (b)	0,32 (c)	0,12 (d)

UK winter -5°C DB (outdoor temp.), 20°C WB (indoor temp.). UK summer 21°C DB (outdoor temp.), 16°C WB (indoor temp.).

ESEER calculation corresponds with below conditions and power input of indoor units is not included.

- Indoor temperature: 27°C DB / 19°C WB - Outdoor temperature conditions

Part load ratio	25%	50%	75%	100%
Outdoor air temperature (°C DB)	20	25	30	35
Weighting coefficients	0,23	0,41	0,33	0,03

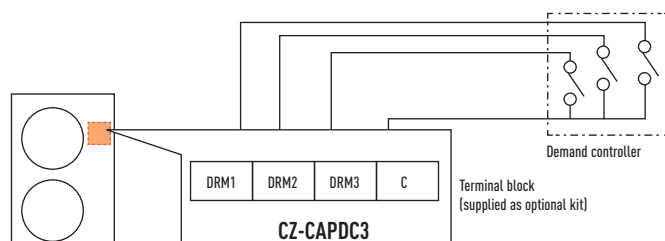
- Formula : 0,23 x EER25% + 0,41 x EER50% + 0,33 x EER75% + 0,03 x EER100%.

Demand response compliant (CZ-CAPDC3)

This optional part allows demand control of the outdoor unit.

Several level of settings are available:

- Level-1, 2, 3 : 75 / 50 / 0 %
- Level-1, 2 can be set in 40 - 100% (40, 45, 50...95, 100: each 5%)



Demand control terminal is available to control 0-50-75% of capacities.

SOLUTIONS FOR SERVER ROOMS



High efficiency products for 24/7 applications. Panasonic has developed a complete range of solutions for server rooms which efficiently protect your servers, keeping them at an appropriate temperature even when the outdoor temperature is below -20°C.

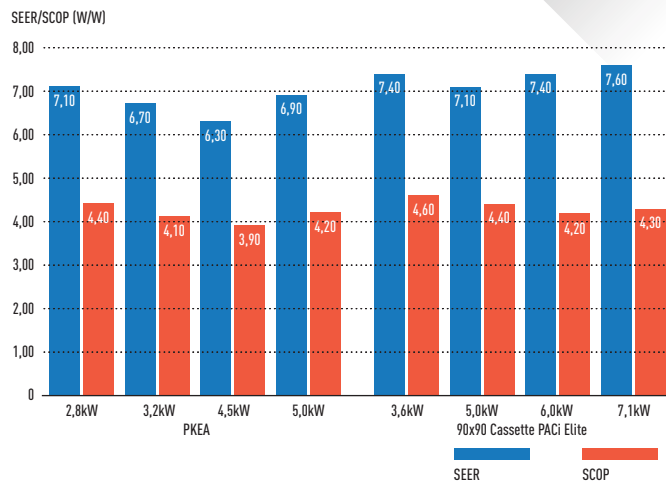


High efficiency all the year

On 24/7 operation, the performance of the air conditioning is a key factor. When the efficiency is high, the return on investment of such units is quickly reached.

Key points

- From 2,8 to 5kW with PKEA units, from 3,6 to 14kW with PACi units
- Backup function
- Redundancy function
- Alternative run function
- Error information by dry contact
- Operation even at -20°C outdoor temperature
- Excellent performance with excellent SEER
- Product design for 24/7 operation

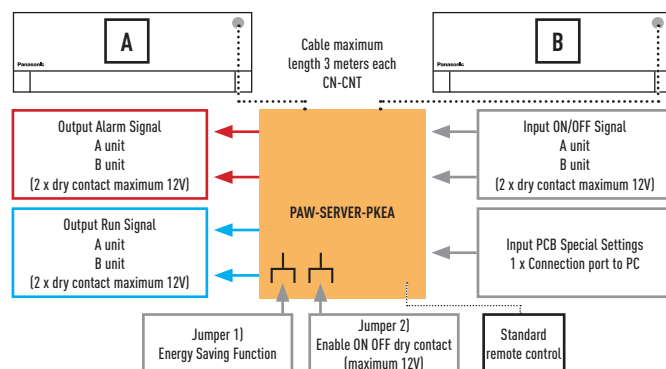


Interface to run 2 PKEA. PAW-SERVER-PKEA

The PAW-SERVER-PKEA server room interface manages redundancy and backup of two PKEA units with two different selectable modes:

- Plug and play by embedded redundancy and backup algorithm (no external signal needed. Further details please refer to operation manual)
- External (third party PLC) redundancy and backup management by dry contact

All settings are possible without the need for a computer connection. A special Energy Saving Mode is selectable by deep switch (available only in plug and play mode). The level of remote control input prohibition can be set when external management is by dry contact.



Interfaces to run 2 or up to 3 PACi and VRF Range

PAW-PACR3.

In combination with one PAW-T10V on each indoor unit, allows the redundant operation of 2 (or 3) PACi or VRF indoor units. All units will be operated by programmable turns in order to achieve the same operating time (example turn every 8 hours with 24 hours). If the room temperature exceeds a freely set value, the 2nd (or 3rd) unit will be switched ON and an alarm will be activated.

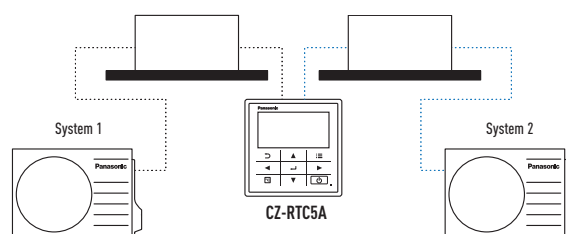
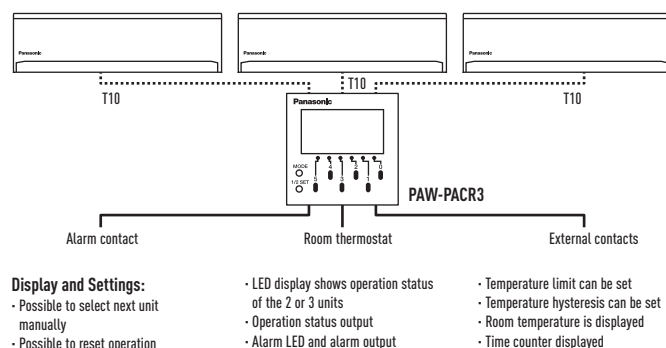
Backup control by using CZ-RTC5A.

Group wiring of 2 systems of PACi can do auto individual control.

- Rotation operation
- Backup operation
- Support operation

CZ-CAPRA1.

New Domestic with CZ-CNT port integration to PACi and ECOi.



NEW GENERATION PACi 90x90 CASSETTE



Panasonic introduces new flat panel design which is modern and matching well with your space. These cassettes have developed to satisfy today's customer needs such as highest energy saving, maximum comfort and healthier air.

New PACi Cassette Panasonic

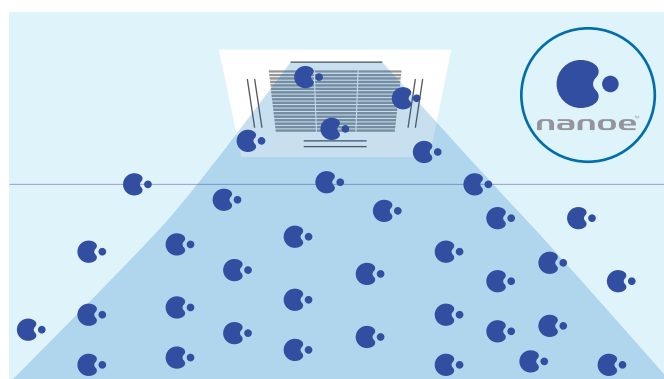
- New flat panel design
- Better SCOP & SEER (up to 15%)
- Advanced comfort and energy saving by new Econavi sensor
- Air purification nanoe™ system
- Super quiet operation from 28dB(A)

These cassettes offer upgraded Econavi and nanoe™ purification system as accessories for making application space more comfortable, healthy and efficient.

Always fresh and clean air with nanoe™

- New nanoe™ is available by the advanced technology of room air conditioning.
- Purificating operation can work simultaneously or independently from heating/cooling operation.
 - Inhibiting viruses, bacteria & deodorisation (bacteria, fungus, pollen, virus and cigarette smoke). OH radicals in nanoe™ pull bacteria's hydrogen out and it is effectively deodorised be sterilised
 - Clean inside by nanoe™ + Dry control: inside of indoor unit can be cleaned by short operation circuit with nanoe™ and drying

CZ-RTC5A and optional accessory CZ-CNEXU1 are required to use nanoe™ function.



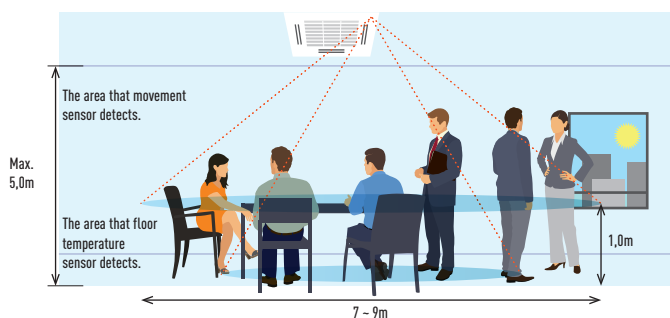
Econavi intelligent sensor

Human activity sensor and floor temperature sensor can reduce waste by optimising air conditioner operation.




Advanced Econavi functions.


2 sensors (movement and floor temperature) can find waste of energy and control effectively. Floor temperature can detect up to 5m ceiling height.




Econavi exclusive panel. Optional (CZ-KPU3A)



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



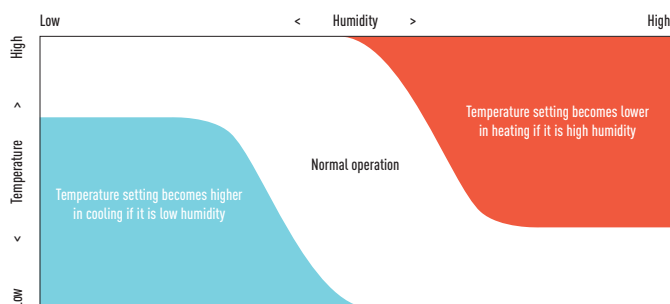
Movement sensor.
This sensor detects the amount of human activity, and operates effectively.



Wired remote controller CZ-RTC5A is required.

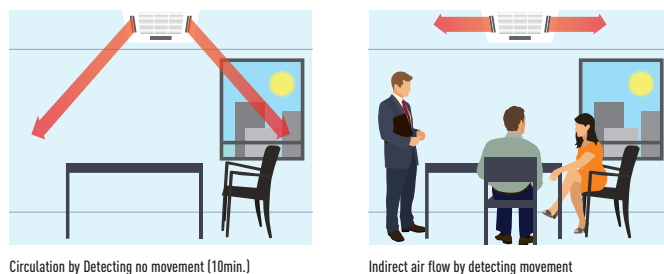
Humidity sensor.

New humidity sensor has added on air suction part, and realises comfort and energy saving based on temperature and humidity.




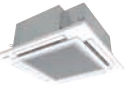












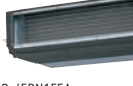


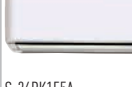









Group control, circulation function.

Circulating operation is activated when nobody is there, and mix air in the whole room. Minimize temperature gap in both heating and cooling operation.







RANGE OF COMMERCIAL UNITS






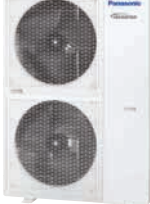
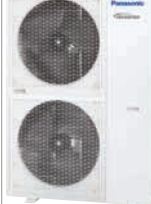
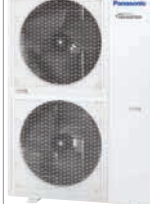


Indoor Units PACi Standard and Elite	3,6kW ¹	4,5kW ¹	5,0kW	6,0kW
New 4 Way 90x90 Cassette PACi Inverter+	 S-36PU2E5A	 S-45PU2E5A	 S-50PU2E5A	 S-60PU2E5A
4 Way 60x60 Cassette PACi Inverter+	 S-36PY2E5A	 S-45PY2E5A	 S-50PY2E5A	
Ceiling PACi Inverter+	 S-36PT2E5A	 S-45PT2E5A	 S-50PT2E5A	 S-60PT2E5A
High Static Pressure Hide Away PACi Inverter+	 S-36PF1E5A	 S-45PF1E5A	 S-50PF1E5A	 S-60PF1E5A
Low Static Pressure Hide Away PACi Inverter+	 S-36PN1E5A	 S-45PN1E5A	 S-50PN1E5A	 S-60PN1E5A
Wall PACi Inverter+	 S-36PK1E5A	 S-45PK1E5A	 S-50PK1E5A	 S-60PK1E5A
High Static Pressure Hide Away 20,0 - 25,0kW PACi Inverter+				
Air Curtain with DX Coil Jet-Flow // Standard				

Outdoor Units PACi Standard and Elite	3,6kW		5,0kW	6,0kW
PACi Standard				 U-60PE2E5A ¹
PACi Elite	 U-36PE2E5A ¹		 U-50PE2E5A ¹	 U-60PE2E5A ¹

1) The indoor units from 3,6 to 4,5kW are only available only for Twin, Triple and Doble-Twin combinations. ¹ Single Phase ² Three Phase.

Wall Mounted for professional applications	2,8kW	3,2kW	4,5kW	5,0kW
Wall Mounted PKEA Professional Inverter -20°C	 KIT-E9-PKEA	 KIT-E12-PKEA	 KIT-E15-PKEA	 KIT-E18-PKEA

7,1kW	10,0kW	12,5kW	14,0kW	20,0kW	25,0kW
 S-71PU2E5A	 S-100PU2E5A	 S-125PU2E5A	 S-140PU2E5A		
 S-71PT2E5A	 S-100PT2E5A	 S-125PT2E5A	 S-140PT2E5A		
 S-71PF1E5A	 S-100PF1E5A	 S-125PF1E5A	 S-140PF1E5A		
 S-71PN1E5A	 S-100PN1E5A	 S-125PN1E5A	 S-140PN1E5A		
 S-71PK1E5A	 S-100PK1E5A (9,5kW)				
				 S-200PE2E5	 S-250PE2E5
	 PAW-10PAIRC-MJ // PAW-10PAIRC-MS (9,2kW)		 PAW-15PAIRC-MJ // PAW-20PAIRC-MS (17,5kW)	 PAW-20PAIRC-MJ (23,1kW)	

7,1kW	10,0kW	12,5kW	14,0kW	20,0kW	25,0kW
 U-71PEY2E5 ¹	 U-100PEY1E5 ¹ // U-100PEY1E8 ^{III}	 U-125PEY1E5 ¹ // U-125PEY1E8 ^{III}	 U-140PEY1E8 ^{III}		
 U-71PE1E5A ¹ // U-71PE1E8A ^{III}	 U-100PE1E5A ¹ // U-100PE1E8A ^{III}	 U-125PE1E5A ¹ // U-125PE1E8A ^{III}	 U-140PE1E5A ¹ // U-140PE1E8A ^{III}	 U-200PE2E8A ^{III}	 U-250PE2E8A ^{III}

Air Handling Unit

3 types of AHU Kit: Deluxe, Medium and Light.
Up to 28kW (Common use for all outdoor units. Only 1 by 1 connection is allowed.)

28,0kW



PAW-280PAH2 // PAW-280PAH2M // PAW-280PAH2L

WALL MOUNTED PKEA PROFESSIONAL INVERTER -20°C

SERVER ROOM SOLUTION WITH THE HIGHEST EFFICIENCY OF THE MARKET
24/7 OPERATION

Complete line-up with high efficiency even at -20°C

High durability for 24/7 operation

Indoor Fan. Cross-Flow-Fan.

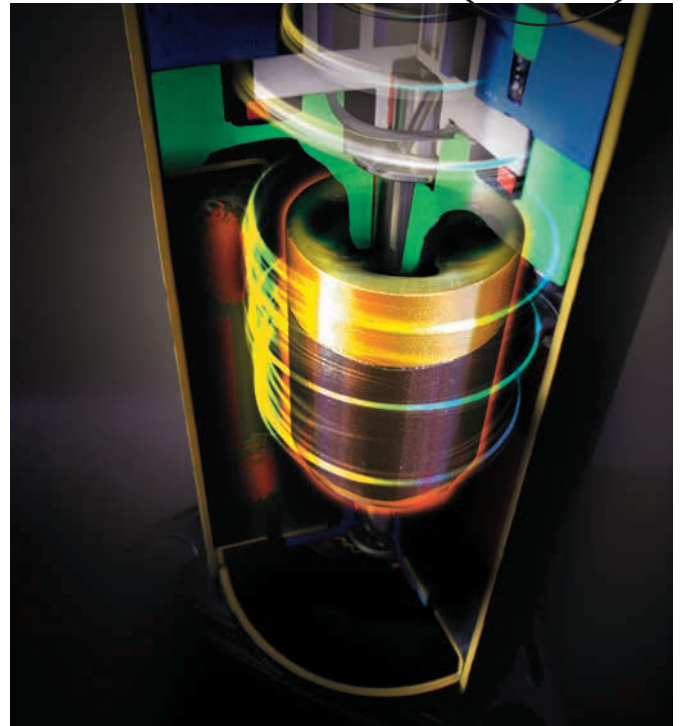
- High durability rolling bearings, large size (φ105mm) fan
- High efficiency blade
- Random pitch blade (low sound)

Compressor.

DC2P Panasonic original compressor, with high efficiency and reliability.

Why is the Panasonic R2 Rotary Compressor so efficient?

1. High efficiency motor: the premium silicon steel motor meets industry efficiency requirements
2. Improved lubrication of high volume oil pump: the extended, high volume oil pump in conjunction with a larger capacity oil reservoir provides superior lubrication
3. Accumulator has larger refrigerant capacity: the larger accumulator accommodates generous refrigerant amounts needed in longer line length installations



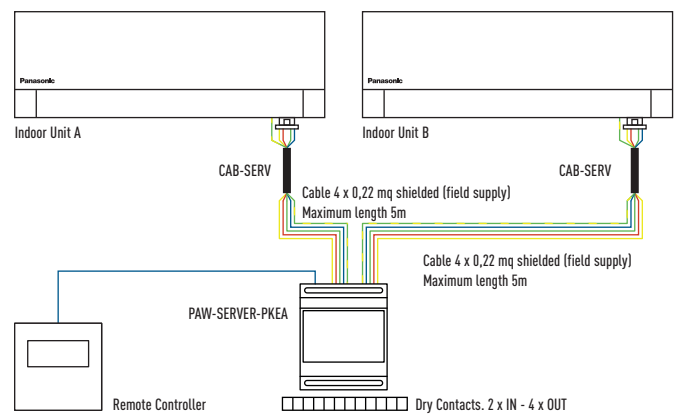
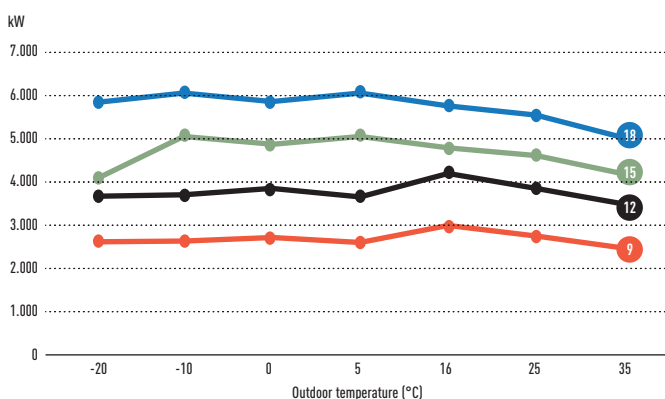
Interface option to manage server room operation

The PAW-SERVER-PKEA server room interface manages redundancy and backup of two PKEA units with two different selectable modes:

- Plug and play by embedded redundancy and backup algorithm (no external signal needed. Further details please refer to operation manual)
- External (third party PLC) redundancy and backup management by dry contact

All settings are possible without the need for a computer connection. A special Energy Saving Mode is selectable by deep switch (available only in plug and play mode). The level of remote control input prohibition can be set when external management is by dry contact.

PKEA provides high capacity at -20°C!



Main Features

- Cascade management
- Back Up system
- Overheating prevention

- ECO function
- BMS management available

Only available

- CS.ZXXTKEA
- CS.EXXQKE / PKE / NKE



Included on the kit.
Timer remote controller



This Wall Mounted air conditioner is especially designed for professional applications such as computer rooms where cooling inside the room is necessary even when the outside temperature is low. Furthermore this air conditioner has an automatic changeover system, in order to maintain the inside temperature even when sharp outside temperature changes occur.

- Highly efficient even at -20°C
- High durability rolling bearings
- Additional piping sensors to prevent freezing

Technical focus

- This units can be installed on R22 pipings
- Designed for 24h/7d a week operation

Outdoor Features

- Cooling even when ambient temperature is as low as -20°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 (works on outdoor pipe temperature sensor)

WALL MOUNTED PKEA

			Single Phase			
			2,8kW	3,2kW	4,5kW	5,0kW
KIT			KIT-E9-PKEA	KIT-E12-PKEA	KIT-E15-PKEA	KIT-E18-PKEA
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)
EER ¹⁾	Nominal (Min - Max)	W/W	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
Cooling capacity at -10°C		kW	2,63	3,69	5,04	6,00
EER at -10°C		W/W	7,19	5,96	6,01	6,00
Cooling capacity at -20°C		kW	2,61	3,66	4,06	5,82
EER at -20°C		W/W	6,71	5,56	4,39	5,39
SEER²⁾		W/W	7,10 A++	6,70 A++	6,30 A++	6,90 A++
Pdesign		kW	2,5	3,5	4,2	5,0
Input power cooling	Nominal (Min - Max)	kW	0,52 (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) ³⁾		kWh/a	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)
Heating capacity at -7°C ⁴⁾		kW	3,33	4,07	4,10	4,98
COP ¹⁾	Nominal (Min - Max)	W/W	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
SCOP⁵⁾		W/W	4,40 A+	4,10 A+	3,90 A	4,20 A+
Pdesign at -10°C		kW	2,8	3,6	3,6	4,4
Input power heating	Nominal (Min - Max)	kW	0,70 (0,165 - 1,31)	0,92 (0,17 - 1,82)	1,44 (0,34 - 2,19)	1,52 (0,34 - 2,57)
Annual electricity consumption (heating) ³⁾		kWh/a	891	1,229	1,292	1,467
Indoor Unit			CS-E9PKEA	CS-E12PKEA	CS-E15PKEA	CS-E18PKEA
Power source		V	230	230	230	230
Recommended fuse		A	16	16	16	16
Connection indoor / outdoor		mm	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5
Current	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	m ³ /min	13,3 / 14,6	13,6 / 14,7	14,1 / 15,0	17,9 / 19,3
Moisture removal volume		L/h	1,5	2,0	2,4	2,8
Sound pressure ⁶⁾	Cooling (Hi / Lo / S-Lo)	dB(A)	39 / 26 / 23	42 / 29 / 26	43 / 32 / 29	44 / 37 / 34
	Heating (Hi / Lo / S-Lo)	dB(A)	40 / 27 / 24	42 / 33 / 29	43 / 35 / 29	44 / 37 / 34
Sound power	Cooling / Heating (Hi)	dB	55 / 56	58 / 58	59 / 59	60 / 60
Dimensions / Net weight	H x W x D	mm / kg	295 x 870 x 255 / 10	295 x 870 x 255 / 10	295 x 870 x 255 / 10	295 x 1.070 x 255 / 13
Outdoor Unit			CU-E9PKEA	CU-E12PKEA	CU-E15PKEA	CU-E18PKEA
Air Volume	Cooling / Heating	m ³ /min	31,3 / 29,7	32,9 / 32,1	34,2 / 33,0	39,2 / 37,9
Sound pressure ⁶⁾	Cooling / Heating (Hi)	dB(A)	46 / 47	48 / 50	46 / 46	47 / 47
Sound power	Cooling / Heating (Hi)	dB	61 / 62	63 / 65	61 / 61	61 / 61
Dimensions ⁷⁾ / Net weight	H x W x D	mm / kg	622 x 824 x 299 / 36	622 x 824 x 299 / 36	695 x 875 x 320 / 45	695 x 875 x 320 / 46
Piping connections	Liquid pipe / 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)
Piping length range / Elevation difference (in/out) ⁸⁾		m	3 - 15 / 5	3 - 15 / 5	3 - 15 / 15	3 - 20 / 15
Pipe length for additional gas / Additional gas amount	m / g/m		7,5 / 20	7,5 / 20	7,5 / 20	7,5 / 20
Refrigerant loading	R410A	kg	1,10	1,10	1,06	1,24
Operating range	Cooling Min / Max	°C	-20 ~ +43	-20 ~ +43	-20 ~ +43	-20 ~ +43
	Heating Min / Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Rating Conditions for cooling capacity at low temperature: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 0°C DB / -10°C WB.

1) EER and COP, Energy Saving Classification, is at 220 / 240V (380 / 415V) only in accordance with EU directive 2002/31/EC. 2) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a[EER25]+b[EER50]+c[EER75]+d[EER100] where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0,2, b=0,36, c=0,32 and d=0,03. The internal temperatures are taken at 27°C DB and 19°C WB. 3) The annual consumption (ErP) is calculated by formula determined by ErP regulation. 4) Heating capacity is calculated including defrost factor correction. 5) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 6) The Sound pressure of the units shows the value measured of a position 1 meter in front of the main body and 1,5m from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) Add 70mm for piping port. 8) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.

A++
7,10 SEER

A+
4,48 SCOP

INVERTER+

R2 ROTARY COMPRESSOR

23dB(A) SUPER QUIET

-20°C COOLING MODE

-15°C HEATING MODE

R22 RENEWAL

R410A

INTEGRATION P-LINE

INTERNET CONTROL

CONNECTIVITY

5 YEARS WARRANTY

SEER and SCOP: For KIT-E9-PKEA. SUPER QUIET: For KIT-Z25-PKEA. INTERNET CONTROL: Optional. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

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, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.



4 WAY 90x90 CASSETTE PACi INVERTER+

Large capacity PACi. Trusted power and high efficiency.

Thanks to advances in design and technology such as the new high performance turbo fan, more efficient and silent, the nanoe™ air cleaner, for total healthy and the floor temperature & humidity sensor to more control, the new U2 Panasonic 90x90 4 way cassette is the best Industry in energy savings, healthy and comfort.

Technical focus

- New high performance turbo fan, new path system for heat exchanger
- Lower noise in slow fan operation
- Industry top light weight, easy piping
- Easy installation structure of the panel
- Econavi: Floor temperature and humidity sensor added. Activity amount detection and new circulator
- Nanoe™: The first 10x for CAC (10 times more purification power). Inside cleaning by 10x nanoe™ + dry control

		PACi STANDARD							
		Single Phase				Three Phase			
		6,0kW	7,1kW	10,0kW	12,5kW	10,0kW	12,5kW	14,0kW	
KIT		KIT-60PUY2E5B	KIT-71PUY2E5B	KIT-100PUY2E5A	KIT-125PUY2E5A	KIT-100PUY2E8A	KIT-125PUY2E8A	KIT-140PUY2E8A	
Panel		CZ-KPU3	CZ-KPU3	CZ-KPU3	CZ-KPU3	CZ-KPU3	CZ-KPU3	CZ-KPU3	
Timer remote controller		CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	
Cooling capacity	Nominal (Min - Max)	kW	6,0 (2,0 - 7,1)	7,1 (2,0 - 7,7)	10,0 (3,3 - 12,5)	12,5 (3,8 - 15,5)	10,0 (2,7 - 11,5)	12,5 (3,8 - 13,5)	14,0 (3,3 - 15,5)
EER ¹⁾	Nominal (Min - Max)	W/W	3,70 (8,00 - 3,23) A	3,24 (8,00 - 2,91) A	4,27 (4,29 - 3,38) A	3,16 (4,22 - 2,77) B	3,16 (5,09 - 2,74) B	3,16 (4,22 - 2,77) B	3,25 (3,93 - 2,67) A
SEER ²⁾		W/W	7,00 A++	6,50 A++	7,60 A++	—	6,60 A++	—	—
Pdesign		kW	6,0	7,1	10,0	—	10,0	—	—
Annual energy consumption (ErP) ³⁾	Nominal (Min - Max)	kWh/a	1,62 (0,25 - 2,20)	2,19 (0,25 - 2,65)	2,34 (0,77 - 3,70)	3,96 (0,90 - 4,88)	3,16 (0,53 - 4,20)	3,96 (0,90 - 4,88)	4,31 (0,84 - 5,81)
Heating capacity	Nominal (Min - Max)	kW	6,0 (1,8 - 7,0)	7,1 (1,8 - 8,1)	11,2 (4,1 - 14,0)	12,5 (3,4 - 15,0)	10,0 (2,1 - 13,8)	12,5 (3,4 - 15,0)	14,0 (4,1 - 16,0)
Heating capacity at -7/-15°C ⁴⁾		kW	— / —	— / —	— / —	— / —	— / —	— / —	— / —
COP ¹⁾	Nominal (Min - Max)	W/W	4,20 (9,00 - 4,24) A	4,13 (9,00 - 3,68) A	5,00 (5,19 - 3,18) A	4,10 (4,66 - 3,41) A	4,15 (5,12 - 3,45) A	4,10 (4,66 - 3,41) A	4,15 (4,56 - 3,08) A
SCOP ⁵⁾		W/W	4,10 A+	4,20 A+	4,80 A++	—	4,30 A+	—	—
Pdesign at -10°C		kW	6,0	6,0	10,0	—	10,0	—	—
Input power heating	Nominal (Min - Max)	kW	1,43 (0,20 - 1,65)	1,72 (0,20 - 2,20)	2,24 (0,78 - 4,40)	3,05 (0,73 - 4,40)	2,41 (0,41 - 4,00)	3,05 (0,73 - 4,40)	3,37 (0,90 - 5,20)
Annual energy consumption (ErP) ³⁾		kWh/a	2,047	2,002	2,917	—	3,256	—	—
Indoor Unit			S-60PUZE5A	S-71PUZE5A	S-100PUZE5A	S-125PUZE5A	S-100PUZE5A	S-125PUZE5A	S-140PUZE5A
Air volume	Hi / Med / Lo	m³/min	21,0 / 16,0 / 13,0	22,0 / 16,0 / 13,0	36,0 / 26,0 / 18,0	37,0 / 27,0 / 19,0	36,0 / 26,0 / 18,0	37,0 / 27,0 / 19,0	38,0 / 29,0 / 20,0
Moisture removal volume		L/h	1,7	2,5	2,7	4,8	2,7	4,8	6,0
Sound pressure ⁶⁾	Hi / Med / Lo	dB(A)	36 / 31 / 28	37 / 31 / 28	45 / 38 / 32	46 / 39 / 33	45 / 38 / 32	46 / 39 / 33	47 / 40 / 34
Sound power	Hi / Med / Lo	dB	51 / 46 / 43	52 / 46 / 43	60 / 53 / 47	61 / 54 / 48	60 / 53 / 47	61 / 54 / 48	62 / 55 / 49
Dimensions (H x W x D)	Indoor	mm / kg	256 x 840 x 840 / 20	256 x 840 x 840 / 20	319 x 840 x 840 / 25	319 x 840 x 840 / 25	319 x 840 x 840 / 25	319 x 840 x 840 / 25	319 x 840 x 840 / 25
Net weight	Panel	mm / kg	33,5 x 950 x 950 / 5	33,5 x 950 x 950 / 5	33,5 x 950 x 950 / 5	33,5 x 950 x 950 / 5	33,5 x 950 x 950 / 5	33,5 x 950 x 950 / 5	33,5 x 950 x 950 / 5
Outdoor Unit			U-60PEY2E5	U-71PEY2E5	U-100PEY1E5	U-125PEY1E5	U-100PEY1E8	U-125PEY1E8	U-140PEY1E8
Power source		V	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	380 / 400 / 415	380 / 400 / 415	380 / 400 / 415
Recommended fuse		A	—	—	—	30	16	16	16
Connection		mm²	—	—	—	6,0	2,5	2,5	2,5
Current	Cooling	A	8,00 / 7,60 / 7,30	10,70 / 10,30 / 9,85	0,82 / 0,79 / 0,76	19,2 / 18,4 / 17,6	5,10 / 4,85 / 4,70	6,35 / 6,05 / 5,80	6,85 / 6,50 / 6,25
	Heating	A	7,05 / 6,75 / 6,45	8,50 / 8,10 / 7,80	0,81 / 0,78 / 0,75	15,4 / 14,8 / 14,2	4,15 / 3,95 / 3,80	5,15 / 4,90 / 4,70	5,65 / 5,35 / 5,20
Air volume	Cooling / Heating	m³/min	38 / 41	44 / 41	110 / 95	80 / 73	76 / 67	80 / 73	135 / 120
Sound pressure	Cooling / Heating (Hi)	dB(A)	46 / 48	49 / 49	52 / 52	56 / 56	54 / 54	56 / 56	54 / 53
Sound power	Cooling / Heating (Hi)	dB	65 / 68	69 / 69	69 / 69	73 / 73	70 / 70	73 / 73	71 / 70
Dimensions	H x W x D	mm	619 x 799 x 299	619 x 799 x 299	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	1.416 x 940 x 340
Net weight		kg	40	40	73	85	73	85	98
Piping connections	Liquid pipe	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)
	Gas pipe	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)	5/8 (15,88)
Piping length range / Elevation difference (in/out) ⁷⁾		m	3 ~ 40 / 30	3 ~ 40 / 30	5 ~ 50 / 30	5 ~ 50 / 30	5 ~ 50 / 30	5 ~ 50 / 30	5 ~ 50 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	30 / 40	30 / 40	30 / 50	30 / 50	30 / 50	30 / 50	30 / 50
Refrigerant (R410A)		kg / TCO: Eq.	1,95 / 4,0716	1,95 / 4,0716	2,60 / 5,4288	3,20 / 6,6816	2,60 / 5,4288	3,20 / 6,6816	3,40 / 7,0992
Operating range	Cooling Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heating Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP, Energy Saving Classification, is at 220 / 240V (380 / 415V) only in accordance with EU directive 2002/31/EC. 2) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a[EER25]+b[EER50]+c[EER75]+d[EER100] where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0,2, b=0,36, c=0,32 and d=0,03. The internal temperatures are taken at 27°C DB and 19°C WB. 3) The annual consumption(ErP) is calculated by formula determined by ErP regulation. 4) Heating capacity is calculated including defrost factor correction. 5) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 6) The Sound pressure of the units shows the value measured of a position 1 meter in front of the main body and 1,5 m from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.

STANDARD

ELITE

A++
7,60 SEER

A++
4,80 SCOP

-10°C
COOLING MODE

-15°C
HEATING MODE

A++
7,60 SEER

A++
4,80 SCOP

-15°C
COOLING MODE

-20°C
HEATING MODE

INVERTER+

ECONAVI
28%

nanoe
99%

DC FAN

R22 RENEWAL
R410A

INTERNET CONTROL

BMS CONNECTIVITY

5 YEARS WARRANTY

SEER and SCOP: For KIT-100KY2E5A.

SEER and SCOP: For KIT-100PUZE5A.

ECONAVI and INTERNET CONTROL: Optional. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

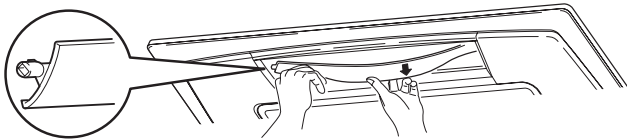
4 WAY 60x60 CASSETTE PACi INVERTER+

Small and powerful, ideal for offices and restaurants. Standard units only for Twin, Triple and Double-twin combinations.

High heating capacity at -7°C.

Special designed flap.

The flap can be removed easily for washing with water.



Technical focus

- Fresh air knock out
- Multidirectional air flow
- Integrated drain pump gives 850mm lift
- 3 speed centrifugal fan
- DC FAN for better efficiency and control
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be control by the remote control of the Panasonic indoor unit

PACi STANDARD*

			3,6kW	4,5kW	5,0kW
Cooling capacity		kW	3,6	4,5	5,0
Heating capacity		kW	4,2	5,2	5,6
Indoor Unit			S-36PY2E5A	S-45PY2E5A	S-50PY2E5A
Current	Cooling	A	0,30	0,32	0,35
	Heating	A	0,30	0,30	0,35
Input power	Cooling	kW	0,40	0,40	0,45
	Heating	kW	0,35	0,35	0,40
Air volume		m ³ /min	10 / 10	10 / 10	11 / 11
Moisture removal volume		L/h	2,1	2,5	2,8
Sound pressure ⁶⁾	Cooling (Hi / Med / Lo)	dB(A)	36 / 32 / 26	38 / 34 / 28	40 / 37 / 33
	Heating (Hi / Med / Lo)	dB(A)	36 / 32 / 26	38 / 34 / 28	40 / 37 / 33
Sound power level	Cooling (Hi)	dB	51 / 47 / 41	53 / 49 / 43	55 / 52 / 48
	Heating (Hi)	dB	51 / 47 / 41	53 / 49 / 43	55 / 52 / 48
Dimensions (H x W x D)	Indoor	mm	288 x 583 x 583	288 x 583 x 583	288 x 583 x 583
	Panel CZ-KPY3A	mm	31 x 700 x 700	31 x 700 x 700	31 x 700 x 700
	Panel CZ-KPY3B	mm	31 x 625 x 625	31 x 625 x 625	31 x 625 x 625
Net weight	Indoor	kg	18	18	18
	Panel	kg	2,4	2,4	2,4
Piping connections	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	1/2 (12,7)	1/2 (12,7)	1/2 (12,7)
Operating range	Cooling Min - Max	°C	+18 ~ +32	+18 ~ +32	+18 ~ +32
	Heating Min - Max	°C	+16 ~ +30	+16 ~ +30	+16 ~ +30

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ELITE



SEER and SCOP: For KIT-36PY2E5B. INTERNET CONTROL: Optional. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.



Included Controller:
Wired remote controller
CZ-RTC5A
Compatible with Econavi



Optional Controller:
Timer remote controller
CZ-RTC4
Compatible with Econavi



Optional Controller:
Wireless remote controller
CZ-RWSK2



Optional Controller:
Simplified remote controller
CZ-RE2C2

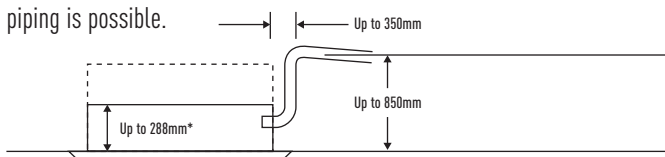


Panel
CZ-KPY3A (size 700 x 700mm)
CZ-KPY3B (size 625 x 625mm)



A drain height of approximately 850mm from the ceiling surface

The drain height can be increased by approx. 350mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible.



A lightweight unit at 18kg the unit is also very slim with a height of only 288mm, making installation possible even in narrow ceilings.

Lighter and slimmer, easier installation

Lightweight and very slim which makes installation possible even in narrow ceilings.

Designed to fit exactly into a 600 x 600mm ceiling grid without the need to alter the bar configuration.

Significant reduction of power consumption by using highly developed DC fan motors with variable speed, special heat exchangers, etc.

PACi ELITE

			3,6kW	5,0kW
KIT			KIT-36PY2E5B	KIT-50PY2E5B
Panel			CZ-KPY3A	CZ-KPY3A
Timer remote controller			CZ-RTC5A	CZ-RTC5A
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)
EER ¹⁾	Nominal (Min - Max)	W/W	4,50 (6,25 - 421) A	3,47 (6,25 - 3,16) A
SEER²⁾		W/W	6,30 A++	6,10 A++
Pdesign		kW	3,6	5,0
Input power cooling	Nominal (Min - Max)	kW	0,80 (0,24 - 0,95)	1,44 (0,24 - 1,77)
Annual energy consumption (ErP) ³⁾		kWh/a	200	287
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,5 - 5,0)	5,6 (1,5 - 6,5)
Heating capacity at -7°C ⁴⁾		kW		
Heating capacity at -15°C ⁴⁾		kW		
COP ¹⁾	Nominal (Min - Max)	W/W	4,08 (7,89 - 3,68) A	3,31 (7,89 - 3,00) C
SCOP⁵⁾		W/W	4,10 A+	3,90 A
Pdesign at -10°C		kW	3,6	5,0
Input power heating	Nominal (Min - Max)	kW	0,98 (0,19 - 1,36)	1,69 (0,19 - 2,17)
Annual energy consumption (ErP) ³⁾		kWh/a	1,229	1,795
Indoor Unit			S-36PY2E5A	S-50PY2E5A
Air volume	Cooling (Hi / Med / Lo)	m ³ /min	9,7 / 8,0 / 6,0	11,1 / 9,8 / 8,5
	Heating (Hi / Med / Lo)	m ³ /min	9,9 / 8,2 / 6,0	11,1 / 9,8 / 8,7
Moisture removal volume		L/h	2,1	2,8
Sound pressure ⁶⁾	Hi / Me / Lo	dB(A)	36 / 32 / 26	40 / 37 / 33
	Hi / Me / Lo	dB	51 / 47 / 41	55 / 52 / 48
Dimensions (H x W x D)	Indoor	mm	260 x 575 x 575	260 x 575 x 575
	Panel	mm	31 x 700 x 700	31 x 700 x 700
Net weight	Indoor (Panel)	kg	18 (2,4)	18 (2,4)
Outdoor Unit			U-36PE2E5A	U-50PE2E5A
Power source		V	220 / 230 / 240	220 / 230 / 240
Recommended fuse		A	—	—
Connection		mm ²	—	—
Current	Cooling	A	3,80 / 3,60 / 3,50	6,70 / 6,50 / 6,20
	Heating	A	4,70 / 4,50 / 4,35	8,05 / 7,70 / 7,40
Air volume	Cooling / Heating	m ³ /min	38 / 38	38 / 41
Sound pressure	Cooling / Heating (Hi)	dB(A)	45 / 46	46 / 48
Sound power level	Cooling / Heating (Hi)	dB	64 / 66	65 / 68
Dimensions	H x W x D	mm	619 x 799 x 299	619 x 799 x 299
Net weight		kg	39	39
Piping connections	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	1/2 (12,7)	1/2 (12,7)
Piping length range / Elevation difference (in/out) ⁷⁾		m	3 - 40 / 30	3 - 40 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	30 / 20	30 / 20
Refrigerant (R410A)		kg / TCO ₂ Eq.	1,40 / 2,9232	1,40 / 2,9232
Operating range	Cooling Min ~ Max	°C	-15 ~ +46	-15 ~ +46
	Heating Min ~ Max	°C	-20 ~ +24	-20 ~ +24

Accessories

CZ-RTC4	Standard Wired remote control with Econavi
CZ-RWSK2	Wireless remote control
CZ-RE2C2	Simplified remote control
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400mm
PAW-WTRAY	Tray for condenser water compatible with base ground support
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption (600 x 95 x 130mm, 500kg)
PAW-WPH7	Wind protection shield for U-50PE2E5A
PAW-WPH9	Wind protection shield for U-60PE2E5A, U-71PE1E5A/8A, U-100PE1E5/8, U-125PE1E5/8
PAW-WPH10	Wind protection shield for U-100PE1E5A/8A, U-125PE1E5A/8A, U-140PE1E5A/8A, U-140PE1E5/8

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, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.



U-36PE2E5A
U-50PE2E5A

CEILING PACi INVERTER+

This range of 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. A knock out is provided to allow for supplementary fresh air for improved air quality.

Technical focus

- Fresh air connection possible (Outside intake duct connection port of 100mm diameter is available on the unit)

- All units just 235mm high
- Twin rotary compressor dramatically reduces vibration and noise
- DC inverter control
- Large and wide air distribution
- Industry-leading low sound levels
- Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be control by the remote control of the Panasonic indoor unit

High heating capacity at -7°C.

			PACi STANDARD							
			Single Phase				Three Phase			
			6,0kW	7,1kW	10,0kW	12,5kW	10,0kW	12,5kW	14,0kW	
			KIT-60PTY2E5B	KIT-71PTY2E5B	KIT-100PTY2E5A	KIT-125PTY2E5A	KIT-100PTY2E8A	KIT-125PTY2E8A	KIT-140PTY2E8A	
Timer remote controller			CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	
Cooling capacity	Nominal (Min - Max)	kW	6,0 (2,0 - 7,1)	7,1 (2,0 - 7,7)	10,0 (2,7 - 11,5)	12,5 (3,8 - 13,5)	10,0 (2,7 - 11,5)	12,5 (3,8 - 13,5)	14,0 (3,3 - 15,0)	
EER ¹⁾	Nominal (Min - Max)	W/W	3,68 (8,00 - 3,16) A	3,21 (8,00 - 2,91) A	3,01(5,09 - 2,65) B	3,01 (4,22 - 2,62) B	3,01 (5,09 - 2,65) B	3,01 (4,22 - 2,62) B	2,98 (3,93 - 2,63) C	
SEER ²⁾		W/W	6,70 A++	6,10 A++	6,10 A++	—	6,00 A+	—	—	
Pdesign		kW	6,0	7,1	10,0	—	10,0	—	—	
Input power cooling	Nominal (Min - Max)	kW	1,63 (0,25 - 2,25)	2,21 (0,25 - 2,65)	3,32 (0,53 - 4,34)	4,15 (0,90 - 5,16)	3,32 (0,53 - 4,34)	4,15 (0,90 - 5,16)	4,70 (0,84 - 5,70)	
Annual energy consumption (ErP) ³⁾		kWh/a	313	407	574	—	584	—	—	
Heating capacity	Nominal (Min - Max)	kW	6,0 (1,8 - 7,0)	7,1 (1,8 - 8,1)	10,0 (2,1 - 13,8)	12,5 (3,4 - 15,0)	10,0 (2,1 - 13,8)	12,5 (3,4 - 15,0)	14,0 (4,1 - 16,0)	
Heating capacity at -7/-15°C ⁴⁾		kW	— / —	— / —	9,97 / 8,43	10,97 / 9,03	9,97 / 8,43	10,97 / 9,03	13,35 / 12,38	
COP ⁵⁾	Nominal (Min - Max)	W/W	4,35 (9,00 - 4,38) A	4,23 (9,00 - 3,77) A	3,85 (5,12 - 3,45) A	3,85 (4,66 - 3,41) A	3,85 (5,12 - 3,45) A	3,85 (4,66 - 3,41) A	3,88 (4,56 - 3,07) A	
SCOP ⁶⁾		W/W	4,00 A+	4,00 A+	3,90 A	3,40 ⁴⁾	3,90 A	3,40 ⁴⁾	3,52 ⁴⁾	
Pdesign at -10°C		kW	6,0	6,0	10,0	—	10,0	—	—	
Input power heating	Nominal (Min - Max)	kW	1,38 (0,20 - 1,60)	1,68 (0,20 - 2,15)	2,60 (0,41 - 4,00)	3,25 (0,73 - 4,40)	2,60 (0,41 - 4,00)	3,25 (0,73 - 4,40)	3,61 (0,90 - 5,21)	
Annual energy consumption (ErP) ³⁾		kWh/a	2,100	2,100	3,590	—	3,590	—	—	
Indoor Unit			S-60PT2E5A	S-71PT2E5A	S-100PT2E5A	S-125PT2E5A	S-100PT2E5A	S-125PT2E5A	S-140PT2E5A	
Air volume	Hi / Med / Lo	m ³ /min	20,0 / 17,0 / 14,5	21,0 / 18,0 / 15,5	30,0 / 25,0 / 23,0	34,0 / 28,0 / 24,0	30,0 / 25,0 / 23,0	34,0 / 28,0 / 24,0	35,0 / 29,0 / 25,0	
Moisture removal volume		L/h	3,4	4,2	6,0	7,9	6,0	7,9	9,0	
Sound pressure ⁴⁾	Hi / Med / Lo	dB(A)	38 / 34 / 30	39 / 35 / 31	42 / 37 / 35	46 / 40 / 36	42 / 37 / 35	46 / 40 / 36	47 / 41 / 37	
Sound power	Hi / Med / Lo	dB	56 / 52 / 48	57 / 53 / 49	60 / 55 / 53	64 / 58 / 54	60 / 55 / 53	64 / 58 / 54	65 / 59 / 55	
Dimensions	H x W x D	mm	235 x 1.275 x 690	235 x 1.275 x 690	235 x 1.590 x 690	235 x 1.590 x 690	235 x 1.590 x 690	235 x 1.590 x 690	235 x 1.590 x 690	
Net weight		kg	33	33	40	40	40	40	40	
Outdoor Unit			U-60PEY2E5	U-71PEY2E5	U-100PEY1E5	U-125PEY1E5	U-100PEY1E8	U-125PEY1E8	U-140PEY1E8	
Power source		V	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	380 / 400 / 415	380 / 400 / 415	380 / 400 / 415	
Recommended fuse		A	—	—	25	30	16	16	16	
Connection		mm ²	—	—	4	6	2,5	2,5	2,5	
Current	Cooling	A	8,00 / 7,60 / 7,30	10,80 / 10,30 / 9,85	0,82 / 0,79 / 0,76	19,2 / 18,4 / 17,6	5,10 / 4,85 / 4,70	6,35 / 6,05 / 5,80	6,85 / 6,50 / 6,25	
	Heating	A	6,70 / 6,45 / 6,15	8,20 / 7,85 / 7,50	0,81 / 0,78 / 0,75	15,4 / 14,8 / 14,2	4,15 / 3,95 / 3,80	5,15 / 4,90 / 4,70	5,65 / 5,35 / 5,20	
Air volume	Cooling / Heating	m ³ /min	38 / 41	44 / 41	110 / 95	80 / 73	76 / 67	80 / 73	135 / 120	
Sound pressure	Cooling / Heating (Hi)	dB(A)	46 / 48	49 / 49	52 / 52	56 / 56	54 / 54	56 / 56	54 / 53	
Sound power	Cooling / Heating (Hi)	dB	65 / 68	69 / 69	69 / 69	73 / 73	70 / 70	73 / 73	71 / 70	
Dimensions	H x W x D	mm	619 x 799 x 299	619 x 799 x 299	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	1.416 x 940 x 340	
Net weight		kg	40	40	73	85	73	85	98	
Piping connections	Liquid pipe	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)	
	Gas pipe	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)	5/8 (15,88)	
Piping length range / Elevation difference (in/out) ⁷⁾		m	3 - 40 / 30	3 - 40 / 30	5 - 50 / 30	5 - 50 / 30	5 - 50 / 30	5 - 50 / 30	5 - 50 / 30	
Pipe length for additional gas / Additional gas amount		m / g/m	30 / 40	30 / 40	30 / 50	30 / 50	30 / 50	30 / 50	30 / 50	
Refrigerant (R410A)		kg / TCO ₂ Eq.	1,95 / 4,0716	1,95 / 4,0716	2,60 / 5,4288	3,20 / 6,6816	2,60 / 5,4288	3,20 / 6,6816	3,40 / 7,0992	
Operating range	Cooling Min - Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	
	Heating Min - Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	

1) EER and COP, Energy Saving Classification, is at 220 / 240V (380 / 415V) only in accordance with EU directive 2002/31/EC. 2) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0,2, b=0,36, c=0,32 and d=0,03. The internet temperatures are taken at 27°C DB and 19°C WB. 3) The annual consumption(ErP) is calculated by formula determined by ErP regulation. 4) Heating capacity is calculated including defrost factor correction. 5) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 6) The Sound pressure of the units shows the value measured of a position 1 meter in front of the main body and 1,5 m from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.

STANDARD

ELITE

A++
4,70 SEER

A+
4,00 SCOP

-10°C
COOLING MODE

-15°C
HEATING MODE

A++
4,80 SEER

A+
4,10 SCOP

-15°C
COOLING MODE

-20°C
HEATING MODE

SEER and SCOP: For KIT-60PTY2E5B.

SEER and SCOP: For KIT-60PTY2E5B.

INTERNET CONTROL: Optional. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

HIGH STATIC PRESSURE HIDE AWAY PACi INVERTER+

The ducted systems are the ideal solution for flexible, concealed air conditioning and the optional 200mm spigots ensure simple, hassle-free connection to spiral ductwork.

High heating capacity at -7°C.

Technical focus

- Extremely quiet operation from 26dB(A)
- Auto restart after power failure
- Auto changeover
- Twin, triple and double-twin split options
- DC FAN for better efficiency and control
- Built in drain pump
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be control by the remote control of the Panasonic indoor unit

		PACi STANDARD							
		Single Phase				Three Phase			
		6,0kW	7,1kW	10,0kW	12,5kW	10,0kW	12,5kW	14,0kW	
KIT		KIT-60PFY1E5B	KIT-71PFY1E5B	KIT-100PFY1E5A	KIT-125PFY1E5A	KIT-100PFY1E8A	KIT-125PFY1E8A	KIT-140PFY1E8A	
Timer remote controller		CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	
Cooling capacity	Nominal (Min - Max)	kW	6,0 (2,0 - 7,1)	7,1 (2,0 - 7,7)	10,0 (2,7 - 11,5)	12,5 (3,8 - 13,5)	10,0 (2,7 - 11,5)	12,5 (3,8 - 13,5)	14,0 (3,3 - 15,5)
EER ¹⁾	Nominal (Min - Max)	W/W	3,35 (5,97 - 2,85) A	2,76 (5,97 - 2,48) D	3,01 (5,09 - 2,74) B	3,05 (4,22 - 2,70) B	3,01 (5,09 - 2,74) B	3,05 (4,22 - 2,70) B	3,22 (3,93 - 2,58) A
SEER ²⁾		W/W	5,50 A	5,40 A	5,40 A	—	5,20 A	—	—
Pdesign		kW	6,0	7,1	10,0	—	10,0	—	—
Input power cooling	Nominal (Min - Max)	kW	1,79 (0,35 - 2,49)	2,57 (0,34 - 3,21)	3,32 (0,53 - 4,20)	4,10 (0,90 - 5,00)	3,32 (0,53 - 4,20)	4,10 (0,90 - 5,00)	4,35 (0,84 - 6,00)
Annual energy consumption (ErP) ³⁾		kWh/a	382	460	648	—	673	—	—
Heating capacity	Nominal (Min - Max)	kW	6,0 (1,8 - 7,0)	7,1 (1,8 - 8,1)	10,0 (2,1 - 13,8)	12,5 (3,4 - 15,0)	10,0 (2,1 - 13,8)	12,5 (3,4 - 15,0)	14,0 (4,1 - 16,0)
Heating capacity at -7/-15°C ⁴⁾		kW	— / —	— / —	9,97 / 8,43	10,97 / 9,03	9,97 / 8,43	10,97 / 9,03	13,35 / 12,38
COP ¹⁾	Nominal (Min - Max)	W/W	4,38 (6,32 - 4,12) A	4,10 (6,32 - 3,68) A	3,80 (5,12 - 3,45) A	3,82 (4,66 - 3,41) A	3,80 (5,12 - 3,45) A	3,82 (4,66 - 3,41) A	3,91 (4,56 - 3,08) A
SCOP ⁵⁾		W/W	4,00 A+	4,00 A+	3,80 A	—	3,80 A	—	—
Pdesign at -10°C		kW	6,0	6,0	9,5	—	9,5	—	—
Input power heating	Nominal (Min - Max)	kW	1,37 (0,29 - 1,70)	1,73 (0,29 - 2,20)	2,63 (0,41 - 4,00)	3,27 (0,73 - 4,40)	2,63 (0,41 - 4,00)	3,27 (0,73 - 4,40)	3,58 (0,90 - 5,20)
Annual energy consumption (ErP) ³⁾		kWh/a	2,100	2,100	3,500	—	3,500	—	—
Indoor Unit			S-60PF1E5A	S-71PF1E5A	S-100PF1E5A	S-125PF1E5A	S-100PF1E5A	S-125PF1E5A	S-140PF1E5A
External static pressure ⁶⁾	Nominal (Min - Max)	Pa	70 (10 - 150)	70 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Air volume	Hi / Med / Lo	m³/min	21 / 19 / 15	21 / 19 / 15	32 / 26 / 21	34 / 29 / 23	32 / 26 / 21	34 / 29 / 23	36 / 32 / 25
Moisture removal volume		L/h	3,4	4,2	6,0	7,9	6,0	7,9	9,0
Sound pressure ⁷⁾	Hi / Med / Lo	dB(A)	35 / 32 / 26	35 / 32 / 26	38 / 34 / 31	39 / 35 / 32	38 / 34 / 31	39 / 35 / 32	40 / 36 / 33
Sound power	Hi / Med / Lo	dB	57 / 54 / 48	57 / 54 / 48	60 / 56 / 53	61 / 57 / 54	60 / 56 / 53	61 / 57 / 54	62 / 58 / 55
Dimensions	H x W x D	mm	290 x 1.000 x 700	290 x 1.000 x 700	290 x 1.400 x 700	290 x 1.400 x 700	290 x 1.400 x 700	290 x 1.400 x 700	290 x 1.400 x 700
Net weight		kg	33	33	45	45	45	45	45
Outdoor Unit			U-60PEY2E5	U-71PEY2E5	U-100PEY1E5	U-125PEY1E5	U-100PEY1E8	U-125PEY1E8	U-140PEY1E8
Power source		V	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	380 / 400 / 415	380 / 400 / 415	380 / 400 / 415
Recommended fuse		A	—	—	25	30	16	16	16
Connection		mm²	—	—	4	6	2,5	2,5	2,5
Current	Cooling	A	8,00 / 7,60 / 7,30	10,70 / 10,30 / 9,85	0,82 / 0,79 / 0,76	19,2 / 18,4 / 17,6	5,10 / 4,85 / 4,70	6,35 / 6,05 / 5,80	6,85 / 6,50 / 6,25
	Heating	A	7,05 / 6,75 / 6,45	8,50 / 8,10 / 7,80	0,81 / 0,78 / 0,75	15,4 / 14,8 / 14,2	4,15 / 3,95 / 3,80	5,15 / 4,90 / 4,70	5,65 / 5,35 / 5,20
Air volume	Cooling / Heating	m³/min	38 / 41	44 / 41	110 / 95	80 / 73	76 / 67	80 / 73	135 / 120
Sound pressure	Cooling / Heating (Hi)	dB(A)	46 / 48	49 / 49	52 / 52	56 / 56	54 / 54	56 / 56	54 / 53
Sound power	Cooling / Heating (Hi)	dB	65 / 68	69 / 69	69 / 69	73 / 73	70 / 70	73 / 73	71 / 70
Dimensions	H x W x D	mm	619 x 799 x 299	619 x 799 x 299	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	1.416 x 940 x 340
Net weight		kg	40	40	73	85	73	85	98
Piping connections	Liquid pipe	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)
	Gas pipe	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)	5/8 (15,88)
Piping length range / Elevation difference (in/out) ⁷⁾		m	3 - 40 / 30	3 - 40 / 30	5 - 50 / 30	5 - 50 / 30	5 - 50 / 30	5 - 50 / 30	5 - 50 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	30 / 40	30 / 40	30 / 50	30 / 50	30 / 50	30 / 50	30 / 50
Refrigerant (R410A)		kg / TCO ₂ Eq.	1,95 / 4,0716	1,95 / 4,0716	2,60 / 5,4288	3,20 / 6,6816	2,60 / 5,4288	3,20 / 6,6816	3,40 / 7,0992
Operating range	Cooling Min - Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heating Min - Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP, Energy Saving Classification, is at 220 / 240V (380 / 415V) only in accordance with EU directive 2002/31/EC. 2) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0,2, b=0,36, c=0,32 and d=0,03. The internal temperatures are taken at 27°C DB and 19°C WB. 3) The annual consumption(ErP) is calculated by formula determined by ErP regulation. 4) Heating capacity is calculated including defrost factor correction. 5) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 6) Medium External static pressure setting from factory. 7) The Sound pressure of the units shows the value measured of a position 1 meter in front of the main body and 1,5 m from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 8) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.

STANDARD

ELITE

A 5,50 SEER	A+ 4,80 SCOP	-10°C COOLING MODE	-15°C HEATING MODE	A++ 4,40 SEER	A+ 4,80 SCOP	-15°C COOLING MODE	-20°C HEATING MODE	INVERTER+	DC FAN	R22 RENEWAL	INTERNET CONTROL	BMS CONNECTIVITY	5 YEARS WARRANTY
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SEER and SCOP: For KIT-60PFY1E5B.

SEER and SCOP: For KIT-71PFY1E5A.

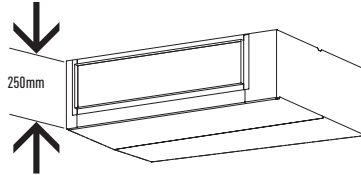
INTERNET CONTROL: Optional. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

LOW STATIC PRESSURE HIDE AWAY PACi INVERTER+

The depth of only 250mm provides greater installation flexibility and the unit can be used in more applications. Ideal for sites with narrow ceiling voids.

High heating capacity at -7°C.

Ultra-slim profile: 250mm height for all models.



Technical focus

- Compact indoor units without losing static pressure (Only 250mm high)
- 50 Pa static pressure
- Easy maintenance and service via external electrical box
- 3 speed centrifugal fan through wired or wireless remote control
- DC FAN for better efficiency and control
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be control by the remote control of the Panasonic indoor unit

		PACi STANDARD							
		Single Phase				Three Phase			
		6,0kW	7,1kW	10,0kW	12,5kW	10,0kW	12,5kW	14,0kW	
KIT		KIT-60PNY1E5B	KIT-71PNY1E5B	KIT-100PNY1E5A	KIT-125PNY1E5A	KIT-100PNY1E8A	KIT-125PNY1E8A	KIT-140PNY1E8A	
Timer remote controller		CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	
Cooling capacity	Nominal (Min - Max)	kW	6,0 (2,0 - 7,1)	7,1 (2,0 - 7,7)	10,0 (2,7 - 11,5)	12,5 (3,8 - 13,5)	10,0 (2,7 - 11,5)	12,5 (3,8 - 13,5)	14,0 (3,3 - 15,5)
EER ¹⁾	Nominal (Min - Max)	W/W	3,21 (5,00 - 2,78) A	2,76 (5,00 - 2,48) D	2,81 (4,74 - 2,67) C	2,81 (4,00 - 2,60) C	2,81 (4,74 - 2,67) C	2,81 (4,00 - 2,60) C	2,98 (3,93 - 2,58) C
SEER ²⁾		W/W	4,80 B	5,10 A	5,30 A	—	5,20 A	—	—
Pdesign		kW	6,0	7,1	10,0	—	10,0	—	—
Input power cooling	Nominal (Min - Max)	kW	1,87 (0,40 - 2,55)	2,57 (0,40 - 3,10)	3,56 (0,57 - 4,30)	4,45 (0,95 - 5,20)	3,56 (0,57 - 4,30)	4,45 (0,95 - 5,20)	4,70 (0,84 - 6,00)
Annual energy consumption (ErP) ³⁾		kWh/a	437	487	660	—	673	—	—
Heating capacity	Nominal (Min - Max)	kW	6,0 (1,8 - 7,0)	7,1 (1,8 - 8,1)	10,0 (2,1 - 13,8)	12,5 (3,4 - 15,0)	10,0 (2,1 - 13,8)	12,5 (3,4 - 15,0)	14,0 (4,1 - 16,0)
Heating capacity at -7/-15°C ⁴⁾		kW	— / —	— / —	9,97	10,97	9,97	10,97	13,35
COP ⁵⁾	Nominal (Min - Max)	W/W	3,73 (5,14 - 3,78) A	3,70 (5,14 - 3,31) A	3,41 (4,67 - 3,37) B	3,41 (4,36 - 3,26) B	3,41 (4,67 - 3,37) B	3,41 (4,36 - 3,26) B	3,52 (4,56 - 3,08) B
SCOP ⁵⁾		W/W	3,80 A	3,80 A	3,80 A	—	3,80 A	—	—
Pdesign at -10°C		kW	5,6	5,6	7,6	—	7,6	—	—
Input power heating	Nominal (Min - Max)	kW	1,61 (0,35 - 1,85)	1,92 (0,35 - 2,45)	2,94 (0,45 - 4,10)	3,67 (0,78 - 4,60)	2,94 (0,45 - 4,10)	3,67 (0,78 - 4,60)	3,88 (1,05 - 5,40)
Annual energy consumption (ErP) ³⁾		kWh/a	2,061	2,061	2,800	—	2,800	—	—
Indoor Unit			S-60PN1E5A	S-71PN1E5A	S-100PN1E5A	S-125PN1E5A	S-100PN1E8A	S-125PN1E8A	S-140PN1E8A
External static pressure ⁶⁾	Nominal (Min - Max)	Pa	50 (10 - 80)	50 (10 - 80)	50 (10 - 80)	50 (10 - 80)	50 (10 - 80)	50 (10 - 80)	50 (10 - 80)
Air volume	Hi / Med / Lo	m³/min	22 / 20 / 16	22 / 20 / 16	36 / 33 / 26	38 / 35 / 28	36 / 33 / 26	38 / 35 / 28	40 / 37 / 30
Moisture removal volume		L/h	3,4	4,2	6,0	7,9	6,0	7,9	9,0
Sound pressure ⁷⁾	Hi / Med / Lo	dB(A)	43 / 41 / 36	43 / 41 / 36	44 / 42 / 37	45 / 43 / 38	44 / 42 / 37	45 / 43 / 38	46 / 44 / 39
Sound power	Hi / Med / Lo	dB	60 / 58 / 53	60 / 58 / 53	65 / 63 / 58	66 / 64 / 59	65 / 63 / 58	66 / 64 / 59	67 / 65 / 60
Dimensions ⁸⁾	H x W x D	mm	250 x 1.000 x 650	250 x 1.000 x 650	250 x 1.200 x 650	250 x 1.200 x 650	250 x 1.200 x 650	250 x 1.200 x 650	250 x 1.200 x 650
Net weight		kg	32	32	41	41	41	41	41
Outdoor Unit			U-60PEY2E5	U-71PEY2E5	U-100PEY1E5	U-125PEY1E5	U-100PEY1E8	U-125PEY1E8	U-140PEY1E8
Power source		V	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	380 / 400 / 415	380 / 400 / 415	380 / 400 / 415
Recommended fuse		A	—	—	25	30	16	16	16
Connection		mm²	—	—	4	6	2,5	2,5	2,5
Current	Cooling	A	8,00 / 7,60 / 7,30	10,70 / 10,30 / 9,85	0,82 / 0,79 / 0,76	19,2 / 18,4 / 17,6	5,10 / 4,85 / 4,70	6,35 / 6,05 / 5,80	6,85 / 6,50 / 6,25
	Heating	A	7,05 / 6,75 / 6,45	8,50 / 8,10 / 7,80	0,81 / 0,78 / 0,75	15,4 / 14,8 / 14,2	4,15 / 3,95 / 3,80	5,15 / 4,90 / 4,70	5,65 / 5,35 / 5,20
Air volume	Cooling / Heating	m³/min	38 / 41	44 / 41	110 / 95	80 / 73	76 / 67	80 / 73	135 / 120
Sound pressure	Cooling / Heating (Hi)	dB(A)	46 / 48	49 / 49	52 / 52	56 / 56	54 / 54	56 / 56	54 / 53
Sound power	Cooling / Heating (Hi)	dB	65 / 68	69 / 69	69 / 69	73 / 73	70 / 70	73 / 73	71 / 70
Dimensions	H x W x D	mm	619 x 799 x 299	619 x 799 x 299	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	1.416 x 940 x 340
Net weight		kg	40	40	73	85	73	85	98
Piping connections	Liquid pipe	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)
	Gas pipe	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)	5/8 (15,88)
Piping length range / Elevation difference (in/out) ⁹⁾		m	3 - 40 / 30	3 - 40 / 30	5 - 50 / 30	5 - 50 / 30	5 - 50 / 30	5 - 50 / 30	5 - 50 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	30 / 40	30 / 40	30 / 50	30 / 50	30 / 50	30 / 50	30 / 50
Refrigerant (R410A)		kg / TCO ₂ Eq.	1,95 / 4,0716	1,95 / 4,0716	2,60 / 5,4288	3,20 / 6,6816	2,60 / 5,4288	3,20 / 6,6816	3,40 / 7,0992
Operating range	Cooling Min - Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heating Min - Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP, Energy Saving Classification, is at 220 / 240V (380 / 415V) only in accordance with EU directive 2002/31/EC. 2) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0,2, b=0,36, c=0,32 and d=0,03. The internal temperatures are taken at 27°C DB and 19°C WB. 3) The annual consumption(ErP) is calculated by formula determined by ErP regulation. 4) Heating capacity is calculated including defrost factor correction. 5) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 6) Medium External static pressure setting from factory. 7) The Sound pressure of the units shows the value measured of a position 1 meter in front of the main body and 1,5 m from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 8) Add 100mm for piping port. 9) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.

STANDARD

ELITE



SEER and SCOP: For KIT-100PNY1E5A.

SEER and SCOP: For KIT-100PNY1E8A.

INTERNET CONTROL: Optional. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

WALL MOUNTED PACi INVERTER+

The extension of the range to include a 10kW unit allows for many more applications such as studios, gyms, high ceiling areas and even computer server rooms.

The unit's compact design and flat face ensure discreet installation, even in a small space.

High heating capacity at -7°C.

Technical focus

- 10,0kW capacity unit
- Flat face design for modern appearance
- Compact design offers over 15% reduction in overall size
- Washable front panel
- DC FAN for better efficiency and control
- Three directional piping outlet
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be control by the remote control of the Panasonic indoor unit

			PACi STANDARD			
			Single Phase		Three Phase	
			6,0kW	7,1kW	10,0kW	10,0kW
			KIT-60PKY1E5B	KIT-71PKY1E5B	KIT-100PKY1E5A	KIT-100PKY1E8A
			CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A
KIT						
Timer remote controller						
Cooling capacity	Nominal (Min - Max)	kW	6,0 (2,0 - 7,1)	7,1 (2,0 - 7,7)	9,0 (2,7 - 9,7)	9,0 (2,7 - 9,7)
EER ¹⁾	Nominal (Min - Max)	W/W	3,53 (6,67 - 3,09) A	2,90 (6,67 - 2,61) C	2,67 (5,09 - 2,55) D	2,67 (5,09 - 2,55) D
SEER²⁾		W/W	5,50	5,20	5,80	5,70
Pdesign		kW	6,0	7,1	9,0	9,0
Input power cooling	Nominal (Min - Max)	kW	1,70 (0,30 - 2,35)	2,45 (0,30 - 2,95)	3,37 (0,53 - 3,80)	3,37 (0,53 - 3,80)
Annual energy consumption (ErP) ³⁾		kWh/a	382	478	543	553
Heating capacity	Nominal (Min - Max)	kW	6,0 (1,8 - 7,0)	7,1 (1,8 - 8,1)	9,0 (2,1 - 10,5)	9,0 (2,1 - 10,5)
Heating capacity at -7/-15°C ⁴⁾		kW	- / -	- / -	9,97 / 8,43	9,97 / 8,43
COP ⁵⁾	Nominal (Min - Max)	W/W	4,14 (9,00 - 4,12) A	4,08 (9,00 - 3,60) A	3,70 (5,12 - 3,50) A	3,70 (5,12 - 3,50) A
SCOP⁶⁾		W/W	3,90	3,90	3,80	3,80
Pdesign at -10°C		kW	6,0	6,0	9,0	9,0
Input power heating	Nominal (Min - Max)	kW	1,45 (0,20 - 1,70)	1,74 (0,20 - 2,25)	2,43 (0,41 - 3,00)	2,43 (0,41 - 3,00)
Annual energy consumption (ErP) ³⁾		kWh/a	2.153	2.151	3.316	3.316
Indoor Unit			S-60PK1E5A	S-71PK1E5A	S-100PK1E5A	S-100PK1E5A
Air volume	Hi / Med / Lo	m ³ /min	18,0 / 14,5 / 11,5	18,0 / 14,5 / 11,5	19,0 / 16,5 / 13,0	19,0 / 16,5 / 13,0
Moisture removal volume		L/h	3,4	4,2	5,4	5,4
Sound pressure ⁶⁾	Hi / Med / Lo	dB(A)	47 / 44 / 40	47 / 44 / 40	49 / 45 / 41	49 / 45 / 41
Sound power	Hi / Med / Lo	dB	64 / 59 / 54	64 / 59 / 54	65 / - / -	65 / - / -
Dimensions	H x W x D	mm	300 x 1.065 x 230	300 x 1.065 x 230	300 x 1.065 x 230	300 x 1.065 x 230
Net weight		kg	14,5	14,5	14,5	14,5
Outdoor Unit			U-60PEY2E5	U-71PEY2E5	U-100PEY1E5	U-100PEY1E8
Power source		V	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	380 / 400 / 415
Recommended fuse		A	-	-	25	16
Connection		mm ²	-	-	4,0	2,5
Current	Cooling	A	8,00 / 7,60 / 7,30	10,70 / 10,30 / 9,85	16,0 / 15,3 / 14,8	5,45 / 5,20 / 5,05
	Heating	A	7,05 / 6,75 / 6,45	8,50 / 8,10 / 7,80	13,0 / 12,5 / 12,1	4,45 / 4,25 / 4,10
Air volume	Cooling / Heating	m ³ /min	38 / 41	44 / 41	76 / 67	76 / 67
Sound pressure	Cooling / Heating (Hi)	dB(A)	46 / 48	49 / 49	54 / 54	54 / 54
Sound power	Cooling / Heating (Hi)	dB	65 / 68	69 / 69	70 / 70	70 / 70
Dimensions	H x W x D	mm	619 x 799 x 299	619 x 799 x 299	996 x 940 x 340	996 x 940 x 340
Net weight		kg	40	40	73	73
Piping connections	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Piping length range / Elevation difference (in/out) ⁷⁾		m	3 - 40 / 30	3 - 40 / 30	5 - 50 / 30	5 - 50 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	30 / 40	30 / 40	30 / 50	30 / 50
Refrigerant (R410A)		kg / TCO ₂ Eq.	1,95 / 4,0716	1,95 / 4,0716	2,60 / 5,4288	2,60 / 5,4288
Operating range	Cooling Min - Max	°C	-10 - +43	-10 - +43	-10 / +43	-10 / +43
	Heating Min - Max	°C	-15 - +24	-15 - +24	-15 / +24	-15 / +24

1) EER and COP, Energy Saving Classification, is at 220 / 240V (380 / 415V) only in accordance with EU directive 2002/31/EC. 2) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0,2, b=0,36, c=0,32 and d=0,03. The internet temperatures are taken at 27°C DB and 19°C WB. 3) The annual consumption (ErP) is calculated by formula determined by ErP regulation. 4) Heating capacity is calculated including defrost factor correction. 5) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 6) The Sound pressure of the units shows the value measured of a position 1 meter in front of the main body and 1,5 m from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.

STANDARD

ELITE

SEER and SCOP: For KIT-100PKY1E5A.

SEER and SCOP: For KIT-60PKY1E5B.

INTERNET CONTROL: Optional. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.



Included Controller:
Wired remote controller
CZ-RTC5A
Compatible with Econavi



Optional Controller:
Timer remote controller
CZ-RTC4
Compatible with Econavi



Optional Econavi Sensor:
CZ-ENSC1



Optional Controller:
Wireless remote controller
CZ-RWSK2



Optional Controller:
Simplified remote controller
CZ-RE2C2



Washable front panel.

The indoor unit's front panel can be easily removed and washed for trouble-free cleaning.

Closed discharge port.

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Quiet operation.

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

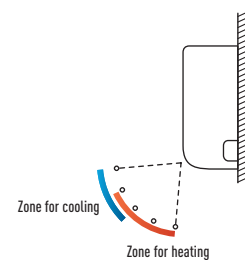
Smooth and durable design.

The sleek, compact design ensures a discreet installation - even where space is limited.

Piping outlet in three directions.

With three options for pipe outlets-rear, right and left - installation is made easy.

Air distribution is altered depending on the operational mode of the unit.



PACI ELITE

		Single Phase						Three Phase	
		3,6kW	5,0kW	6,0kW	7,1kW	10,0kW	7,1kW	10,0kW	
		KIT-36PK1E5B	KIT-50PK1E5B	KIT-60PK1E5B	KIT-71PK1E5A	KIT-100PK1E5A	KIT-71PK1E8A	KIT-100PK1E8A	
		CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	CZ-RTC5A	
		3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)	6,0 (2,0 - 7,1)	7,1 (2,5 - 8,0)	9,5 (3,3 - 10,5)	7,1 (3,2 - 8,0)	9,5 (3,3 - 10,5)	
		4,56 (6,25 - 4,30) A	3,57 (6,25 - 3,26) A	3,57 (6,67 - 3,02) A	3,40 (5,56 - 3,02) A	3,25(3,93 - 3,09) A	3,40 (5,71 - 3,02) A	3,25(3,93 - 3,09) A	
		6,30 A++	6,10 A++	6,60 A++	6,60 A++	6,20 A++	6,10 A++	6,00 A+	
		3,6	5,0	6,0	7,1	9,5	7,1	9,5	
		0,79 (0,24 - 0,93)	1,40 (0,24 - 1,72)	1,68 (0,30 - 2,35)	2,09 (0,45 - 2,65)	2,92 (0,84 - 3,40)	2,09 (0,56 - 2,65)	2,92 (0,84 - 3,40)	
		200	287	318	376	536	407	554	
		4,0 (1,5 - 5,0)	5,6 (1,5 - 6,5)	7,0 (1,8 - 8,0)	8,0 (2,0 - 9,0)	9,5 (4,1 - 11,5)	8,0 (2,8 - 9,0)	9,5 (4,1 - 11,5)	
		- / -	- / -	- / -	7,52 / 7,65	12,04 / 11,20	7,52 / 7,65	12,04 / 11,20	
		4,65 (7,89 - 4,20) A	3,76 (7,89 - 3,39) A	4,02 (9,00 - 3,90) A	3,76 (5,00 - 3,10) A	3,85 (4,56 - 3,43) A	3,76 (5,60 - 3,10) A	3,85 (4,56 - 3,43) A	
		4,20 A+	4,00 A+	4,00 A+	3,90 A	3,80 A	3,80 A	3,80 A	
		3,6	5,0	6,0	7,1	9,5	7,1	9,5	
		0,86 (0,19 - 1,19)	1,49 (0,19 - 1,92)	1,74 (0,20 - 2,05)	2,13 (0,40 - 2,90)	2,47 (0,90 - 3,35)	2,13 (0,50 - 2,90)	2,47 (0,90 - 3,35)	
		1.200	1.749	2.101	2.548	3.500	2.616	3.500	
		S-36PK1E5A	S-50PK1E5A	S-60PK1E5A	S-71PK1E5A	S-100PK1E5A	S-71PK1E5A	S-100PK1E5A	
		11,0 / 9,5 / 7,5	14,0 / 12,0 / 10,5	18,0 / 14,5 / 11,5	18,0 / 14,5 / 11,5	19,0 / 16,5 / 13,0	18,0 / 14,5 / 11,5	19,0 / 16,5 / 13,0	
		2,1	2,8	3,4	4,2	5,7	4,2	5,7	
		35 / 31 / 27	40 / 36 / 32	47 / 44 / 40	47 / 44 / 40	49 / 45 / 41	47 / 44 / 40	49 / 45 / 41	
		52 / 46 / 41	57 / 51 / 46	64 / 59 / 54	64 / - / -	65 / - / -	64 / - / -	65 / - / -	
		300 x 1.065 x 230	300 x 1.065 x 230	300 x 1.065 x 230	300 x 1.065 x 230	300 x 1.065 x 230	300 x 1.065 x 230	300 x 1.065 x 230	
		13,0	14,5	14,5	14,5	14,5	14,5	14,5	
		U-36PE2E5A	U-50PE2E5A	U-60PE2E5A	U-71PE1E5A	U-100PE1E5A	U-71PE1E8A	U-100PE1E8A	
		220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	380 / 400 / 415	380 / 400 / 415	
		-	-	-	20	25	16	16	
		-	-	-	2,5	4,0	2,5	2,5	
		3,75 / 3,55 / 3,40	6,25 / 5,95 / 5,70	7,90 / 7,50 / 7,25	9,70 / 9,40 / 9,20	11,6 / 11,2 / 10,9	3,25 / 3,10 / 3,00	3,95 / 3,75 / 3,60	
		3,80 / 3,60 / 3,45	6,05 / 5,75 / 5,50	8,50 / 8,15 / 7,80	10,2 / 9,90 / 9,70	12,8 / 12,5 / 12,2	3,35 / 3,20 / 3,10	4,35 / 4,15 / 4,00	
		38 / 38	38 / 41	38 / 41	60 / 60	110 / 95	60 / 60	110 / 95	
		45 / 46	46 / 48	46 / 49	48 / 50	52 / 52	48 / 50	52 / 52	
		64 / 66	65 / 68	65 / 69	65 / 67	69 / 69	65 / 67	69 / 69	
		619 x 799 x 299	619 x 799 x 299	619 x 799 x 299	996 x 940 x 340	1.416 x 940 x 340	996 x 940 x 340	1.416 x 940 x 340	
		39	39	40	69	98	71	98	
		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)	
		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)	
		3 - 40 / 30	3 - 40 / 30	3 - 40 / 30	5 - 50 / 30	5 - 75 / 30	5 - 50 / 30	5 - 75 / 30	
		30 / 20	30 / 20	30 / 40	30 / 50	30 / 50	30 / 50	30 / 50	
		1,40 / 2,9232	1,40 / 2,9232	1,95 / 4,0716	2,35 / 4,9068	3,40 / 7,0992	2,35 / 4,9068	3,40 / 7,0992	
		-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	
		-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	

Accessories

CZ-RTC4	Standard Wired remote control with Econavi
CZ-RWSK2	Wireless remote control
CZ-RE2C2	Simplified remote control
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400mm
PAW-WTRAY	Tray for condenser water compatible with base ground support
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption (600 x 95 x 130mm, 500kg)
PAW-WPH7	Wind protection shield for U-50PE2E5A
PAW-WPH9	Wind protection shield for U-60PE2E5A, U-71PE1E5A/8A, U-100PE1E5/8, U-125PE1E5/8
PAW-WPH10	Wind protection shield for U-100PE1E5A/8A, U-125PE1E5A/8A, U-140PE1E5A/8A, U-140PE1E8
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run



HIGH STATIC PRESSURE HIDE AWAY 20-25kW BIG PACi INVERTER+

The 8-10HP from Panasonic is ideally suited for large retail applications and other large areas not needing the higher capacities of VRF systems.

All New "A" Functions

- Control demand 0-10V via CZ-CAPBC2
- Schedule peak cut
- Advanced Energy Saving Functionalities available in Elite series
- Compact design: Good size to install balcony
- Suitable for Mid, Small Project: Piping design is suitable for Light Commercial and Residential project up to

PE2 vs. PE1 series

1. New heat exchanger: better performance 8% higher than PE1
2. New fan: 27% higher air flow rate than PE1
3. New Panasonic compressor: 50% wider capacity range than PE1, better performance. Best partial load ever. 120m maximum piping

New Panasonic Compressor

Best inverter control providing better partial load in industry* 10%-100% Frequency Hz.

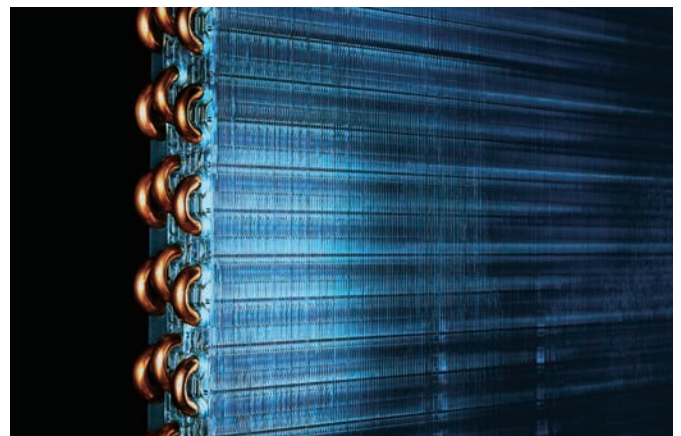
Wider operation Hz range of compressor realize more high efficient operation through the year.

* Compared current model is the unit for European market.



Enlarged heat exchanger surface area

The new heat exchanger has been designed with 8% bigger surface than conventional model. This enlarged surface provides high performance of heat exchange effect. Also, highly efficient piping pattern increases heat exchange performance by 5%.



Bluefin

An air conditioner's performance depends largely on its condenser, which can take a beating from exposure to salty air, wind, dust and other corrosive factors. Panasonic has found a way to expand the life of our condensers, using a layer of our original anti-rust coating. This special coating lets you enjoy more years of reliable comfort plus extra economy over the long run.

Compatible with all Panasonic connectivity solutions.



Included Controller.
Wired remote controller
CZ-RTCSA
Compatible with Econavi



Optional Controller.
Timer remote controller
CZ-RTCA
Compatible with Econavi



Optional Econavi Sensor.
CZ-CENSC1



Optional Controller
Wireless remote controller
CZ-RWSK2 + CZ-RWSC3



Optional Controller.
Simplified remote controller
CZ-RE2C2



Panasonic breaks new ground in offering high performance and power in a small space

The 8-10HP from Panasonic is ideally suited for large retail applications and other large areas not needing the higher capacities of VRF systems. The lightweight and compact design enables easier installation in any commercial space. The twin fan system saves valuable footprint compared to traditional 8-10HP systems which are larger and therefore require more space.

High heating capacity at -7°C.

Technical focus

- Higher efficiency:
 - New heat exchanger
 - New and bigger fan
 - New Panasonic compressor
 - New chassis
- Better partial load
- More flexible
- Bluefin anti-rust coating
- 0-10V control demand

BIG PACI

			Three Phase	
			20,0kW	25,0kW
KIT			KIT-200PE2E5B	KIT-250PE2E5B
Timer remote controller			CZ-RTCSA	CZ-RTCSA
Cooling capacity	Nominal (Min - Max)	kW	19,50 (5,40 - 22,40)	25,00 (6,30 - 28,00)
EER ¹⁾		W/W	3,11 B	2,91 C
Input power cooling		kW	5,97	8,04
Heating capacity	Nominal (Min - Max)	kW	22,40 (5,60 - 25,00)	28,00 (7,10 - 31,50)
Heating capacity at -7°C ²⁾		kW	20,00	25,20
Heating capacity at -15°C ²⁾		kW	17,00	21,42
COP ¹⁾		W/W	3,54 B	3,64 A
Input power heating		kW	6,02	7,14
Indoor Unit			S-200PE2E5	S-250PE2E5
Power source		V / ph / Hz	220 - 230 - 240 / 1 / 50	220 - 230 - 240 / 1 / 50
External static pressure at shipment (with booster cable)		Pa	60 - 140 - 270	72 - 140 - 270
Air volume	Hi / Med / Lo	m ³ /min	56,0 / 51,0 / 44,0	72,0 / 63,0 / 53,0
Sound pressure ³⁾	Hi / Med / Lo	dB(A)	43 / 41 / 38	47 / 45 / 42
Sound power	Hi / Med / Lo	dB	75 / 73 / 70	79 / 77 / 74
Dimensions / Net weight	H x W x D	mm / kg	479 x 1.453 x 1.205 / 100	479 x 1.453 x 1.205 / 104
Outdoor Unit			U-200PE2E8A	U-250PE2E8A
Power source		V / ph / Hz	380 - 400 - 415 / 3 / 50	380 - 400 - 415 / 3 / 50
Recommended fuse		A	15	20
Air volume	Cooling / Heating	m ³ /min	164,0	160,0
Sound pressure ³⁾	Cooling / Heating (Hi)	dB(A)	60 / 62	61 / 63
Sound power		dB	72	72
Dimensions ⁴⁾ / Net weight	H x W x D	mm / kg	1.500 x 980 x 370 / 127	1.500 x 980 x 370 / 138
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	3/8 (9,52) / 1 (25,4)	1/2 (12,7) / 1 (25,4)
Piping length range / Elevation difference (in/out) ⁵⁾		m	5 - 120 / 30	5 - 120 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	30 / 50	30 / 80
Refrigerant (R410A)		kg / TCO ₂ Eq.	5,60 / 11,6928	6,40 / 13,3632
Operating range	Cooling Min ~ Max	°C	-15 ~ +46	-15 ~ +46
	Heating Min ~ Max	°C	-20 ~ +24	-20 ~ +24

1) EER and COP, Energy Saving Classification, is at 220 / 240V (380 / 415V) only in accordance with EU directive 2002/31/EC. 2) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0,2, b=0,36, c=0,32 and d=0,03. The internal temperatures are taken at 27°C DB and 19°C WB. 3) Heating capacity is calculated including defrost factor correction. 4) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 5) The Sound pressure of the units shows the value measured of a position 1 meter in front of the main body and 1,5 m from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Add 100mm for indoor unit or 70mm for outdoor unit for piping port. 7) When installing the outdoor unit at a higher position than the indoor unit.

Accessories

CZ-RTC4	Standard Wired remote control with Econavi
CZ-RWSK2 + CZ-RWSC3	Wireless remote control
CZ-RE2C2	Simplified remote control
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400mm
PAW-WPH8	Wind protection shield for U-200PE2E8A and U-250PE2E8A
CZ-TREMIESPW706	Air Outlet Plenum (suitable for rigid + flexible duct) for S-250PE2E5
CZ-TREMIESPW705	Air Outlet Plenum (suitable for rigid + flexible duct) for S-200PE2E5



INTERNET CONTROL: Optional. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.
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, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.



PACi SINGLE, TWIN, TRIPLE AND DOUBLE-TWIN SYSTEM



With this system, a single outdoor unit can split capacity for up to 4 indoor areas simultaneously. This makes the system particularly apt for common areas. It reduces noise concentration and enables the same temperature to be reached around the room. A mix of indoor units can be installed (wall, cassette, duct, ceiling) in one system.

PACi Standard Single and Twin System from 10,0 to 12,5kW.

Up to 2 indoor units connectable on the same outdoor. Panasonic's PACi units can be installed as single and twin systems. The indoor units can be combined following the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

PACi Elite Twin, Triple and Double-Twin System from 7,1 to 14,0kW.

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's PACi units 71, 100, 125 and 140 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

Big PACi Elite Twin, Triple and Double-Twin System from 20,0 to 25,0kW.

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's PACi units 200 and 250 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

PACi Standard Single/Simultaneous operation system combinations.

kW	Outdoor			
Indoor	7,1	10,0	12,5	14,0
3,6				
5,0		Twin U-100 S-50 S-50		
6,0			Twin U-125 S-60 S-60	
7,1	Single ¹ U-71 S-71			Twin U-140 S-71 S-71
10,0		Single ¹ U-100 S-100		
12,5			Single ¹ U-125 S-125	
14,0				Single ¹ U-140 S-140

PACi Elite from 7,1 to 14,0kW Single/Simultaneous operation system combinations.

kW	Outdoor			
Indoor	7,1	10,0	12,5	14,0
3,6	Twin U-71 S-36 S-36	Triple U-100 S-36 S-36 S-36	Double-Twin U-125 S-36 S-36 S-36 S-36	
4,5			Triple U-125 S-45 S-45 S-45	
5,0		Twin U-100 S-50 S-50		Triple U-140 S-50 S-50 S-50
6,0			Twin U-125 S-60 S-60	
7,1	Single ¹ U-71 S-71			Twin U-140 S-71 S-71
10,0		Single ¹ U-100 S-100		
12,5			Single ¹ U-125 S-125	
14,0				Single ¹ U-140 S-140

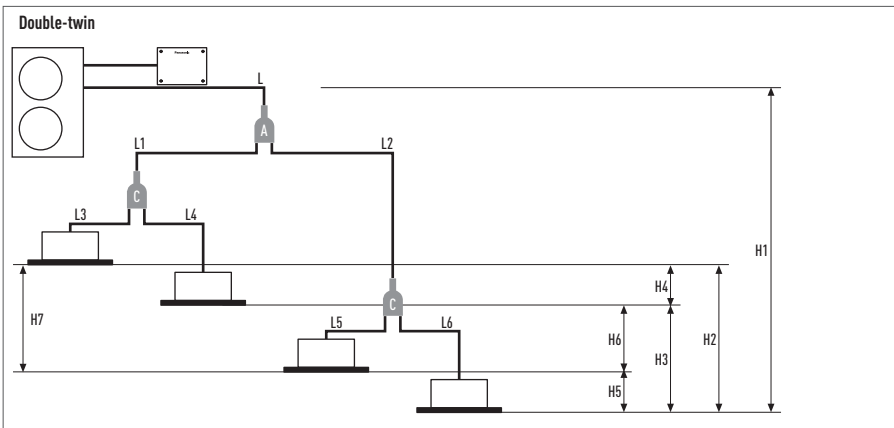
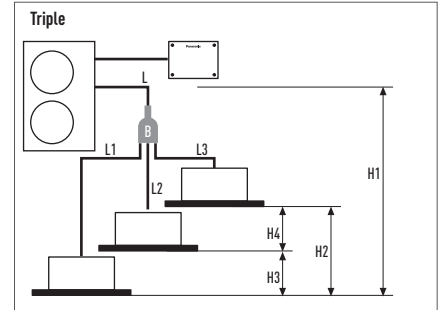
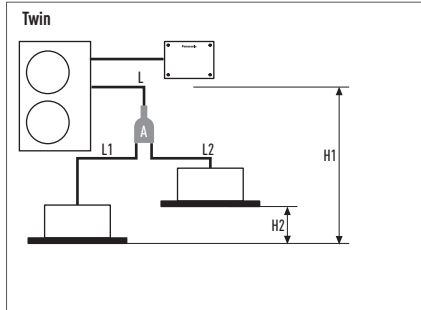
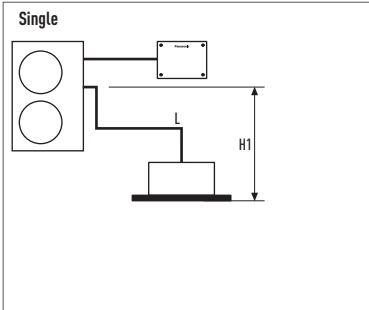
PACi Elite from 20,0 to 25,0kW Single/Simultaneous operation system combinations.

kW	Outdoor	
Indoor	20,0	25,0
5,0	Double-Twin U-200 S-50 S-50 S-50 S-50	
6,0		Double-Twin U-250 S-60 S-60 S-60 S-60
7,1	Triple U-200 S-71 S-71 S-71	
10,0	Twin U-200 S-100 S-100	
12,5		Twin U-250 S-125 S-125
20,0	Single ¹ U-200 S-200	
25,0		Single ¹ U-250 S-250

Indoor unit capacities	4 Way 90x90 Cassette	4 Way 60x60 Cassette	Ceiling	High Static Pressure Hide Away	Low Static Pressure Hide Away	Wall
3,6kW	S-36PU2E5A	S-36PY2E5A	S-36PT2E5A	S-36PF1E5A	S-36PN1E5A	S-36PK1E5A
4,5kW	S-45PU2E5A	S-45PY2E5A	S-45PT2E5A	S-45PF1E5A	S-45PN1E5A	S-45PK1E5A
5,0kW	S-50PU2E5A	S-50PY2E5A	S-50PT2E5A	S-50PF1E5A	S-50PN1E5A	S-50PK1E5A
6,0kW	S-60PU2E5A		S-60PT2E5A	S-60PF1E5A	S-60PN1E5A	S-60PK1E5A
7,1kW	S-71PU2E5A		S-71PT2E5A	S-71PF1E5A	S-71PN1E5A	S-71PK1E5A
10,0kW	S-100PU2E5A		S-100PT2E5A	S-100PF1E5A	S-100PN1E5A	S-100PK1E5A
12,5kW	S-125PU2E5A		S-125PT2E5A	S-125PF1E5A	S-125PN1E5A	

Outdoor unit capacities	PACi Standard Single and Twin System	PACi Elite Twin, Triple and Double-Twin System from 7,1 to 14,0kW	PACi Elite Twin, Triple and Double-Twin System from 20,0 to 25,0kW
7,1kW	U-71PE2E5	U-71PE1E5A // U-71PE1E8A	
10,0kW	U-100PE1E5 // U-100PE1E8		U-100PE1E5A // U-100PE1E8A
12,5kW	U-125PE1E5 // U-125PE1E8		U-125PE1E5A // U-125PE1E8A
14,0kW	U-140PE1E8		U-140PE1E5A // U-140PE1E8A
20,0kW			U-200PE2E8A
25,0kW			U-250PE2E8A

1. PACi 1x1 Kit solution. / U-__1E5 Single Phase // U-__1E8 Three Phase



PACI Standard Twin System from 10,0 to 14,0kW
Joint distribution (sold separately)
A= CZ-P224BK2BM

PACI Elite Twin, Triple and Double-Twin System from 7,1 to 14,0kW
Joint distribution (sold separately)
A= CZ-P224BK2BM
B= CZ-P3HPC2BM
C= CZ-P224BK2BM

PACI Elite Twin, Triple and Double-Twin System from 20,0 to 25,0kW
Joint distribution (sold separately)
A = CZ-P680BK2BM
B = CZ-P3HPC2BM
C = CZ-P224BK2BM

Twin System	PACI Standard Single and Twin System from 10,0 to 14,0kW			PACI Elite Twin, Triple and Double-Twin System from 7,1 to 25kW					
	Indoor unit combinations (see examples above)		Equivalent lengths and height differences (m) for outdoor unit sizes...	Indoor unit combinations (see examples above)				Equivalent lengths and height differences (m) for outdoor unit sizes from 7,1 to 14,0kW	Equivalent lengths and height differences (m) for outdoor unit sizes from 20,0 to 25,0kW
Single	Twin	Single		Twin	Triple	Double-Twin			
Total pipe length	L	L + L1 + L2	≤ 50m	L	L + L1 + L2	L + L1 + L2 + L3	L + L1 + L2 + L3 + L4 + L5 + L6	U-60/U-71: ≤ 50m U-100/125/140: ≤ 75m	≤ 100m
Maximum pipe length from outdoor unit to most distant indoor unit	-	-	-	-	L + L1 or L + L2	L + L1 or L + L2 or L + L3	L + L1 + L3 or L + L1 + L4 or L + L2 + L5 or L + L2 + L6	-	≤ 100m
Maximum branch pipe length	-	L1 L2	≤ 15	-	L1 or L2	L1 or L2 or L3	L1 + L3 or L1 + L4 or L2 + L5 or L2 + L6	≤ 15m	≤ 20m
Maximum branch pipe length differences	-	L1 > L2 L1 - L2	≤ 10	-	L1 > L2: L1 - L2	L1 > L2 > L3: L1 - L2 L2 - L3 L1 - L3	L2 + L6 (Max.) L1 + L3 (Min.): (L2 + L6) - (L1 + L3)	≤ 10m	≤ 10m
Maximum pipe length differences after first branch (Double-Twin)	-	-	-	-	-	-	L2 > L1: L2 - L1	≤ 10m	≤ 10m
Maximum pipe length differences after second branch (Double-Twin)	-	-	-	-	-	-	L4 > L3: L4 - L3 L6 > L5: L6 - L5	≤ 10m	≤ 10m
Height difference (outdoor unit located higher)	H1	H1	≤ 30	H1	H1	H1	H1	≤ 30m	≤ 30m
Height difference (outdoor unit located lower)	H1	H1	≤ 15	H1	H1	H1	H1	≤ 15m	≤ 15m
Height difference between indoor units	-	H2	≤ 0.5	-	H2	H2 or H3 or H4	H2 or H3 or H4 or H5 or H6	≤ 0.5m	≤ 0.5m

Twin System	PACI Standard Single and Twin System from 10,0 to 14,0kW				PACI Elite Twin, Triple and Double-Twin System from 7,1 to 14,0kW						PACI Elite Twin, Triple and Double-Twin System from 20,0 to 25,0kW				
	Outdoor unit main pipe diameter (L)		Indoor unit connection tube (L1, L2)		Outdoor unit main pipe diameter (L)	Indoor unit connection pipe diameter (L1, L2, L3, L4) (mm)					Outdoor unit main pipe diameter (L) (mm)		Double-Twin distribution pipe (L1, L2) ¹	Indoor unit connection pipe diameter	
Unit type capacity	100	125	50	60	71 - 140	36	45	50	60	71	200	250	100 - 125	50	60 - 125
Liquid pipe (mm)	Ø 9,52	Ø 12,7	Ø 6,35	Ø 9,52	Ø 9,52	Ø 6,35	Ø 6,35	Ø 6,35	Ø 9,52	Ø 9,52	Ø 9,52	Ø 12,7	Ø 9,52	Ø 6,35	Ø 9,52
Gas pipe (mm)	Ø 15,88	Ø 15,88	Ø 12,7	Ø 15,88	Ø 15,88	Ø 12,70	Ø 12,70	Ø 12,70	Ø 15,88	Ø 15,88	Ø 25,4	Ø 25,4	Ø 15,88	Ø 12,7	Ø 15,88
Additional gas amount (g/m)	50	50	20	50	50	20	20	20	50	50	40	80	40	20	40

1. Total capacity of indoor unit connected after the branch

Refrigerant charging: For the twin connection, the amount of refrigerant required for pipe length 30m has been included in this unit at the factory while that required for pipe length 20 m has been included for the Triple / Double-Twin connections. No Additional gas amount is required for the first 30m pipe length in the case of the twin connection and for the first 20m in the case of the Triple / Double-Twin connections. The amount of included refrigerant for each model is listed on NAMA PLATE. Make Additional gas amounts by adding up pipe length in an order of main (L branch pipe), (L1, L2, L3 wide diameter) and then selecting the amount of refrigerant corresponding to the remaining (after 30m for the Twin connection and after 20m for the Triple / Double-Twin connections) liquid side pipe diameter and pipe length from the below table.

PANASONIC VENTILATION SOLUTIONS



Panasonic ventilation solutions for maximum savings and easy integration.

AHU Kit connects PACi outdoor units to Air Handling Units system

Heat exchanger, Fan & Fan motor to be mounted in AHU Kit shall be provided in the field. AHU connection Kit (field supplied) AHU Kit system. (Contents of kit: Control for PCB, expansion valve, sensors).



Application: Hotels, offices, server rooms or all large buildings where air quality control such as humidity control and fresh air and is needed.

AHU Kit combine air conditioning and fresh air in just one solution. The Panasonic AHU Kits offer a wealth of connectivity possibilities so can be easily integrated into many systems.

Application: Hotels, offices, server rooms or all large buildings where air quality control such as humidity control and fresh air and is needed. Besides the advantages in terms of indoor air quality, air conditioning offers also an energy saving potential. For example, while uncontrolled ventilation through open windows leads to large amounts of heat being lost to the outside during the heating season or gained from the outside during the cooling season, air conditioning systems provide possibilities to utilize the extra "free" energy in heat recovery modules so that overall operating costs will be reduced.

The larger the area of the comfort range, the better the energy saving opportunities.

Air Curtain with DX Coil

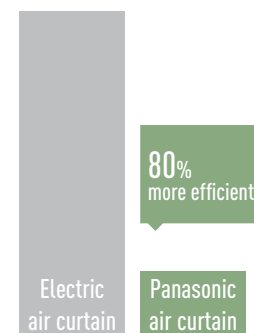
Highly efficient heating effect

The combined air stream, which has a desirable low air current induction factor (mixing factor), can carry the selected initial temperature effect over long distances, and will reach the floor area while still at room temperature. This is necessary to avoid cooling down the interior spaces.



The Panasonic range of air curtains is designed for smooth operation and efficient performance. Air curtains produce a continuous stream of air blown from the top to the bottom of an open doorway and create a barrier that people and products can flow across, but air can't. Designed to improve energy efficiency, minimise heat loss from a building, and to allow retailers to keep doors open to encourage customers, our Air Curtains are suitable for connection to both VRF and PACi Systems.

Heating capacity comparison: Electrical air curtain / Panasonic air curtain



* With the U-100PE1ESA on the PAW-20PAIRC-MS. Calculation method: Taking as consideration SCOP of the Panasonic combination of 6.0. If 100 is the energy needed for a air curtain, Panasonic Air curtain will need 1/(1-6)*100=20.

Electric Air Curtain

Air curtains can help reduce whole building heating or cooling costs by helping to stop heat escaping the building or keeping cooled air in. Panasonic offers two sizes - 900mm and 1200mm electric air curtains. Ideal for separating areas and energy saving.



Technical focus:

- 2 sizes: 900mm and 1.200mm
- Powerful air flow (10 m/s)
- Very low noise, only 42 dB

Comfort.

- Easy redirection of airflow by means of the manual deflector

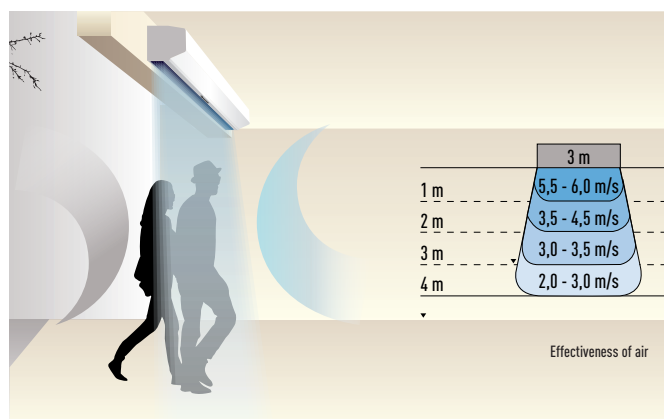
Ease of use.

- Speed selector (high and low) on the unit itself

Easy installation and maintenance.

- Simple installation
- Compact dimensions improve installation and positioning in any space

			FY-10ESPNAH	FY-10ELPNAH
Width			900	1.200
Watts	Hi	W	71,5	96
	Lo	W	61,5	74
Current	Hi	A	0,40	0,54
	Lo	A	0,29	0,35
Air speed	Hi	m/s	13,0	13,1
	Lo	m/s	11,1	11,0
Air volume	Hi	m³/min	12,5	16,7
	Lo	m³/min	10,5	13,8
Noise lever	Hi	dB(A)	46	46
	Lo	dB(A)	42	41
Weight		kg	11	14



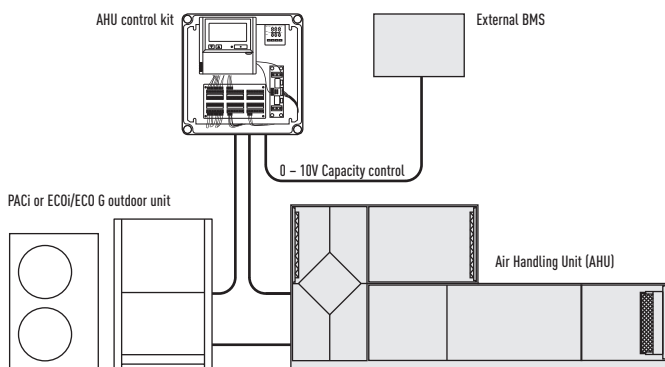
AIR HANDLING UNIT KIT 10-25kW FOR PACi



Panasonic AHU Kit, 10-25kW connected to PACi outdoor unit

The new Air Handling Unit Kit has been developed to better meet customer demand: IP 65 Box in order to be installed outside, 0-10V demand control* and easy control by BMS

* Only available with Elite PACi, up to from 6kW to 14kW.



Demand control on the outdoor unit managed by external 0-10 V signal.

Control option 1: PAW-280PAH2L

- The system's control is simple: control of actual suction temperature vs. set point
- Control works in the same way as that of any indoor unit
- Fan signal issued by the PCB (OFF while defrosting, for instance)

Control option 2: PAW-280PAH2

- System control by probe located at air intake. Sensor works as a 0-10V control thermostat which manages the set point temperature. Control to prevent cold draughts.
- All signals as per standard

Control option 3: PAW-280PAH2

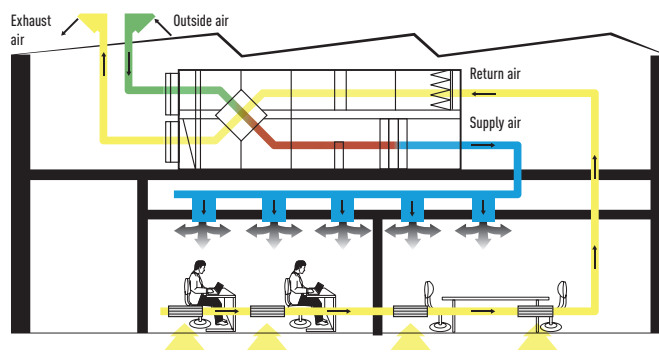
- System control by external environment probe. Sensor works as a 0-10V control thermostat which manages the set point temperature. Enhances efficiency by adjusting capacity to the ambient temperature and enhances comfort as well.
- All signals as per standard

Control option 4: PAW-280PAH2

- System control by a 0-10V control working from an external BMS that manages the set point for the temperature or the capacity. Enhances efficiency by adjusting capacity to the ambient temperature and enhances comfort as well.
- All signals as per standard

Main components of mechanical ventilation systems

The main components of a mechanical ventilation system are the following: Air Handling Unit (AHU), air ducts and air distribution elements.



0-10V control

With the 0-10 v demand control the capacity of the outdoor unit can be controlled by 20 steps.

With the included resistance. 0-10V control scheme with 10V= maximum capacity

Input Voltage* (V)	0 - 0,55	1,1	1,65	2,2	2,8	3,35	3,9	4,45	5,0	5,55	6,1	6,65	7,2	7,8	8,35	8,9	9,45	10,0
Demand (% of nominal current)	Stop ¹	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	No limit / Full capacity ³

When you remove the resistance. 0-10V control scheme with 10V= Thermo-Off

Input Voltage* (V)	0 - 0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5	9,0	9,5 - 10,0
Demand (% of nominal current)	Stop ¹	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	No limit ²	Thermo-Off ³

* If a voltage range (0 - 0,5 or 9,5 - 10,0V) is indicated, the applied voltage must be within the given limits. However, if a single value (e.g. 1,0V) is indicated, the applied voltage must be within +/-0,1V of the given value to achieve the assigned demand setting.

Examples: "Stop" can be achieved with any analogue input value greater than 0V and less than or equal to 0,5 V; 40% demand can be achieved with any analogue input value greater than or equal to 0,9V and less than or equal to 1,1V etc.

- 1) 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).
- 3) Thermo-Off: No cooling / heating operation (compressor is switched off; however, the fans may still be operating). For example, forced Thermostat-Off mode can be used for free cooling.

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

CZ-RTC4 Timer remote controller.

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

* Fan operation signal can be taken from the PCB.

CZ-CAPBC2 Mini seri-para I/O unit (advanced version only) .

- Easy integration in external AHU control systems and BMS
- Demand control: 40 to 115 % (5 % steps) of nominal current by 0-10 V input signal*
- Target temperature setting by 0-10 V or 0-140 Ω input signal*
- Room supply air temperature output by 4-20 mA signal
- Mode select or/and ON/OFF control
- Fan operation control
- Operation status output/ Alarm output
- Thermostat ON/OFF control

* Demand control by external BMS cannot be combined with the demand control or target temperature setting accomplished by the thermostat. However, if simultaneous demand control and target temperature setting is needed, this can only be achieved by using a second (optional) CZ-CAPBC2 interface.

PAW-OCT, DC12 V outlet. OPTION terminal.

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

CZ-T10 terminal / 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 max. 230 V 5 A (NO/NC)
- Alarm output (by DC12V)
- 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)

AHU Kit connects PACi outdoor units to Air Handling Units system

The Panasonic AHU Kits offer a wealth of connectivity possibilities so can be easily integrated into many systems.

Application: Hotels, offices, server rooms or all large buildings where air quality control such as humidity control and fresh air and is needed.

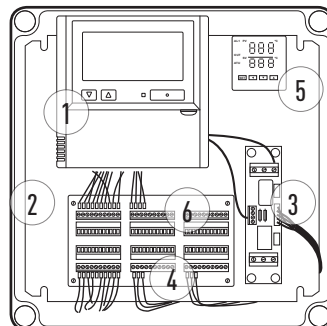
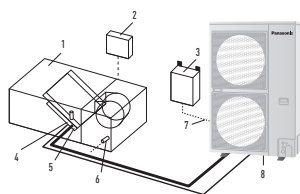
3 types of AHU Kit: Deluxe, Medium and Light.

Model Code	IP 65	0-10V demand control*	Outdoor temperature shift compensation. Cold draft prevention
PAW-280PAH2	Yes	Yes	Yes
PAW-280PAH2M	Yes	Yes	No
PAW-280PAH2L	Yes	No	No

* With CZ-CAPBC2.

System & regulations. System overview

1. AHU Kit equipment (Field supplied)
2. AHU Kit system controller (Field supplied)
3. AHU Kit controller box (with control PCB)
4. Thermistor for Gas pipe (E2)
5. Thermistor for Liquid pipe (E1)
6. Thermistor for Suction air
7. Inter-unit wiring
8. Outdoor unit



1. Remote control CZ-RTC4
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

AHU Connection Kit



PCB, Power trans, Terminal block



Thermistor x2 (Refrigerant: E1, E2)



Thermistor (Air: TA; 1 sensor)



Standard wired remote controller.

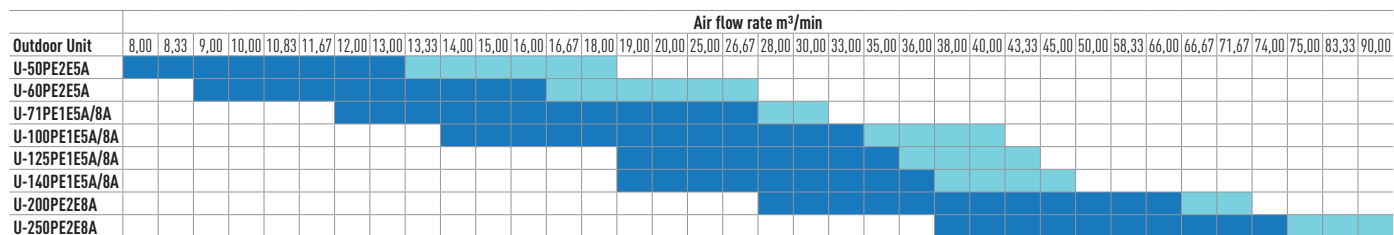


Optional Controller. Timer remote controller CZ-RTC4. Compatible with Econavi

AHU PACi Elite	Cooling capacity	Heating capacity	Air volume	Dimensions	Piping length	Elevation difference (in/out)
	Nominal kW	Nominal kW	High / Low m³/min	H x B x D mm	Min / Max m	Min / Max m
PAW-280PAH2	6 / 25	7 / 28	8,0 / 74,0	404 x 425 x 78	5 / 30*	10
PAW-280PAH2+PAW-280PAH2	50,0	56,0	38,0 / 148,0	404 x 425 x 78	5 / 30*	10

* For U-200PE2E8A and U-250PE2E8A.

AHU connection kit / System combination	Capacity kW	Outdoor unit	AHU	Air volume	Dimensions	Piping length	Elevation difference (in/out)	Piping connections	
				High / Low m³/min	H x B x D mm	Min / Max m	Min / Max m	Liquid pipe Tum (mm)	Gas pipe Tum (mm)
U-50PE2E5A	5,0	U-50PE2E5A	PAW-280PAH2	8,0 / 13,0	404 x 425 x 78	5 / 30	10	1/4 (6,35)	1/2 (12,7)
U-60PE2E5A	6,0	U-60PE2E5A	PAW-280PAH2	9,0 / 16,0	404 x 425 x 78	5 / 30	10	3/8 (9,62)	5/8 (15,88)
U-71PE1E5A/U-71PE1E8A	7,5	U-71PE1E5A/U-71PE1E8A	PAW-280PAH2	12,0 / 25,0	404 x 425 x 78	5 / 30	10	3/8 (9,62)	5/8 (15,88)
U-100PE1E5A/U-100PE1E8A	10,0	U-100PE1E5A/U-100PE1E8A	PAW-280PAH2	14,0 / 33,0	404 x 425 x 78	5 / 30	10	3/8 (9,62)	5/8 (15,88)
U-125PE1E8A	12,5	U-125PE1E8A	PAW-280PAH2	19,0 / 35,0	404 x 425 x 78	5 / 30	10	3/8 (9,62)	5/8 (15,88)
U-140PE1E8A	14,0	U-140PE1E8A	PAW-280PAH2	19,0 / 35,0	404 x 425 x 78	5 / 30	10	3/8 (9,62)	5/8 (15,88)
U-200PE2E8A	20,0	U-200PE2E8A	PAW-280PAH2	28,0 / 66,0	404 x 425 x 78	5 / 70	10	3/8 (9,62)	1 (25,4)
U-250PE2E8A	25,0	U-250PE2E8A	PAW-280PAH2	38,0 / 74,0	404 x 425 x 78	5 / 70	10	1/2 (12,7)	1 (25,4)



Standard condition in cooling mode intake air temperature. Rating Conditions: Cooling Indoor 27°C DB / 19°C WB.

Maximum condition in cooling mode intake air restriction temperature Min18°C DB / 13°C WB Max 32°C DB / 23°C WB

AIR CURTAIN WITH DX COIL, CONNECTED TO THE VRF OR PACi SYSTEMS

High efficiency air curtain connected to your VRF installation. EC Fan motor for a smooth operation and efficient performance. 2 types of air flow available: Jet-Flow and Standard. Easy cleaning and servicing.

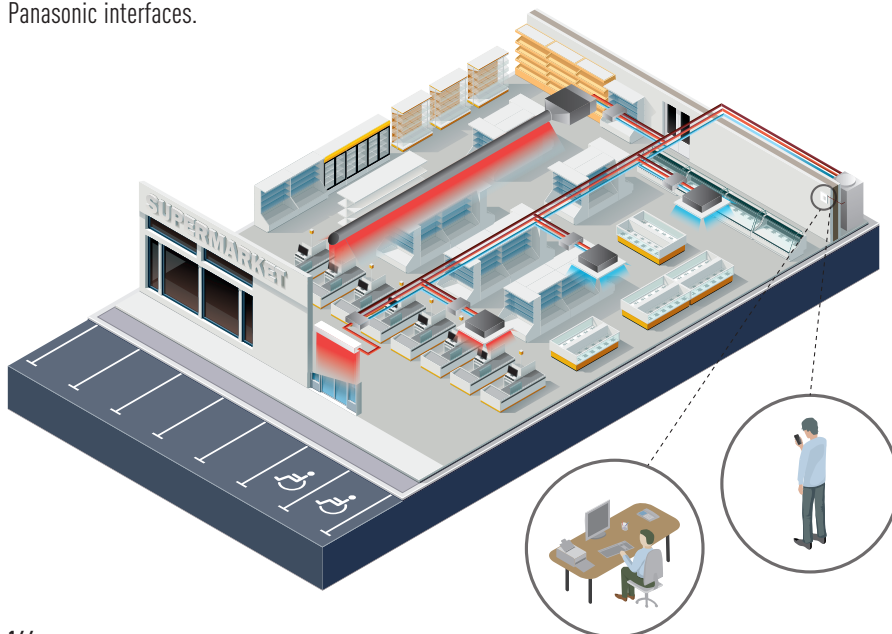
Highly efficient heating effect

The combined air stream, which has a desirable low air current induction factor (mixing factor), can carry the selected initial temperature effect over long distances, and will reach the floor area while still at room temperature. This is necessary to avoid cooling down the interior spaces. Available in different lengths to suit requirements between 1 and 2,5 m, both air curtains have outlet grilles that can be adjusted to five different positions. The jet flow model can be installed up to a height of 3,5 m with the standard model up to 3,0 m. The outlet grilles can be easily adjusted into five positions to suit different installations requirements and the air filter can be accessed without the need for specialist tools.

- Super-efficient with new EC fan motor (40% lower running costs compared to a standard AC fan motor)
 - Easy Cleaning and Servicing
 - Can be connected to either Panasonic VRF or PACi systems
 - Built-in drain for cooling operation
 - Standard and Jet Flow air curtains can be controlled via Panasonic's range of remote internet controls
- The new standard and jet-flow models are ideal for connection to a ECOi or PACi system. With simple "plug and play" installation, both are fitted with an EC fan motor for a smooth operation and efficient performance. This new fan guarantees 40% lower running cost than with a standard AC fan motor. With air curtains often running for 12 hours a day as a minimum, this can lead to considerable savings.

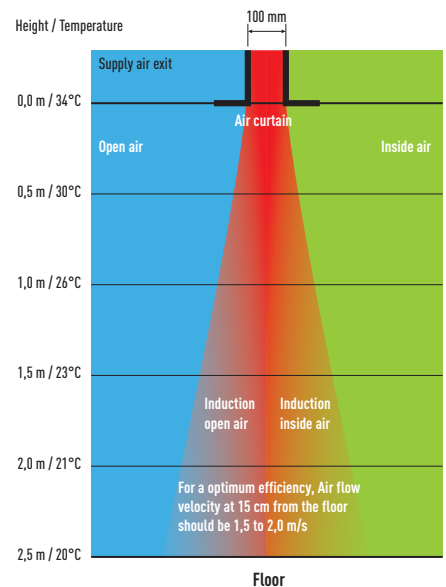
Internet Control

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.



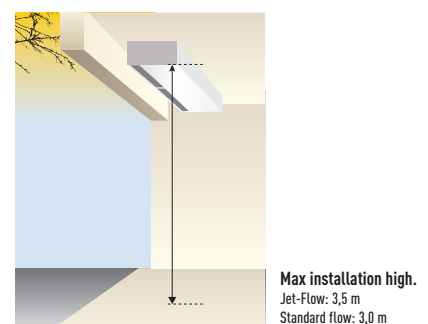
Intelligent Operation

Our air curtains combine airflow and heating / cooling technology to ensure optimum comfort and energy efficiency whilst also creating an effective barrier between indoor and outdoor environments. Design and installation is key to achieving the correct height / temperature settings to achieve optimum performance. Our air curtains are designed to answer the demands of the retail, commercial and industrial markets.



How does it work?

Stale air from the room is taken in and ejected near the door. This creates a 'roll of air' that shields the door area, mixing with the colder incoming air. It then turns away from the door, back into the room and toward the intake screen, where it is partly drawn in again. This flow of air helps to create a barrier for heat loss yet at the same time refreshes room air



Technical focus

- 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)
- 3 Lengths of Air Curtains Jet-Flow, from 1,0 to 2,0 m and 2 lengths of Air Curtains Standard, 1,0 and 2,0 m
- Installation Height up to 3,5 m (Jet-Flow) and 3,0 m (Standard)
- Outlet Grilles can be adjusted in five positions, to suite different Indoor and installation requirements (Jet-Flow)
- Control with Panasonic Remote Control systems (optional)
- Direct integration to BMS by optional Panasonic Interfaces
- Drain included for cooling operation

Features

Comfort.

- Easy redirection of Airflow by means of manual deflector (Jet-Flow)

Ease of use.

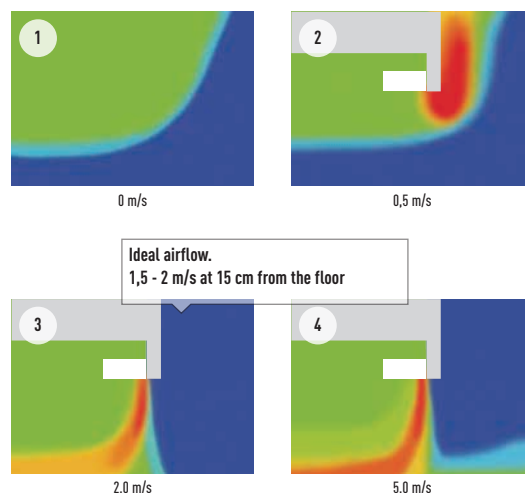
- Speed selector (high and low) on the unit itself

Easy installation and maintenance.

- Easy installation
- Compact dimensions improve installation and positioning (Jet-Flow)
- Easy cleaning of grid without opening of the unit

Optimised airflow velocity

1. Energy losses, no air curtain installed
2. Too low velocity air curtain – air curtain not efficient
3. Optimum results with the Tekadood air curtain connected to Panasonic VRF
4. Too high velocity air curtain – considerable turbulence, energy lost to the outside, air curtain not efficient



HP	4 HP			6 HP			8 HP								
Air Curtain	PAW-10PAIRC-MJ			PAW-15PAIRC-MJ			PAW-20PAIRC-MJ								
Air flow type	Jet-Flow						Standard								
Air Flow Length (A)	m			1,0			2,0								
Air volume	Hi / Med / Lo	m³/min		30,00 / 25,00 / 20,00		45,00 / 38,33 / 31,67		60,00 / 50,00 / 41,67							
Cooling capacity nominal ¹	kW		9,2		17,5		23,1		30,00 / 25,00 / 20,00						
Heating capacity with air in 20°C, air out 40°C	kW		11,9		17,9		23,9		11,9						
Heating capacity with air in 20°C, air out 35°C	kW		8,9		13,4		17,9		8,9						
Heating capacity with air in 20°C, air out 30°C	kW		5,9		8,9		11,9		5,9						
Max installation height	Good / Normal / Bad condition	m		3,5 / 3,1 / 2,7		3,5 / 3,1 / 2,7		3,5 / 3,1 / 2,7		3,0 / 2,7 / 2,4					
Refrigerant	R410A			R410A			R410A								
Liquid pipe / Gas pipe	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) / 5/8 (15,88)		3/8 (9,52) / 7/8 (22,22)				
Fan	230V / 50Hz / 1 / N / PE			230V / 50Hz / 1 / N / PE			230V / 50Hz / 1 / N / PE			230V / 50Hz / 1 / N / PE					
Fan type	EC			EC			EC			EC					
Currenty	Hi / Med / Lo	A		2,1 / 0,8 / 0,3		2,8 / 1,1 / 0,4		4,2 / 1,6 / 0,6		2,1 / 0,8 / 0,3					
Electrical Consumption	Hi / Med / Lo	kW		0,44 / 0,17 / 0,06		0,59 / 0,23 / 0,08		0,89 / 0,34 / 0,12		0,44 / 0,17 / 0,06					
Protecting Fuse	A			M16A			M16A			M16A					
Noise	dB(A)		40-55		40-56		40-56		40-57		40-57				
Dimensions / Weight	W x H x D	mm / kg		1.210 x 260 x 590 / 70		1.710 x 260 x 590 / 100		2.210 x 260 x 590 / 138		1.210 x 260 x 490 / 60		2.210 x 260 x 490 / 128			
Outdoor combination with PACi Elite unit 40°C	U-100PE1E5A/8A			U-140PE1E5A/8A			U-200PE2E8A			U-100PE1E5A/8A			U-140PE1E5A/8A		
Outdoor combination with PACi Standard unit 40°C	U-100PEY1E5/8			—			—			U-100PEY1E5/8			—		
Outdoor combination with PACi Elite unit 35°C	U-71PE1E5A/8A			U-100PE1E5A/8A			U-140PE1E5A/8A			U-71PE1E5A/8A			U-100PE1E5A/8A		
Outdoor combination with PACi Standard unit 35°C	U-100PEY1E5/8			U-100PEY1E5/8			—			U-100PEY1E5/8			U-100PEY1E5/8		
Outdoor combination with PACi Elite unit 30°C	U-50PE2E5A			U-100PE1E5A/8A			U-100PE1E5A/8A			U-50PE2E5A			U-100PE1E5A/8A		
Outdoor combination with PACi Standard unit 30°C	U-60PEY2E5			U-100PEY1E5/8			U-100PEY1E5/8			U-60PEY2E5			U-100PEY1E5/8		

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.

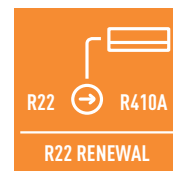
1) Rated Conditions Cooling Outdoor +35°C DB Indoor +27°C DB/+19°C WB, Discharge temperature ³ 16°C.



R22 RENEWAL FAST, EASY TO INSTALL AND COST EFFECTIVE



¡An important drive to further reduce the potential damage to our ozone
It is often said that legislation is ruling our lives but sometimes it is there to help save
lives. R22 phase out can be described as one of these and from Jan 1st 2010 the use of
Virgin (new) R22 refrigerant was banned within the European Community.



Why renewal?

Panasonic refrigerant oil doesn't react to the most common oil types used in air-conditioning systems. This ensures the mix of oil does not damage the units. Therefore installations are easier. All Panasonic PACi units can be installed in R22 pipings, no specific models are available. Up to 33 Bar! When there is any doubt about the strength of the piping, the maximum working pressure can be reduced to 33 Bar with a setting in the software of the outdoor unit.

Panasonic are doing our part.

Panasonic has developed a clean and cost effective solution to enable this latest legislation to be introduced with as minimum an effect on businesses and cash reserves as possible.

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

By bringing a simple solution to the problem Panasonic can renew all Split Systems and PACi systems; and depending upon certain restrictions we don't even limit the manufacturer's equipment we are replacing.

By installing a new high efficiency Panasonic R410A system you can benefit from around 30% running cost saving compared to the R22 system.

1. Check the capacity of the system you wish to replace -
2. Select from the Panasonic range the best system to replace it with -
3. Follow the procedure detailed in the brochure and technical data.

Measurement Procedure for Renewal

Observe the following procedure when reusing the existing piping or carrying out renewal installation work.

Flowchart of existing piping measures criteria for PE1 / PE2 Type and PEY1 Type outdoor unit.

R22 - The reduction of Chlorine critical for a cleaner future

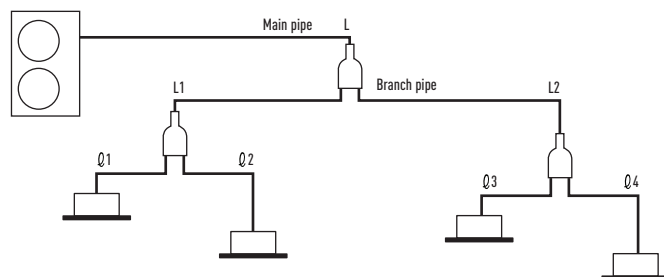
Reuse of existing piping (Renewal Design & Installation).

Notes on reuse of existing refrigerant piping. It is possible for each series of PE1 / PE2 type and PEY1 type outdoor unit to reuse the existing refrigerant piping without cleaning when obtained under certain conditions.

Notes on renewal for simultaneous operation of multiple units

Only main pipe is applicable for using the different diameter size. In case of different diameter size for the branch pipes, a new installation work for a standard size is necessary.

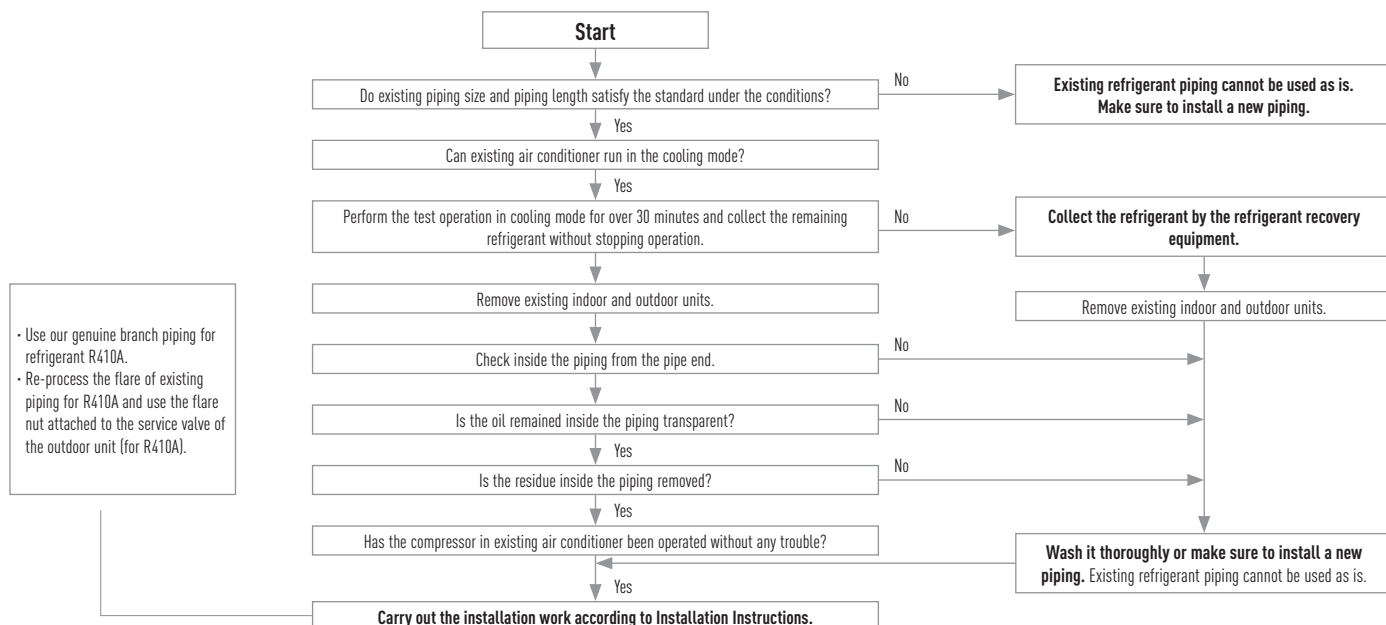
Be sure to use our genuine branch piping for refrigerant R410A.



Notes on Renewal for Simultaneous Operation of Multiple Units

Capacity class	Standard liquid pipe size	Standard gas pipe size
Type 50	Ø 6,35	Ø 12,7
Type from 60 to 140	Ø 9,52	Ø 15,88
Type 200	Ø 9,52	Ø 25,4
Type 250	Ø 12,7	

- Only the main pipe L can be used among different diameter's existing piping
- Installation work as a standard size is capable for L1, L2, Q1 - Q4 piping
- Be sure to use our genuine branch piping for refrigerant R410A

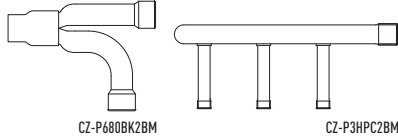


Prerequisite: • If the refrigerant used for the existing unit is other than R22, R407C and R410A, the existing refrigerant piping cannot be used. • If the existing unit has another use than air conditioning, then existing refrigerant piping cannot be used.

ACCESSORIES & CONTROL

Branch Pipes, Header

- CZ-P155BK1**
Branch pipe.
- CZ-P224BK2BM**
Branch pipe.
- CZ-P680BK2BM**
Branch pipe (from 22.4kW to 68kW).
- CZ-P3HPC2BM**
Header.



Outdoor accessories

- PAW-WTRAY**
Tray for condenser water compatible with base ground support.
- PAW-GRDSTD40**
Outdoor elevation platform 400 x 900 x 400mm.
- PAW-GRDBSE20**
Outdoor base ground support for noise and vibration absorption (600 x 95 x 130mm, 500kg).
- PAW-WPH7**
Wind protection shield for U-50PE2E5A.
- PAW-WPH8**
Wind protection shield for U-200PE2E8A, U-250PE2E8A.
- PAW-WPH9**
Wind protection shield for U-1PE1E5A/8A 60 & 70, U-1PEY1E5/8 100 & 125.
- PAW-WPH10**
Wind protection shield for U-1PE1E5A/8A 100, 125 & 140, U-140PEY1E8.



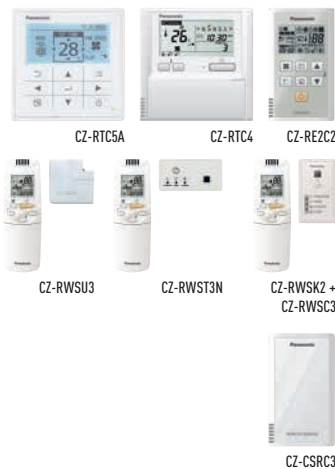
Panels

- CZ-KPU3**
Normal panel for 90x90 Cassette PUZ.
- CZ-KPU3A**
Econavi panel for 90x90 Cassette PUZ.
- CZ-KPY3A**
Panel for 60x60 Cassette size 700 x 700mm.
- CZ-KPY3B**
Panel for 60x60 Cassette size 625 x 625mm.



Individual Controls

- CZ-RTC5A**
Wired remote control with Econavi button.
- CZ-RTC4**
Standard Wired remote control with Econavi button.
- CZ-RE2C2**
Simplified remote control.
- CZ-RWSU3**
Wireless remote control for 90x90 Cassette PUZ.
- CZ-RWST3N**
Wireless remote control for Ceiling.
- CZ-RWSK2**
Wireless remote control for Wall mounted (and CZ-RWSC3).
- CZ-RWSC3**
Wireless receiver kit (need CZ-RWSK2 separately).
- CZ-CSRC3**
Temperature Remote sensor.



Remote controller for Hotels with Dry Contacts

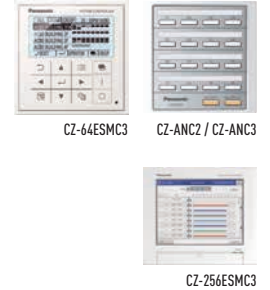
- PAW-RE2C3-WH**
Stand-Alone with I/O White frame.
- PAW-RE2C3-GR**
Stand-Alone with I/O Grey Frame.
- PAW-RE2C3-MOD-WH**
Modbus RS-485 with I/O White frame.
- PAW-RE2C3-MOD-GR**
Modbus RS-485 with I/O Grey frame.

- PAW-RE2C3-LON-WH**
LonWorks TP/FT-10 with I/O White frame.
- PAW-RE2C3-LON-GR**
LonWorks TP/FT-10 with I/O Grey frame.



Centralised Controls

- CZ-64ESMC3**
New System Controller with Schedule timer. Operation with various function from center station.
- CZ-ANC2**
Central On/Off controller, up to 16 groups, 64 indoor units.
- CZ-ANC3**
Central On/Off controller, up to 16 groups, 64 indoor units.
- CZ-256ESMC3**
Simplified load distribution ratio (LDR) for each tenant. Intelligent Controller (Touch screen panel).



Centralised Controls. BMS System. PC Base

- CZ-CSWKC2**
PAIMS Basic software.
- CZ-CFUNC2**
PAIMS Communication adaptor.
- CZ-CSWAC2**
PAIMS Consumption calculation control.
- CZ-CSWBC2**
PAIMS - BACnet interface.
- CZ-CSWGC2**
PAIMS - Layout display.
- CZ-CSWWC2**
PAIMS - Web application.



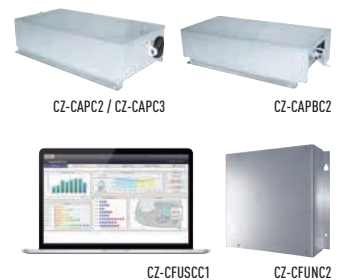
Centralised Controls. Connection with 3rd Party Controller

- CZ-CAPDC**
Serial parallel device controlling outdoor units, up to 4 units.



Centralised Controls. BMS System. PC Base

- CZ-CAPC2**
Adaptor for On/off control of external devices.
- CZ-CAPC3**
Adaptor for On/off control of external devices.
- CZ-CAPBC2**
Mini series parallel device controlling indoor units, maximum 1 group and 8 indoor unit.
- CZ-CFUNC2**
Communication Adaptor. Up to 128 groups. Controls 128 units.
- CZ-CFUSCC1**
Panasonic AC Smart Cloud. Cloud internet control. Up to 128 groups. Controls 128 units.



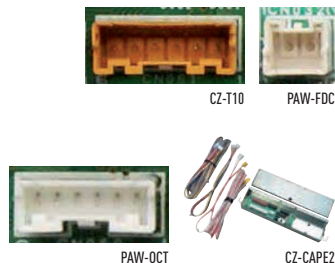
Accessories Interfaces

- PA-RC2-WIFI-1**
Interface for Inteshome for PACi.
- PAW-RC2-KNX-1i**
KNX Interface.
- PAW-RC2-MBS-4**
Modbus interface to control 4 indoor/groups.
- PAW-RC2-MBS-1**
Modbus Interface.
- PAW-MBS-TCP2RTU**
ModBus RTU Slave devices
- PAW-RC2-BAC-1**
BACnet Interface.
- PAW-RC2-ENO-1i**
EnOcean Interface.
- CZ-CAPRA1**
Domestic with CZ-CNT port integration to PACi and ECOi.



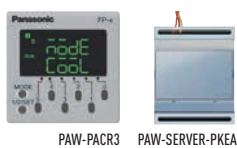
Accessories Cables

- CZ-T10**
All T10 functions.
- PAW-FDC**
Operate external EC fan.
- PAW-OCT**
All Option monitoring signals.
- PAW-EXCT**
Force Thermo OFF/leakage Detection.
- CZ-CAPE2**
Option monitoring signals wo. Fan.



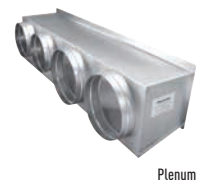
Accessories PCB

- PAW-T10**
All T10 functions.
- PAW-T10V**
All T10 functions + powermonitoring.
- PAW-T10H**
ON/OFF; Prohibit 5VDC & 230VAC.
- PAW-T10HW**
ON/OFF; Prohibit 5VDC.
- PAW-PACR3**
Redundancy of 2 or 3 systems; for PACi and ECOi.
- PAW-SERVER-PKEA**
Redundancy of 2 units PKEA.



Plenums

- CZ-DUMPA90MF2**
Air Inlet Plenum S . .PF1E5A 60 & 71.
- CZ-DUMPA160MF2**
Air Inlet Plenum S . .PF1E5A 100, 125 & 140.
- CZ-56DAF2**
Air Outlet Plenum S . .PF1E5A 36, 45 & 50.
- CZ-90DAF2**
Air Outlet Plenum S . .PF1E5A 60 & 71 .
- CZ-160DAF2**
Air Outlet Plenum S . .PF1E5A 100, 125 & 140.
- CZ-TREMIESPW705**
Air Outlet Plenum S-200PE2E5.
- CZ-TREMIESPW706**
Air Outlet Plenum S-250PE2E5.



Plenum

Other Accessory

- CZ-CNEXU1**
Nanoe™ air purifying system for 90x90 Cassette PU2.
- CZ-CENSC1**
Econavi energy savings sensor.



CZ-CENSC1

