

Panasonic

NEW COMMERCIAL
RANGE
EXTREMELY
EFFICIENT

2013 / 2014



PACi STANDARD



PACi ELITE

NEW COMMERCIAL AIR TO AIR 2013 / 2014

heatingandcoolingsystems

PACi STANDARD | PACi ELITE



PACi
STANDARD

PACi
ELITE

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.

PACi Elite, Newly designed next generation VRF!

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.

A class
energy saving

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.

6.8 A++
SEER

SEASONAL ENERGY EFFICIENCY RATIO

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

4.0 A+
SCOP*

SEASONAL COEFFICIENT OF PERFORMANCE

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

Down to
-15 °C in
cooling mode

OUTDOOR TEMPERATURE

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

Down to
-20 °C in
heating mode

OUTDOOR TEMPERATURE

The air conditioner works in heat pump mode with an outdoor temperature as low as -20 °C or -15 °C.

Easy
control
by 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.

Environmentally
friendly
refrigerant

R410A

R410A. Environmentally friendly refrigerant.

5 year
compressor
warranty

5 years warranty on compressor.



ISO 9000 Series Certification

CERTIFIED TO MS ISO 9002:1994
Panasonic HA Air-Conditioning (M) Sdn. Bhd. (PHAAM)
(Formerly know as Matsushita Industrial Corp. Sdn. Bhd.)
Registration No.: AR 0866



Environment Management Systems Approval Certificate

CERTIFIED TO MS ISO 14001:1997
Panasonic HA Air-Conditioning (M) Sdn. Bhd. (PHAAM)
(Formerly know as Matsushita Industrial Corp. Sdn. Bhd.)
Certification No.: M015802127

SEASONAL EFFICIENCY (SCOP)

PRODUCT FOLLOWS THE NEW
ECODESIGN REQUIREMENTS

PACi STANDARD
SCOP

A++/A

NEW



SEASONAL EFFICIENCY (SCOP)

PRODUCT FOLLOWS THE NEW
ECODESIGN REQUIREMENTS

PACi ELITE
SCOP

A++/A+

NEW



PACi Standard, Improved energy saving

- Good balance, system cost vs energy efficiency
- Top class SEER/SCOP as a Standard Inverter category
SEER: +A / SCOP: A at 10.0 kW
- Interchangeable controller with ECOi
- 1 fan compact outdoor (up to 12.5 kW)
- Twin connection possible

PACi Elite

- Obtaining all necessary safety approvals to ensure quality and safety
- Top-class EER: 4.20 / COP: 4.31 (In case of 10 kW)
- 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 unit 1416 x 940 x 340 mm
- Auto restart from outdoor unit





PACi Standard: outdoor unit

More compact

The new 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.

* Only for U-100PEY1E8, U-125PEY1E8, U-100PEY1E5 and U-125PEY1E5.

CURRENT MODEL
(1170 x 900 x 320)

**-15%
SMALLER**

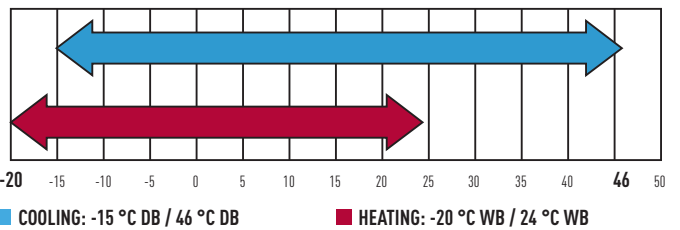


NEW, ON THE 12.5 kW
(996 x 940 x 340)

PACi Elite: outdoor unit

Wide operating range

- Cooling operation is possible when outdoor temperature as low as -15 °C
 - Cooling operation is possible when outdoor temperature 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 16 °C to 30 °C.



Product Quality and Safety

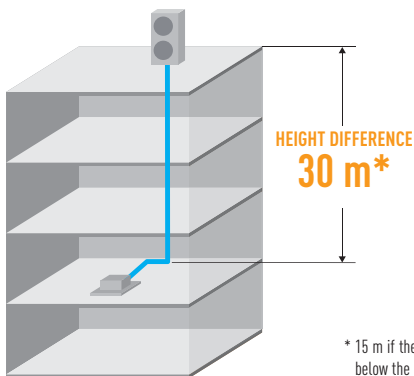
All Panasonic air conditioners undergo strict quality and safety tests before sale. This rigorous process includes obtaining all necessary safety approvals, to ensure that all air conditioners we sell are not only built to the highest market standards, but are also completely safe.

PACi Elite: outdoor unit

Increased Piping Length for Greater Design Flexibility

Adaptable to various building types and sizes.

Max. piping length: 75 m (10.0, 12.5, 14.0 kW). 50m (6.0, 7.1 kW).



* 15 m if the outdoor unit is below the indoor unit.

Compact and Lightweight

As the unit only weighs 98 kg, it is easy to carry and easy to install.



Quiet mode

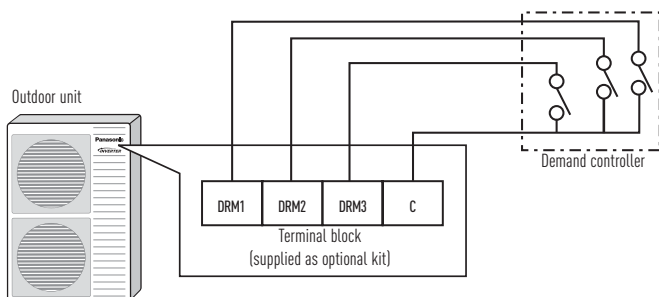
5 dB can be reduced by setting. External input signal is also available.

Demand Response Compliant (CZ-CAPDC)

This optional part allows demand control of the outdoor unit.

Several level of settings are available:

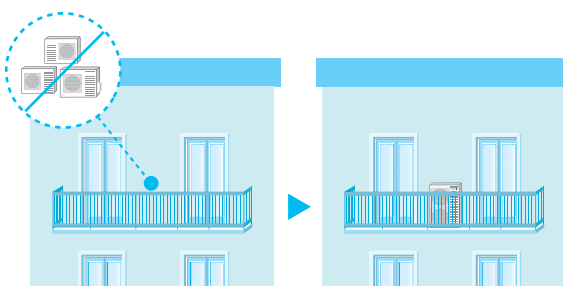
- Level-1, 2, 3 : 75 / 50 / 0 %
- Level-1, 2 can be set in 40 - 100% (40, 45, 50...95, 100: each 5%)



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

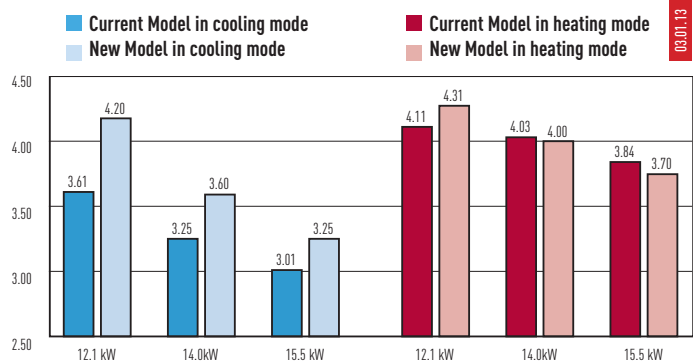
Compact & Flexible-design

The slim and lightweight design means the PACi outdoor unit can be installed in a number of situations.



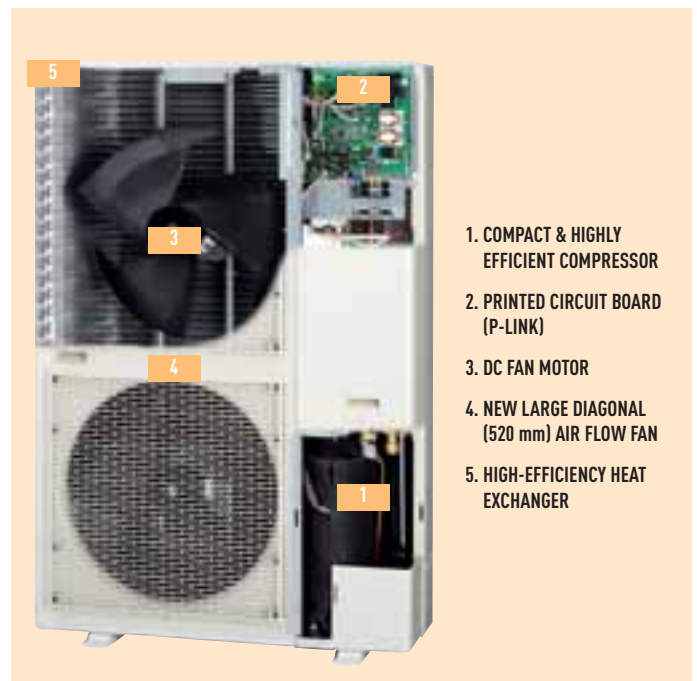
Improved energy saving

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



4 / 5 / 6 HP

03.01.13



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.

1. Compact & Highly Efficient Compressor. Large-capacity inverter compressor has been adopted. The inverter compressor is superior in performance with improved partial-load capacity.
2. Printed Circuit Board (P-LINK). To improve maintenance, the number of PCBs have been reduced to two.
3. DC fan motor. Checking load and outside temperature, the DC motor is controlled for optimum air volume.
4. New Large Diagonal (520 mm) Air Flow Fan. The fan has been designed to reduce air turbulence and increase efficiency. As fan diameter has been increased to 520 mm, the air volume has been increased by 12% whilst maintaining a low sound level.
5. High-Efficiency Heat Exchanger. The heat exchanger size and the copper tube sizes in the heat exchanger have been redesigned to increase efficiency.



360°
air flow

360° Air Flow 4 Way 90x90 Cassette PACi Standard and Elite

4 Way 90x90 Cassette. Wide & Comfortable Airflow

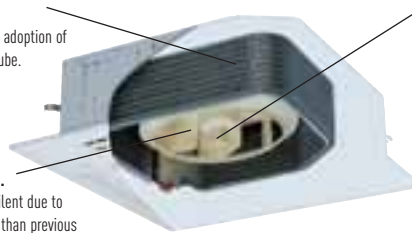
This proprietary design provides a wide and very comfortable airflow. The cassette's wide-angle discharge outlets and flaps are larger in the middle, featuring a shape that was selected based on geometrics and testing of actual prototype units. Air coming out of the center of the discharge outlets travels farther. From the sides of each outlet, where the openings are larger, airflow spreads out to reach the corners of the room. Air is discharged across a wide area from the four sides of the unit. The curves on the room temperature distribution graph expand gently through 360° in a circle centered on the indoor unit.

HIGHER EFFICIENCY SPLIT FIN.

Improved heat-transfer coefficient due to adoption of high efficiently grooved heat exchanger tube.

HIGH-EFFICIENT & SILENT TURBO FAN.

It is realized more air volume and more silent due to new development of a bigger fan chassis than previous one and optimization design of airflow path.



NEW DC-FAN MOTOR.

It is realized more optimum air-flow by a new DC-fan motor with independent control.

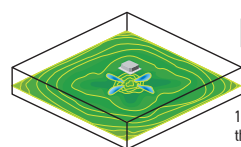
INDIVIDUAL FLAP CONTROL.

Flexible Air flow direction control by individual flap control is possible. 4 Flaps can be controlled individually by setting on wired timer remote controller. It can make more flexible Air-flow control to be matched to several demands in a room.

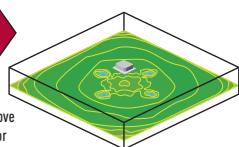
New 360° Air Flow for improved comfort

The new air-outlet and flap design creates a soft and gentle air flow which circulates throughout the whole space and provides an even temperature distribution in the room.

CURRENT MODEL



360° AIR FLOW



25.0 Temp.

1 m above the floor

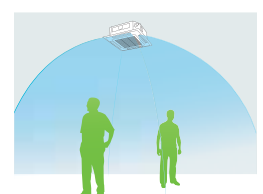
More even temperature in the room.

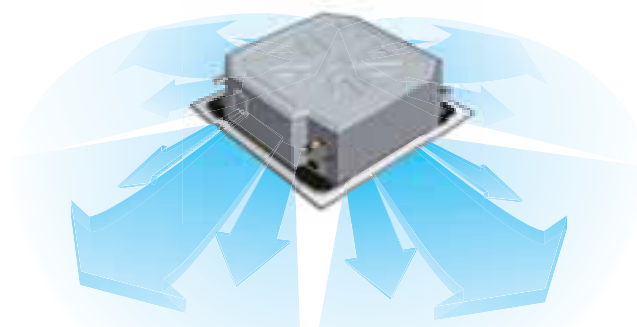
Simulated condition: Floor area: 225 m². Ceiling height: 3 m, Unit 12.5 kW type.

CURRENT MODEL



360° AIR FLOW



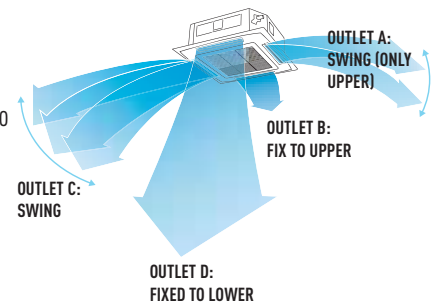


Ample airflow: 36 m³/min
Industry's highest in the 140 PU class.

Flexible 3D air-flow control

Comfort air flow control & proper energy use. Flexible Air flow direction control by individual flap control:

- 4 Flaps can be controlled individually (by standard wired remote controller*).
- Versatile air flow control to cover a wide variety of demands.

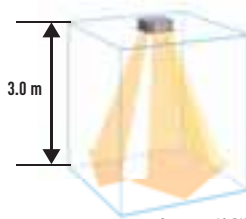


* It needs pre-setting for this function at System Test-run procedure.

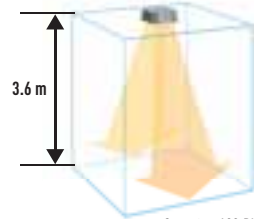
High-Ceiling Installation (Up to 5 m for 100 PU and higher models)

The units can be installed in rooms with high ceilings, where they provide ample floor-level heating in the winter. (See ceiling height guidelines below.)

HIGH CEILING (FACTORY SETTINGS)



Capacity: 60 PU, 71 PU



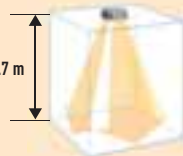
Capacity: 100 PU, 125 PU, 140 PU

INDUSTRY'S TOP-CLASS

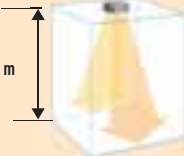
4-way discharge high ceiling settings²



3-way discharge with the optional air-blocking materials



2-way discharge with the optional air-blocking materials



Ceiling height guidelines

| Settings ¹ | 4-way discharge Factory settings ¹ | High ceiling setting ¹ | High ceiling setting ² | 3-way discharge (optional air-blocking materials) | 2-way discharge (optional air-blocking materials) ² |
|----------------------------------|--|-----------------------------------|-----------------------------------|--|---|
| Indoor unit: 60PU-71PU | 3.0 | 3.3 | 3.6 | 3.8 | 4.2 |
| Indoor unit: 100PU, 125PU, 140PU | 3.6 | 3.9 | 4.5 | 4.7 | 5.0 |

¹ When using the unit in a configuration other than the factory settings, it is necessary to make settings on site to increase airflow. ² Use air-blocking materials (CZ-CFU2) to completely block two discharge outlets for 2-way airflow.

Easy Maintenance and Cleaning

The flap can be removed easily for washing with water.

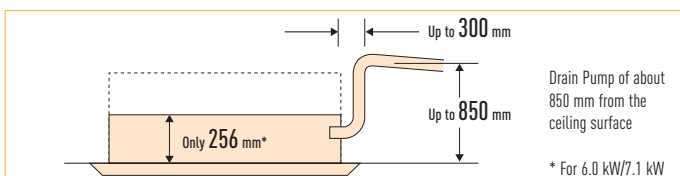


Lighter and Slimmer, Easier Installation

A lightweight unit at 24 kg, the unit is also very slim with a height of only 256 mm, making installation possible even in narrow ceiling voids.

A Drain Height of Approx. 850 mm from the Ceiling Surface

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



Low-Profile 33.5 mm Panel

The square panel integrates seamlessly with the ceiling. Discharge outlets close when the unit is stopped.

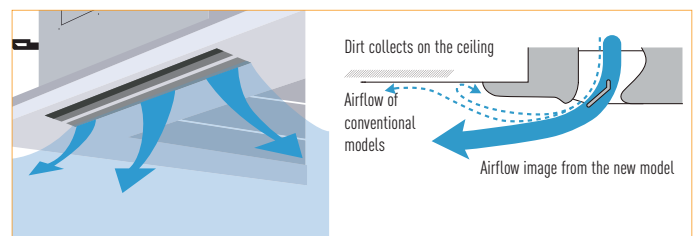
ONE OF THE INDUSTRY'S THINNEST PANELS



New design

Wide direction air discharge by outlet design.

The Circle Flow Flap and new designed air-outlet eliminate the airflow along the recessed parts on the ceiling reduce the contamination of the ceiling. If air flows only along the recessed parts of the ceiling, they will quickly become dirty. The new, improved air outlet design therefore greatly reduces dirt accumulation.



PACi Standard and Elite: indoor units

4-Way 60x60 Cassette

Lighter and slimmer, easier installation

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

A drain height of approx. 850 mm from the ceiling surface

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

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

Convenient cleaning. The flap can be removed easily for washing.

Wall Mounted

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



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.

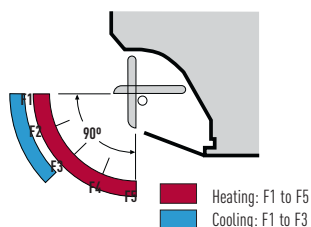
Smooth and durable design

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



Low Static Pressure Hide Away (PN Type)

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



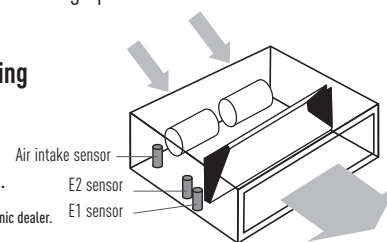
Discharge air temperature control

• Possible to reduce cold drafts at heating operation.

Cold Drafts Reduction at Heating

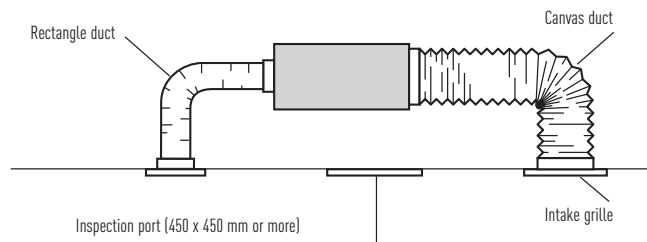
• Accurate temperature measurement by E1/E2 sensor to reduce cold drafts at heating.

Before spec-in, please consult with an authorized Panasonic dealer.



System Example

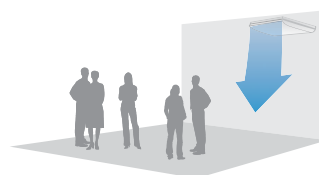
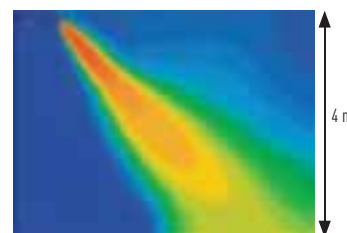
An inspection port (450 mm x 450 mm or more) is required at the control-box side of the indoor unit body.



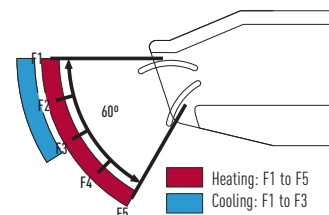
Ceiling

Further comfort improvement

The wide air discharge opening expands the air flow to the left and the right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.

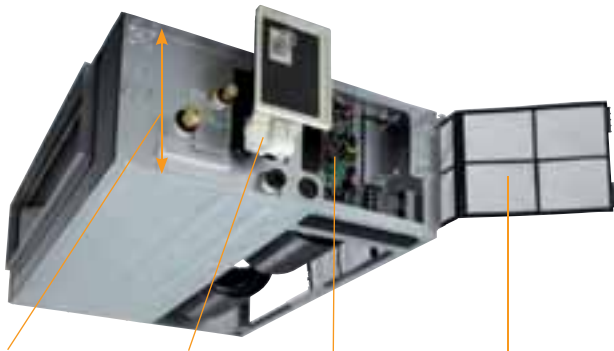


Further comfort improvement with airflow distribution



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

High Static Pressure Hide Away (PF Type)



STANDARDIZED HEIGHT OF 290 mm FOR ALL MODELS

Height standardization enables easy and uniform installation for models with different capacities.

Built-in Drain pump (DC motor pump)

EXTERNAL ELECTRICAL EQUIPMENT BOX MAKES MAINTENANCE EASY
P-link PCB

- Built-in filter
- Side removable filter

The static pressure outside the unit can be increased up to 150 Pa.

| Type | 60 | 71 | 100 | 125 | 140 |
|------------------------|--------|--------|--------|--------|--------|
| Standard | 70 Pa | 70 Pa | 100 Pa | 100 Pa | 100 Pa |
| Max. available setting | 150 Pa | 150 Pa | 150 Pa | 150 Pa | 150 Pa |

More powerful drain pump

Using a high-lift drain pump, drain piping can be elevated up to 785 mm from the base of the unit.

Air inlet side

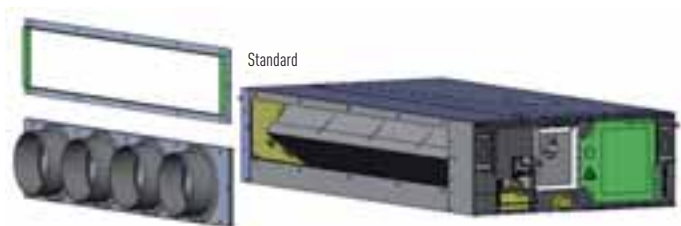
Filter can be pull out from the side of the unit. Filter can be folded to be compact. It's easy to handle the filter part for the maintenance through maintenance opening.



When air inlet duct (field supplied) is connected on suction side, remove the filter, frame and insulation materials on both sides of the unit. Connect the duct on the suction side of the unit by using prepared holes on the unit.

Air outlet side

Rectangle duct flange is attached as standard. Round type outlet flange kit is prepared as optional accessory kit.



Round flange : CZ-160DAF2 φ200 outlet frange x 4 ports

Circle duct flange (option)

| Model | N. of exits with diameters | Model Code |
|-------|----------------------------|--------------------------|
| | 2 x Ø 200 | CZ-56DAF2 (2 SA outlet) |
| | 3 x Ø 200 | CZ-90DAF2 (3 SA outlet) |
| | 4 x Ø 200 | CZ-160DAF2 (4 SA outlet) |

AIRZONE



Control of the PACi Hide Aways by Airzone

Airzone has developed interfaces to easily connect to Panasonic PACi Hide Away units. Ensuring optimum performance, comfort and energy savings, the new system is efficient and easy to install.

Interface dimensions: 120 x 25 x 65 cm (W x H x D).

Interfaces must be purchased direct from Airzone.

Airzone full range of accessories for any duct project



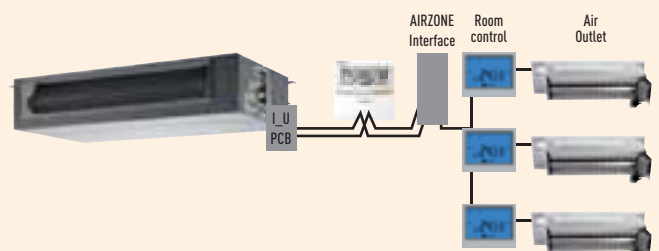
Different type of outlets



Also plenum automatic doors



Full range of RC (wired/wireless, ...)



Range of Commercial units

| WALL-MOUNTED FOR PROFESSIONAL APPLICATIONS | 2.8 kW | 3.2 kW | 4.5 kW | 5.0 kW |
|--|--|--|---|--|
| WALL MOUNTED PKEA* NEW |  CS-E9PKEA |  CS-E12PKEA |  CS-E15PKEA |  CS-E918PKEA |

* PKEA indoor units are only compatible with PKEA Outdoor Units.

| INDOOR UNITS PACi STANDARD AND ELITE | 3.6 kW | 4.6 kW | 5.0 kW | 6.0 kW |
|--|--|---|---|---|
| WALL PACi // INVERTER+ |  S-36PK1E5 |  S-45PK1E5 |  S-50PK1E5 |  S-60PK1E5 |
| 4-WAY 60x60 CASSETTE PACi // INVERTER+ (FOR TWIN COMBINATIONS) |  S-36PY1E5 |  S-45PY1E5 |  S-50PY1E5 | |
| 4 WAY 90x90 CASSETTE PACi // INVERTER+ |  S-36PU1E5 |  S-45PU1E5 |  S-50PU1E5 |  S-60PU1E5 |
| LOW STATIC PRESSURE HIDE AWAY PACi // INVERTER+ |  S-36PN1E5 |  S-45PN1E5 |  S-50PN1E5 |  S-60PN1E5 |
| HIGH STATIC PRESSURE HIDE AWAY PACi // INVERTER+ |  S-36PF1E5 |  S-45PF1E5 |  S-50PF1E5 |  S-60PF1E5 |
| CEILING PACi // INVERTER+ ¹ |  S-36PT1E5 |  S-45PT1E5 |  S-50PT1E5 |  S-60PT1E5 |
| HIGH STATIC PRESSURE HIDE AWAY 20.0-25.0 kW PACi // THREE PHASE INVERTER+ AHU Kit | | |  CZ-280PAH1 |  CZ-280PAH1 |
| AIR CURTAIN JET-FLOW ² | | | | |
| AIR CURTAIN STANDARD ² NEW | | | | |

* The indoor units from 3.6 to 5.0 kW are only available only for Twin, Triple and Quadruple combinations. 1 Available from November 2013. 2 Available from April 2013.

| OUTDOOR UNITS PACi STANDARD AND ELITE | 5.0 kW | 6.0 kW |
|---------------------------------------|---|---|
| PACi STANDARD NEW | |  U-60PE1E5 ¹ |
| PACi ELITE |  U-50PE1E5 ¹ |  U-60PE1E5 ¹ |

¹ Single Phase ² Three Phase

| 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW | 20.0 kW | 25.0 kW |
|---|---|---|--|---|---|
|  S-71PK1E5 | | | | | |
|  S-71PU1E5 |  S-100PU1E5 |  S-125PU1E5 |  S-140PU1E5 | | |
|  S-71PN1E5 |  S-100PN1E5 |  S-125PN1E5 |  S-140PN1E5 | | |
|  S-71PF1E5 |  S-100PF1E5 |  S-125PF1E5 |  S-140PF1E5 | | |
|  S-71PT1E5 |  S-100PT1E5 |  S-125PT1E5 |  S-140PT1E5 | | |
| | | | |  S-200PE1E8A |  S-250PE1E8 |
|  CZ-280PAH1 |  CZ-280PAH1 |  CZ-280PAH1 |  CZ-280PAH1 |  CZ-280PAH1 |  CZ-280PAH1 |
| |  PAW-10PAIRC-MJ | | |  PAW-15PAIRC-MJ |  PAW-20PAIRC-MJ |
| |  PAW-10PAIRC-MS | | | |  PAW-20PAIRC-MS |

| 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW | 20.0 kW | 25.0 kW |
|---|---|---|---|--|--|
|  U-71PE1E5 ¹ |  U-100PE1E5 ¹ // U-100PE1E8 ^{III} |  U-125PE1E5 ¹ // U-125PE1E8 ^{III} |  U-140PE1E8 ^{III} | | |
|  U-71PE1E5 ¹ // U-71PE1E8 ^{III} |  U-100PE1E5 ¹ // U-100PE1E8 ^{III} |  U-125PE1E5 ¹ // U-125PE1E8 ^{III} |  U-140PE1E5 ¹ // U-140PE1E8 ^{III} |  U-200PE1E8 ^{III} |  U-250PE1E8 ^{III} |

WALL MOUNTED PKEA

Complete line-up with high efficiency even at -15 °C

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.



| | | | Single Phase | | | |
|---|--------------------------|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| | | | 2.8 kW | 3.2 kW | 4.5 kW | 5.0 kW |
| KIT | | | KIT-E9-PKEA | KIT-E12-PKEA | KIT-E15-PKEA | KIT-E18-PKEA |
| Indoor | | | CS-E9PKEA | CS-E12PKEA | CS-E15PKEA | CS-E18PKEA |
| Outdoor | | | CU-E9PKEA | CU-E12PKEA | CU-E15PKEA | CU-E18PKEA |
| Cooling capacity | Nominal (Min-Max) | kW | 2.50 (0.85-3.00) | 3.50 (0.85-4.00) | 4.20 (0.98-5.00) | 5.00 (0.98-6.00) |
| | Nominal (Min-Max) | kCal/h | 2,150 (730-2,580) | 3,010 (730-3,440) | 3,610 (840-4,300) | 4,300 (840-5,160) |
| EER ¹⁾ | Nominal (Min-Max) | Energy Saving | 4.85 (4.23-5.00) ◀A | 4.02 (3.57-5.00) ◀A | 3.50 (3.50-3.16) ◀A | 3.47 (3.50-3.02) ◀A |
| SEER | Nominal | Energy Saving | 7.1 ◀A++ | 6.7 ◀A++ | 6.3 ◀A++ | 6.9 ◀A++ |
| P Design at -10 °C | | kW | 2.5 | 3.5 | 4.2 | 5.0 |
| Power input Cooling | Nominal (Min-Max) | kW | 0.515 (0.170-0.710) | 0.870 (0.170-1.120) | 1.200 (0.280-1.580) | 1.440 (0.280-1.990) |
| Annual Energy Consumption (cooling) | | kWh | 123 | 183 | 233 | 254 |
| Heating capacity | Nominal (Min-Max) | kW | 3.40 (0.85-5.40) | 4.00 (0.85-6.60) | 5.40 (0.98-7.10) | 5.80 (0.98-8.00) |
| | Nominal (Min-Max) | kCal/h | 2,920 (730-4,640) | 3,440 (730-5,680) | 4,640 (840-6,110) | 4,990 (840-6,880) |
| Heating capacity at -7 °C | Nominal | kW | 3.91 | 4.78 | 5.14 | 5.80 |
| COP 1) | Nominal (Min-Max) | Energy Saving | 4.86 (4.12-5.15) ◀A | 4.35 (3.63-5.15) ◀A | 3.75 (2.88-3.24) ◀A | 3.82 (2.88-3.11) ◀A |
| SCOP | Nominal | Energy Saving | 4.4 ◀A+ | 4.1 ◀A+ | 3.9 ◀A | 4.2 ◀A+ |
| P Design at -10 °C | | kW | 2.8 | 3.6 | 3.6 | 4.4 |
| Power input Heating | Nominal (Min-Max) | kW | 0.700 (0.165-1.310) | 0.920 (0.1650-1.820) | 1.440 (0.340-2.190) | 1.520 (0.340-2.570) |
| Annual Energy Consumption (heating) | | kWh | 891 | 1229 | 1292 | 1467 |
| Indoor Unit | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 |
| Recommended Fuse | | A | | | | |
| Recommended power cable section | | mm | | | | |
| Connection indoor / outdoor | | mm | | | | |
| Current (Nominal) | Cooling / Heating | A | 2.5 / 3.3 | 4.0 / 4.2 | 5.4 / 6.5 | 6.4 / 6.8 |
| Max. Current | | A | 7.8 | 8.4 | 9.6 | 11.3 |
| Air Volume | Cooling / Heating | m ³ /h | 798 / 876 | 816 / 882 | 846 / 900 | 1074 / 1158 |
| Moisture removal volume | | l/h | 1.5 | 2.0 | 2.4 | 2.8 |
| Sound pressure Level ²⁾ | 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 / 30 | 43 / 35 / 32 | 44 / 37 / 34 |
| Sound power level | Cooling / Heating (Hi) | dB | 55 / 56 | 58 / 58 | 59 / 59 | 60 / 60 |
| Dimensions ³⁾ | H x W x D | mm | 295 x 870 x 255 | 295 x 870 x 255 | 295 x 870 x 255 | 295 x 1070 x 255 |
| Net weight | | kg | 10 | 10 | 10 | 13 |
| Air purifier filter | | | | | | |
| Outdoor Unit | | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 1878 / 1782 | 1974 / 1926 | 2052 / 1980 | 2352 / 2274 |
| Sound pressure Level ²⁾ | Cooling / Heating (Hi) | dB(A) | 46 / 47 | 48 / 50 | 46 / 46 | 47 / 47 |
| Sound power level | Cooling / Heating (Hi) | dB | 61 / 62 | 63 / 65 | 61 / 61 | 61 / 61 |
| Dimensions ³⁾ | H x W x D | mm | 622 x 824 x 299 | 622 x 824 x 299 | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | kg | 36 | 36 | 45 | 46 |
| Piping connections | Liquid 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) |
| Refrigerant loading | R410A | kg | 1,100 | 1,100 | 1.060 | 1.240 |
| Elevation difference (in/out) ⁴⁾ | Max | m | 5 | 5 | 15 | 15 |
| | Min / Max | m | 3-15 | 3-15 | 3-15 | 3-20 |
| Piping length | Max | m | 7.5 | 7.5 | 7.5 | 7.5 |
| Precharge length | | g/m | 20 | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | -15 / +43 | -15 / +43 | -15 / +43 | -15 / +43 |
| | Heating Min / Max | °C | -15 / +24 | -15 / +24 | -15 / +24 | -15 / +24 |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb)

1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) When installing the outdoor unit at a higher position than the indoor unit.

Recommended fuse for the indoor 3A.

Specifications subject to change without notice.

For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>



INCLUDED ON THE KIT

Timer remote controller



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

Technical Focus

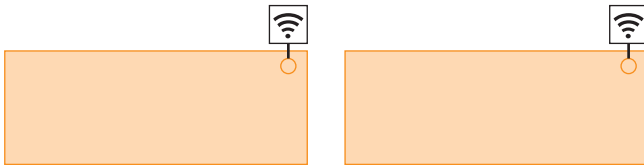
- DESIGN FOR 24H/7D A WEEK OPERATION
- HIGHLY EFFICIENT EVEN AT -15 °C

Outdoor

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

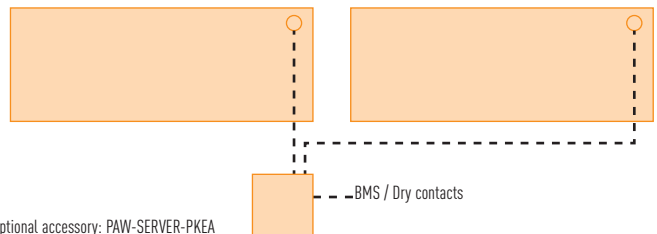
2 INTERFACE OPTIONS TO MANAGE SERVER ROOM OPERATION

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



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

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



Optional accessory: PAW-SERVER-PKEA



CU-E9PKEA
CU-E12PKEA



CU-E15PKEA
CU-E18PKEA

WALL PACi STANDARD AND ELITE INVERTER+

The extension of the range to include a 7.1 kW unit allows for many more applications such as studios, gyms, high ceiling areas and even computer server rooms can be conditioned.

Technical Focus

- New 7.1 kW capacity unit
- New flat face design for modern appearance
- New compact design offers over 15% reduction in overall size
- Washable front panel
- DC FAN for better efficiency and control
- Three directional piping outlet



STANDARD

NEW

| | | Single Phase | | |
|---|------------------|-------------------|---------------------|-----------------------|
| | | 6.0 kW | | 7.1 kW |
| KIT | | KIT-60PYK1E5* | | KIT-71PYK1E5* |
| Indoor | | S-60PK1E5 | | S-71PK1E5 |
| Outdoor | | U-60PEY1E5 | | U-71PEY1E5 |
| Wired remote controller | | CZ-RTC2 | | CZ-RTC2 |
| Cooling capacity | Nom. (Min-Max) | kW | 6.0 (2.0-7.0) | 7.1 (2.0-7.7) |
| EER¹⁾ | Nom. (Min-Max) | W/W | 3.23 (6.15-2.55) ◀A | 2.90 (6.15-2.57) ◀D |
| SEER | | W/W | 5.4 ◀A | 5.1 ◀A |
| Pdesign | | kW | 6.0 | 7.1 |
| Power input Cooling | Nom. (Min-Max) | kW | 1.860 (0.325-2.750) | 2.450 (0.325-3.000) |
| Annual Energy Consumption(ErP)^{2-a)} | | | 930 | 1225 |
| Annual Energy Consumption(ErP)^{2-b)} | | | 389 | 487 |
| Heating capacity | Nom. (Min-Max) | kW | 6.0 (1.8-7.0) | 7.1 (1.8-8.1) |
| COP1) | Nom. (Min-Max) | W/W | 4.00 (6.55-3.18) ◀A | 3.74 (6.55-3.18) ◀A |
| SCOP | | W/W | 3.9 ◀A | 3.9 ◀A |
| Pdesign at -10 °C | | kW | 6.0 | 6.0 |
| Power input Heating | Nom. (Min-Max) | kW | 1.500 (0.275-2.200) | 1.900 (0.275-2.550) |
| Annual Energy Consumption (ErP)^{2-b)} | | | 2154 | 2154 |
| Indoor unit | | | | |
| Air Volume | Cool / Heat | m ³ /h | 1080 / 1080 | 1080 / 1080 |
| Moisture removal volume | | l/h | 4.2 | 4.2 |
| Sound pressure Level | Cool (Hi/Me/Lo) | dB(A) | 47 / 44 / 40 | 47 / 44 / 40 |
| | Heat (Hi/Me/Lo) | dB(A) | 47 / 44 / 40 | 47 / 44 / 40 |
| Sound power level | Cool (Hi) | dB | 64 | 64 |
| | Heat (Hi) | dB | 64 | 64 |
| Dimensions | H x W x D | mm | 300 x 1065 x 230 | 300 x 1065 x 230 |
| Net weight | | kg | 14.5 | 14.5 |
| Outdoor unit | | | | |
| Power source | V | | 220 / 230 / 240 | 220 / 230 / 240 |
| Recommended fuse | | | | |
| Recommended cable size | m | | | |
| Connection | mm ² | | | |
| Current Cooling | A | | 8.80 / 8.50 / 8.25 | 11.70 / 11.30 / 10.90 |
| Current Heating | A | | 7.05 / 6.80 / 6.60 | 9.00 / 8.70 / 8.40 |
| Air Volume | Cool / Heat | m ³ /h | 1800 / 2100 | 2340 |
| Sound pressure Level³⁾ | Cool / Heat (Hi) | dB(A) | 48 / 50 | 50 / 52 |
| Sound power level | Cool / Heat (Hi) | dB | 65 / 69 | 70 / 70 |
| Dimensions | H x W x D | mm | 569 x 790 x 285 | 569 x 790 x 285 |
| Net weight | | kg | 42 | 42 |
| Piping connections | Liquid pipe | Inch (mm) | 3/8 (9.52) | 3/8 (9.52) |
| | Gas pipe | Inch (mm) | 5/8 (15.88) | 5/8 (15.88) |
| Refrigerant loading | R410A | kg | 1.7 | 1.7 |
| Elevation dif. (in/out)⁴⁾ | Max | m | 30 | 30 |
| Piping length | Min/Max | m | 50 | 50 |
| Precharge length | Max | m | 20 | 20 |
| Additional charge | | g/m | 40 | 40 |
| Operating range | Cool Min/Max | °C | -10 / 43 | -10 / 43 |
| | Heat Min/Max | °C | -15 / 24 | -15 / 24 |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption(ErP) is calculated by formula determined by ErP regulation. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // * Available from May 2013. For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>

STANDARD

A class
energy saving

5.4 A
SEER

3.9 A
SCOP

Down to
-10 °C in
cooling mode

Down to
-15 °C in
heating mode

Easy
control
by BMS

Reduce the
damage to
our ozone

5 year
compressor
warranty



U-60PEY1E5
U-71PEY1E5

SEER and SCOP: For KIT-60PYK1E5

INCLUDED ON THE KIT

Timer remote controller
CZ-RTC2



OPTIONAL CONTROLLERS

Wireless control
CZ-RWSK2



Simplified remote controller
CZ-RE2C2



COMPATIBLE WITH ALL ECOi CONNECTIVITY SOLUTIONS



ELITE

| | | Single Phase | | 6.0 kW | | 7.1 kW | | Three Phase | |
|---|------------------|-------------------|---------------------|-----------------------|-----------------------|-----------------------|--|--------------|--|
| KIT | | KIT-50PEK1E5* | | KIT-60PEK1E5 | | KIT-71PEK1E5 | | KIT-71PEK1E8 | |
| Indoor | | S-50PK1E5 | | S-60PK1E5 | | S-71PK1E5 | | S-71PK1E5 | |
| Outdoor | | U-50PE1E5 | | U-60PE1E5 | | U-71PE1E5 | | U-71PE1E8 | |
| Wired remote controller | | CZ-RTC2 | | CZ-RTC2 | | CZ-RTC2 | | CZ-RTC2 | |
| Cooling capacity | Nom. (Min-Max) | kW | 5.0 (1.5-5.6) | 6.0 (2.5-7.1) | 7.1 (2.5-8.0) | 7.1 (3.2-8.0) | | | |
| EER ¹⁾ | Nom. (Min-Max) | kW | 3.21 [5.77-2.49] ◀A | 3.85 [5.56 - 3.55] ◀A | 3.40 [5.56 - 3.02] ◀A | 3.40 [5.71 - 3.02] ◀A | | | |
| SEER | W/W | | 6.0 ◀A+ | 6.6 ◀A++ | 6.6 ◀A++ | 6.1 ◀A++ | | | |
| Pdesign | | kW | 5.0 | 6.0 | 7.1 | 7.1 | | | |
| Power input Cooling | Nom. (Min-Max) | kW | 1.560 (0.260-2.250) | 1.560 (0.450-2.000) | 2.090 (0.450-2.650) | 2.090 (0.560-2.650) | | | |
| Annual Energy Consumption (ErP) ^{2-a)} | | | 780 | 780 | 1045 | 1045 | | | |
| Annual Energy Consumption (ErP) ^{2-b)} | | | 292 | 318 | 376 | 407 | | | |
| Heating capacity | Nom. (Min-Max) | kW | 5.6 (1.5-6.5) | 7.0 (2.0-8.0) | 8.0 (2.0-9.0) | 8.0 (2.8-9.0) | | | |
| COP ¹⁾ | Nom. (Min-Max) | W/W | 3.73 [6.82-2.65] ◀A | 3.85 [5.00 - 3.23] ◀A | 3.76 [5.00-3.10] ◀A | 3.76 [5.60-3.10] ◀A | | | |
| SCOP | W/W | | 3.9 ◀A | 3.9 ◀A | 3.9 ◀A | 3.8 ◀A | | | |
| Pdesign at -10 °C | | kW | 4.0 | 6.0 | 7.1 | 7.1 | | | |
| Power input Heating | Nom. (Min-Max) | kW | 1.500 (0.220-2.450) | 1.820 (0.400-2.480) | 2.130 (0.400-2.900) | 2.070 | | | |
| Annual Energy Consumption (ErP) ^{2-b)} | | | 1436 | 780 | 2548 | 2616 | | | |
| Indoor unit | | | | | | | | | |
| Air Volume | Cool / Heat | m ³ /h | 840 / 840 | 1080 / 1080 | 1080 / 1080 | 1080 / 1080 | | | |
| Moisture removal volume | | l/h | 2.8 | 3.4 | 4.2 | 4.2 | | | |
| Sound pressure level | Cool (Hi/Me/Lo) | dB(A) | 40 / 36 / 32 | 47 / 44 / 40 | 47 / 44 / 40 | 47 / 44 / 40 | | | |
| | Heat (Hi/Me/Lo) | dB(A) | 40 / 36 / 32 | 47 / 44 / 40 | 47 / 44 / 40 | 47 / 44 / 40 | | | |
| Sound power level | Cool (Hi) | dB | 57 | 64 | 64 | 64 | | | |
| | Heat (Hi) | dB | 57 | 64 | 64 | 64 | | | |
| Dimensions | H x W x D | mm | 300 x 1065 x 230 | 300 x 1065 x 230 | 300 x 1065 x 230 | 300 x 1065 x 230 | | | |
| Net weight | | kg | 13.0 | 14.5 | 14.5 | 14.5 | | | |
| Outdoor unit | | | | | | | | | |
| Power source | V | | 220 / 240 | 220 / 240 | 220 / 240 | 380 / 415 | | | |
| Recommended fuse | | | | | | | | | |
| Recommended cable size | m | | | | | | | | |
| Connection | mm ² | | | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | | | | |
| Current Cooling | Nom. (Min-Max) | A | 7.25 / 7.00 / 6.80 | 7.15 | 9.40 | 3.15 | | | |
| Current Heating | Nom. (Min-Max) | A | 6.95 / 6.75 / 6.50 | 8.15 | 9.50 | 3.20 | | | |
| Air Volume | Cool / Heat | m ³ /h | 1800 / 2100 | 3600 / 3600 | 3600 / 3600 | 3600 / 3600 | | | |
| Sound pressure level ³⁾ | Cool / Heat (Hi) | dB(A) | 46 / 50 | 48 / 50 | 48 / 50 | 48 / 50 | | | |
| Sound power level | Cool / Heat (Hi) | dB | 65 / 69 | 65 / 67 | 65 / 67 | 65 / 67 | | | |
| Dimensions | H x W x D | mm | 569 x 790 x 285 | 996 x 940 x 340 | 996 x 940 x 340 | 996 x 940 x 340 | | | |
| Net weight | | kg | 42 | 68 | 69 | 71 | | | |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6.35) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | | | |
| | Gas pipe | Inch (mm) | 1/2 (12.7) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | | | |
| Refrigerant loading | R410A | kg | 1.65 | 2 | 2.35 | 2.35 | | | |
| Elevation dif. (in/out) ⁴⁾ | Max | m | 30 | 30 | 30 | 30 | | | |
| Piping length | Min/Max | m | 40 | 5-50 | 5-50 | 5-50 | | | |
| Precharge length | Max | m | 30 | 30 | 30 | 30 | | | |
| Additional charge | | g/m | 20 | 50 | 50 | 50 | | | |
| Operating range | Cool Min/Max | °C | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | | | |
| | Heat Min/Max | °C | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | | | |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // * Available from May 2013. For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>

ELITE

A class
energy saving

6.6 A++
SEER

3.9 A
SCOP

Down to
-15 °C in
cooling mode

Down to
-20 °C in
heating mode

Easy
control
by BMS

Reduce the
damage to
our ozone

5 year
compressor
warranty



SEER and SCOP: For KIT-60PEK1E5 and KIT-71PEK1E5

4 WAY 60x60 CASSETTE PACi STANDARD AND ELITE INVERTER+

Small and powerful, ideal for offices and restaurants.
Only for Twin, Triple and Double-twin combinations.

Technical Focus

- Fresh air knock out
- Multidirectional air flow
- Integrated drain pump gives 850 mm lift
- 3 speed centrifugal fan
- Anti-mould and anti-bacteria washable filters
- DC FAN for better efficiency and control



STANDARD

NEW

| | | | 3.6 kW | 4.5 kW | 5.0 kW |
|-------------------------|-----------------|-------------------|--------------------------|--------------------------|-----------------|
| Indoor | | | S-36PY1E5 ^{1)*} | S-45PY1E5 ^{1)*} | S-50PY1E5* |
| Panel | | | CZ-KPY21 | CZ-KPY21 | CZ-KPY21 |
| Wired remote control | | | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 |
| Cooling capacity | Nom. (Min-Max) | kW | 3.6 | 4.5 | 5.0 |
| Heating capacity | Nom. (Min-Max) | kW | 4.2 | 5.2 | 5.6 |
| Air Volume | Cool/Heat | m ³ /h | 540 / 540 | 636 / 636 | 750 / 750 |
| Moisture removal volume | | l/h | 2.1 | 2.5 | 2.8 |
| Sound pressure Level | Cool (Hi/Me/Lo) | dB(A) | 32 / 29 / 26 | 36 / 32 / 28 | 41 / 37 / 33 |
| | Heat (Hi/Me/Lo) | dB(A) | 32 / 29 / 26 | 36 / 32 / 28 | 41 / 37 / 33 |
| Sound power Level | Cool (Hi) | dB | 49 / 46 / 42 | 53 / 48 / 45 | 58 / 54 / 50 |
| | Heat (Hi) | dB | 49 / 46 / 42 | 53 / 48 / 45 | 58 / 54 / 50 |
| Dimensions indoor | H x W x D | mm | 283 x 575 x 575 | 283 x 575 x 575 | 283 x 575 x 575 |
| Dimensions panel | H x W x D | mm | 30 x 625 x 625 | 30 x 625 x 625 | 30 x 625 x 625 |
| Net weight | Indoor (Panel) | kg | 16 (2.4) | 16 (2.4) | 16 (2.4) |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

1) Only for multi combinations.
Recommended fuse for the indoor 3A.
* Available from April 2013.

STANDARD

PANEL

CZ-KPY2



INCLUDED IN THE KIT

Timer remote controller
CZ-RTC2

OPTIONAL

Wireless remote controller
CZ-RWSY2Simplified remote controller
CZ-RE2C2

COMPATIBLE WITH ALL ECOi CONNECTIVITY SOLUTIONS



ELITE

| | | | |
|---|------------------------|-------------------|-------------------------|
| | | | 5.0 kW |
| KIT | | | |
| Indoor | | | S-50PY1E5* |
| Outdoor | | | U-50PE1E5 |
| Panel | | | CZ-KPY2 |
| Wired remote control | | | CZ-RTC2 |
| Cooling capacity | Nom. (Min-Max) | kW | 5.0 (1.5 - 5.6) |
| EER ¹⁾ | Nom. (Min-Max) | W/W | 3.04 (5.58 - 2.29) ◀ B |
| SEER | | W/W | 5.90 ◀ A+ |
| Pdesign | | kW | 5.0 |
| Power input Cooling | Nom. (Min-Max) | kW | 1.64 (0.260 - 2.45) |
| Annual Energy Consumption ^{2-a)} | | kWh | 820 |
| Annual Energy Consumption (ErP) ^{2-b)} | | kWh | 297 |
| Heating capacity | Nom. (Min-Max) | kW | 5.6 (1.5 - 6.3) |
| COP ¹⁾ | Nom. (Min-Max) | W/W | 3.12 (6.82 - 2.45) ◀ D |
| SCOP | | W/W | 3.80 ◀ A |
| Pdesign at -10 °C | | kW | 4.0 |
| Power input Heating | Nom. (Min-Max) | kW | 1.79 (0.22 - 2.57) |
| Annual Energy Consumption (ErP) ^{2-b)} | | kWh | 1474 |
| Indoor unit | | | |
| Air Volume | Cooling/Heating | m ³ /h | 750 / 750 |
| Moisture removal volume | | l/h | 2.8 |
| Sound pressure Level | Cooling (Hi/Me/Lo) | dB(A) | 41 / 37 / 33 |
| | Heating (Hi/Me/Lo) | dB(A) | 41 / 37 / 33 |
| Sound power Level | Cooling (Hi) | dB | 58 / 54 / 50 |
| | Heating (Hi) | dB | 58 / 54 / 50 |
| Dimensions | H x W x D | mm | 283 x 575 x 575 |
| Dimensions panel | H x W x D | mm | 30 x 625 x 625 |
| Net weight | | kg | 16 |
| Outdoor unit | | | |
| Power source | | V | 220 - 240 |
| Recommended fuse | | | |
| Recommended cable size | | m | |
| Connection | | mm ² | |
| Current Cooling | Nom. (Min-Max) | A | 7.5 |
| Current Heating | Nom. (Min-Max) | A | 8.2 |
| Air Volume | Cooling/Heating | m ³ /h | 1800 / 2100 |
| Sound pressure Level ³⁾ | Cooling/Heating (Hi) | dB(A) | 46 / 50 |
| Sound power Level | Cooling/Heating (Hi) | dB | 65 / 69 |
| Dimensions | H x W x D | mm | 569 x 790 x 285 |
| Net weight | | kg | 42 |
| Piping connections | Liquid pipe / Gas pipe | Inch (mm) | 1/4 (6.35) / 1/2 (12.7) |
| Refrigerant Loading | R410A | kg | 1.65 |
| Elevation dif. (in/out) ⁴⁾ | Max | m | 30 |
| Piping length | Min/Max | m | 5 - 40 |
| Precharge length | Max | m | 30 |
| Additional gas | | g/m | 20 |
| Operating range | Cooling Min/Max | °C | -15 / 46 |
| | Heating Min/Max | °C | -20 / 24 |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

1) EER and COP, Energy Saving Classification, is at 220-240 V (380-415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220-240 V (380-415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption(ErP) is calculated by formula determined by ErP regulation. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) When installing the outdoor unit at a higher position than the indoor unit. Recommended fuse for the indoor 3A. * Available from April 2013. For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>

ELITE

| | | | | | | |
|---------------------------------|---|--|---|---|-----------------------------|--------------------------------------|
| A class energy saving | 5.9 A+ SEER | 3.8 A SCOP | Down to -15 °C in cooling mode | Down to -20 °C in heating mode | Easy control by BMS | Reduce the damage to our ozone |
| <small>INVERTER+</small> | <small>SEASONAL ENERGY EFFICIENCY RATIO</small> | <small>SEASONAL COEFFICIENT OF PERFORMANCE</small> | <small>OUTDOOR TEMPERATURE</small> | <small>OUTDOOR TEMPERATURE</small> | <small>CONNECTIVITY</small> | <small>R22 RENEWAL</small> |

5 year
compressor
warranty

U-50PE1E5

4 WAY 90x90 CASSETTE PACi STANDARD AND ELITE INVERTER+

The 4 Way 90x90 Cassette incorporates many new benefits due to advancements in design and technology.

Technical Focus

- New Circle Flow Flap for more even temp. distribution
- Higher efficiency split fin
- New DC fan motor
- Highly efficient and silent turbo fan
- Individual flap control for flexible air flow direction
- Easy to clean suction grill & flap
- Special adjustment for high ceiling application
- DC FAN for better efficiency and control



AIR INTAKE CHAMBER

1. Air intake box CZ-BCU2 for main unit.
 2. Air intake box CZ-ATU2* for Air intake plenum.
- * When using Air intake box (CZ-ATU2), Air intake plenum // (CZ-FDU2) is required.



STANDARD

NEW

| | | Single Phase | | | | Three Phase | | | |
|---|-------------------|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| | | 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 10.0 kW | 12.5 kW | 14.0 kW | |
| KIT | | KIT-60PUY1E5* | KIT-71PUY1E5* | KIT-100PUY1E5** | KIT-125PUY1E5** | KIT-100PUY1E8** | KIT-125PUY1E8** | KIT-140PUY1E8*** | |
| Indoor | | S-60PU1E5 | S-71PU1E5 | S-100PU1E5 | S-125PU1E5 | S-100PU1E5 | S-125PU1E5 | S-140PU1E5 | |
| Outdoor | | U-60PEY1E5 | U-71PEY1E5 | U-100PEY1E5 | U-125PEY1E5 | U-100PEY1E8 | U-125PEY1E8 | U-140PEY1E8 | |
| Panel | | CZ-KPU2 | CZ-KPU2 | CZ-KPU2 | CZ-KPU2 | CZ-KPU2 | CZ-KPU2 | CZ-KPU2 | |
| Wired remote control | | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | |
| Cooling capacity | Nom. (Min-Max) | kW 6.0 (2.0-7.0) | 7.1 (2.0-7.7) | 10.0 | 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⁾ | Nom. (Min-Max) | W/W 3.55 (6.15-2.80) ◀A | 3.24 (6.15-2.75) ◀A | 3.11 ◀B | 3.11 (4.22-2.70) ◀B | 3.11 (5.09-2.74) ◀B | 3.11 (4.22-2.70) ◀B | 3.21 (3.93 - 2.58) ◀A | |
| SEER | W/W | 6.8 ◀A++ | 6.3 ◀A++ | 6.4 ◀A++ | — | 6.2 ◀A++ | — | — | |
| Pdesign | kW | 6.0 | 7.1 | 10 | — | 10.0 | — | — | |
| Power input Cooling | Nom. (Min-Max) | kW 1.690 (0.325-2.500) | 2.190 (0.325-2.800) | 3.220 (0.530-4.200) | 4.020 (0.900-5.000) | 3.220 (0.530-4.200) | 4.020 (0.900-5.000) | 4.36 (0.84 - 6.00) | |
| Annual Energy Consumption ^{2-a)} | | 845 | 1095 | 1610 | 2010 | 1610 | 2010 | 2155 | |
| Annual Energy Consumption(ErP) 2-b) | | 309 | 394 | 547 | — | 564 | — | — | |
| Heating capacity | Nom. (Min-Max) | kW 6.0 (1.8-7.0) | 7.1 (1.8-8.1) | 10.0 | 12.5 (3.4-15.0) | 10.0 (2.1-13.8) | 12.5 (3.4-15.0) | 14.0 (4.1-16.0) | |
| COP ¹⁾ | Nom. (Min-Max) | W/W 4.05 (6.55-3.25) ◀A | 3.78 (6.55-3.23) ◀A | 3.80 ◀A | 3.80 (4.66-3.41) ◀A | 3.80 (5.12-3.45) ◀A | 3.80 (4.66-3.41) ◀A | 3.89 (4.56 - 3.08) ◀A | |
| SCOP | W/W | 4.0 ◀A+ | 4.0 ◀A+ | 4.0 ◀A+ | — | 4.0 ◀A+ | — | — | |
| Pdesign at -10 °C | kW | 6.0 | 6.0 | 10.0 | — | 10.0 | — | — | |
| Power input Heating | Nom. (Min-Max) | kW 1.480 (0.275-2.155) | 1.880 (0.275-2.510) | 2.630 (0.410-4.000) | 3.290 (0.730-4.400) | 2.630 (0.410-4.000) | 3.290 (0.730-4.400) | 3.60 (0.90 - 5.20) | |
| Annual Energy Consumption(ErP) 2-b) | | 2100 | 2100 | 3500 | — | 3500 | — | — | |
| Indoor unit | | | | | | | | | |
| Air Volume | Cool / Heat | m ³ /h 960 / 960 | 1320 / 1320 | 1980 / 1980 | 2060 / 2060 | 1980 / 1980 | 2060 / 2060 | 2160 / 2160 | |
| Moisture removal volume | U/h | 3.0 | 4.2 | 6.0 | 7.9 | 6.0 | 7.9 | 9.0 | |
| Sound pressure level | Cool (Hi/Me/Lo) | dB(A) 32 / 29 / 27 | 37 / 31 / 28 | 44 / 38 / 32 | 45 / 39 / 33 | 44 / 38 / 32 | 45 / 39 / 33 | 46 / 40 / 34 | |
| | Heat (Hi/Me/Lo) | dB(A) 32 / 29 / 27 | 37 / 31 / 28 | 44 / 38 / 32 | 45 / 39 / 33 | 44 / 38 / 32 | 45 / 39 / 33 | 46 / 40 / 34 | |
| Sound power level | Cool (Hi/Me/Lo) | dB 49 / 46 / 44 | 54 / 48 / 45 | 62 / 55 / 49 | 63 / 56 / 50 | 62 / 55 / 49 | 63 / 56 / 50 | 64 / 57 / 51 | |
| | Heat (Hi/Me/Lo) | dB 49 / 46 / 44 | 54 / 48 / 45 | 62 / 55 / 49 | 63 / 56 / 50 | 62 / 55 / 49 | 63 / 56 / 50 | 64 / 57 / 51 | |
| Dimensions H x W x D | Indoor | mm 256 x 840 x 840 | 256 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 | |
| | Panel | mm 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 | |
| Net weight | Indoor (Panel) | kg 24 (4) | 24 (4) | 27 (4) | 27 (4) | 27 (4) | 27 (4) | 27 (4) | |
| Outdoor unit | | | | | | | | | |
| Power source | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 415 | |
| Recommended fuse | | | | | | | | | |
| Recommended cable size | m | | | | | | | | |
| Connection | mm ² | | | | | | | 2 x 1.5 or 2.5 | |
| Current Cooling | A | 8.30 / 7.90 / 7.60 | 10.70 / 10.30 / 9.80 | 15.10 / 14.40 / 13.80 | 19.2 / 18.4 / 17.6 | 5.10 / 4.85 / 4.70 | 6.35 / 6.05 / 5.80 | 5.15 | |
| Current Heating | A | 7.20 / 6.90 / 6.60 | 9.10 / 8.70 / 8.30 | 12.00 / 11.60 / 11.20 | 15.4 / 14.8 / 14.2 | 4.15 / 3.95 / 3.80 | 5.15 / 4.90 / 4.70 | 5.20 | |
| Air Volume | Cool / Heat | m ³ /h 1800 / 2100 | 2340 | 4560 / 4020 | 4800 / 4380 | 4560 / 4020 | 4800 / 4380 | 8100 / 6600 | |
| Sound pressure Level ³⁾ | Cool / Heat (Hi) | dB(A) 48 / 50 | 50 / 52 | 54 / 54 | 56 / 56 | 54 / 54 | 56 / 56 | 54 / 53 | |
| Sound power level | Cool / Heat (Hi) | dB 65 / 69 | 70 / 70 | 70 / 70 | 73 / 73 | 70 / 70 | 73 / 73 | 71 / 70 | |
| Dimensions | H x W x D | mm 569 x 790 x 285 | 569 x 790 x 285 | 996 x 940 x 340 | 996 x 940 x 340 | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 | |
| Net weight | kg | 42 | 42 | 73 | 85 | 73 | 85 | 98 | |
| Piping connections | Liquid / Gas pipe | Inch (mm) 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | |
| Refrigerant loading | R410A | kg 1.7 | 1.7 | 2.60 | 3.20 | 2.60 | 3.20 | 3.4 | |
| Elevation dif. (in/out) ⁴⁾ | Max | m 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| Piping length | Min/Max | m 50 | 50 | 5 / 50 | 5 / 50 | 5 / 50 | 5 / 50 | 5-75 | |
| Precharge length | Max | m 20 | 20 | 30 | 30 | 30 | 30 | 30 | |
| Additional charge | g/m | 40 | 40 | 50 | 50 | 50 | 50 | 50 | |
| Operating range | Cool Min/Max | °C -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | |
| | Heat Min/Max | °C -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption(ErP) is calculated by formula determined by ErP regulation. 3) The sound pressure level of the units shows the value measured at a position 1 meter in front of the main body and 1.5 from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // * Available from May 2013. ** Available from January 2013. *** TBC. For detailed information about ErP, please visit our page <http://www.dcc.panasonic.de>

STANDARD

A class
energy saving

INVERTER+

6.8 A++
SEER

SEASONAL ENERGY EFFICIENCY RATIO

4.0 A+
SCOP*

SEASONAL COEFFICIENT OF PERFORMANCE

Down to
-10 °C
in cooling mode

OUTDOOR TEMPERATURE

Down to
-15 °C
in heating mode

OUTDOOR TEMPERATURE

Easy control by BMS

CONNECTIVITY

Reduce the damage to our ozone

R22 RENEWAL

5 year compressor warranty



SEER and SCOP: For KIT-60PUY1E5

LOW STATIC PRESSURE HIDE AWAY PACi STANDARD AND ELITE INVERTER+

The depth of only 250 mm provides greater flexibility and can be used in far more applications.
Ideal for applications with limited false ceiling space.

Technical Focus

- Compact indoor units without loosing static pressure (Only 250 mm high)
- 50 Pa static pressure
- Easy maintenance and service by an external electrical box
- 3 speed centrifugal fan through wired or wireless remote control
- DC FAN for better efficiency and control



STANDARD

NEW

| | | Single Phase | | | | Three Phase | | | |
|---|-------------------|---------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 10.0 kW | 12.5 kW | 14.0 kW | |
| KIT | | KIT-60PNY1E5* | KIT-71PNY1E5* | KIT-100PNY1E5** | KIT-125PNY1E5** | KIT-100PNY1E8** | KIT-125PNY1E8** | KIT-140PNY1E8*** | |
| Indoor | | S-60PN1E5 | S-71PN1E5 | S-100PN1E5 | S-125PN1E5 | S-100PN1E5 | S-125PN1E5 | S-140PN1E5 | |
| Outdoor | | U-60PEY1E5 | U-71PEY1E5 | U-100PEY1E5 | U-125PEY1E5 | U-100PEY1E8 | U-125PEY1E8 | U-140PEY1E8 | |
| Wired remote control | | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | |
| Cooling capacity | Nom. (Min-Max) | kW | 6.0 (2.0-7.0) | 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⁾ | Nom. (Min-Max) | W/W | 3.02 (6.15-2.38) ◀C | 2.76 (6.15-2.38) ◀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 | 3.01 (3.30-2.50) ◀B |
| SEER | W/W | | 4.7 ◀C | 5.0 ◀B | 5.3 ◀A | — | 5.2 ◀A | — | |
| Pdesign | kW | | 6.0 | 7.1 | 10.0 | — | 10.0 | — | |
| Power input Cooling | Nom. (Min-Max) | kW | 1.99 (0.325-2.94) | 2.57 (0.325-3.23) | 3.550 (0.570-4.300) | 4.445 (0.95-5.20) | 3.550 (0.570-4.300) | 4.445 (0.95-5.20) | 4.650 (1.000-6.200) |
| Annual Energy Consumption (ErP) ^{2-a)} | | | 995 | 1265 | 1775 | 2223 | 1775 | 2223 | 2325 |
| Annual Energy Consumption (ErP) ^{2-b)} | | | 444 | 496 | 660 | — | 673 | — | |
| Heating capacity | Nom. (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) |
| COP ¹⁾ | Nom. (Min-Max) | W/W | 3.61 (6.55-2.89) ◀B | 3.41 (6.55-2.91) ◀B | 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 | 3.61 (3.90-2.96) ◀A |
| SCOP | W/W | | 3.8 ◀A | 3.8 ◀A | 3.8 ◀A | — | 3.8 ◀A | — | |
| Pdesign at -10 °C | kW | | 4.8 | 5.3 | 7.6 | — | 7.6 | — | |
| Power input Heating | Nom. (Min-Max) | kW | 1.66 (0.275-2.42) | 2.08 (0.275-2.78) | 2.935 (0.450-4.100) | 3.665 (0.780-4.600) | 2.935 (0.450-4.100) | 3.665 (0.78-4.60) | 3.880 (1.050-5.400) |
| Annual Energy Consumption (ErP) ^{2-b)} | | | 1757 | 1952 | 2800 | — | 2800 | — | |
| Indoor unit | | | | | | | | | |
| External static pressure ³⁾ | Nom. (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 | Cool / Heat | m³/h | 1320 / 1320 | 1320 / 1320 | 2160 / 2160 | 2280 / 2280 | 2160 / 2160 | 2280 / 2280 | 2400 / 2400 |
| Moisture removal volume | | l/h | 3.4 | 4.2 | 6.0 | 7.9 | 6.0 | 7.9 | 9.0 |
| Sound pressure Level | Cool (Hi/Me/Lo) | dB(A) | 43 / 41 / 36 | 43 / 41 / 36 | 44 / 42 / 37 | 45 / 43 / 38 | 44 / 42 / 37 | 45 / 43 / 38 | 46 / 44 / 39 |
| | Heat (Hi/Me/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 level | Cool (Hi/Me/Lo) | dB | 60 / 58 / 53 | 60 / 58 / 53 | 65 / 63 / 58 | 66 / 64 / 59 | 65 / 63 / 58 | 66 / 64 / 59 | 67 / 65 / 60 |
| | Heat (Hi/Me/Lo) | dB | 60 / 58 / 53 | 60 / 58 / 53 | 65 / 63 / 58 | 66 / 64 / 59 | 65 / 63 / 58 | 66 / 64 / 59 | 67 / 65 / 60 |
| Dimensions | H x W x D | mm | 250 x 1000 (+100) x 650 | 250 x 1000 (+100) x 650 | 250 x 1200 (+100) x 650 | 250 x 1200 (+100) x 650 | 250 x 1200 (+100) x 650 | 250 x 1200 (+100) x 650 | 250 x 1200 (+100) x 650 |
| Net weight | | kg | 32 | 32 | 41 | 41 | 41 | 41 | |
| Outdoor unit | | | | | | | | | |
| Power source | V | | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 415 |
| Recommended fuse | | | | | | | | | |
| Recommended cable size | m | | | | | | | | |
| Connection | mm² | | | | | | | | 2 x 1.5 or 2.5 |
| Current Cooling | A | | 9.1/8.7/8.4 | 12.0/11.5/11.0 | 16.0 / 15.3 / 14.8 | 20.1 / 19.3 / 18.7 | 5.45 / 5.20 / 5.05 | 6.85 / 6.50 / 6.25 | 6.60 |
| Current Heating | A | | 7.5/7.2/6.9 | 9.6/9.2/8.9 | 13.0 / 12.5 / 12.1 | 16.5 / 15.8 / 15.2 | 4.45 / 4.25 / 4.10 | 5.55 / 5.30 / 5.10 | 6.65 |
| Air Volume | Cool / Heat | m³/h | 1800/2100 | 2340 | 4560 / 4020 | 4800 / 4380 | 4560 / 4020 | 4800 / 4380 | 8100 / 6600 |
| Sound pressure Level ⁴⁾ | Cool / Heat (Hi) | dB(A) | 48 / 50 | 50 / 52 | 54 / 54 | 56 / 56 | 54 / 54 | 56 / 56 | 54 / 53 |
| Sound power level | Cool / Heat (Hi) | dB | 65 / 69 | 70 / 70 | 70 / 70 | 73 / 73 | 70 / 70 | 73 / 73 | 71 / 70 |
| Dimensions | H x W x D | mm | 569 x 790 x 285 | 569 x 790 x 285 | 996 x 940 x 340 | 996 x 940 x 340 | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 42 | 42 | 73 | 85 | 73 | 85 | 98 |
| Piping connections | Liquid / Gas pipe | Inch (mm) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) |
| Refrigerant loading | R410A | kg | 1.7 | 1.7 | 2.60 | 3.20 | 2.60 | 3.20 | 3.4 |
| Elevation dif. (in/out) ⁵⁾ | Max | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Piping length | Min/Max | m | 50 | 50 | 5 / 50 | 5 / 50 | 5 / 50 | 5 / 50 | 5-75 |
| Precharge length | Max | m | 20 | 20 | 30 | 30 | 30 | 30 | 30 |
| Additional charge | | g/m | 40 | 40 | 50 | 50 | 50 | 50 | 50 |
| Operating range | Cool Min/Max | °C | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 |
| | Heat Min/Max | °C | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.
 1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption (ErP) is calculated by formula determined by ErP regulation. 3) Medium External static pressure setting from factory. The specification listed on the table indicates values under the condition of 50 Pa (5.1 mmAq) which are applied for factory default setting. 4) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // * Available from May 2013. ** Available from January 2013. *** TBC.
 For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>

STANDARD

A class
energy saving

INVERTER+

5.4 A
SEER

SEASONAL ENERGY EFFICIENCY RATIO

3.8 A
SCOP

SEASONAL COEFFICIENT OF PERFORMANCE

Down to
-10 °C
in cooling mode

OUTDOOR TEMPERATURE

Down to
-15 °C
in heating mode

OUTDOOR TEMPERATURE

Easy control by BMS

CONNECTIVITY

Reduce the damage to our ozone

R22 RENEWAL

5 year compressor warranty



SEER and SCOP: For KIT-60PNY1E5

OPTIONAL CONTROLLERS

Timer remote controller
CZ-RTC2



Wireless remote controller
CZ-RWSC2



Simplified remote controller
CZ-RE2C2



COMPATIBLE WITH ALL ECOi CONNECTIVITY SOLUTIONS



ELITE

| | Single Phase | | | | | | | | | | Three Phase | | | | |
|---|------------------|-----------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--|--|--|--|
| | 5.0 kW | 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW | | | | | |
| KIT | KIT-50PN1E5* | | KIT-60PN1E5 | KIT-71PN1E5 | KIT-100PN1E5 | KIT-125PN1E5 | KIT-140PN1E5 | KIT-71PN1E8 | KIT-100PN1E8 | KIT-125PN1E8 | KIT-140PN1E8 | | | | |
| Indoor | S-50PN1E5 | | S-60PN1E5 | S-71PN1E5 | S-100PN1E5 | S-125PN1E5 | S-140PN1E5 | S-71PN1E5 | S-100PN1E5 | S-125PN1E5 | S-140PN1E5 | | | | |
| Outdoor | U-50PE1E5 | | U-60PE1E5 | U-71PE1E5 | U-100PE1E5 | U-125PE1E5 | U-140PE1E5 | U-71PE1E8 | U-100PE1E8 | U-125PE1E8 | U-140PE1E8 | | | | |
| Wired remote control | CZ-RTC2 | | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | | | | |
| Cooling capacity | Nom. (Min-Max) | kW | | | | | | | | | | | | | |
| EER ¹⁾ | Nom. (Min-Max) | kW | | | | | | | | | | | | | |
| SEER | W/W | | | | | | | | | | | | | | |
| Pdesign | kW | | | | | | | | | | | | | | |
| Power input Cooling | Nom. (Min-Max) | kW | | | | | | | | | | | | | |
| Annual Energy Consumption ^{2-a)} | | kWh | | | | | | | | | | | | | |
| Annual Energy Consumption ^{2-b)} | | kWh | | | | | | | | | | | | | |
| Heating capacity | Nom. (Min-Max) | kW | | | | | | | | | | | | | |
| COP ¹⁾ | Nom. (Min-Max) | W/W | | | | | | | | | | | | | |
| SCOP | W/W | | | | | | | | | | | | | | |
| Pdesign at -10 °C | kW | | | | | | | | | | | | | | |
| Power input Heating | Nom. (Min-Max) | kW | | | | | | | | | | | | | |
| Annual Energy Consumption ^{2-a)} | | kWh | | | | | | | | | | | | | |
| Indoor unit | | | | | | | | | | | | | | | |
| External static pressure ³⁾ | Hi/Me/Lo | Pa | | | | | | | | | | | | | |
| Air Volume | Cool / Heat | m³/h | | | | | | | | | | | | | |
| Moisture removal volume | l/h | | | | | | | | | | | | | | |
| Sound pressure Level | Cool (Hi/Me/Lo) | dB(A) | | | | | | | | | | | | | |
| | Heat (Hi/Me/Lo) | dB(A) | | | | | | | | | | | | | |
| Sound power level | Cool (Hi/Me/Lo) | dB | | | | | | | | | | | | | |
| | Heat (Hi/Me/Lo) | dB | | | | | | | | | | | | | |
| Dimensions | H x W x D | mm | | | | | | | | | | | | | |
| Net weight | kg | | | | | | | | | | | | | | |
| Outdoor unit | | | | | | | | | | | | | | | |
| Power source | V | | | | | | | | | | | | | | |
| Recommended fuse | | | | | | | | | | | | | | | |
| Recommended cable size | m | | | | | | | | | | | | | | |
| Connection | mm² | | | | | | | | | | | | | | |
| Current | Cool / Heat | A | | | | | | | | | | | | | |
| Air Volume | Cool / Heat | m³/h | | | | | | | | | | | | | |
| Sound pressure Level ⁴⁾ | Cool / Heat (Hi) | dB(A) | | | | | | | | | | | | | |
| | Cool / Heat (Hi) | dB | | | | | | | | | | | | | |
| Dimensions | H x W x D | mm | | | | | | | | | | | | | |
| Net weight | kg | | | | | | | | | | | | | | |
| Piping connections | Liquid pipe | Inch (mm) | | | | | | | | | | | | | |
| | Gas pipe | Inch (mm) | | | | | | | | | | | | | |
| Refrigerant loading | R410A | kg | | | | | | | | | | | | | |
| Elevation dif. (in/out) ⁵⁾ | Max | m | | | | | | | | | | | | | |
| Piping length | Min/Max | m | | | | | | | | | | | | | |
| Precharge length | Max | m | | | | | | | | | | | | | |
| Additional charge | g/m | | | | | | | | | | | | | | |
| Operating range | Cool Min/Max | °C | | | | | | | | | | | | | |
| | Heat Min/Max | °C | | | | | | | | | | | | | |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.
 1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption (ErP) is calculated by formula determined by ErP regulation. 3) Medium External static pressure setting from factory. The specification listed on the table indicates values under the condition of 50 Pa (5.1 mmAq) which are applied for factory default setting. 4) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // * Available from May 2013.
 For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>

ELITE

A class
energy saving

INVERTER+

6.0 A+
SEER

SEASONAL ENERGY EFFICIENCY RATIO

5.3 A+++
SCOP

SEASONAL COEFFICIENT OF PERFORMANCE

Down to
-15 °C
in cooling mode

OUTDOOR TEMPERATURE

Down to
-20 °C
in heating mode

OUTDOOR TEMPERATURE

Easy control by BMS

CONNECTIVITY

Reduce the damage to our ozone

R22 RENEWAL

5 year compressor warranty



SEER and SCOP: For KIT-100PN1E5

HIGH STATIC PRESSURE HIDE AWAY PACi STANDARD AND ELITE INVERTER+

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

Technical Focus

- Extremely quiet operation from 25 dB(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



S-100PF1E5 // S-125PF1E5 // S-140PF1E5



S-60PF1E5 // S-71PF1E5

STANDARD

NEW

| | | Single Phase | | | | Three Phase | | | |
|---|-------------------|---------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 10.0 kW | 12.5 kW | 14.0 kW | |
| KIT | | KIT-60PFY1E5* | KIT-71PFY1E5* | KIT-100PFY1E5** | KIT-125PFY1E5** | KIT-100PFY1E8** | KIT-125PFY1E8** | KIT-140PFY1E8*** | |
| Indoor | | S-60PF1E5 | S-71PF1E5 | S-100PF1E5 | S-125PF1E5 | S-100PF1E5 | S-125PF1E5 | S-140PF1E5 | |
| Outdoor | | U-60PEY1E5 | U-71PEY1E5 | U-100PEY1E5 | U-125PEY1E5 | U-100PEY1E8 | U-125PEY1E8 | U-140PEY1E8 | |
| Wired remote control | | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | |
| Cooling capacity | Nom. (Min-Max) | kW | 6.0 (2.0-7.0) | 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⁾ | Nom. (Min-Max) | W/W | 3.11 (6.15-2.46) ◀B | 2.76 (6.15-2.35) ◀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 | 3.21 (3.93-2.58) ◀A |
| SEER | | W/W | 5.4 ◀A | 5.3 ◀A | 5.4 ◀A | — | 5.2 ◀A | — | — |
| Pdesign | | kW | 6.0 | 7.1 | 10.0 | — | 10.0 | — | — |
| Power input Cooling | Nom. (Min-Max) | kW | 1.930 (0.325-2.850) | 2.570 (0.325-3.270) | 3.320 (0.530-4.200) | 4.100 (0.900-5.000) | 3.320 (0.530-4.200) | 4.100 (0.900-5.000) | 4.360 (0.840-6.000) |
| Annual Energy Consumption ²⁻³⁾ | | | 965 | 1285 | 1660 | 2050 | 1660 | 2050 | 2155 |
| Annual Energy Consumption(ErP) ²⁻³⁾ | | | 389 | 469 | 648 | — | 673 | — | — |
| Heating capacity | Nom. (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) |
| COP ¹⁾ | Nom. (Min-Max) | W/W | 4.26 (6.55-3.41) ◀A | 3.94 (6.55-3.40) ◀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 | 3.89 (4.56-3.08) ◀A |
| SCOP | | W/W | 3.8 ◀A | 3.8 ◀A | 3.8 ◀A | — | 3.8 ◀A | — | — |
| Pdesign at -10 °C | | kW | 5.0 | 5.5 | 9.5 | — | 9.5 | — | — |
| Power input Heating | Nom. (Min-Max) | kW | 1.410 (0.275-2.055) | 1.800 (0.275-2.380) | 2.630 (0.410-4.000) | 3.270 (0.730-4.400) | 2.630 (0.410-4.000) | 3.270 (0.730-4.400) | 3.600 (0.900-5.200) |
| Annual Energy Consumption (ErP) ²⁻³⁾ | | | 1842 | 2026 | 3500 | — | 3500 | — | — |
| Indoor unit | | | | | | | | | |
| External static pressure ³⁾ | Nom. (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 | Cool / Heat | m³/h | 1260 / 1260 | 1260 / 1260 | 1920 / 1920 | 2040 / 2040 | 1920 / 1920 | 2040 / 2040 | 2160 / 2160 |
| Moisture removal volume | | l/h | 3.4 | 4.2 | 6.0 | 7.9 | 6.0 | 7.9 | 9.0 |
| Sound pressure Level | Cool (Hi/Me/Lo) | dB(A) | 35 / 32 / 26 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 |
| | Heat (Hi/Me/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 level | Cool (Hi/Me/Lo) | dB | 57 / 54 / 48 | 57 / 54 / 48 | 60 / 56 / 53 | 61 / 57 / 54 | 60 / 56 / 53 | 61 / 57 / 54 | 62 / 58 / 55 |
| | Heat (Hi/Me/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 1000 x 700 | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | | kg | 33 | 33 | 45 | 45 | 45 | 45 | 45 |
| Outdoor unit | | | | | | | | | |
| Power source | | V | 220 / 240 | 220 / 240 | 220 / 240 | 220 / 240 | 380 / 415 | 380 / 415 | 380 / 415 |
| Recommended fuse | | | | | | | | | |
| Recommended cable size | | m | | | | | | | |
| Connection | | mm² | | | | | | | 2 x 1.5 or 2.5 |
| Current Cooling | | A | 8.6 | 11.7 | 15.1 / 14.5 / 13.9 | 18.8 / 18.0 / 17.2 | 5.10 / 4.85 / 4.70 | 6.20 / 5.90 / 5.70 | 6.60 |
| Current Heating | | A | 6.1 | 7.9 | 11.8 / 11.2 / 10.7 | 14.6 / 14.0 / 13.4 | 4.05 / 3.80 / 3.65 | 4.90 / 4.65 / 4.50 | 6.65 |
| Air Volume | Cool / Heat | m³/h | 1800 / 2100 | 2340 / 2340 | 4560 / 4020 | 4800 / 4380 | 4560 / 4020 | 4800 / 4380 | 8100 / 6600 |
| Sound pressure Level ⁴⁾ | Cool / Heat (Hi) | dB(A) | 48 / 50 | 50 / 52 | 54 / 54 | 56 / 56 | 54 / 54 | 56 / 56 | 54 / 53 |
| Sound power level | Cool / Heat (Hi) | dB | 66 / 69 | 70 / 70 | 70 / 70 | 73 / 73 | 70 / 70 | 73 / 73 | 71 / 70 |
| Dimensions | H x W x D | mm | 569 x 790 x 285 | 569 x 790 x 285 | 996 x 940 x 340 | 996 x 940 x 340 | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 42 | 42 | 73 | 85 | 73 | 85 | 98 |
| Piping connections | Liquid / Gas pipe | Inch (mm) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) |
| Refrigerant loading | R410A | kg | 1.7 | 1.7 | 2.60 | 3.20 | 2.60 | 3.20 | 3.4 |
| Elevation dif. (in/out) ⁵⁾ | Max | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Piping length | Min/Max | m | 5 - 50 | 5 - 50 | 5 / 50 | 5 / 50 | 5 / 50 | 5 / 50 | 5-75 |
| Precharge length | Max | m | 20 | 20 | 30 | 30 | 30 | 30 | 30 |
| Additional charge | | g/m | 40 | 40 | 50 | 50 | 50 | 50 | 50 |
| Operating range | Cool Min/Max | °C | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 |
| | Heat Min/Max | °C | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

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STANDARD

A class
energy saving
INVERTER+

5.4 A
SEER
SEASONAL ENERGY EFFICIENCY RATIO

3.8 A
SCOP
SEASONAL COEFFICIENT OF PERFORMANCE

Down to
-10 °C
in cooling mode
OUTDOOR TEMPERATURE

Down to
-15 °C
in heating mode
OUTDOOR TEMPERATURE

Easy control by BMS
CONNECTIVITY

Reduce the damage to our ozone
R22 RENEWAL

5 year compressor warranty

R2
RENEWAL



U-60PEY1E5
U-71PEY1E5



U-100PEY1E5
U-125PEY1E5
U-100PEY1E8
U-125PEY1E8



U-140PEY1E8

OPTIONAL CONTROLLERS

Timer remote controller
CZ-RTC2



Wireless remote controller
CZ-RWSC2



Simplified remote controller
CZ-RE2C2



COMPATIBLE WITH ALL ECOi CONNECTIVITY SOLUTIONS



ELITE

| | | Single Phase | | | | | | Three Phase | | | |
|--|------------------|----------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | | 5.0 kW | 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW |
| KIT | | KIT-50PF1E5* | KIT-60PF1E5 | KIT-71PF1E5 | KIT-100PF1E5 | KIT-125PF1E5 | KIT-140PF1E5 | KIT-71PF1E8 | KIT-100PF1E8 | KIT-125PF1E8 | KIT-140PF1E8 |
| Indoor | | S-50PF1E5 | S-60PF1E5 | S-71PF1E5 | S-100PF1E5 | S-125PF1E5 | S-140PF1E5 | S-71PF1E5 | S-100PF1E5 | S-125PF1E5 | S-140PF1E5 |
| Outdoor | | U-50PE1E5 | U-60PE1E5 | U-71PE1E5 | U-100PE1E5 | U-125PE1E5 | U-140PE1E5 | U-71PE1E8 | U-100PE1E8 | U-125PE1E8 | U-140PE1E8 |
| Wired remote control | | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 |
| Cooling capacity | Nom. (Min-Max) | kW 5.0 (1.5-5.6) | 6.0 (2.5-7.1) | 7.1 (2.5-8.0) | 10.0 (3.3-12.5) | 12.5 (3.3-14.0) | 14.0 (3.3-15.5) | 7.1 (3.2-8.0) | 10.0 (3.3-12.5) | 12.5 (3.3-14.0) | 14.0 (3.3-15.5) |
| EER1) | Nom. (Min-Max) | kW 3.70 (5.58 - 2.80) <A> | 3.90 (4.72 - 3.55) <A> | 3.84 (4.72 - 3.02) <A> | 4.10 (3.93 - 3.38) <A> | 3.50 (3.93 - 3.04) <A> | 3.25 (3.93 - 2.58) <A> | 3.84 (5.0 - 3.02) <A> | 4.10 (3.93 - 3.38) <A> | 3.50 (3.93 - 3.04) <A> | 3.25 (3.93 - 2.58) <A> |
| SEER | W/W | 5.7 <A+> | 6.4 <A++> | 6.4 <A++> | 5.8 <A+> | — | — | 6.0 <A+> | 5.7 <A+> | — | — |
| Pdesign | kW | 5.0 | 6.0 | 7.1 | 10.0 | — | — | 7.1 | 10.0 | — | — |
| Power input Cooling | Nom. (Min-Max) | kW 1.350 (0.260-2.000) | 1.540 (0.530-2.000) | 1.850 (0.530-2.650) | 2.440 (0.840-3.700) | 3.570 (0.840-4.600) | 4.310 (0.840-6.000) | 1.850 (0.640-2.650) | 2.440 (0.840-3.700) | 3.570 (0.840-4.600) | 4.310 (0.840-6.000) |
| Annual Energy Consumption (ErP) 2-a) | | 675 | 770 | 925 | 1220 | 1785 | 2155 | 925 | 1220 | 1785 | 2155 |
| Annual Energy Consumption (ErP) 2-b) | | 307 | 328 | 388 | 603 | — | — | 414 | 614 | — | — |
| Heating capacity | Nom. (Min-Max) | kW 5.6 (1.5-6.5) | 7.0 (2.0-8.0) | 8.0 (2.0-9.0) | 11.2 (4.1-14.0) | 14.0 (4.1-16.0) | 16.0 (4.1-18.0) | 8.0 (2.8-9.0) | 11.2 (4.1-14.0) | 14.0 (4.1-16.0) | 16.0 (4.1-18.0) |
| COP1) | Nom. (Min-Max) | W/W 3.73 (6.82 - 2.71) <A> | 3.87 (4.17 - 3.23) <A> | 3.85 (4.17 - 3.10) <A> | 4.31 (4.56 - 3.18) <A> | 4.02 (4.56 - 3.08) <A> | 3.60 (4.56 - 3.05) <A> | 3.85 (4.83 - 3.10) <A> | 4.31 (4.56 - 3.18) <A> | 4.02 (4.56 - 3.08) <A> | 3.60 (4.56 - 3.05) <A> |
| SCOP | W/W | 3.8 <A> | 3.9 <A> | 4.0 <A+> | 3.8 <A> | — | — | 3.9 <A> | 3.8 <A> | — | — |
| Pdesign at -10 °C | kW | 4.0 | 6.0 | 7.1 | 10.0 | — | — | 7.1 | 10.0 | — | — |
| Power input Heating | Nom. (Min-Max) | kW 1.500 (0.220-2.400) | 1.810 (0.480-2.480) | 2.080 (0.480-2.900) | 2.600 (0.90-4.400) | 3.480 (0.900-5.200) | 4.440 (0.900-5.900) | 2.080 (0.580-2.900) | 2.600 (0.90-4.400) | 3.480 (0.900-5.200) | 4.440 (0.90-5.900) |
| Annual Energy Consumption (ErP) 2-b) | | 1474 | 2154 | 2485 | 3684 | — | — | 2548 | 3684 | — | — |
| Indoor unit | | | | | | | | | | | |
| External static pressure ³⁾ | Nom. (Min-Max) | Pa 70 (10-150) | 70 (10-150) | 70 (10-150) | 100 (10-150) | 100 (10-150) | 100 (10-150) | 70 (10-150) | 100 (10-150) | 100 (10-150) | 100 (10-150) |
| Air Volume | Cool / Heat | m³/h 960 / 960 | 1260 / 1260 | 1260 / 1260 | 1920 / 1920 | 2040 / 2040 | 2160 / 2160 | 1260 / 1260 | 1920 / 1920 | 2040 / 2040 | 2160 / 2160 |
| Moisture removal volume | l/h | 2.8 | 3.4 | 4.2 | 6.0 | 7.9 | 9.0 | 4.2 | 6.0 | 7.9 | 9.0 |
| Sound pressure Level | Cool (Hi/Me/Lo) | dB(A) 34 / 30 / 26 | 35 / 32 / 26 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 |
| | Heat (Hi/Me/Lo) | dB(A) 34 / 30 / 26 | 35 / 32 / 26 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 | 40 / 36 / 33 |
| Sound power level | Cool (Hi/Me/Lo) | dB 56 / 52 / 48 | 57 / 54 / 48 | 57 / 54 / 48 | 60 / 56 / 53 | 61 / 57 / 54 | 62 / 58 / 55 | 57 / 54 / 48 | 60 / 56 / 53 | 61 / 57 / 54 | 62 / 58 / 55 |
| | Heat (Hi/Me/Lo) | dB 56 / 52 / 48 | 57 / 54 / 48 | 57 / 54 / 48 | 60 / 56 / 53 | 61 / 57 / 54 | 62 / 58 / 55 | 57 / 54 / 48 | 60 / 56 / 53 | 61 / 57 / 54 | 62 / 58 / 55 |
| Dimensions | H x W x D | mm 290 x 800 x 700 | 290 x 1000 x 700 | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Net weight | kg | 28 | 33 | 33 | 45 | 45 | 45 | 33 | 45 | 45 | 45 |
| Outdoor unit | | | | | | | | | | | |
| Power source | V | 220 / 240 | 220 / 240 | 220 / 240 | 220 / 240 | 220 / 240 | 220 / 240 | 380 / 415 | 380 / 415 | 380 / 415 | 380 / 415 |
| Recommended fuse | | | | | | | | | | | |
| Recommended cable size | m | | | | | | | | | | |
| Connection | mm² | | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 |
| Current | Cool / Heat | A 5.85 / 6.55 | 7.40 / 8.40 | 8.60 / 9.50 | 10.60 / 11.20 | 15.90 / 15.80 | 19.30 / 19.10 | 2.65 / 3.00 | 3.53 / 3.70 | 5.29 / 5.26 | 6.42 / 6.35 |
| Air Volume | Cool / Heat | m³/h 1800 / 2100 | 3600 / 3600 | 3600 / 3600 | 6600 / 5700 | 7800 / 6600 | 8100 / 7200 | 3600 / 3600 | 6600 / 5700 | 7800 / 6600 | 8100 / 7200 |
| Sound pressure Level ⁴⁾ | Cool / Heat (Hi) | dB(A) 46 / 50 | 48 / 50 | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 |
| Sound power level | Cool / Heat (Hi) | dB 65 / 69 | 65 / 67 | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 |
| Dimensions | H x W x D | mm 569 x 790 x 285 | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | kg | 42 | 68 | 69 | 98 | 98 | 98 | 71 | 98 | 98 | 98 |
| Piping connections | Liquid pipe | Inch (mm) 1/4 (6.35) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) |
| | Gas pipe | Inch (mm) 1/2 (12.7) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) |
| Refrigerant loading | R410A | kg 1.65 | 2 | 2.35 | 3.4 | 3.4 | 3.4 | 2.35 | 3.4 | 3.4 | 3.4 |
| Elevation dif. (in/out) ⁵⁾ | Max | m 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Piping length | Min/Max | m 5-40 | 5-50 | 5-50 | 5-75 | 5-75 | 5-75 | 5-50 | 5-75 | 5-75 | 5-75 |
| Precharge length | Max | m 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional charge | g/m | 20 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Operating range | Cool Min/Max | °C -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 |
| | Heat Min/Max | °C -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption (ErP) is calculated by formula determined by ErP regulation. 3) Medium External static pressure setting from factory. 4) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // * Available from May 2013. For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>

ELITE

A class energy saving
INVERTER+

6.4 A++ SEER
SEASONAL ENERGY EFFICIENCY RATIO

4.0 A+ SCOP*
SEASONAL COEFFICIENT OF PERFORMANCE

Down to -15 °C in cooling mode
OUTDOOR TEMPERATURE

Down to -20 °C in heating mode
OUTDOOR TEMPERATURE

Easy control by BMS
CONNECTIVITY

Reduce the damage to our ozone
R22 RENEWAL

5 year compressor warranty



SEER and SCOP: For KIT-71PF1E5

CEILING PACi STANDARD AND ELITE INVERTER+

The 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 and feature a fresh air knockout for improved air quality.



Technical Focus

- All units just 210 mm high
- Twin rotary compressor dramatically reduces vibration and noise during operation
- DC inverter control
- Large and wide air distribution
- Industry-leading low sound levels
- Twin, Triple and Double-twin split options

STANDARD

NEW

| | | Single Phase | | | | Three Phase | | | |
|---|--|--------------------|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|
| | | 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 10.0 kW | 12.5 kW | 14.0 kW | |
| KIT | | KIT-60PTY1E5* | KIT-71PTY1E5* | KIT-100PTY1E5** | KIT-125PTY1E5** | KIT-100PTY1E8** | KIT-125PTY1E8** | KIT-140PTY1E8*** | |
| Indoor | | S-60PT1E5 | S-71PT1E5 | S-100PT1E5 | S-125PT1E5 | S-100PT1E5 | S-125PT1E5 | S-140PT1E5 | |
| Outdoor | | U-60PEY1E5 | U-71PEY1E5 | U-100PEY1E5 | U-125PEY1E5 | U-100PEY1E8 | U-125PEY1E8 | U-140PEY1E8 | |
| Wired remote control | | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | |
| Cooling capacity | | Nom. (Min-Max) kW | 6.0 (2.0-7.0) | 7.1 (2.0-7.7) | 10.0 (2.7-11.5) | 12.5 (3.8-13.5) | 10.0 (2.7-11.5) | 14.0 (3.3-15.5) | |
| EER ¹⁾ | | Nom. (Min-Max) W/W | 2.90 (6.15-2.41) ◀C | 2.63 (6.15-2.33) ◀D | 2.90 (5.09-2.74) ◀C | 2.90 (4.22-2.70) ◀C | 2.90 (5.09-2.74) ◀C | 2.92 (3.93-2.58) ◀C | |
| SEER | | W/W | 5.5 ◀B | 5.1 ◀B | 6.2 ◀A++ | — | 6.0 ◀A+ | — | |
| Pdesign | | kW | 6 | 7.1 | 10.0 | — | 10.0 | — | |
| Power input Cooling | | Nom. (Min-Max) kW | 2.070 (0.325-2.900) | 2.700 (0.325-3.300) | 3.450 (0.530-4.200) | 4.310 (0.900-5.000) | 3.450 (0.530-4.200) | 4.310 (0.900-5.000) | |
| Annual Energy Consumption (ErP) ^{2-a)} | | | 1035 | 1350 | 1725 | 2155 | 1725 | 2400 | |
| Annual Energy Consumption (ErP) ^{2-b)} | | | 382 | 487 | 564 | — | 583 | — | |
| Heating capacity | | Nom. (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) | 14.0 (4.1-16.0) | |
| COP ¹⁾ | | Nom. (Min-Max) W/W | 4.05 (6.55-3.25) ◀A | 3.60 (6.55-3.12) ◀A | 3.70 (5.12-3.45) ◀A | 3.70 (4.66-3.41) ◀A | 3.70 (5.12-3.45) ◀A | 3.83 (4.56-3.08) ◀A | |
| SCOP | | W/W | 3.8 ◀A | 3.8 ◀A | 3.8 ◀A | — | 3.8 ◀A | — | |
| Pdesign at -10 °C | | kW | 6.0 | 6.0 | 10.0 | — | 10.0 | — | |
| Power input Heating | | Nom. (Min-Max) kW | 1.480 (0.275-2.155) | 1.970 (0.275-2.600) | 2.700 (0.410-4.000) | 3.380 (0.730-4.400) | 2.700 (0.410-4.000) | 3.380 (0.730-4.400) | |
| Annual Energy Consumption (ErP) ^{2-b)} | | | 2210 | 2210 | 3684 | — | 3684 | — | |
| Indoor unit | | | | | | | | | |
| Air Volume | | Cool / Heat | m ³ /h 1140 / 1140 | 1140 / 1140 | 1980 / 1980 | 2100 / 2100 | 1980 / 1980 | 2100 / 2100 | 2160 / 2160 |
| Moisture removal volume | | U/h | 3.4 | 4.2 | 6.0 | 7.9 | 6.0 | 7.9 | 9.0 |
| Sound pressure Level | | Cooling (Hi / Lo) | dB(A) 39 / 36 / 33 | 39 / 36 / 33 | 42 / 38 / 35 | 45 / 40 / 37 | 42 / 38 / 35 | 45 / 40 / 37 | 46 / 41 / 38 |
| | | Heating (Hi / Lo) | dB(A) 40 / 36 / 33 | 40 / 36 / 33 | 42 / 38 / 35 | 45 / 40 / 37 | 42 / 38 / 35 | 45 / 40 / 37 | 47 / 43 / 39 |
| Sound power level | | Cool (Hi) | dB 58 | 58 | 62 / 56 / 53 | 64 / 58 / 55 | 62 / 56 / 53 | 64 / 58 / 55 | 64 |
| | | Heat (Hi) | dB 58 | 58 | 62 / 56 / 53 | 64 / 58 / 55 | 62 / 56 / 53 | 64 / 58 / 55 | 65 |
| Dimensions | | H x W x D | mm 210 x 1180 x 680 | 210 x 1180 x 680 | 210 x 1595 x 680 | 210 x 1595 x 680 | 210 x 1595 x 680 | 210 x 1595 x 680 | 210 x 1595 x 680 |
| Net weight | | kg | 25 | 25 | 33 | 33 | 33 | 33 | 33 |
| Outdoor unit | | | | | | | | | |
| Power source | | V | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 | 380 / 400 / 415 | 380 / 400 / 415 | 380 / 415 |
| Recommended fuse | | | | | | | | | |
| Recommended cable size | | m | | | | | | | |
| Connection | | mm ² | | | | | | | 2 x 1.5 or 2.5 |
| Current Cooling | | A | 9.75 / 9.4 / 9.1 | 12.8 / 12.4 / 12.0 | 16.2 / 15.5 / 14.6 | 20.4 / 19.5 / 18.7 | 5.45 / 5.20 / 4.95 | 6.75 / 6.45 / 6.20 | 6.60 |
| Current Heating | | A | 6.9 / 6.65 / 6.45 | 9.3 / 9.0 / 8.7 | 12.6 / 12.0 / 11.5 | 15.8 / 15.1 / 14.4 | 4.30 / 4.05 / 3.90 | 5.25 / 5.00 / 4.80 | 6.65 |
| Air Volume | | Cool / Heat | m ³ /h 1800 / 2100 | 2340 | 4560 / 4020 | 4800 / 4380 | 4560 / 4020 | 4800 / 4380 | 8100 / 6600 |
| Sound pressure Level ³⁾ | | Cool / Heat (Hi) | dB(A) 48 / 50 | 50 / 52 | 54 / 54 | 56 / 56 | 54 / 54 | 56 / 56 | 54 / 53 |
| Sound power level | | Cool / Heat (Hi) | dB 65 / 69 | 70 / 70 | 70 / 70 | 73 / 73 | 70 / 70 | 73 / 73 | 71 / 70 |
| Dimensions | | H x W x D | mm 569 x 790 x 285 | 569 x 790 x 285 | 996 x 940 x 340 | 996 x 940 x 340 | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 |
| Net weight | | kg | 42 | 42 | 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) |
| Refrigerant loading | | R410A | kg 1.7 | 1.7 | 2.60 | 3.20 | 2.60 | 3.20 | 3.4 |
| Elevation dif. (in/out) ⁴⁾ | | Max | m 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Piping length | | Min/Max | m 50 | 50 | 5 / 50 | 5 / 50 | 5 / 50 | 5 / 50 | 5-75 |
| Precharge length | | Max | m 20 | 20 | 30 | 30 | 30 | 30 | 30 |
| Additional charge | | g/m | 40 | 40 | 50 | 50 | 50 | 50 | 50 |
| Operating range | | Cool Min/Max | °C -10 ~ 43 | -10 ~ 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 | -10 / 43 |
| | | Heat Min/Max | °C -15 ~ 24 | -15 ~ 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 | -15 / 24 |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption (ErP) is calculated by formula determined by ErP regulation. 3) The Sound pressure level of the units shows the value measured at a position 1 meter in front of the main body and 1.5 from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // * Available from May 2013. ** Available from January 2013. *** TBC. For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>

STANDARD

A class
energy saving
INVERTER+

6.2 A++
SEER
SEASONAL ENERGY EFFICIENCY RATIO

3.8 A
SCOP
SEASONAL COEFFICIENT OF PERFORMANCE

Down to
-10 °C
in cooling mode
OUTDOOR TEMPERATURE

Down to
-15 °C
in heating mode
OUTDOOR TEMPERATURE

Easy control by BMS
CONNECTIVITY

Reduce the damage to our ozone
R22 RENEWAL

5 year compressor warranty

R2
SEASONAL ENERGY EFFICIENCY RATIO

U-60PEY1E5
U-71PEY1E5

U-100PEY1E5
U-125PEY1E5

U-100PEY1E8
U-125PEY1E8
U-140PEY1E8

SEER and SCOP: For KIT-100PFY1E5

OPTIONAL CONTROLLERS

Timer remote controller
CZ-RTC2



Wireless remote controller
CZ-RWSC2 / CZ-RWST2



Simplified remote controller
CZ-RE2C2



COMPATIBLE WITH ALL ECOi CONNECTIVITY SOLUTIONS



ELITE

| | Single Phase | | | | | | | | | | Three Phase | | | |
|---|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|--|--|
| | 5.0 kW | 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW | | | | |
| KIT | KIT-50PT1E5* | KIT-60PT1E5 | KIT-71PT1E5 | KIT-100PT1E5 | KIT-125PT1E5 | KIT-140PT1E5 | KIT-71PT1E8 | KIT-100PT1E8 | KIT-125PT1E8 | KIT-140PT1E8 | | | | |
| Indoor | S-50PT1E5 | S-60PT1E5 | S-71PT1E5 | S-100PT1E5 | S-125PT1E5 | S-140PT1E5 | S-71PT1E5 | S-100PT1E5 | S-125PT1E5 | S-140PT1E5 | | | | |
| Outdoor | U-50PE1E5 | U-60PE1E5 | U-71PE1E5 | U-100PE1E5 | U-125PE1E5 | U-140PE1E5 | U-71PE1E8 | U-100PE1E8 | U-125PE1E8 | U-140PE1E8 | | | | |
| Wired remote control | | | | | | | | | | | | | | |
| | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | CZ-RTC2 | | | | |
| Cooling capacity | Nom. (Min-Max) kW | 5.0 (1.5-5.6) | 6.0 (2.5-7.1) | 7.1 (2.5-8.0) | 10.0 (3.3-12.5) | 12.5 (3.3-14.0) | 14.0 (3.3-15.5) | 7.1 (2.5-8.0) | 10.0 (3.3-12.5) | 12.5 (3.3-14.0) | 14.0 (3.3-15.5) | | | |
| EER ¹⁾ | Nom. (Min-Max) kW | 2.99 (5.77-2.38) C | 3.75 (5.56-3.55) A | 3.24 (5.56-3.02) A | 3.70 (3.93-3.38) A | 3.24 (3.93-3.04) A | 2.92 (3.93-2.58) C | 3.24 (5.56-3.02) A | 3.70 (3.93-3.38) A | 3.24 (3.93-3.04) A | 2.92 (3.93-2.58) C | | | |
| SEER | W/W | 5.2 A+ | 6.4 A++ | 6.0 A+ | 6.3 A++ | — | — | 5.5 A | 6.2 A++ | — | — | | | |
| Pdesign | kW | 5.0 | 6.0 | 7.1 | 10.0 | — | — | 7.1 | 10.0 | — | — | | | |
| Power input Cooling | Nom. (Min-Max) kW | 1.670 (0.260-2.350) | 1.600 (0.450-2.00) | 2.190 (0.450-2.650) | 2.700 (0.840-3.700) | 3.860 (0.840-4.600) | 4.800 (0.840-6.00) | 2.190 (0.450-2.650) | 2.700 (0.840-3.700) | 3.860 (0.840-4.600) | 4.800 (0.840-6.00) | | | |
| Annual Energy Consumption ^{2-a)} | | 835 | 800 | 1095 | 1350 | 1930 | 2400 | 1095 | 1350 | 1930 | 2400 | | | |
| Annual Energy Consumption (ErP) ^{2-b)} | | 336 | 328 | 414 | 555 | — | — | 452 | 564 | — | — | | | |
| Heating capacity | Nom. (Min-Max) kW | 5.6 (1.5-6.5) | 7.0 (2.0-8.0) | 8.0 (2.0-9.0) | 11.2 (4.1-14.0) | 14.0 (4.1-16.0) | 16.0 (4.1-18.0) | 8.0 (2.0-9.0) | 11.2 (4.1-14.0) | 14.0 (4.1-16.0) | 16.0 (4.1-18.0) | | | |
| COP ¹⁾ | Nom. (Min-Max) W/W | 3.39 (6.82-2.50) C | 3.80 (5.00-3.23) A | 3.45 (5.00-3.10) B | 4.18 (4.56-3.18) A | 3.83 (4.56-3.08) A | 3.45 (4.56-3.05) B | 3.45 (5.00-3.10) B | 4.18 (4.56-3.18) A | 3.83 (4.56-3.08) A | 3.45 (4.56-3.05) B | | | |
| SCOP | W/W | 3.5 A | 3.8 A | 3.5 A | 4.1 A+ | — | — | 3.4 A | 4.1 A+ | — | — | | | |
| Pdesign at -10 °C | kW | 4.0 | 6.0 | 7.1 | 10.0 | — | — | 7.1 | 10.0 | — | — | | | |
| Power input Heating | Nom. (Min-Max) kW | 1.650 (0.220-2.600) | 1.840 (0.400-2.480) | 2.320 (0.400-2.900) | 2.680 (0.900-4.400) | 3.660 (0.900-5.200) | 4.640 (0.900-5.900) | 2.320 (0.400-2.900) | 2.680 (0.900-4.400) | 3.660 (0.900-5.200) | 4.640 (0.900-5.900) | | | |
| Annual Energy Consumption (ErP) ^{2-b)} | | 1600 | 2210 | 2840 | 3415 | — | — | 2923 | 3415 | — | — | | | |
| Indoor unit | | | | | | | | | | | | | | |
| Air Volume | Cool / Heat | m³/h | 780 / 780 | 1140 / 1140 | 1140 / 1140 | 1980 / 1980 | 2100 / 2100 | 2160 / 2160 | 1140 / 1140 | 1980 / 1980 | 2100 / 2100 | 2160 / 2160 | | |
| Moisture removal volume | | l/h | 2.8 | 3.4 | 4.2 | 6.0 | 7.9 | 9.0 | 4.2 | 6.0 | 7.9 | 9.0 | | |
| Sound pressure Level | Cooling (Hi / Lo) | dB(A) | 36 / 33 / 30 | 39 / 36 / 33 | 39 / 36 / 33 | 42 / 38 / 35 | 45 / 40 / 37 | 46 / 41 / 38 | 39 / 36 / 33 | 42 / 38 / 35 | 45 / 40 / 37 | 46 / 41 / 38 | | |
| | Heating (Hi / Lo) | dB(A) | 36 / 33 / 30 | 40 / 36 / 33 | 40 / 36 / 33 | 44 / 39 / 36 | 46 / 41 / 38 | 47 / 43 / 39 | 40 / 36 / 33 | 44 / 39 / 36 | 46 / 41 / 38 | 47 / 43 / 39 | | |
| Sound power level | Cool (Hi) | dB | 47 | 58 | 58 | 61 | 63 | 64 | 58 | 61 | 63 | 64 | | |
| | Heat (Hi) | dB | 47 | 58 | 58 | 62 | 64 | 65 | 58 | 62 | 64 | 65 | | |
| Dimensions | H x W x D | mm | 210 x 910 x 680 | 210 x 1180 x 680 | 210 x 1180 x 680 | 210 x 1595 x 680 | 210 x 1595 x 680 | 210 x 1595 x 680 | 210 x 1180 x 680 | 210 x 1595 x 680 | 210 x 1595 x 680 | 210 x 1595 x 680 | | |
| Net weight | | kg | 21 | 25 | 25 | 33 | 33 | 33 | 25 | 33 | 33 | 33 | | |
| Outdoor unit | | | | | | | | | | | | | | |
| Power source | V | | 220 / 240 | 220 / 240 | 220 / 240 | 220 / 240 | 220 / 240 | 220 / 240 | 380 / 415 | 380 / 415 | 380 / 415 | 380 / 415 | | |
| Recommended fuse | | | | | | | | | | | | | | |
| Recommended cable size | m | | | | | | | | | | | | | |
| Connection | mm² | | | | | | | | | | | | | |
| Current Cooling | Nom. (Min-Max) A | | 7.70 / 7.45 / 7.20 | 7.40 | 9.90 | 11.90 | 17.10 | 21.30 | 3.30 | 4.05 | 5.80 | 7.25 | | |
| Current Heating | Nom. (Min-Max) A | | 7.60 / 7.35 / 7.15 | 8.30 | 10.40 | 11.80 | 16.20 | 20.60 | 3.45 | 4.00 | 5.50 | 7.00 | | |
| Air Volume | Cool / Heat | m³/h | 1800 / 2100 | 3600 / 3600 | 3600 / 3600 | 6600 / 5700 | 7800 / 6600 | 8100 / 7200 | 3600 / 3600 | 6600 / 5700 | 7800 / 6600 | 8100 / 7200 | | |
| Sound pressure Level ³⁾ | Cool / Heat (Hi) | dB(A) | 46 / 50 | 48 / 50 | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 | 48 / 50 | 52 / 52 | 53 / 53 | 54 / 55 | | |
| Sound power level | Cool / Heat (Hi) | dB | 65 / 69 | 65 / 67 | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 | 65 / 67 | 69 / 69 | 70 / 70 | 71 / 71 | | |
| Dimensions | H x W x D | mm | 569 x 790 x 285 | 996 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 996 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | 1416 x 940 x 340 | | |
| Net weight | | kg | 42 | 68 | 69 | 98 | 98 | 98 | 69 | 98 | 98 | 98 | | |
| Piping connections | Liquid pipe | Inch (mm) | 1/4 (6.35) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | | |
| | Gas pipe | Inch (mm) | 1/2 (12.7) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | 5/8 (15.88) | | |
| Refrigerant loading | R410A | kg | 1.65 | 2 | 2.35 | 3.4 | 3.4 | 3.4 | 2.35 | 3.4 | 3.4 | 3.4 | | |
| Elevation dif. (in/out) ⁴⁾ | Max | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | | |
| Piping length | Min/Max | m | 40 | 5-50 | 5-50 | 5-75 | 5-75 | 5-75 | 5-50 | 5-75 | 5-75 | 5-75 | | |
| Precharge length | Max | m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | | |
| Additional charge | | g/m | 20 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | |
| Operating range | Cool Min/Max | °C | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | | |
| | Heat Min/Max | °C | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | | |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption (ErP) is calculated by formula determined by ErP regulation. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground the sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // * Available from May 2013.
For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>

ELITE

A class
energy saving

6.4 A++
SEER

3.8 A
SCOP

Down to
-15 °C in
cooling mode

Down to
-20 °C in
heating mode

Easy
control by
BMS

Reduce the
damage to
our ozone

5 year
compressor
warranty



SEER and SCOP: For KIT-60PT1E5

**HIGH STATIC PRESSURE
HIDE AWAY 20.0-25.0 kW
PACi THREE PHASE
INVERTER+**

Panasonic breaks new ground in offering high performance and power in a small space. The 20.0-25.0 kW 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 20.0-25.0 kW systems which have a larger footprint design.

| | | | | | |
|---|---|---|---|---|---|
| A class energy saving INVERTER+ | Down to -15 °C in cooling mode OUTDOOR TEMPERATURE | Down to -20 °C in heating mode OUTDOOR TEMPERATURE | Easy control by BMS CONNECTIVITY | Reduce the damage to our ozone R22 RENEWAL | 5 year compressor warranty |
|---|---|---|---|---|---|

| | | | Three Phase | |
|---|------------------------|-------------------|-------------------------|-------------------------|
| | | | 20.0 kW | 25.0 kW |
| KIT | | | KIT-200PE1E8A | KIT-250PE1E8 |
| Indoor | | | S-200PE1E8A | S-250PE1E8 |
| Outdoor | | | U-200PE1E8 | U-250PE1E8 |
| Remote control (optional) | | | CZ-RTC2 | CZ-RTC2 |
| Cooling capacity | Nom. (Min-Max) | kW | 20.0 (6.0-22.4) | 25.0 (6.0-28.0) |
| EER ¹⁾ | Nominal | W/W | 2.62 ◀D | 2.62 ◀D |
| SEER | | W/W | — | — |
| Pdesign | | kW | — | — |
| Power input Cooling | Nominal | kW | 7.640 | 9.550 |
| Running amperes | | A | 11.8 | 14.8 |
| Annual Energy Consumption ^{2-a)} | | | 3820 | 4775 |
| Annual Energy Consumption(ErP) ^{2-b)} | | | — | — |
| Heating capacity | Nom. (Min-Max) | kW | 21.8 (6.0-22.4) | 28.0 (6.0-31.5) |
| COP ¹⁾ | Nominal | W/W | 3.54 ◀B | 3.41 ◀B |
| SCOP | | W/W | — | — |
| Pdesign at -10 °C | | kW | — | — |
| Power input Heating | Nominal | kW | 6.150 | 8.200 |
| Running amperes | | A | 9.5 | 12.6 |
| Annual Energy Consumption (ErP) ^{2-b)} | | | — | — |
| Indoor unit | | | | |
| Power source | | V / ph / Hz | 220 / 240 / 1 / 50 | 220 / 240 / 1 / 50 |
| External static pressure ³⁾ | With booster cable | Pa | 216 (235) | 216 (235) |
| Air volume | Cooling/Heating | m ³ /h | 4320 | 4320 |
| Moisture removal volume | Cooling | l/h | 11.1 | 13.9 |
| Sound pressure level ⁴⁾ | (H/M/L) | dB(A) | 51 / 50 / 49 | 51 / 50 / 49 |
| Sound power level | | dB(A) | 82 | 82 |
| Dimensions / Net weight | H x W x D | mm / kg | 479 x 1428 x 1230 / 120 | 479 x 1428 x 1230 / 120 |
| Outdoor unit | | | | |
| Power source | | V / ph / Hz | 380 / 415 / 3+N / 50/60 | 380 / 415 / 3+N / 50/60 |
| Recommended fuse | | | 15A | 20A |
| Recommended cable size | | m | 14 | 14 |
| Air Volume | Cooling/Heating | m ³ /h | 7740 | 7080 |
| Sound pressure level ⁴⁾ | Cooling / Heating (Hi) | dB(A) | 57 / 57 | 57 / 58 |
| Sound power level | (Hi) | dB | 72 | 73 |
| Dimensions | H x W x D | mm | 1526 x 940 x 340 | 1526 x 940 x 340 |
| Net weight | | kg | 118 | 128 |
| Piping connections | Liquid pipe | mm (Inch) | 9.52 (3/8) | 12.7 (1/2) |
| | Gas pipe | mm (Inch) | 25.4 (1) | 25.4 (1) |
| Refrigerant loading | | | 5.3 | 6.5 |
| Elevation dif. (in/out) ⁵⁾ | Max | m | 30 | 30 |
| Piping length | Min-Max | m | 5-100 | 5-100 |
| Precharge length | Max | m | 30 | 30 |
| Additional charge | | g/m | 40 | 80 |
| Operating range | Cool Min/Max | °C | -15 / 43 | -15 / 43 |
| | Heat Min/Max | °C | -20 / 15 | -20 / 15 |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb)

1) EER and COP, Energy Saving Classification, is at 220 - 240 V (380 - 415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption(ErP) is calculated by formula determined by ErP regulation. 3) The specification listed on the table indicates values under the condition of 50 Pa (5.1 mmAq) which are applied for factory default setting. Change connector on fan motor from Hi to Shi to have 7.0 mmAq. 4) The sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.

Specifications subject to change without notice.

For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>



OPTIONAL CONTROLLERS

Timer remote controller
CZ-RTC2



Wireless remote controller
CZ-RWSC2



Simplified remote controller
CZ-RE2C2



KIT-200PE1E8A // KIT-250PE1E8

Technical Focus

- HIGH EFFICIENCY INVERTER SYSTEM
- COOLING WITH LOW OUTDOOR TEMPERATURES (DOWN TO -15 °C)
- MAXIMUM PIPE LENGTH 100 M (MORE THAN 40% LONGER THAN OTHER SPLIT SYSTEMS)
- MULTIFUNCTIONAL WIRELESS REMOTE CONTROL WITH BUILT-IN TEMPERATURE CONTROL
- FRESH AIR KNOCKOUT FOR IMPROVED AIR QUALITY

COMPATIBLE WITH ALL ECOi CONNECTIVITY SOLUTIONS



U-200PE1E8
U-250PE1E8

Features

ENERGY EFFICIENCY AND ECOLOGY

- Maximum efficiency Inverter system
- R410A environmentally friendly refrigerant gas

COMFORT

- Cooling with low outdoor temperatures (down to -15 °C)
- Selection of temperature sensor at indoor unit or wired remote control

EASE OF USE

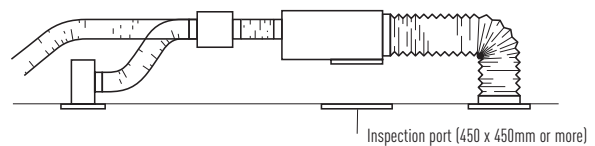
- Weekly On/Off timer (6 settings per day and 42 per week)
- Selection of wired / Wireless and simplified wired remote controller

EASY INSTALLATION AND MAINTENANCE

- High static pressure units ideal for shops and offices

System example

An inspection port (450 x 450 mm or more) is required at the lower side of the indoor unit body. Distributor (field supply).



Plenums

| Air Outlet Plenum (suitable for rigid + flexible duct) | | |
|--|----------------------------|-----------------|
| | N. of exits with diameters | Model |
| S-200PE1E8A / S-250PE1E8 | 1 x 500 mm | CZ-TREMIESPW706 |

PACi Standard Single and Twin System

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.

SINGLE

TWIN

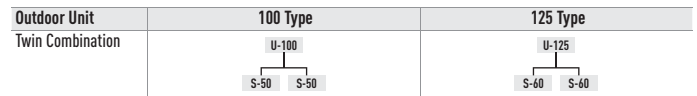
Joint distribution (sold separately) A= CZ-P155BK1

| Item | | Contents | | Symbol | | Actual length (m) | |
|-------------------------------------|--|---|--|--------|------------------|-------------------|-------|
| | | | | Single | Twin | | |
| Allowable tubing lengths | Maximum distribution tubing length | Maximum branch pipe length | | - | Q1 Q2 | ≤ 15 | |
| | Sum Total Length | Maximum allowable tubing length and the sum total of other tubing | | - | L + Q1 > Q2 | ≤ 50 m | |
| Maximum branch tubing length | | Maximum branch pipe length difference | | - | Q1 > Q2 Q1-Q2 | ≤ 10 | |
| Maximum allowable height difference | Maximum indoor-outdoor height difference | If outdoor unit is higher | | H1 | | ≤ 30 | |
| | | If outdoor unit is lower | | | | ≤ 15 | |
| | Maximum height difference between indoor units | | | | | H2 | ≤ 0.5 |

| | Main tubing (L) | | Double-twin distribution tube (L1, L2) | | Indoor unit connection tube (Q1, Q2, Q3, Q4) | |
|-------------------------------------|-----------------|-------|--|--|--|-------|
| Type capacity of indoor unit | 50 - 60 | | 100 - 140 | | 60 | 50 |
| Gas tube | Ø15.88 | | Ø15.88 | | Ø15.88 | Ø12.7 |
| Liquid tube | Ø9.52 | Ø12.7 | Ø9.52 | | Ø9.52 | Ø6.35 |
| Amount of additional charge per 1 m | 50 g | 50 g | 50 g | | 50 g | 20 g |

Single/Simultaneous operation system combinations

| Indoor size / Outdoor size | 10.0 kW | 12.5 kW |
|----------------------------|---------|---------|
| 5.0 kW | Twin | |
| 6.0 kW | | Twin |
| 10.0 kW | Single | |
| 12.5 kW | | Single |



Compatible Outdoor Units

| | | | 10.0 kW | 10.0 kW | 12.5 kW | 12.5 kW |
|-------------------------|------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | U-100PEY1E5 | U-100PEY1E8 | U-125PEY1E5 | U-125PEY1E8 |
| Cooling capacity | Nom. (Min-Max) | kW | 10 | 10.0 (2.7-11.5) | 12.5 (3.8-13.5) | 12.5 (3.8-13.5) |
| Heating capacity | Nom. (Min-Max) | kW | 10 | 10.0 (2.1-13.8) | 12.5 (3.4-15.0) | 12.5 (3.4-15.0) |
| Power source | | V | 220 / 230 / 240 | 380 / 400 / 415 | 220 / 230 / 240 | 380 / 400 / 415 |
| Connection | | mm ² | | | | |
| Air Volume | Cooling/Heating | m ³ /h | 4560 / 4020 | 4560 / 4020 | 4800 / 4380 | 4800 / 4380 |
| Sound pressure Level | Cooling/Heating (Hi) | dB(A) | 54 / 54 | 54 / 54 | 56 / 56 | 56 / 56 |
| Sound power Level | Cooling/Heating (Hi) | dB | 70 / 70 | 70 / 70 | 73 / 73 | 73 / 73 |
| Dimensions (Net weight) | H x W x D | mm (kg) | 996 x 940 x 340 (73) | 996 x 940 x 340 (73) | 996 x 940 x 340 (85) | 996 x 940 x 340 (85) |
| Piping connections | Liquid pipe / Gas pipe | Inch (mm) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) |
| Refrigerant Loading | R410A | kg | 2.60 | 2.60 | 3.20 | 3.20 |
| Elevation dif. (in/out) | Max | m | 30 | 30 | 30 | 30 |
| Piping length | Min/Max | m | 5 - 50 | 5 - 50 | 5 - 50 | 5 - 50 |
| Precharge length | Max | m | 30 | 30 | 30 | 30 |
| Additional gas | | g/m | 50 | 50 | 50 | 50 |
| 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 |

U-__PEY1E5 Single Phase // U-__PEY1E8 Three Phase

Compatible Indoor Units



S-50PK1E5 / S-60PK1E5



S-50PY1E5 / S-60PY1E5



S-50PU1E5 / S-60PU1E5



S-50PT1E5 / S-60PT1E5



S-50PN1E5 / S-60PN1E5



S-50PF1E5 / S-60PF1E5

Compatible Outdoor Units



U-100PEY1E5 // U-125PEY1E5 // U-100PEY1E8
// U-125PEY1E8

Compatible Indoor Units

| | | | 5.0 kW | 6.0 kW |
|---------------------------------|---------------------|-------------------|-----------------------|------------------------|
| Wall | | | S-50PK1E5 | S-60PK1E5 |
| Capacity | Cooling | kW | 5.0 | 6.0 |
| | Heating | kW | 5.6 | 6.0 |
| Dimensions | H x W x D | mm | 300 x 1065 x 230 | 300 x 1065 x 230 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 40 / 36 / 32 | 47 / 44 / 40 |
| | Heating (Hi/Me/Lo) | dB(A) | 40 / 36 / 32 | 47 / 44 / 40 |
| Air Volume | Cooling / Heating | m ³ /h | 840 / 840 | 1080 / 1080 |
| 4 Way 60x60 Cassette | | | S-50PY1E5 | S-60PY1E5 |
| Capacity | Cooling | kW | 5.0 | 10.0 |
| | Heating | kW | 5.6 | 10.0 |
| Dimensions | Indoor H x W x D | mm | 283 x 575 x 575 | 283 x 575 x 575 |
| | Panel H x W x D | mm | 30 x 625 x 625 | 30 x 625 x 625 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 41 / 37 / 33 | 41 / 37 / 33 |
| | Heating (Hi/Me/Lo) | dB(A) | 41 / 37 / 33 | 41 / 37 / 33 |
| Air Volume | Cooling / Heating | m ³ /h | 750 / 750 | 750 |
| 4 Way 90x90 Cassette | | | S-50PU1E5 | S-60PU1E5 |
| Capacity | Cooling | kW | 5.0 | 6.0 |
| | Heating | kW | 5.6 | 6.0 |
| Dimensions | Indoor H x W x D | mm | 256 x 840 x 840 | 256 x 840 x 840 |
| | Panel H x W x D | mm | 33.5 x 950 x 950 | 33.5 x 950 x 950 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 32 / 29 / 27 | 32 / 29 / 27 |
| | Heating (Hi/Me/Lo) | dB(A) | 32 / 29 / 27 | 32 / 29 / 27 |
| Air Volume | Cooling / Heating | m ³ /h | 960 / 960 | 960 / 960 |
| Low Static Pressure Hide Away | | | S-50PN1E5 | S-60PN1E5 |
| Capacity | Cooling | kW | 5.0 | 6.0 |
| | Heating | kW | 5.6 | 7.0 |
| Dimensions | H x W x D | mm | 250 x 780(+100) x 650 | 250 x 1000(+100) x 650 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 41 / 35 | 43 / 41 / 36 |
| | Heating (Hi/Me/Lo) | dB(A) | 41 / 35 | 43 / 41 / 36 |
| External static pressure | Nominal (Min-Max) | Pa | 80 / 50 / 10 | 50 (10-80) |
| Air Volume | Cooling / Heating | m ³ /h | 960 / 960 | 1320 / 1320 |
| Hide Away High Stratic Pressure | | | S-50PF1E5 | S-60PF1E5 |
| Capacity | Cooling | kW | 5.0 | 6.0 |
| | Heating | kW | 5.6 | 6.0 |
| Dimensions | H x W x D | mm | 290 x 800 x 700 | 290 x 1000 x 700 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 34 / 30 / 26 | 35 / 32 / 26 |
| | Heating (Hi/Me/Lo) | dB(A) | 34 / 30 / 26 | 35 / 32 / 26 |
| External static pressure | High / Medium / Low | Pa | 150 / 70 / 10 | 70 (10-150) |
| Air Volume | Cooling / Heating | m ³ /h | 960 / 960 | 1260 / 1260 |
| Ceiling | | | S-50PT1E5 | S-60PT1E5 |
| Capacity | Cooling | kW | 5.0 | 6.0 |
| | Heating | kW | 5.6 | 6.0 |
| Dimensions | H x W x D | mm | 210 x 910 x 680 | 210 x 1180 x 680 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 38 / 33 / 30 | 39 / 36 / 33 |
| | Heating (Hi/Me/Lo) | dB(A) | 39 / 34 / 30 | 40 / 36 / 33 |
| Air Volume | Cooling / Heating | m ³ /h | 840 / 840 | 1140 / 1140 |

PACi Elite Twin, Triple and Double-Twin System from 3.6 to 14.0 kW

TWIN

TRIPLE

DOUBLE-TWIN

Joint distribution (sold separately)

A= CZ-P155BK1
B= CZ-P3HPC2BM

| Equivalent pipe lengths and height differences | | Symbols | | | Spec |
|--|-------------------------------------|------------------|-----------------------|---|--------------------------------------|
| | | Twin | Triple | Double-Twin | |
| Total pipe length | | L+L1+L2 | L+L1+L2+L3 | L+L1+L2+L3+L4+L5+L6 | U-60/71P: 50 m / U-100/125/140: 75 m |
| Maximum branch pipe length | | L1 or L2 | L1 or L2 or L3 | L1+L3 or L1+L4 or L2+L5 or L2+L6 | Less than 15 m |
| Maximum branch pipe length differences | | L1 > L2 L1-L2 | L1 > L2 > L3 L1-L2 | L2+L6 → MAX L2+L6 → MIN (L2+L6)-(L1+L3) | Less than 10 m |
| Maximum pipe length differences of branch pipe 1 (Double-Twin) | | — | — | L2 > L1 | Less than 10 m |
| Maximum pipe length differences of branch pipe 1 (Double-Twin) | | — | — | L4 > L3 L6 > L5 | Less than 10 m |
| Height difference | Outdoor located higher installation | H1 | | | Less than 30 m |
| | Outdoor located lower installation | H1 | | | Less than 15 m |
| Height difference between indoor units | | H2 | H2 or H3 or H4 | H2 or H3 or H4 or H5 or H6 or H7 | Less than 0.5 m |

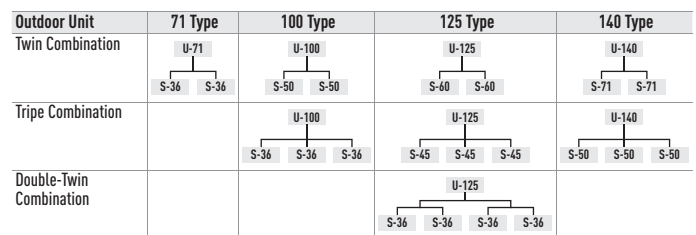
| Outdoor unit main pipe diameter (mm) | Branch pipe diameter | Indoor unit combination | | | | |
|--------------------------------------|----------------------|-------------------------|---------|---------|---------|---------|
| | | S-36 | S-45 | S-50 | S-60 | S-71 |
| Liquid side: Ø 9.52 | Liquid side | Ø 6.35 | Ø 6.35 | Ø 6.35 | Ø 9.52 | Ø 9.52 |
| Gas side: Ø 15.88 | Gas side | Ø 12.70 | Ø 12.70 | Ø 12.70 | Ø 15.88 | Ø 15.88 |
| Branch pipe kit (option) | TWIN, DOUBLE-TWIN | CZ-P155BK1 | | | | |
| | TRIPLE | CZ-P3HPC2BM | | | | |

Refrigerant charging: For the twin connection, the amount of refrigerant required for pipe length 30 m 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 charge is required for the first 30 m pipe length in the case of the twin connection and for the first 20 m in the case of the Triple / Double-Twin connections. The amount of included refrigerant for each model is listed on NAMA PLATE. Make additional charges 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 30 m for the Twin connection and after 20 m for the Triple / Double-Twin connections) liquid side pipe diameter and pipe length from the below table.

| Liquid pipe diameter | Addition amount of refrigerant (g/m) |
|----------------------|--------------------------------------|
| Ø 6.35 | 20 |
| Ø 9.52 | 50 |

Single/Simultaneous operation system combinations

| Indoor Outdoor size | 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW | 14.0 kW |
|---------------------|--------|--------|---------|-------------|-------------|
| 3.6 kW | | Twin | | Double-twin | Double-twin |
| 4.5 kW | | | | Triple | |
| 5.0 kW | | | Twin | | Triple |
| 6.0 kW | Single | | | Twin | |
| 7.1 kW | | Single | | | Twin |
| 10.0 kW | | | Single | | |
| 12.5 kW | | | | Single | |
| 14.0 kW | | | | | Single |



Compatible Outdoor Units

| | | 7.1 kW | 7.1 kW | 10.0 kW | 10.0 kW | 12.5 kW | 12.5 kW | 14.0 kW | 14.0 kW |
|-------------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Outdoor | | U-71PE1E5 | U-71PE1E8 | U-100PE1E5 | U-100PE1E8 | U-125PE1E5 | U-125PE1E8 | U-140PE1E5 | U-140PE1E8 |
| Cooling capacity | Nom. (Min-Max) kW | 7.1 (2.5 - 8.0) | 7.1 (2.5 - 8.0) | 10.0 (3.3 - 12.5) | 10.0 (3.3 - 12.5) | 12.5 (3.3 - 14.0) | 12.5 (3.3 - 14.0) | 14.0 (3.3 - 15.5) | 14.0 (3.3 - 15.5) |
| Heating capacity | Nom. (Min-Max) kW | 8.0 (2.0 - 9.0) | 8.0 (2.0 - 9.0) | 11.2 (4.1 - 14.0) | 11.2 (4.1 - 14.0) | 14.0 (4.1 - 16.0) | 14.0 (4.1 - 16.0) | 16.0 (4.1 - 18.0) | 16.0 (4.1 - 18.0) |
| Power source | V | 220 - 240 | 380-415 | 220 - 240 | 380 - 415 | 220 - 240 | 380 - 415 | 220 - 240 | 380 - 415 |
| Connection | mm ² | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 | 2 x 1.5 or 2.5 |
| Air Volume | Cooling/Heating m ³ /h | 3600 / 3600 | 3600 / 3600 | 6600 / 5700 | 6600 / 5700 | 7800 / 6600 | 7800 / 6600 | 8100 / 7200 | 8100 / 7200 |
| Sound pressure Level | Cooling/Heating (Hi) dB(A) | 48 / 50 | 48 / 50 | 52 / 52 | 52 / 52 | 53 / 53 | 53 / 53 | 54 / 55 | 54 / 55 |
| Sound power Level | Cooling/Heating (Hi) dB | 65 / 67 | 65 / 67 | 69 / 69 | 69 / 69 | 70 / 70 | 70 / 70 | 71 / 71 | 71 / 71 |
| Dimensions (Net weight) | H x W x D mm (kg) | 996 x 940 x 340 (69) | 996 x 940 x 340 (69) | 1416 x 940 x 340 (98) | 1416 x 940 x 340 (98) | 1416 x 940 x 340 (98) | 1416 x 940 x 340 (98) | 1416 x 940 x 340 (98) | 1416 x 940 x 340 (98) |
| Piping connections | Liquid pipe / Gas pipe Inch (mm) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) | 3/8 (9.52) / 5/8 (15.88) |
| Refrigerant Loading | R410A kg | 2.35 | 2.35 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| Elevation dif. (in/out) | Max m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Piping length | Min/Max m | 5 - 50 | 5 - 50 | 5 - 75 | 5 - 75 | 5 - 75 | 5 - 75 | 5 - 75 | 5 - 75 |
| Precharge length | Max m | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Additional gas | g/m | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Operating range | Cooling Min/Max °C | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 |
| | Heating Min/Max °C | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 | -20 / 24 |

U_ _E1E5 Single Phase // U_ _E1E8 Three Phase

Compatible Indoor Units



S-36PK1E5 / S-45PK1E5 / S-50PK1E5 / S-60PK1E5 / S-71PK1E5



S-36PU1E5 / S-45PU1E5 / S-50PU1E5 / S-60PU1E5 / S-71PU1E5



S-36PN1E5 / S-45PN1E5 / S-50PN1E5 / S-60PN1E5 / S-71PN1E5



S-36PY1E5 / S-45PY1E5 / S-50PY1E5



S-36PT1E5 / S-45PT1E5 / S-50PT1E5 / S-60PT1E5 / S-71PT1E5



S-36PF1E5 / S-45PF1E5 / S-50PF1E5 / S-60PF1E5 / S-71PF1E5

Compatible Outdoor Units



U-71PE1E5 / U-71PE1E8



U-100PE1E5 / U-100PE1E8 / U-125PE1E5 / U-125PE1E8 / U-140PE1E5 / U-140PE1E8

Compatible Indoor Units

| | | | 3.6 kW | 4.6 kW | 5.0 kW | 6.0 kW | 7.1 kW |
|--|---------------------|-------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|
| Wall | | | S-36PK1E5 | S-45PK1E5 | S-50PK1E5 | S-60PK1E5 | S-71PK1E5 |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.0 | 6.0 | 7.1 |
| | Heating | kW | 4.2 | 5.2 | 5.6 | 7.0 | 8.0 |
| Dimensions | H x W x D | mm | 300 x 1065 x 230 | 300 x 1065 x 230 | 300 x 1065 x 230 | 300 x 1065 x 230 | 300 x 1065 x 230 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 35 / 31 / 27 | 38 / 34 / 30 | 40 / 36 / 32 | 47 / 44 / 40 | 47 / 44 / 40 |
| | Heating (Hi/Me/Lo) | dB(A) | 35 / 31 / 27 | 38 / 34 / 30 | 40 / 36 / 32 | 47 / 44 / 40 | 47 / 44 / 40 |
| Air Volume | Cooling / Heating | m ³ /h | 660 / 660 | 720 / 720 | 840 / 840 | 1080 / 1080 | 1080 / 1080 |
| 4 Way 60x60 Cassette | | | S-36PY1E5 | S-45PY1E5 | S-50PY1E5 | | |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.0 | | |
| | Heating | kW | 4.2 | 5.2 | 5.6 | | |
| Dimensions | Indoor H x W x D | mm | 283 x 575 x 575 | 283 x 575 x 575 | 283 x 575 x 575 | | |
| | Panel H x W x D | mm | 30 x 625 x 625 | 30 x 625 x 625 | 30 x 625 x 625 | | |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 32 / 29 / 26 | 36 / 32 / 28 | 41 / 37 / 33 | | |
| | Heating (Hi/Me/Lo) | dB(A) | 32 / 29 / 26 | 36 / 32 / 28 | 41 / 37 / 33 | | |
| Air Volume | Cooling / Heating | m ³ /h | 540 / 540 | 636 / 636 | 750 / 750 | | |
| 4 Way 90x90 Cassette | | | S-36PU1E5 | S-45PU1E5 | S-50PU1E5 | S-60PU1E5 | S-71PU1E5 |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.0 | 6.0 | 7.1 |
| | Heating | kW | 4.2 | 5.2 | 5.6 | 7.0 | 8.0 |
| Dimensions | Indoor H x W x D | mm | 256 x 840 x 840 | 256 x 840 x 840 | 256 x 840 x 840 | 256 x 840 x 840 | 256 x 840 x 840 |
| | Panel H x W x D | mm | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 30 / 28 / 27 | 31 / 28 / 27 | 32 / 29 / 27 | 37 / 31 / 28 | 37 / 31 / 28 |
| | Heating (Hi/Me/Lo) | dB(A) | 30 / 28 / 27 | 31 / 28 / 27 | 32 / 29 / 27 | 36 / 31 / 28 | 37 / 31 / 28 |
| Air Volume | Cooling / Heating | m ³ /h | 840 / 840 | 900 / 900 | 960 / 960 | 1260 / 1260 | 1320 / 1320 |
| Low Static Pressure Hide Away | | | S-36PN1E5 | S-45PN1E5 | S-50PN1E5 | S-60PN1E5 | S-71PN1E5 |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.0 | 6.0 | 7.1 |
| | Heating | kW | 4.2 | 5.2 | 5.6 | 7.0 | 8.0 |
| Dimensions | H x W x D | mm | 250 x 780(+100) x 650 | 250 x 780(+100) x 650 | 250 x 780(+100) x 650 | 250 x 1000(+100) x 650 | 250 x 1000(+100) x 650 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 40 / 35 | 41 / 35 | 41 / 35 | 43 / 41 / 36 | 43 / 41 / 36 |
| | Heating (Hi/Me/Lo) | dB(A) | 40 / 35 | 41 / 35 | 41 / 35 | 43 / 41 / 36 | 43 / 41 / 36 |
| External static pressure | High / Medium / Low | Pa | 80 / 50 / 10 | 80 / 50 / 10 | 80 / 50 / 10 | 80 / 50 / 10 | 80 / 50 / 10 |
| Air Volume | Cooling / Heating | m ³ /h | 840 / 840 | 960 / 960 | 960 / 960 | 1320 / 1320 | 1320 / 1320 |
| Hide Away High Stratic Pressure | | | S-36PF1E5 | S-45PF1E5 | S-50PF1E5 | S-60PF1E5 | S-71PF1E5 |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.0 | 6.0 | 7.1 |
| | Heating | kW | 4.2 | 5.2 | 5.6 | 7.0 | 8.0 |
| Dimensions | H x W x D | mm | 290 x 800 x 700 | 290 x 800 x 700 | 290 x 800 x 700 | 290 x 1000 x 700 | 290 x 1000 x 700 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 33 / 29 / 25 | 34 / 30 / 26 | 34 / 30 / 26 | 35 / 32 / 26 | 35 / 32 / 26 |
| | Heating (Hi/Me/Lo) | dB(A) | 33 / 29 / 25 | 34 / 30 / 26 | 34 / 30 / 26 | 35 / 32 / 26 | 35 / 32 / 26 |
| External static pressure | High / Medium / Low | Pa | 150 / 70 / 10 | 150 / 70 / 10 | 150 / 70 / 10 | 150 / 70 / 10 | 150 / 70 / 10 |
| Air Volume | Cooling / Heating | m ³ /h | 840 / 840 | 840 / 840 | 960 / 960 | 1260 / 1260 | 1260 / 1260 |
| Ceiling | | | S-36PT1E5 | S-45PT1E5 | S-50PT1E5 | S-60PT1E5 | S-71PT1E5 |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.0 | 6.0 | 7.1 |
| | Heating | kW | 4.2 | 5.2 | 5.6 | 7.0 | 8.0 |
| Dimensions | H x W x D | mm | 210 x 910 x 680 | 210 x 910 x 680 | 210 x 910 x 680 | 210 x 1180 x 680 | 210 x 1180 x 680 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 35 / 32 / 30 | 38 / 33 / 30 | 38 / 33 / 30 | 39 / 36 / 33 | 39 / 36 / 33 |
| | Heating (Hi/Me/Lo) | dB(A) | 36 / 32 / 30 | 39 / 34 / 30 | 39 / 34 / 30 | 40 / 36 / 33 | 40 / 36 / 33 |
| Air Volume | Cooling / Heating | m ³ /h | 720 / 720 | 840 / 840 | 840 / 840 | 1140 / 1140 | 1140 / 1140 |

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

Up to 4 indoor units connectable on the same outdoor. Panasonic's PACi units 200 and 250 can be installed as twin, triple and double-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.

SINGLE

TWIN

TRIPLE

DOUBLE-TWIN

Joint distribution (sold separately)

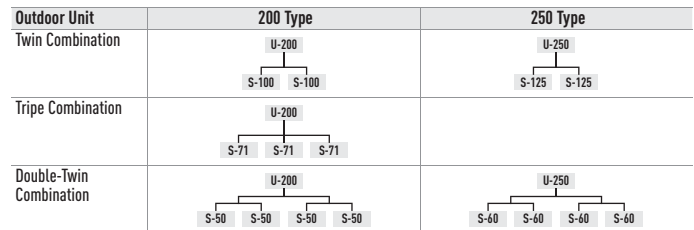
A= CZ-P680BK2BM
C=CZ-P155BK1BM

| Item | | Contents | | Symbol | | | | Actual length (m) |
|---|--|---|--------------------------|--------|--------------------|-------------------------|---|-------------------|
| | | | | Single | Twin | Triple | Double-Twin | |
| Allowable tubing lengths | Maximum allowable tubing length | One-way length of tubing from outdoor unit to the most distant indoor unit | | L | L + ø1 L + ø2 | L + ø1 L + ø2 L + ø3 | L + L1 + ø1 L + L1 + ø2 L + L2 + ø3 L + L2 + ø4 | ≤ 100 |
| | Maximum distribution tubing length | Maximum length following the first branch point (No. 1 distribution) | | - | ø1 ø2 | ø1 ø2 ø3 | L1 + ø1 L1 + ø2 L2 + ø3 L2 + ø4 | ≤ 20 |
| | Sum Total Length | Maximum length following the second branch point (double twin) | | - | - | - | ø1 ø2 ø3 ø4 | ≤ 15 |
| | | Maximum allowable tubing length and the sum total of other tubing | | - | - | L + ø1 + ø2 + ø3 | L + L1 + L2 + ø1 + ø2 + ø3 + ø4 | ≤ 120 |
| Maximum branch tubing length | | Difference between the maximum length and minimum length in tubing following the first branch point | | - | ø1 > ø2 ø1 - ø2 | ø1 > ø2 > ø3 ø1 - ø3 | Max.: L2 + ø2 // Min.: L1 + ø1 (L2 + ø4) - (L1 + ø1) | ≤ 15 |
| Maximum difference between lengths of No. 1 distribution tubing (double twin) | | | | - | - | - | L2 > L1 // L2 - L1 | ≤ 10 |
| Maximum allowable height difference | Maximum I.U. - O.U. height difference | If outdoor unit is higher | If outdoor unit is lower | H1 | - | - | - | ≤ 30 |
| | Maximum height difference between indoor units | | | - | H2 | H2 H3 H4 | H2 H3 H4 H5 H6 H7 | ≤ 0.5 |

| | Main tubing (L) | | Double-twin distribution tube (L1, L2) | | Indoor unit connection tube (ø1, ø2, ø3, ø4) | |
|-------------------------------------|-----------------|-------|---|--|--|-------|
| Type capacity of indoor unit | 200 | 250 | Total type capacity of indoor unit connected after the branch | | 60-140 | 36-50 |
| Gas tube | Ø25.4 | | | | Ø15.88 | Ø12.7 |
| Liquid tube | Ø9.52 | Ø12.7 | | | Ø9.52 | Ø6.35 |
| Amount of additional charge per 1 m | 40 g | 80 g | | | 40 g | 20 g |

Single/Simultaneous operation system combinations

| Indoor size / Outdoor size | 20.0 kW | 25.0 kW |
|----------------------------|-------------|-------------|
| 3.6 kW | | |
| 4.5 kW | | |
| 5.0 kW | Double-twin | |
| 6.0 kW | | Double-twin |
| 7.1 kW | Triple | |
| 10.0 kW | Twin | |
| 12.5 kW | | Twin |
| 14.0 kW | | |
| 20.0 kW | Single | |
| 25.0 kW | | Single |



Compatible Outdoor Units

| | | | 20.0 kW | | 25.0 kW | |
|----------------------------------|------------------------|-------------------|-------------------------|--|-------------------------|--|
| Outdoor | | | U-200PE1E8 | | U-250PE1E8 | |
| Cooling capacity | Nom. (Min-Max) | kW | 20.0 (6.0-22.4) | | 25.0 (6.0-28.0) | |
| Heating capacity | Nom. (Min-Max) | kW | 21.8 (6.0-22.4) | | 28.0 (6.0-31.5) | |
| Power source | V / ph / Hz | | 380 / 415 / 3+N / 50/60 | | 380 / 415 / 3+N / 50/60 | |
| Recommended fuse | | | 15A | | 20A | |
| Recommended cable size | | m | 14 | | 14 | |
| Air Volume | Cooling/Heating | m ³ /h | 7740 | | 7080 | |
| Sound pressure level | Cooling / Heating (Hi) | dB(A) | 57 / 57 | | 57 / 58 | |
| Sound power level | (Hi) | dB | 72 | | 73 | |
| Dimensions / Net weight | H x W x D | mm / kg | 1526 x 940 x 340 / 118 | | 1526 x 940 x 340 / 128 | |
| Refrigerant circuit | | | | | | |
| Tube diameter Narrow/Wide | mm (inch) | | 9.52 (3/8) / 25.4 (1) | | 12.7 (1/2) / 25.4 (1) | |
| Max piping length | m | | 100 | | 100 | |
| Amount of additional refrigerant | g/m | | 40 | | 80 | |
| Piping connections | Liquid / Gas pipe | mm (Inch) | 9.52 (3/8) / 25.4 (1) | | 12.7 (1/2) / 25.4 (1) | |
| Refrigerant loading | | | 5.3 | | 6.5 | |
| Elevation dif. (in/out) | Max | m | 30 | | 30 | |
| Piping length | Min-Max | m | 5-100 | | 5-100 | |
| Precharge length | Max | m | 30 | | 30 | |
| Additional charge | | g/m | 40 | | 80 | |
| Operating range | Cooling Min/Max | °C | -15 / 43 | | -15 / 43 | |
| | Heating Min/Max | °C | -20 / 15 | | -20 / 15 | |

U-__E1E5 Single Phase // U-__E1E8 Three Phase

Compatible Indoor Units



S-50PK1E5 / S-60PK1E5 / S-71PK1E5



S-50PY1E5



S-50PU1E5 / S-60PU1E5 / S-71PU1E5 / S-100PU1E5 / S-125PU1E5



S-50PT1E5 / S-60PT1E5 / S-71PT1E5 / S-100PT1E5 / S-125PT1E5



S-50PN1E5 / S-60PN1E5 / S-71PN1E5 / S-100PN1E5 / S-125PN1E5



S-50PF1E5 / S-60PF1E5 / S-71PF1E5 / S-100PF1E5 / S-125PF1E5

Compatible Outdoor Units



U-200PE1E8 / U-250PE1E8

Compatible Indoor Units

| | | | 5.0 kW | 6.0 kW | 7.1 kW | 10.0 kW | 12.5 kW |
|--|---------------------|-------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| Wall | | | S-50PK1E5 | S-60PK1E5 | S-71PK1E5 | | |
| Capacity | Cooling | kW | 5.0 | 6.0 | 7.1 | | |
| | Heating | kW | 5.6 | 7.0 | 8.0 | | |
| Dimensions | H x W x D | mm | 300 x 1065 x 230 | 300 x 1065 x 230 | 300 x 1065 x 230 | | |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 40 / 36 / 32 | 47 / 44 / 40 | 47 / 44 / 40 | | |
| | Heating (Hi/Me/Lo) | dB(A) | 40 / 36 / 32 | 47 / 44 / 40 | 47 / 44 / 40 | | |
| Air Volume | Cooling / Heating | m ³ /h | 840 / 840 | 1080 / 1080 | 1080 / 1080 | | |
| 4 Way 60x60 Cassette | | | S-50PY1E5 | | | | |
| Capacity | Cooling | kW | 5.0 | | | | |
| | Heating | kW | 5.6 | | | | |
| Dimensions | Indoor H x W x D | mm | 283 x 575 x 575 | | | | |
| | Panel H x W x D | mm | 30 x 625 x 625 | | | | |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 41 / 37 / 33 | | | | |
| | Heating (Hi/Me/Lo) | dB(A) | 41 / 37 / 33 | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 750 / 750 | | | | |
| 4 Way 90x90 Cassette | | | S-50PU1E5 | S-60PU1E5 | S-71PU1E5 | S-100PU1E5 | S-125PU1E5 |
| Capacity | Cooling | kW | 5.0 | 6.0 | 7.1 | 10.0 | 12.5 |
| | Heating | kW | 5.6 | 7.0 | 8.0 | 11.2 | 14.0 |
| Dimensions | Indoor H x W x D | mm | 256 x 840 x 840 | 256 x 840 x 840 | 256 x 840 x 840 | 319 x 840 x 840 | 319 x 840 x 840 |
| | Panel H x W x D | mm | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 | 33.5 x 950 x 950 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 32 / 29 / 27 | 36 / 31 / 28 | 37 / 31 / 28 | 44 / 38 / 32 | 45 / 39 / 33 |
| | Heating (Hi/Me/Lo) | dB(A) | 32 / 29 / 27 | 36 / 31 / 28 | 37 / 31 / 28 | 44 / 38 / 32 | 45 / 39 / 33 |
| Air Volume | Cooling / Heating | m ³ /h | 960 / 960 | 1.260 / 1.260 | 1.320 / 1.320 | 1.980 / 1.980 | 2.100 / 2.100 |
| Low Static Pressure Hide Away | | | S-50PN1E5 | S-60PN1E5 | S-71PN1E5 | S-100PN1E5 | S-125PN1E5 |
| Capacity | Cooling | kW | 5.0 | 6.0 | 7.1 | 10.0 | 12.5 |
| | Heating | kW | 5.6 | 7.0 | 8.0 | 11.2 | 14.0 |
| Dimensions | H x W x D | mm | 250 x 780(+100) x 650 | 250 x 1000(+100) x 650 | 250 x 1000(+100) x 650 | 250 x 1200(+100) x 650 | 250 x 1200(+100) x 650 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 41 / 35 | 43 / 41 / 36 | 43 / 41 / 36 | 44 / 42 / 37 | 46 / 44 / 39 |
| | Heating (Hi/Me/Lo) | dB(A) | 41 / 35 | 43 / 41 / 36 | 43 / 41 / 36 | 44 / 42 / 37 | 46 / 44 / 39 |
| External static pressure | High / Medium / Low | Pa | 80 / 50 / 10 | 80 / 50 / 10 | 80 / 50 / 10 | 80 / 50 / 10 | 80 / 50 / 10 |
| Air Volume | Cooling / Heating | m ³ /h | 960 / 960 | 1320 / 1320 | 1320 / 1320 | 2160 / 2160 | 2400 / 2400 |
| Hide Away High Stratic Pressure | | | S-50PF1E5 | S-60PF1E5 | S-71PF1E5 | S-100PF1E5 | S-125PF1E5 |
| Capacity | Cooling | kW | 5.0 | 6.0 | 7.1 | 10.0 | 12.5 |
| | Heating | kW | 5.6 | 7.0 | 8.0 | 11.2 | 14.0 |
| Dimensions | H x W x D | mm | 290 x 800 x 700 | 290 x 1000 x 700 | 290 x 1000 x 700 | 290 x 1400 x 700 | 290 x 1400 x 700 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 34 / 30 / 26 | 35 / 32 / 26 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 |
| | Heating (Hi/Me/Lo) | dB(A) | 34 / 30 / 26 | 35 / 32 / 26 | 35 / 32 / 26 | 38 / 34 / 31 | 39 / 35 / 32 |
| External static pressure | High / Medium / Low | Pa | 150 / 70 / 10 | 150 / 70 / 10 | 150 / 70 / 10 | 150 / 70 / 10 | 150 / 100 / 10 |
| Air Volume | Cooling / Heating | m ³ /h | 960 / 960 | 1260 / 1260 | 1260 / 1260 | 1920 / 1920 | 2040 / 2040 |
| Ceiling | | | S-50PT1E5 | S-60PT1E5 | S-71PT1E5 | S-100PT1E5 | S-125PT1E5 |
| Capacity | Cooling | kW | 5.0 | 6.0 | 7.1 | 10.0 | 12.5 |
| | Heating | kW | 5.6 | 7.0 | 8.0 | 11.2 | 14.0 |
| Dimensions | H x W x D | mm | 210 x 910 x 680 | 210 x 1180 x 680 | 210 x 1180 x 680 | 210 x 1180 x 680 | 210 x 1595 x 680 |
| Sound pressure level | Cooling (Hi/Me/Lo) | dB(A) | 38 / 33 / 30 | 39 / 36 / 33 | 39 / 36 / 33 | 42 / 38 / 35 | 45 / 40 / 37 |
| | Heating (Hi/Me/Lo) | dB(A) | 39 / 34 / 30 | 40 / 36 / 33 | 40 / 36 / 33 | 42 / 38 / 35 | 46 / 41 / 38 |
| Air Volume | Cooling / Heating | m ³ /h | 840 / 840 | 1140 / 1140 | 1140 / 1140 | 1980 / 1980 | 2100 / 2100 |

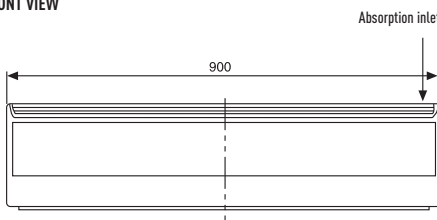
ELECTRICAL AIR CURTAIN

2 sizes for 900 mm and 1200 mm electrical air curtains. Ideal for separating areas and energy saving.

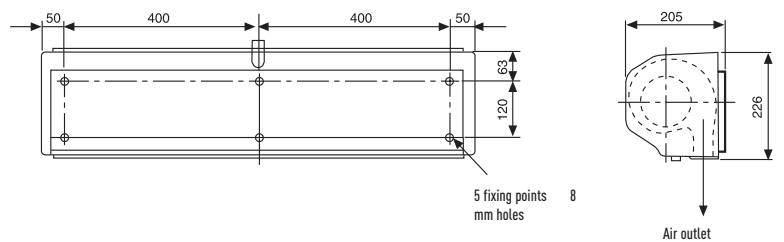
| | | | FY-10ESPNAH | FY-10ELPNAH |
|-------------|----|-------------------|-------------|-------------|
| Width | | | 900 | 1.200 |
| Watts | Hi | W | 71,5 | 96 |
| | Lo | W | 61,5 | 74 |
| Current | Hi | A | 0,40 | 0,54 |
| | Lo | A | 0,29 | 0,35 |
| Air speed | Hi | m/s | 13,0 | 13,1 |
| | Lo | m/s | 11,1 | 11,0 |
| Air volume | Hi | m ³ /h | 750 | 1.000 |
| | Lo | m ³ /h | 630 | 830 |
| Noise lever | Hi | dB(A) | 46 | 46 |
| | Lo | dB(A) | 42 | 41 |
| Weight | | | 11 | 14 |

INDOOR UNIT DIMENSIONS FY-10ESPNAH

FRONT VIEW

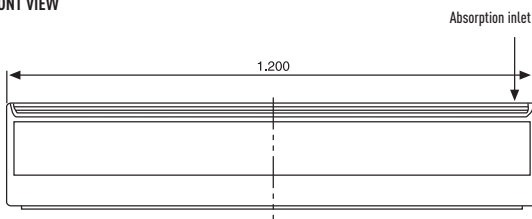


BACK VIEW

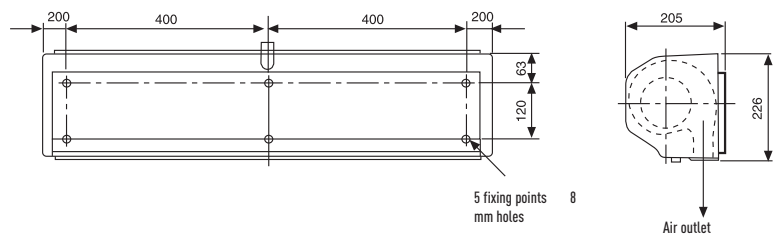


INDOOR UNIT DIMENSIONS FY-10ELPNAH

FRONT VIEW



BACK VIEW





FY-10ESPNAH // FY-10ELPNAH

Technical Focus

- 2 SIZES: 900 MM AND 1,200 mm
- POWERFUL AIR FLOW (10 m/s)
- VERY LOW NOISE, ONLY 42 dB

Features

COMFORT

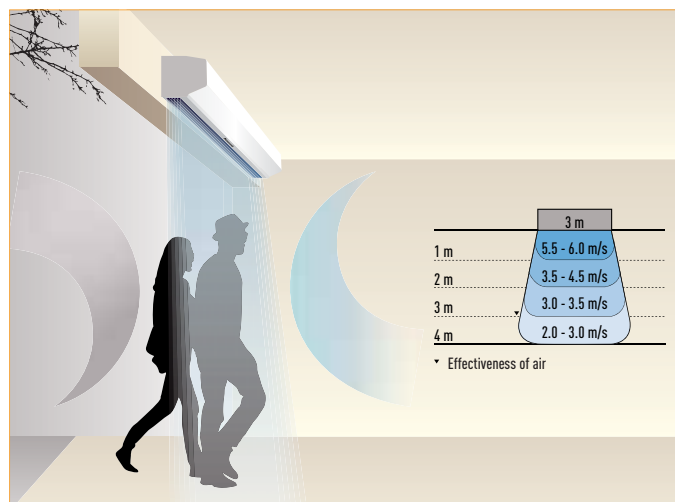
- Easy redirection of airflow by means of the manual deflector

EASE OF USE

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

EASY INSTALLATION AND MAINTENANCE

- Simple installation
- Its compact dimensions improve installation and positioning in any space



AIR CURTAIN

High efficiency Air curtain connected to your PACi installation on 1x1 connection!

Plug & Play Installation

EC Fan motor for a smooth operation and efficient performance.

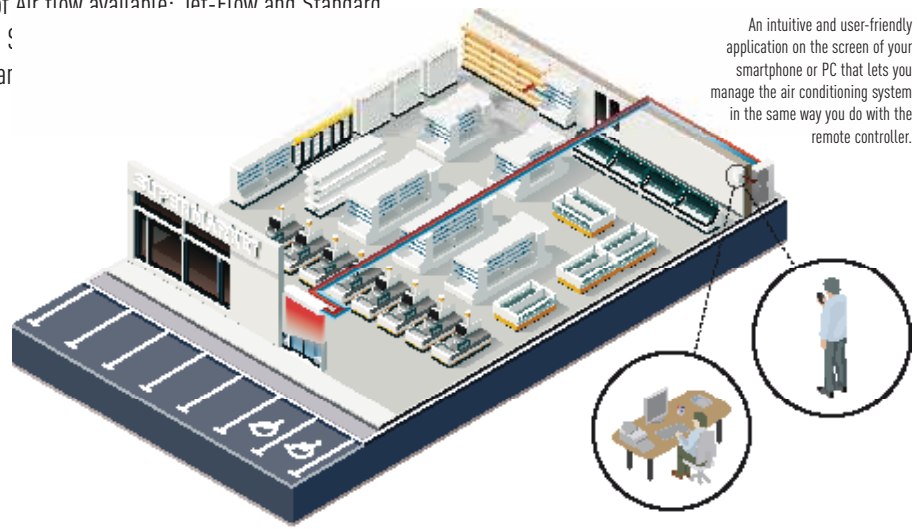
2 types of Air flow available: Jet-Flow and Standard

2015 Fan

Easy Clear

INTERNET CONTROL

An intuitive and user-friendly application on the screen of your smartphone or PC that lets you manage the air conditioning system in the same way you do with the remote controller.



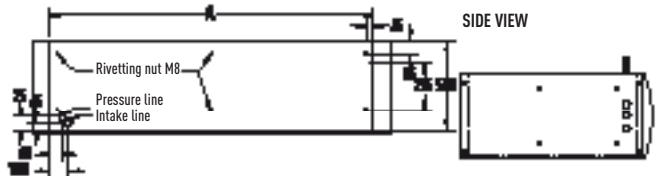
| HP | | 4 | 8 | 10 | 4 | 10 |
|--|------------------|-------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Air Curtain | | PAW-10PAIRC-MJ* | PAW-15PAIRC-MJ* | PAW-20PAIRC-MJ* | PAW-10PAIRC-MS* | PAW-20PAIRC-MS* |
| Air flow type | | Jetflow | | | Standard | |
| Air Volume | High / Med / Low | m ³ /h | 2700 / 1900 / 1200 | 3600 / 2500 / 1600 | 5400 / 3800 / 2400 | 2700 / 1900 / 1200 |
| Air flow length (A) | | m | 1.0 | 1.5 | 2.0 | 1.0 |
| Heating capacity max (at air in 20 °C) | | kW | 12.47 | 19.55 | 29.99 | 12.47 |
| Max Installation high | | m | 2.7 | 2.7 | 2.7 | 2.4 |
| Refrigerant | | | R410A | R410A | R410A | R410A |
| Hot gas temperature | | °C | 70 | 70 | 70 | 70 |
| Pressure | | bar | 45 | 45 | 45 | 45 |
| Tubing suction | | mm | 16 | 18 | 22 | 16 |
| Tubing pressure | | mm | 10 | 10 | 10 | 10 |
| Fan | | | 230 V / 50 Hz / 1 / N / PE | 230 V / 50 Hz / 1 / N / PE | 230 V / 50 Hz / 1 / N / PE | 230 V / 50 Hz / 1 / N / PE |
| Fan type | | | EC | EC | EC | EC |
| Current | High / Med / Low | 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 | High / Med / Low | 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 | M16A |
| Noise | | dB(A) | 40-55 | 40-56 | 40-57 | 40-55 |
| Dimensions | L x H x D | mm | 1210 x 260 x 590 | 1710 x 260 x 590 | 2210 x 260 x 590 | 1210 x 260 x 490 |
| Weight | | kg | 70 | 100 | 138 | 60 |

| | | | | | |
|---|---------------|------------|------------|---------------|------------|
| Outdoor combination with PACi Elite unit | U-100PE1E5/8 | U-200PE1E8 | U-250PE1E8 | U-100PE1E5/8 | U-250PE1E8 |
| Outdoor combination with PACi Standard unit | U-100PEY1E5/8 | | | U-100PEY1E5/8 | |

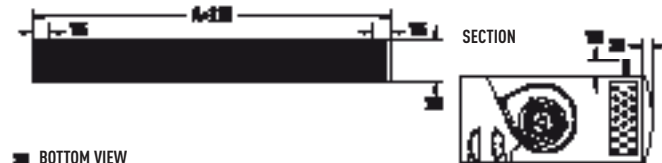
* Available from April 2013.

JETFLOW DIMENSIONS

TOP VIEW



FRONT VIEW



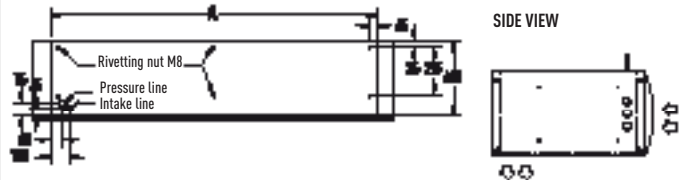
BOTTOM VIEW



| | PAW-10PAIRC-MJ | PAW-15PAIRC-MJ | PAW-20PAIRC-MJ |
|---|----------------|----------------|----------------|
| A | 1000 | 1500 | 2000 |

STANDARD DIMENSIONS

TOP VIEW



FRONT VIEW



BOTTOM VIEW



| | PAW-10PAIRC-MS | PAW-20PAIRC-MS |
|---|----------------|----------------|
| A | 1000 | 2000 |



JET-FLOW: PAW-10PAIRC-MJ // PAW-15PAIRC-MJ // PAW-20PAIRC-MJ

Technical Focus

- PLUG & PLAY INSTALLATION
- SAVE UP TO 40% ENERGY COSTS BY USE OF THE INTEGRATED EC FAN TECHNOLOGY
 - HIGHER EFFICIENCY CONVENTIONAL AC FAN
 - SOFTSTART
 - LONGER MOTOR DURATION
- 3 LENGTHS OF AIR CURTAINS, FROM 1,0 TO 2,0 m
- INSTALLATION HEIGHT UP TO 2,7 m
- OUTLET GRILLES CAN BE ADJUSTED IN FIVE POSITIONS, TO SUITE DIFFERENT INDOOR AND INSTALLATION REQUIREMENTS
- CONTROL WITH PANASONIC REMOTE CONTROL SYSTEMS (OPTIONAL)
- DIRECT INTEGRATION TO BMS BY OPTIONAL PANASONIC INTERFACES

STANDARD: PAW-10PAIRC-MS // PAW-20PAIRC-MS

Technical Focus

- PLUG & PLAY INSTALLATION
- SAVE UP TO 40% ENERGY COSTS BY USE OF THE INTEGRATED EC FAN TECHNOLOGY
 - HIGHER EFFICIENCY CONVENTIONAL AC FAN
 - SOFTSTART
 - LONGER MOTOR DURATION
- 2 LENGTHS OF AIR CURTAINS, 1,0 AND 2,0 m
- INSTALLATION HEIGHT UP TO 2,4 m
- CONTROL WITH PANASONIC REMOTE CONTROL SYSTEMS (OPTIONAL)
- DIRECT INTEGRATION TO BMS BY OPTIONAL PANASONIC INTERFACES

Features

COMFORT

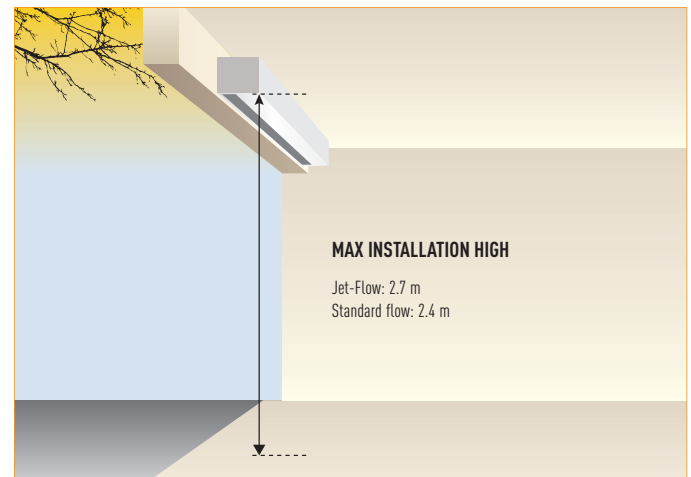
- Easy redirection of Air-Flow by means of manual deflector (Jet-Flow)

EASE OF USE

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

EASY INSTALLATION AND MAINTENANCE

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



AIR HANDLING UNIT Kit

5-21.00.13 kW for PACi

NEW AHU KIT CONNECT PACi OUTDOOR UNITS TO AIR HANDLING UNITS SYSTEM.



Panasonic AHU kit have large connectivity possibilities in order to be easily integrated.

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

AHU CONNECTION KIT



PCB, Power trans, Terminal block



Remote control can be easily installed on the AHU box. Remote control must be purchase separately.



Thermistor x2 (Refrigerant: E1, E2)



Thermistor x1 (Air: Tf)

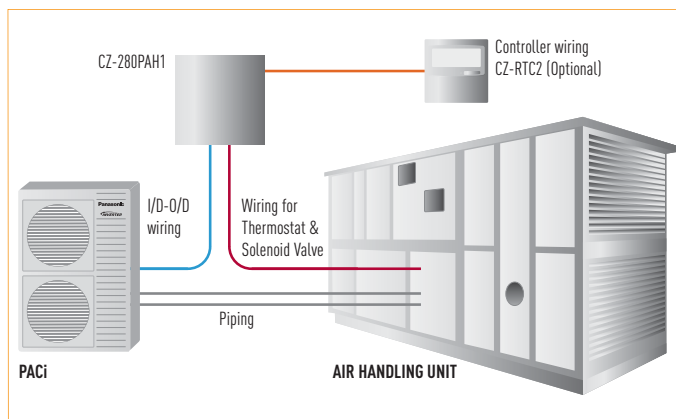
REMOTE CONTROLLER



Standard wired remote controller. Optional

Panasonic AHU Kit, 5-28 kW connected to PACi outdoor unit

PCB, Transformer, Thermostat x 3 pcs, Terminal Base and Electrical Component Box.



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

CZ-RTC2 Wired remote controller

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

* Fan operation signal can be taken from the PCB.

CZ-T10 terminal

- Input signal= Operation ON/OFF
- Remote controller prohibition
- Output signal= Operating-ON status
- Alarm output (by DC12 V)

PAW-OCT, DC12 V outlet. OPTION terminal

- Output signal= Cool / Heat/Fan status
- Defrost
- Thermostat-ON

CZ-CAPBC2 Mini seri-para I/O unit

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






COMBINATION TABLE FOR PACi SINGLE OUTDOOR UNIT

Combination shown in below table is available for PACi single system

| Power | Size | PACi Standard | PACi Elite | AHU kit |
|--------------|---------|---------------|------------|--|
| Single phase | 5.0 kW | | U-50PE1E5 | CZ-280PAH1 (Common use for all outdoor units. Only 1 by 1 connection is allowed.) |
| | 6.0 kW | U-60PEY1E5 | U-60PE1E5 | |
| | 7.1 kW | U-71PEY1E5 | U-71PE1E5 | |
| | 10.0 kW | U-100PEY1E5 | U-100PE1E5 | |
| | 12.5 kW | U-125PEY1E5 | U-125PE1E5 | |
| Three phase | 14.0 kW | | U-140PE1E5 | |
| | 7.1 kW | | U-71PE1E8 | |
| | 10.0 kW | U-100PEY1E8 | U-100PE1E8 | |
| | 12.5 kW | U-125PEY1E8 | U-125PE1E8 | |
| | 14.0 kW | U-140PEY1E8 | U-140PE1E8 | |
| | 25.0 kW | | U-200PE1E8 | |
| | 20.0 kW | | U-250PE1E8 | |

* Additional notice/instruction for system design, installation work will be defined for PAC-i connection.









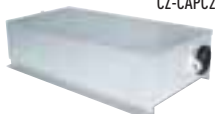



| OPERATION SYSTEM | INDIVIDUAL CONTROL SYSTEMS | | | | TIMER OPERATION |
|-----------------------------------|---|--|--|---|---|
| Requirements | Normal operation | Operation from each seat | Quick and easy operation | | Daily and weekly program |
| External appearance |  |  |  |  |  |
| Type, model name | Timer Remote Controller (Wired) CZ-RTC2 | Wireless Remote Controller CZ-RWSU2 CZ-RWSY2 CZ-RWSL2 CZ-RWSC2 CZ-RWST2 CZ-RWSK2 | Simplified Remote Controller CZ-RE2C2 | Backlight remote controller CZ-RELC2 | Schedule Timer CZ-ESWC2 |
| Built-in Thermostat | ✗ | ✗ | ✗ | | |
| N. of I_0 which can be controlled | 1 group, 8 units | 1 group, 8 units | 1 group, 8 units | | 64 groups, max. 64 units |
| Use limitations | · Up to 2 controllers can be connected per group. | · Up to 2 controllers can be connected per group. | · CZ-RE2C2: up to 2 controllers can be connected per group. · CZ-RELC2: can not operate other (SUB) remo-con. | | · Required power supply from the system controller · When there is no system controller, connection is possible to the T10 terminal of an indoor unit. |
| Function ON/OFF | ✗ | ✗ | ✗ | | — |
| Mode setting | ✗ | ✗ | ✗ | | — |
| Fan speed setting | ✗ | ✗ | ✗ | | — |
| Temperature setting | ✗ | ✗ | ✗ | | — |
| Air flow direction | ✗ | ✗ ¹ | ✗ ¹ | | — |
| Permit/Prohibit switching | — | — | — | | — |
| Weekly program | ✗ | — | — | | ✗ |

1. Setting is not possible when a remote control unit is present. (Use the remote control for setting.)
All specifications subject to change without notice.

Control Systems for PACi

A WIDE VARIETY OF CONTROL OPTIONS TO MEET THE REQUIREMENTS OF DIFFERENT APPLICATIONS.

CENTRALIZED CONTROL SYSTEMS

| Operation with various function from center station | Only ON/OFF operation from center station | Simplified load distribution ratio (LDR) for each tenant | BMS System. PC Base | Connection with 3rd Party Controller |
|--|--|--|--|---|
|  |  |  |  |  |
| System Controller | ON/OFF Controller | Intelligent Controller (Touch screen panel) | P-AIMS. Basic Software CZ-CSWKC2 | Seri-Para I/O unit for outdoor unit CZ-CSWKC2 |
| CZ-64ESMC2 | CZ-ANC2 | CZ-256ESMC2 (CZ-CFUNC2) | Optional software  | Local adaptor for ON/OFF control CZ-CAPC2  |
| — | — | — | CZ-CSWAC2 for Load distribution. CZ-CSWWC2 for Web application. CZ-CSWGC2 for Object layout display. CZ-CSWBC2 for BAC net software interface. *PC required (field supply) | MINI Seri-Para I/O Unit CZ-CAPBC2  |
| 64 groups, max. 64 units | 16 groups, max. 64 units | 64 units x 4 systems, max. 256 units | Web Interface Systems CZ-CWEBC2 *PC required (field supply)  | Communication Adaptor CZ-CFUNC2  |
| <ul style="list-style-type: none"> Up to 10 controllers, can be connected to one system. Main unit/sub unit (1 main unit + 1 sub unit) connection is possible. Use without remote controller is possible. | <ul style="list-style-type: none"> Up to 8 controllers (4 main units + 4 sub units) can be connected to one system. Use without remote controller is impossible. | <ul style="list-style-type: none"> A communication adaptor (CZ-CFUNC2) must be installed for three or more systems. | | |
| X | X | X | | |
| X | — | X | | |
| X | — | X | | |
| X | — | X | | |
| X ¹ | — | X ¹ | | |
| X | X | X | | |
| — | — | X | | |

Individual Control Systems

Timer remote controller (CZ-RTC2)



Dimensions
H 120 x W 120 x D 16 mm

Basic remote controller ON/OFF

- Operation mode changeover (Cooling, Heating, Dry, Auto, Fan).
- Temperature setting (Cooling/Dry: 18-30 deg Heating: 16-30 deg).
- Fan speed setting H/ M/ L and Auto.
- Air flow direction adjustment.

Time Function 24 hours real time clock

- Day of the week indicator.

Weekly Programme Function

- A maximum of 6 actions can be programmed for each day.

Outing Function

- This function can prevent the room temperature from dropping or rising when the occupants are out for a long time.

Sleeping Function

- This function controls the room temperature for comfortable sleeping.

Max. 8 indoor units can be controlled from one remote controller

Remote control by main remote controller and sub controller is possible

Max. 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit.

Possible to connect to the outdoor unit using PAW-MRC cable for servicing purposes

Wireless remote controller



Y1 TYPE

CZ-RWSY2



U1 TYPE

CZ-RWSU2



L1 TYPE

CZ-RWSL2



K1 TYPE

CZ-RWSK2



D1 AND T1 TYPE

CZ-RWST2



WIRELESS REMOTE CONTROL FOR ALL INDOOR UNITS

CZ-RWSC2

Easy installation for the 4-way cassette type simply by replacing the corner part

24 hour timer function

Remote control by main remote controller and sub controller is possible

- Max. 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit.

When CZ-RWSC2 is used, wireless control becomes possible for all indoor units

- When a separate receiver is set up in a different room, control from that room also becomes possible.
- Automatic operation by means of the emergency operation button is possible even when the remote controller has been lost or the batteries have been exhausted.

Operation of separate energy recovery ventilators

When commercial ventilation fans or heat-exchange ventilation fans have been installed, they can be operated with this remote control (interlocked operation with the indoor unit or independent ventilation ON/OFF).

Simplified remote controller (CZ-RE2C2)



Dimensions
H 120 x W 70 x D 16 mm

A remote controller with simple functions and basic operation

- Suitable for open rooms or hotels where detailed functions are not required.
- ON/OFF, operation mode switching, temperature setting, wind velocity switching, wind direction setting, alarm display, and remote controller self-diagnosis can be performed.
- Batch group control for up to 8 indoor units.
- Remote control by main remote controller and sub controller is possible with a simplified remote controller or a wired remote controller (up to two units).

Backlight remote controller (CZ-RELC2)



Dimensions
H 120 x W 70 x D 16 mm

Backlight remote controller with simple and friendly operation

- ON/OFF, operation mode switching, temperature setting, wind velocity switching, wind direction setting, alarm display can be performed. LCD backlight display.
- Built-in temp sensor and batch group control for up to 8 indoor units.

Remote sensor (CZ-CSRC2)



- This remote sensor can be connected to any indoor unit. Please use it to detect the room temperature when no remote controller sensor or body sensor is used. (connection to a system without a remote controller is possible).
- For joint use with a remote control switch, use the remote control switch as main remote controller.
- Batch group control for up to 8 indoor units.

| CONTROL CONTENTS | PART NAME, MODEL NO. | QUANTITY |
|--|---|-------------|
| Standard Control • Control of the various operations of the indoor unit by wired or wireless remote controller. • Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller. • Switching between remote controller sensor and body sensor is possible. | Timer remote controller CZ-RTC2 // CZ-RE2C2 // CZ-RELC2 Wireless remote controller CZ-RWSY2 // CZ-RWSU2 // CZ-RWSL2 // CZ-RWSG2 CZ-RWSK2 // CZ-RE2C2 | 1 unit each |
| (1) Group control • Batch remote control on all indoor units. • Operation of all indoor cells in the same mode. • Up to 8 units can be connected. | Timer remote controller CZ-RTC2 // CZ-RE2C2 Wireless remote controller CZ-RWSY2 // CZ-RWSU2 // CZ-RWSL2 // CZ-RWSG2 CZ-RWSK2 // CZ-RE2C2 | 1 unit |
| (2) Main/sub remote control • Max 2 remote controllers per indoor unit. • The button pressed last has priority. • Timer setting is possible even with the sub remote controller. | Main or sub. Timer remote controller CZ-RTC2 Wireless remote controller CZ-RWSY2 // CZ-RWSU2 // CZ-RWSL2 // CZ-RWSG2 CZ-RWSK2 // CZ-RE2C2 | As required |

INTERNET CONTROL. CONTROL YOUR AIR CONDITIONING SYSTEM WITH YOUR SMART DEVICE -SMARTPHONE & INTERNET FOR PACI



Control your comfort and efficiency with the lowest energy consumption

What's 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.

Simple Installation

Just connect the Internet Control device to the air conditioner or heat pump with the supplied wire and then link it to your WIFI Access point.

Internet Control. Easy to install. Maximum benefit

Internet Control is underlined with the slogan "Your home in the cloud", meaning a simple and easy to handle solution has been considered for every user to manage the device, not requiring any communication or computer skills.

No servers. No adaptors. No wires. Just a small box is needed to be connected and placed close to the air conditioning indoor unit... and your smartphone, tablet or PC.

Start the App from your smartphone device, your tablet or your computer, and enjoy a new experience in comfort. An intuitive and user-friendly application on the screen of your smartphone or PC that lets you manage the air conditioning unit in the same way you do with the remote controller. Internet Control can be downloaded in Apple's AppStore and Android's PlayStore.

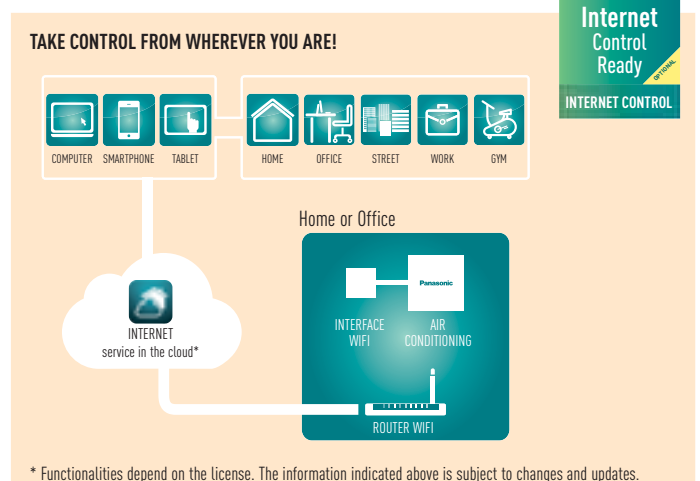
Control your air conditioning with the smart internet control device via smartphones, tablet, PC and smart desktop phone via internet

Offering the same functions as if you were at home or office: start/stop, Mode Operation, Set Temperature, Room Temperature etc as well as the new, advanced functionality provided by Internet Control to achieve the best comfort and efficiency with the lowest energy consumption.



Study Case. Alice, Shop Owner

"I want maximum comfort and the best savings for my shop. And I manage to get these in the easiest and most natural way possible. From my smartphone, something I always carry with me, I can control the temperature of my shop and in this way, as well as maintaining an ideal temperature I also save a small fortune in electricity at the end of the year."



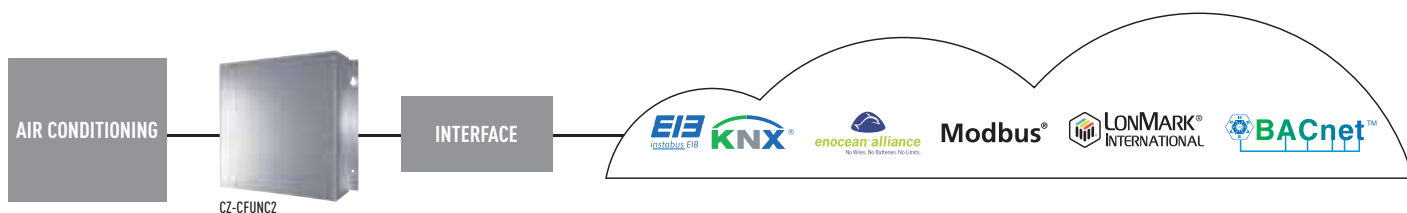
* Functionalities depend on the license. The information indicated above is subject to changes and updates.

PACi CONNECTIVITY. EASY CONNECTION TO KNX, ENOCEAN, MODBUS, LONWORKS AND BACNET



Easy control by BMS
CONNECTIVITY

Panasonic Partners have designed solutions specifically for Panasonic air conditioners, and provide complete monitoring, control and full functionality of the entire Commercial line-up from KNX / EnOcean / Modbus / LonWorks / BACnet installations. Great flexibility for integration into your KNX / EnOcean / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters. For more information, contact Panasonic.



| | PANASONIC MODEL NAME | INTERFACE | CONNECTED ON P-LINK OR IN THE INDOOR UNIT | MAX NUMBER OF INDOOR UNITS CONNECTED |
|--------------------------|----------------------|-------------|---|--------------------------------------|
| ECOi / PACi indoor units | PAW-RC2-KNX-1i | KNX | Indoor unit | 1 (1 Group of Indoor units) |
| | PAW-RC2-MBS-1 | Modbus RTU* | Indoor unit | 1 (1 Group of Indoor units) |
| | PAW-RC2-ENO-1i | EnOcean | Indoor unit | 1 (1 Group of Indoor units) |
| | PA-RC2-WIFI-1 | IntesisHome | Indoor unit | 1 (1 Group of Indoor units.) |

* Interface Modbus RTU/TCP is needed

Communication adaptor (CZ-CFUNC2)

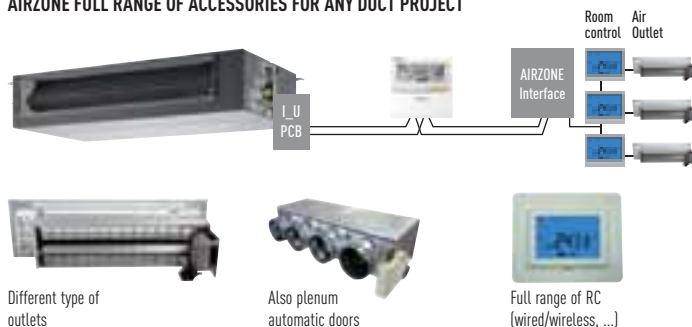
This communication interface is required to connect a ECOi and GHP systems to a BMS. An additional interface is needed to convert the information into KNX/Modbus/Bacnet language. CZ-CFUNC2 is very easy to operate and to connect to the Panasonic P-link, which is the ECOi bus. From the CZ-CFUNC2, all the indoor and outdoor units of the installation can be easily control. Two linked wiring systems can be connected to one CZ-CFUNC2. Dimensions: H 260 x W 200 x D 68 mm

* As this is not a splash-proof design, it must be installed indoors or in the control panel, etc.

AIRZONE. CONTROL OF THE PACI HIDE AWAYS

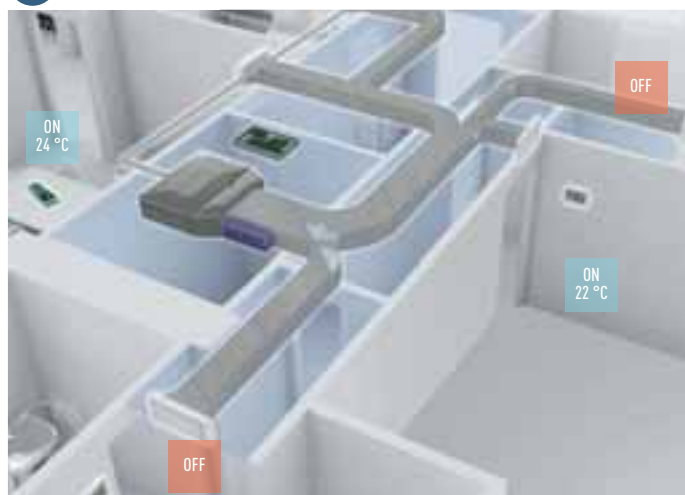
Airzone has developed interfaces to easily connect to Panasonic PACi Hide Away units. Ensuring optimum performance, comfort and energy savings, the new system is efficient and easy to install.

AIRZONE FULL RANGE OF ACCESSORIES FOR ANY DUCT PROJECT

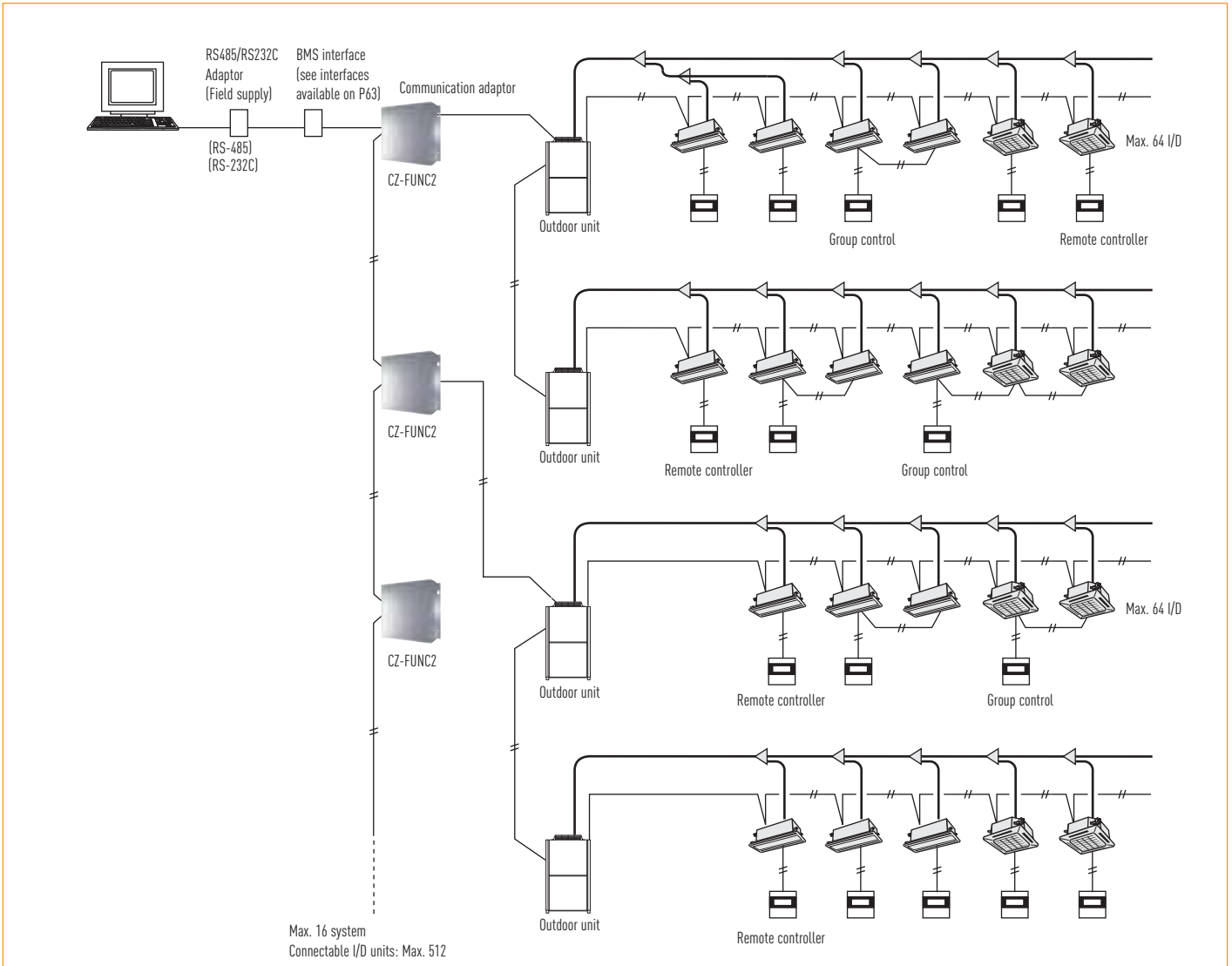


Interface dimensions: 120 x 25 x 65 cm (W x H x D). Interfaces must be purchased direct from Airzone.

AIRZONE



Example of BMS connection for air conditioner central control system



| | |
|-------------------|--------------------------|
| A/C unit settings | Unit ON/OFF |
| | Mode-change |
| | Room temperature setting |
| | Fan speed setting |
| | Flap setting |
| | Central control setting |
| | Filter-sign clear |
| | Alarm reset |
| A/C unit status | Unit ON/OFF status |
| | Operation mode |
| | Setting temperature |
| | Fan speed status |
| | Flap status |
| | Central control setting |
| | Filter-sign situation |
| | Correct/incorrect status |
| Alarm code | |

PACi Connectivity indoor units

T10 connector (CN015)

| PCB'S AND CABLES FOR PACi/VRF INDOOR UNITS | | |
|--|-------------------------------------|---|
| NAME OF THE CABLES | FUNCTION | COMMENT |
| CZ-T10 | All T10 functions | Requires field supplied accessory |
| PAW-FDC | Operate external fan | Requires field supplied accessory |
| PAW-OCT | All option monitoring signals | Requires field supplied accessory |
| PAW-EXCT | Forced Thermo OFF/Leakage D. | Requires field supplied accessory |
| NAME OF THE PBC | FUNCTION | COMMENT |
| PAW-T10 | All T10 functions | Allows easy connection "Plug & Play" |
| PAW-T10V | All T10 functions + powermonitoring | Same like PAW-T10 + monitoring the power supply of indoor unit |
| PAW-T10H | ON/OFF; Prohibit 5VDC & 230VAC | Specials for single hotel card or window contact |
| PAW-T10HW | ON/OFF; Prohibit 5VDC | For hotel card + window contact at same time |
| PAW-PACR2 | Redundancy of 2 systems; T monitor | Redundancy of 2 PACi systems including temperature monitoring an equal operating time |
| PAW-PACR3 | Redundancy of 3 systems; T monitor | Redundancy of 3 PACi systems including temperature monitoring an equal operating time |
| PAW-ECF | Fan speed control external EC fan | For external production Air Curtain units allow the EC fan control by standard VRF IU PCB |

CZ-T10: Panasonic has developed an optional accessory (consisting of plug + wires) called CZ-T10 to enable an easy connection to this T10 connector.

Connecting an ECOi indoor unit to an external device is easy. The T10 terminal featured in the electronic circuit board of all indoor units enables digital connection to external devices.

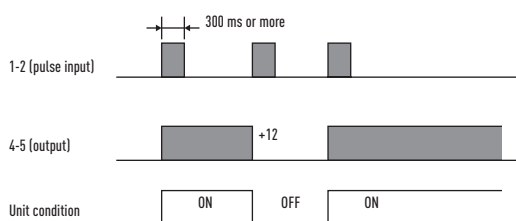


EXAMPLE OF APPLICATIONS



T10 terminal Specification (T10: CN015 at indoor unit PCB)

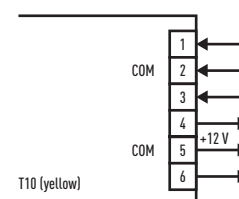
- Control items:
 1. Start/stop input
 2. Remote controller prohibit input
 3. Start signal output
 4. Alarm signal output



NOTE: The wire length from indoor unit to the Relay must be within 2.0 m. Pulse signal changeable to static with JP cutting. (Refer to JP001)

- Condition
 - 1-2 (Pulse input): Unit ON/OFF condition switching with a pulse signal. (1 pulse signal: shortage status more than 300 msec. or more)
 - 2-3 (Static input): Open / Operation with Remote is permitted. (Normal condition) Close / Remote controller is prohibited.
 - 3-4 (Static output): 12 V output during the unit ON. / No output at OFF.
 - 4-5 (Static output): 12 V output when some errors occur / No output at normal.

Example of wiring

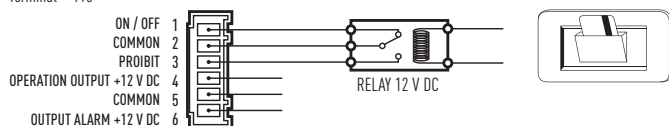


Usage Example Forced OFF control

Term 1 & 2: Free contact for ON/OFF signal (cut *JP1* for static signal) when the hotel card is it connected the contact must be close (the unit can be used).

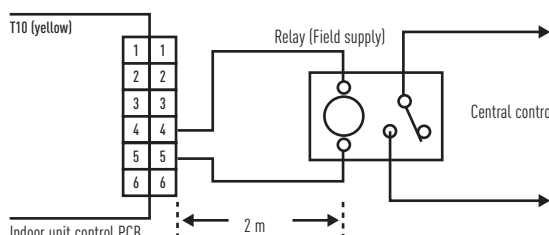
Term 2 & 3: Free contact to prohibit all function in the remote controller install in the room when the hotel card is it removed the contact must be closed (the unit can not work).

Terminal = T10



Operation ON/OFF signal output

- Condition:
 - 4-5 (Static output): 12 V output during the unit ON / No output at OFF
- Example of wiring



NOTE: The wire length from indoor unit to the Relay must be within 2.0 m. Pulse signal changeable to static with JP cutting. (Refer to JP001)

Fan Drive Connector (CN017)

PAW-FDC: Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-FDC to enable an easy connection to this Fan Drive Connector (CN017).



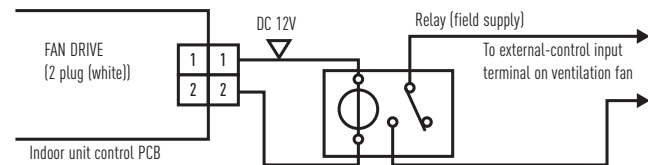
Operating the ventilation fan from the remote controller

- Start / stop of external ventilation and total heat exchanger fans
- Works even if indoor unit is stopped
- In case of group control → all fans will operate; no individual control



EXTERNAL FAN ON / OFF

Ventilation button



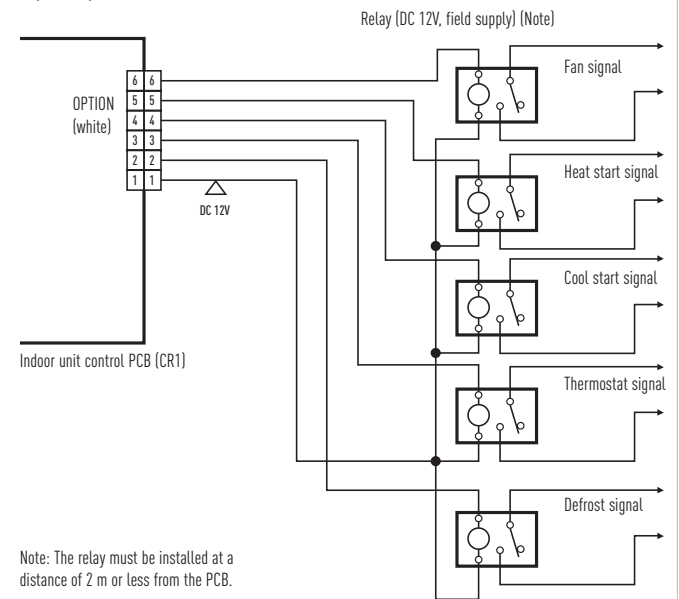
Option Connector (CN060) Output external signals



PAW-OCT: Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-OCT to enable an easy connection to this Option Connector (CN060).

With the combination of the T10 and the option CN060 an external control of the I_U is possible!

6P (WHITE): OUTPUTS EXTERNAL SIGNALS AS SHOWN IN THE FIGURE BELOW.



EXCT Connector (CN009)

PAW-EXCT: Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-EXCT to enable an easy connection to this EXCT Connector (CN009).

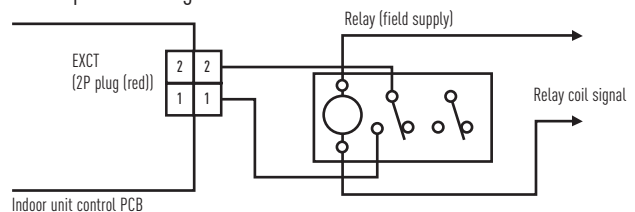
A) With static input

→ **STATIC INPUT** → **THERMO OFF** → **ENERGY SAVING**

2P plug (red): Can be used for demand control. When input is present, forces the unit to operate with the thermostat OFF.

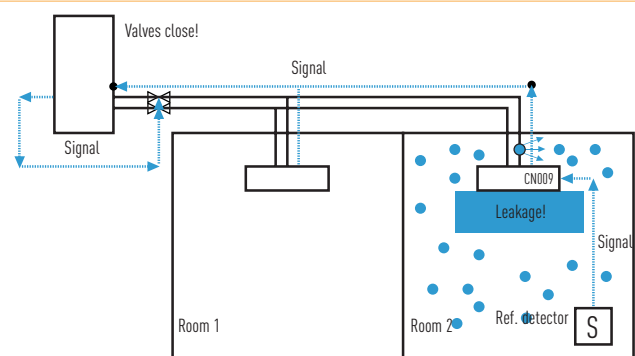
Note: The length of the wiring from the indoor unit control PCB to the relay must be 2m or less.
* Lead wire with 2P plug (special—order part: WIRE K/854 05280 75300)

• Examples of wiring:



B) Example: In connection with a refrigerant sensor

- Signal from leakage detector: non voltage, static.
- Indoor unit setting: Code 0b → 1
- Connector for leak detector: EXCT
- Outdoor unit setting:
 - Code C1 → 1 power output if alarm from O2 connector 230 V
 - Code C1 → 2 power output if alarm from O2 connector 0 V
- Displayed alarm message P14



R22 RENEWAL

Reduce the
damage to
our ozone

R22 RENEWAL

Why renewal?

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 starting from Jan 1st 2010 the use of Virgin (new) R22 refrigerant is banned within the European Community.

Panasonic are doing our part

We at Panasonic are also doing our part – recognising that all finances are under pressure at the moment. Panasonic have 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 manufactures 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. The installation can also qualify for the government's ECA (Enhanced Capital Allowance Scheme) which enables you to offset the cost against your Capital Gains Tax.

Yes...

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
- Simple...

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 type and PEY1 type outdoor unit to reuse the existing refrigerant piping without cleaning when obtained a

certain condition. Make sure that the requirements under the section "Notes on Reuse of Existing Refrigerant Piping", "Measurement Procedure for Renewal" and "Refrigerant Piping Size and Allowable Piping Length" will be satisfied in order to carry out .

Also, check the items with regard to section "Safety" and "Cleaning".

1. 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 is another purpose use than the air conditioner, the existing refrigerant piping cannot be used.

2. Safety

- If there is a hollow, crack or corrosion on the piping, make sure to install a new piping.
- If the existing piping is other than capable of reuse of piping as shown in the flowchart, make sure to install a new piping.
- In case of multiple operation type, use our genuine branch piping for refrigerant R410A.

A local supplier shall assume responsibility for the defects and hollows on the reuse of existing piping surface and recognition of reliability of the piping strength. There is no guarantee that we take responsibility for such damages.
The operational pressure of the refrigerant R410A becomes higher compared to R22. In the worst case, a lack of compressive strength may lead to piping explosion.

3. Cleaning

- When the refrigerant oil used for the existing unit is other than the listed below, make sure to install a new piping or wash it thoroughly before reusing it.
[Mineral Oil] SUNISO, FIORE S, MS
[Synthesized oil] alkyl benzene oil (HAB, parallel freeze), ester oil, ether oil (PVE only)

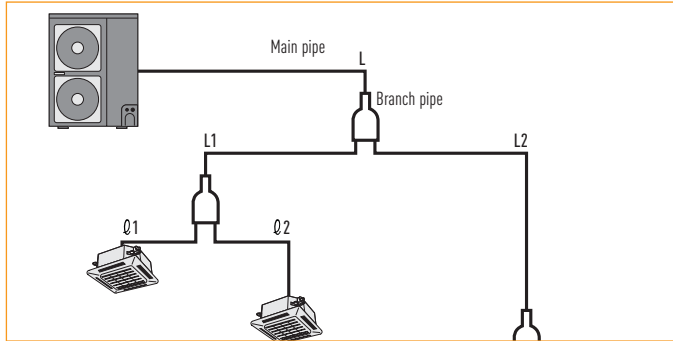
If the existing unit is GHP type, it is necessary to wash the piping thoroughly.

- If the existing pipes in the outdoor and indoor units remain disconnected, make sure to install a new piping or wash it thoroughly before reusing it.
- If the discolored oil or residue remains in the existing piping, make sure to install a new piping or wash it thoroughly before reusing it. See "Deterioration Criteria for Refrigerant Oil" in table 3.
- If the compressor of the existing air conditioner has a failure history, make sure to install a new piping or wash it through thoroughly before reusing it.

When reusing the existing piping as it is without removing dirt and dust, inadequate piping could result a renewal appliance in failure.

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.



| Capacity class | Standard piping size | |
|---------------------|----------------------|----------|
| | Liquid pipe | Gas pipe |
| Type 50 | Ø6.35 | Ø12.7 |
| Type from 60 to 140 | Ø9.52 | Ø15.88 |
| Type 200 | Ø9.52 | Ø25.4 |
| Type 250 | Ø12.7 | |

- 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, L1 - L4 piping.
- Be sure to use our genuine branch piping for refrigerant R410A.

1. In case of single unit

It is no necessary to charge with additional refrigerant until the charge less pipe length in the table 2.

If the pipe length is exceeding the charge less pipe length, charge with additional refrigerant amount per 1 m according to the equivalent length.

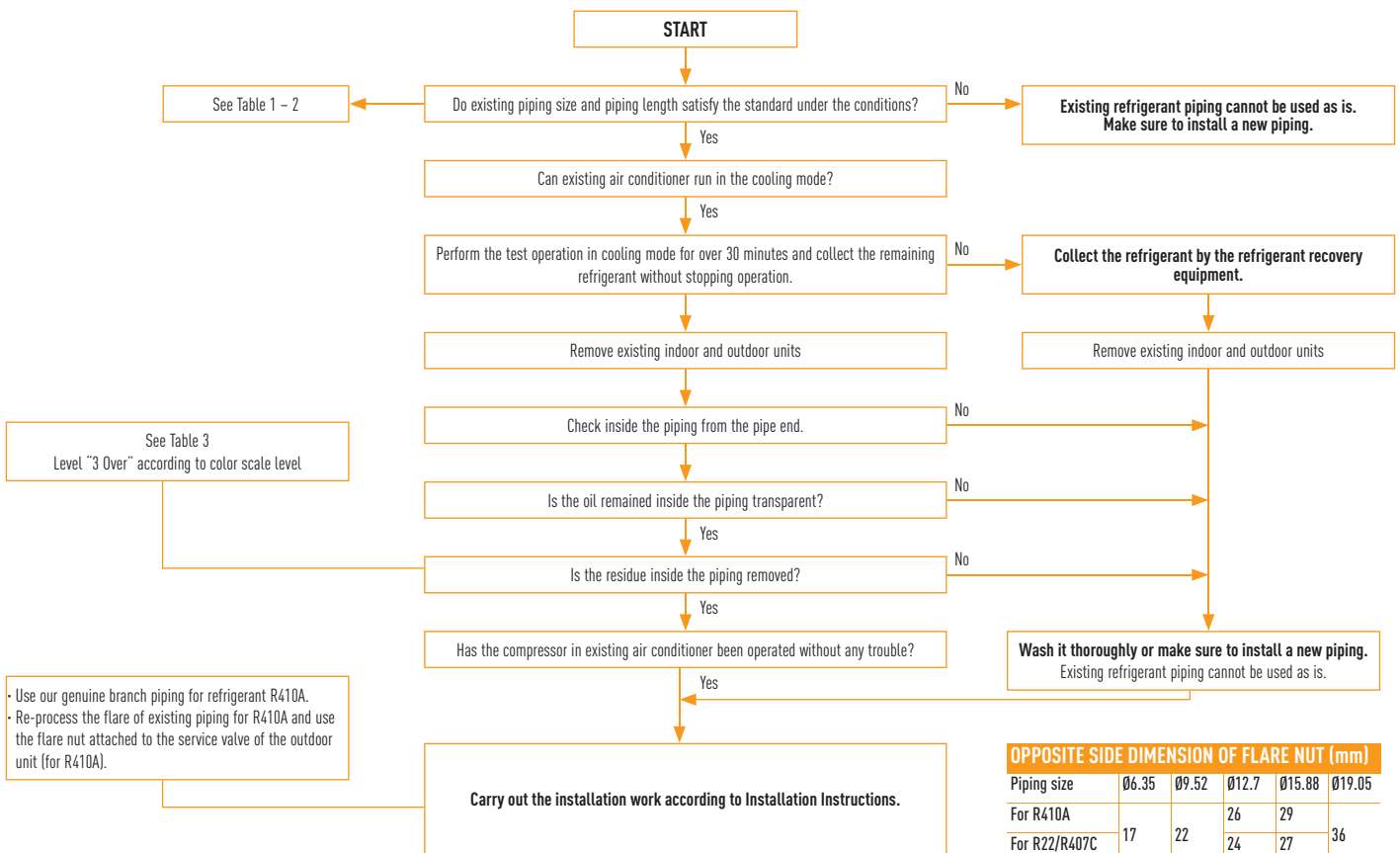
2. In case of simultaneous operation of multiple units

Calculate the refrigerant charging amount according to the calculating method of the standard piping diameter.

As to the additional refrigerant charging amount per 1 m, refer to the additional amount in the table 2.

Measurement Procedure for Renewal

Observe the followings when reusing the existing piping or carrying out renewal installation work. Flowchart of Existing Piping Measures Criteria for PE1 Type and PEY1 Type Outdoor Unit



Refrigerant Piping Size and Allowable Piping Length

Check if reuse of existing refrigerant piping is possible based on the following chart.

The standards other than this one (difference of elevation, etc.) is identical to the requirements of ordinary refrigerant piping.

| TABLE 1 REUSABLE EXISTING PIPING (mm) | | | | | | | | |
|---------------------------------------|-------|-------|-------|--------|-----------|--------|-------|--------|
| Material | 0 | | | | 1/2 H, H* | | | |
| External diameter | Ø6.35 | Ø9.52 | Ø12.7 | Ø15.88 | Ø19.05 | Ø22.22 | Ø25.4 | Ø28.58 |
| Thickness | 0.80 | 0.80 | 0.80 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

* It is impossible to reuse the size of Ø19.05, Ø22.22, Ø25.4 and Ø28.58 for material 0. Change to material 1/2H or material H.

| TABLE 2 - 1 REFRIGERANT PIPING SIZE: 3.6 - 14.0 kW TYPE (mm) | | | | | | | | | |
|--|--|--------|----------------------------|---------------------|---------------------|----------------------------|---------------------|---------------------|---------------------|
| Liquid pipe | | Ø6.35 | | | Ø9.52 | | | Ø12.7 | |
| Gas pipe | | Ø9.52 | Ø12.7 | Ø15.88 | Ø12.7 | Ø15.88 | Ø19.05 | Ø15.88 | Ø19.05 |
| PE | Type 50 | ✗ | Standard 40 m (30 m) | ⊙ 40 m (30 m) | □ 20 m (15 m) | □ 20 m (15 m) | ✗ | ✗ | ✗ |
| | Type 60 Type 71 | ✗ | ▽ 10 m (10 m) | □ 10 m (10 m) | ▽ 30 m (20 m) | Standard 50 m (20 m) | ✗ | □ 25 m (10 m) | ✗ |
| Additional refrigerant charging amount per 1 m | | 20 g/m | | | 40 g/m | | | 80 g/m | |
| PE | Type 60 Type 71 | ✗ | ▽ 10 m (10 m) | □ 10 m (10 m) | ▽ 30 m (30 m) | Standard 50 m (30 m) | ✗ | □ 25 m (15 m) | ✗ |
| | Type 100 Type 125 Type 140 | ✗ | ✗ | ✗ | ✗ | Standard 75 m (30 m) | ⊙ 75 m (30 m) | □ 35 m (15 m) | □ 35 m (15 m) |
| PEY | Type 100 Type 125 Type 140 | ✗ | ✗ | ✗ | ✗ | Standard 50 m (30 m) | ⊙ 50 m (30 m) | □ 25 m (15 m) | □ 25 m (15 m) |
| | Additional refrigerant charging amount per 1 m | | 20 g/m | | | 50 g/m | | | 80 g/m |

How to see table definition (example):

In case of type 71, standard size is liquid pipe Ø9.52 / gas pipe Ø15.88.

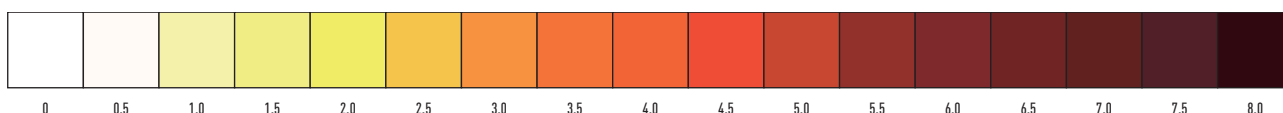
There is a limitation to liquid pipe Ø9.52 / gas pipe Ø12.7 and to liquid pipe Ø12.7 / gas pipe Ø15.88.

However, they are applicable for different diameter's pipes.

| TABLE 2 - 2 REFRIGERANT PIPING SIZE: 20.0 - 25.0 kW TYPE (mm) | | | | | | | | | | |
|---|----------|---------------------|-----------------------------|----------------------|---------------------|-----------------------------|----------------------|---------------------|---------------------|---------------------|
| Liquid pipe | | Ø9.52 | | | Ø12.7 | | | Ø15.88 | | |
| Gas pipe | | Ø22.22 | Ø25.4 | Ø28.58 | Ø22.22 | Ø25.4 | Ø28.58 | Ø22.22 | Ø25.4 | Ø28.58 |
| PE | Type 200 | ▽ 80 m (30 m) | Standard 100 m (30 m) | ⊙ 100 m (30 m) | ▽ 50 m (15 m) | □ 50 m (15 m) | □ 50 m (15 m) | ✗ | ✗ | ✗ |
| | Type 250 | ✗ | ✗ | ✗ | ▽ 80 m (30 m) | Standard 100 m (30 m) | ⊙ 100 m (30 m) | ▽ 65 m (20 m) | □ 65 m (20 m) | □ 65 m (20 m) |
| Additional refrigerant charging amount per 1 m | | 40 g/m | | | 80 g/m | | | 120 g/m | | |

- ⊙ Allowable
- ▽ Cooling capacity down
- Limited piping length
- ✗ Unallowable
- 50 m Maximum piping length
- (50 m) Charge less piping length in a single connection

TABLE 3 DETERIORATION CRITERIA FOR REFRIGERANT OIL



PKEA dimensions

Wall Mounted PKEA

TOP VIEW



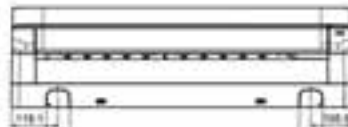
FRONT VIEW



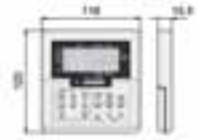
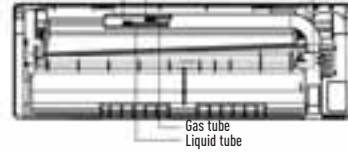
SIDE VIEW



BOTTOM VIEW

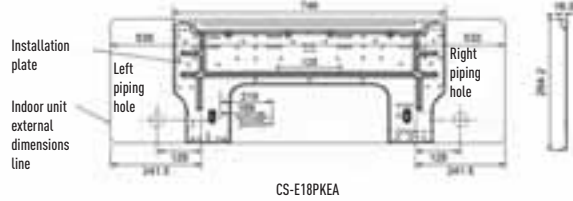
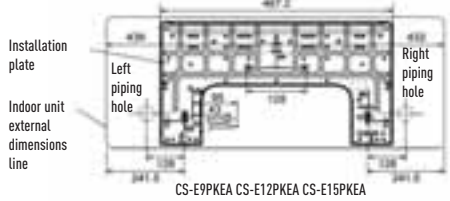


REAR VIEW

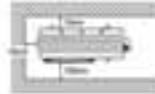


| | |
|-------------------------------------|------|
| | A |
| CS-E9PKEA / CS-E12PKEA / CS-E15PKEA | 870 |
| CS-E18PKEA | 1070 |

RELATIVE POSITION BETWEEN THE INDOOR UNIT AND THE INSTALLATION PLATE (FRONT VIEW)



Space necessary for installation



Anchor Bolt Pitch
330 x 540

SIDE VIEW



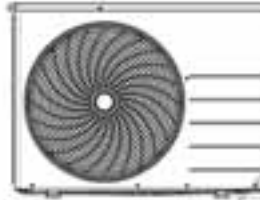
TOP VIEW



SIDE VIEW



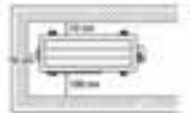
FRONT VIEW



2-way valve at liquid side
(High Pressure)

3-way valve at gas side (Low Pressure)

Space necessary for installation



Anchor Bolt Pitch
383 x 612.5

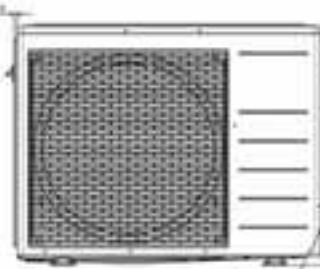
SIDE VIEW



TOP VIEW



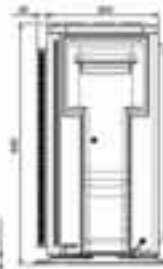
FRONT VIEW



2-way valve at liquid side
(High Pressure)

3-way valve at gas side (Low Pressure)

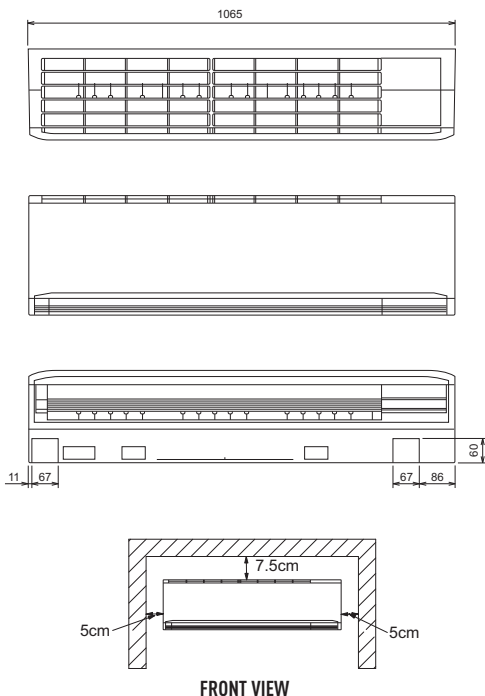
SIDE VIEW



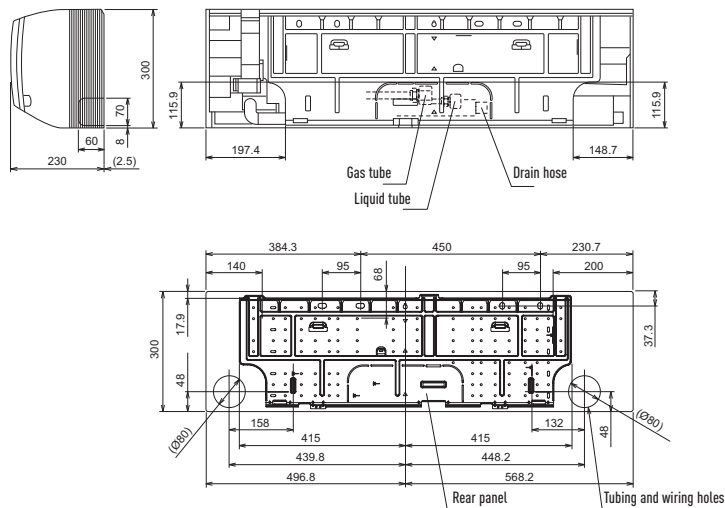
Unit: mm

PACi Standard and Elite dimensions

Wall

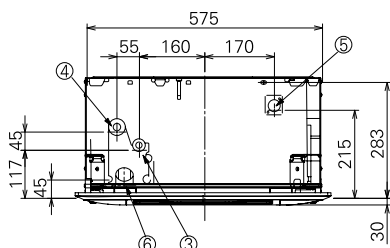
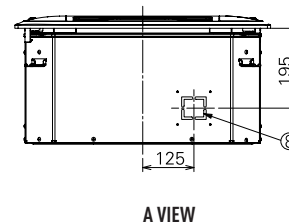
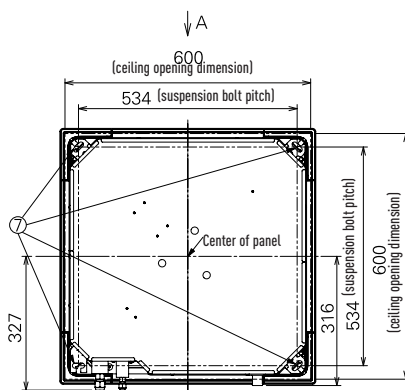
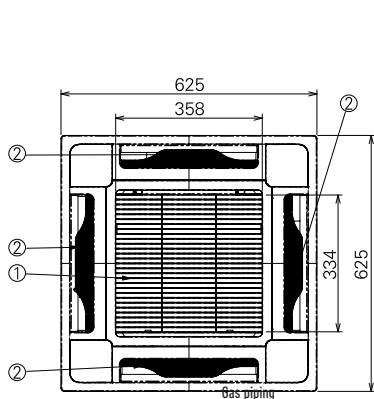


| Type | 36-50 | 60-71 |
|----------------------------------|----------------|-----------------|
| Refrigerant tubing (liquid tube) | Ø6.35 (flared) | Ø9.52 (flared) |
| Refrigerant tubing (gas tube) | Ø12.7 (flared) | Ø15.88 (flared) |
| Drain hose VP13 | outer dia. Ø18 | |
| Rear panel | PL BACK | |
| Tubing and wiring holes | Ø80 | |



Unit: mm

4-Way 60x60 Cassette



- 1 Air intake
- 2 Discharge outlet
- 3 Refrigerant tubing (liquid tube) Ø6.35 (flared)
- 4 Refrigerant tubing (gas tube) Ø12.7 (flared)
- 5 Drain tube connection port VP20 (outer dia. Ø26)
- 6 Power supply port
- 7 Suspension bolt hole (4-12 x 30 hole)
- 8 Fresh air intake duct connection port (Ø100)

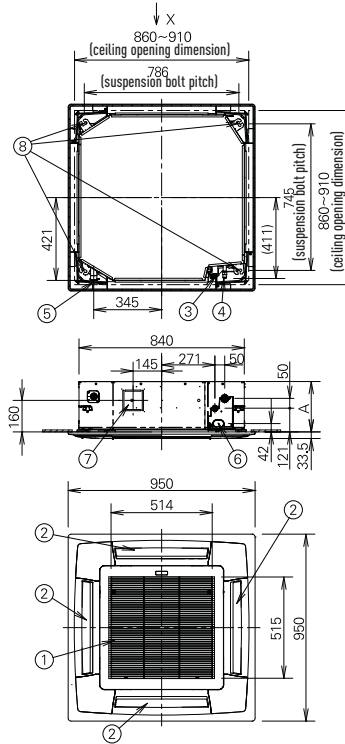
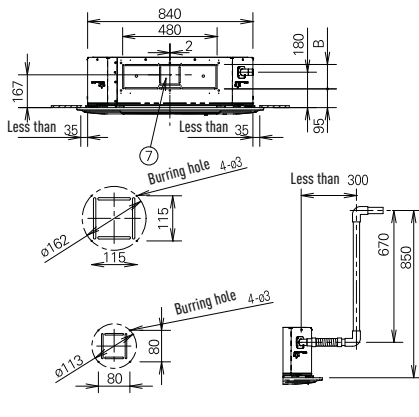
Unit: mm

PACi Standard and Elite dimensions

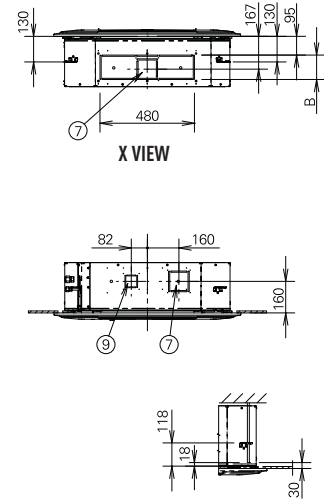
4 Way 90x90 Cassette

| Type | 36-50 | 60-140 |
|---|-------------------|-----------------|
| 1 Air intake grill | | |
| 2 Air discharge outlet | | |
| 3 Refrigerant piping (liquid pipes) | Ø6.35 (flared) | Ø9.52 (flared) |
| 4 Refrigerant piping (gas pipes) | Ø12.7 (flared) | Ø15.88 (flared) |
| 5 Drain outlet VP50 | outer Ø32 | |
| 6 Power supply port | | |
| 7 Discharge duct | Ø150 | |
| 8 Suspension bolt hole | 4-12x30 slot | |
| 9 Fresh air intake duct connection port | Ø100 ¹ | |

1 Air inlet kit is necessary.
Filter size: 520 x 520 x 16



| Type | 36-71 | 100-140 |
|------|-------|---------|
| A | 256 | 319 |
| B | 124 | 187 |



Adjust the suspension bolt length so that the gap from the lower ceiling surface becomes 30 mm or more (18 mm or more from the lower surface of the body) as shown in the figure. When the suspension bolt length is long, it hits the ceiling panel and installation is not possible.

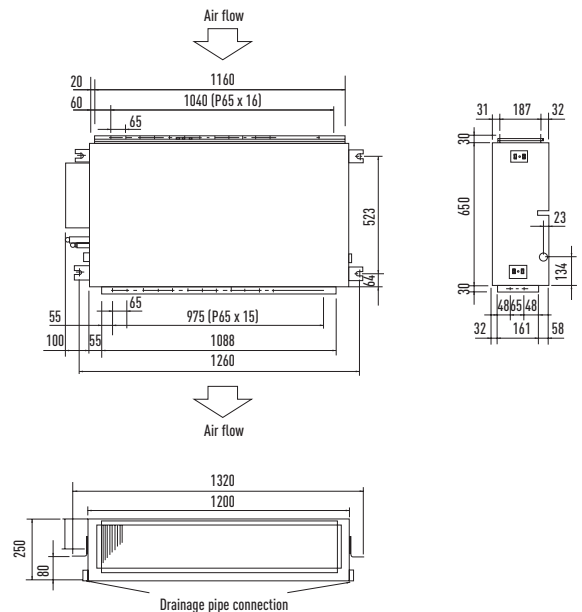
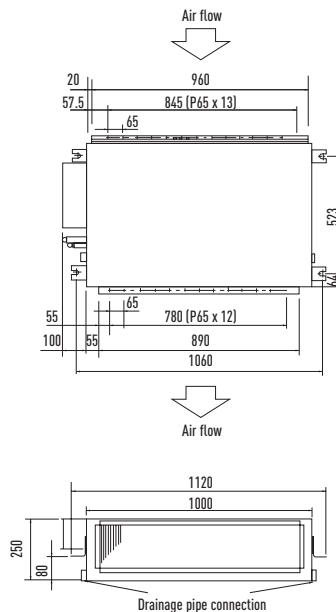
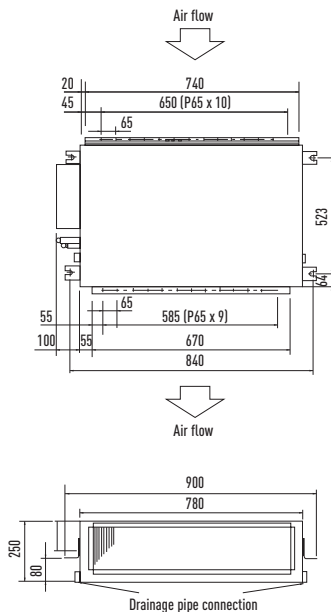
Unit: mm

Low Static Pressure Hide Away

S-36PN1E5 // S-45PN1E5 // S-50PN1E5

S-60PN1E5 // S-71PN1E5

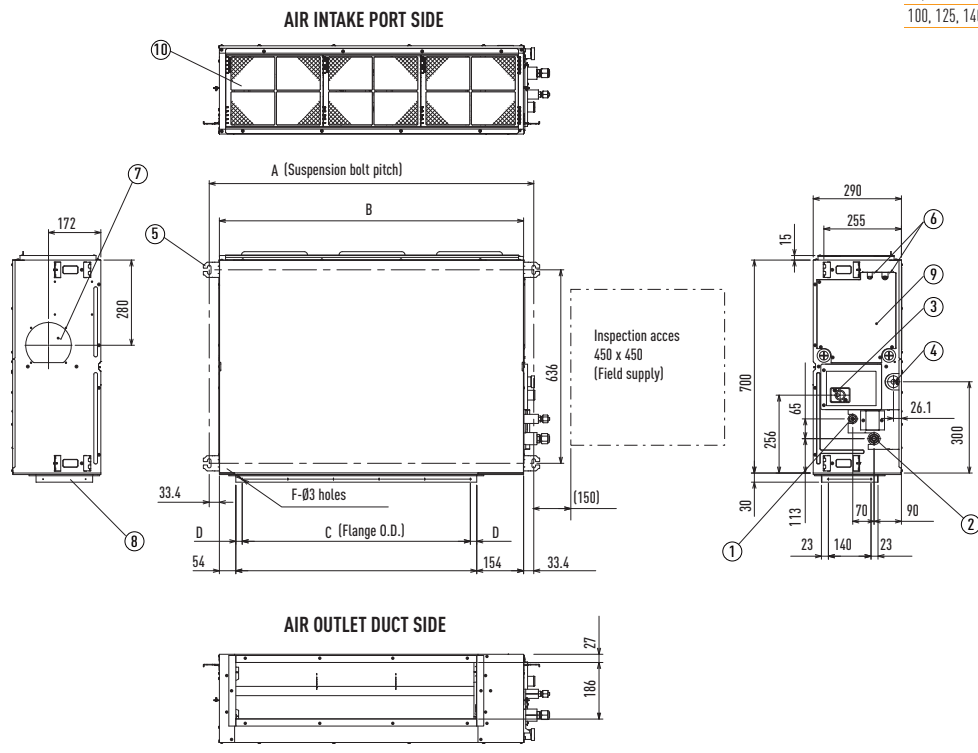
S-100PN1E5 // S-125PN1E5 // S-140PN1E5



Unit: mm

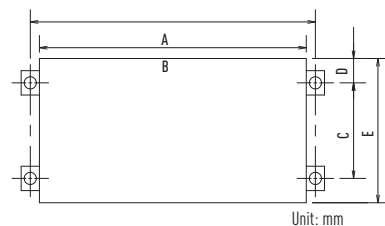
High Static Pressure Hide Away

| Type | A | B | C | D | E | F |
|---------------|-------|-------|-----------------------|----|-------|----|
| 36, 45, 50 | 867 | 800 | 450 (Pitch 150 × 3) | 71 | 592 | 12 |
| 60, 71 | 1,067 | 1,000 | 750 (Pitch 150 × 5) | 21 | 792 | 16 |
| 100, 125, 140 | 1,467 | 1,400 | 1,050 (Pitch 150 × 7) | 71 | 1,192 | 20 |



POSITION OF SUSPENSION BOLT

| TYPE | A | B | C | D | E |
|---------------|------|------|-----|----|-----|
| 36, 45, 50 | 840 | 780 | 523 | 64 | 650 |
| 60, 71 | 1060 | 1000 | 523 | 64 | 650 |
| 100, 125, 140 | 1260 | 1200 | 523 | 64 | 650 |

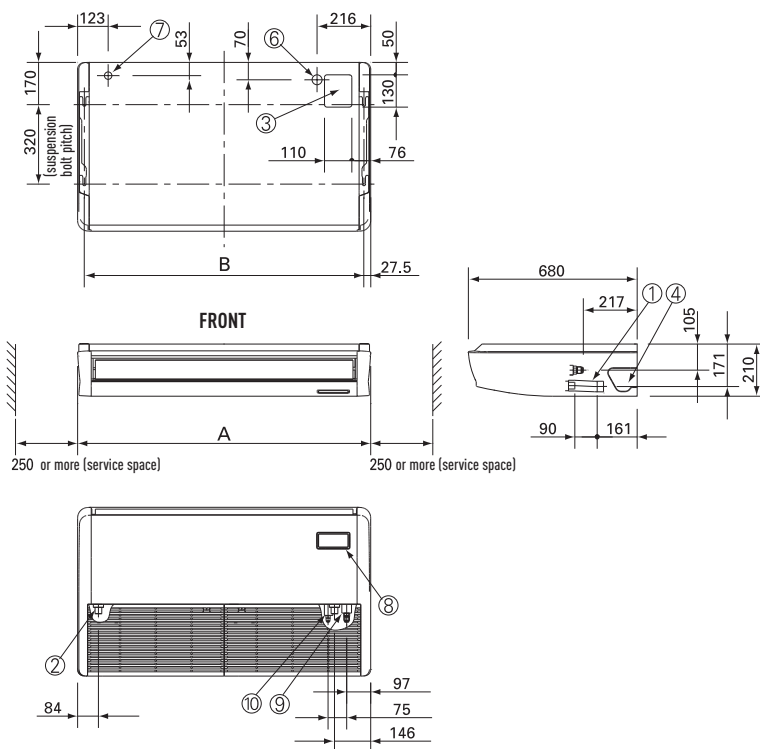
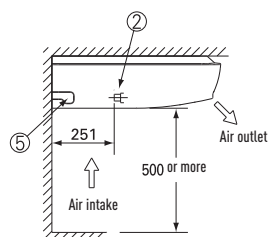


Ceiling

- 1 Drain port VP20 (inner Ø26, hose accessory)
- 2 Drain for left piping
- 3 Upper piping outlet port (knock-out hole)
- 4 Right piping outlet port (knock-out hole)
- 5 Drain left piping outlet port (knock-out hole)
- 6 Power supply entry port (knock-out hole Ø40)
- 7 Remote controller wiring inlet port
- 8 Wireless remote control receiver mounting part

| Type | 36-50 | 60-71 | 100-140 |
|---------------------------|-------|-------|---------|
| A (body) | 910 | 1,180 | 1,595 |
| B (suspension bolt pitch) | 855 | 1,125 | 1,540 |

- 9 Refrigerant gas piping
Type 36 to 50: Ø12.7
Type 60 to 140: Ø15.88
- 10 Refrigerant liquid piping
Type 36 to 50: Ø6.35
Type 60 to 140: Ø9.52

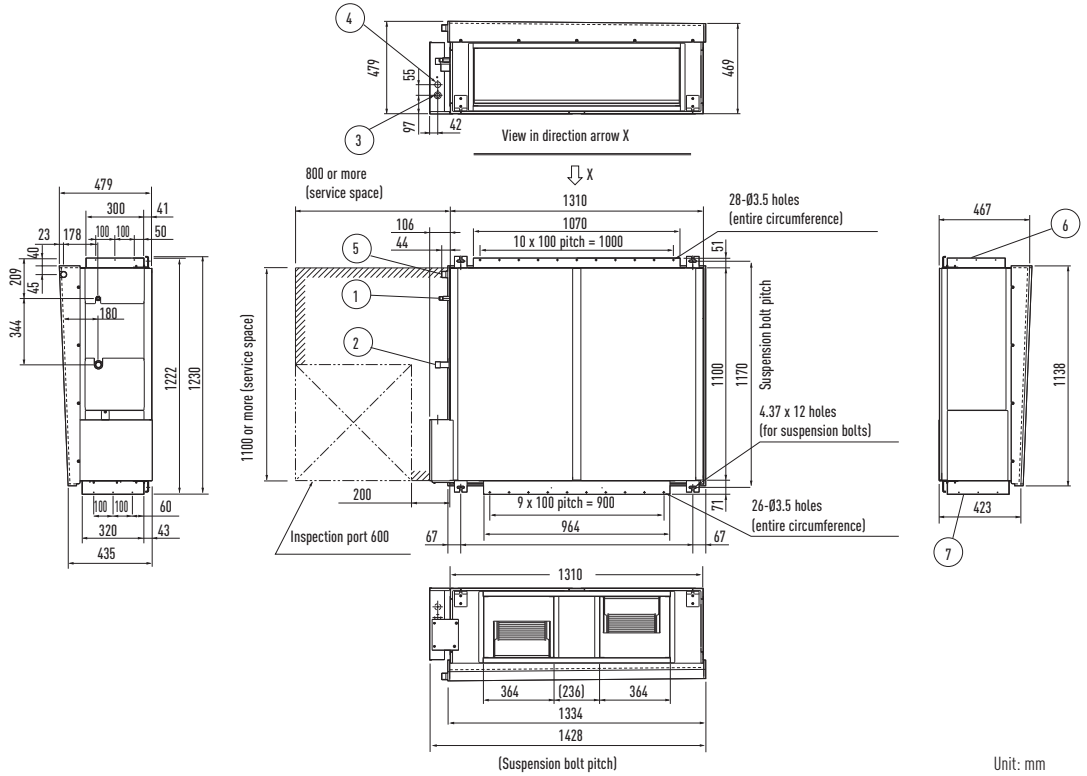


Unit: mm

PACi Standard and Elite dimensions

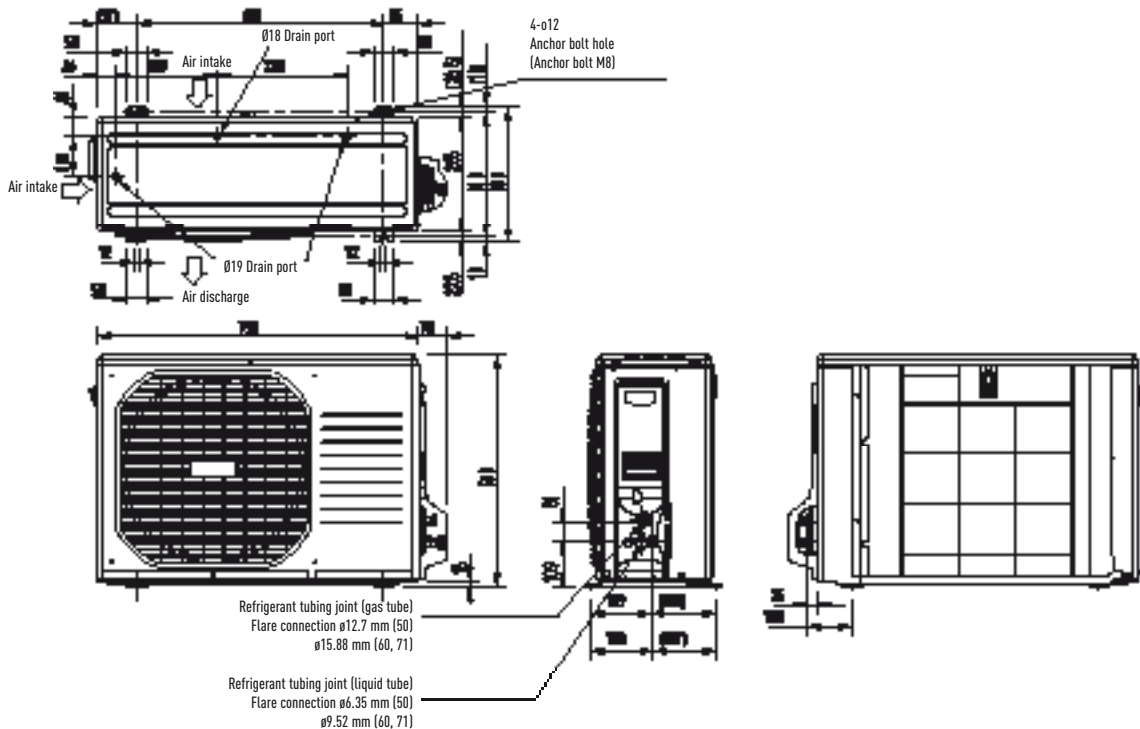
High Static Pressure Hide Away 20.0-25.0 kW

- 1 Refrigerant piping (liquid pipes)
20.0 kW type: $\varnothing 9.52$ (With reducer $\varnothing 12.7-\varnothing 9.52$)
25.0 kW type: $\varnothing 12.7$
- 2 Refrigerant piping (gas pipes) $\varnothing 25.4$
- 3 Power supply outlet
($\varnothing 25$ grommet, rubber)
- 4 Power supply outlet (spare) ($\varnothing 30$ knock-out)
- 5 Drain port 25 A, male thread
- 6 Duct connection for suction
- 7 Duct connection for discharge



Unit: mm

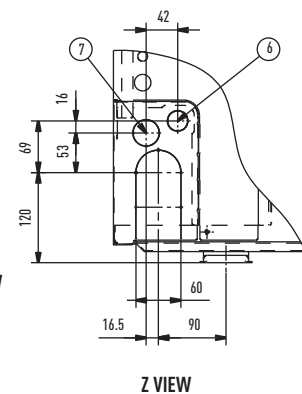
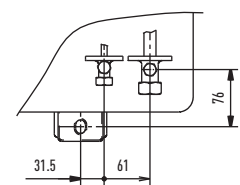
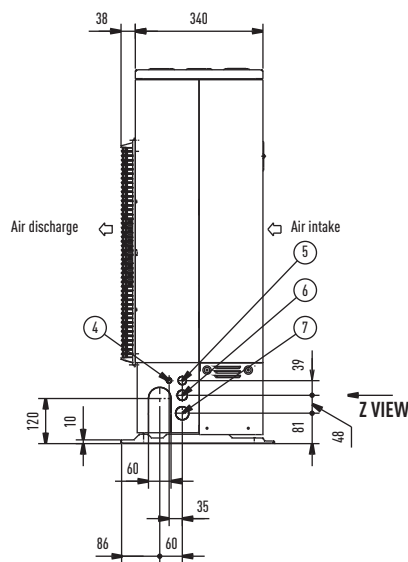
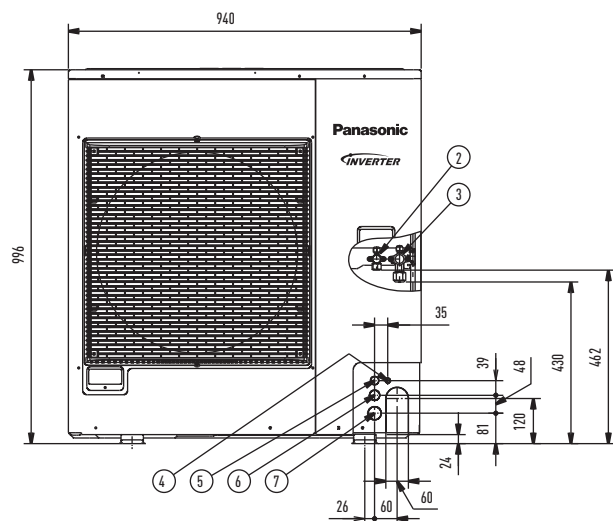
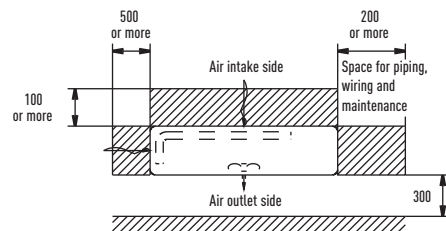
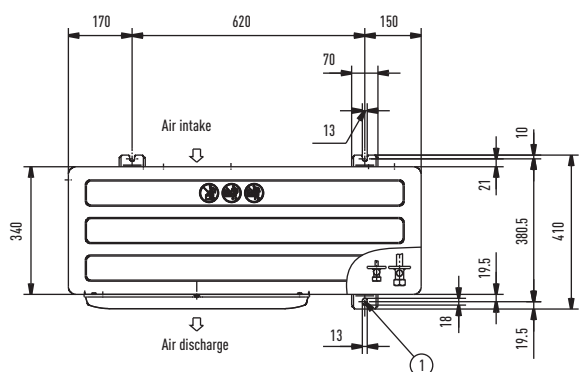
Outdoor Unit PACi Standard 6.0 and 7.1 kW and PACi Elite 5.0 kW



Unit: mm

Outdoor unit PACi Standard 10.0 and 12.5 kW and PACi Elite 6.0 and 7.1 kW

- 1 Mounting hole (4-R6.5), anchor bolt : M10
- 2 Refrigerant piping (liquid pipe), flared connection (Ø9.52)
- 3 Refrigerant piping (gas pipe), flared connection (Ø15.88)
- 4 Electrical wiring port (Ø13)
- 5 Electrical wiring port (Ø22)
- 6 Electrical wiring port (Ø27)
- 7 Electrical wiring port (Ø35)

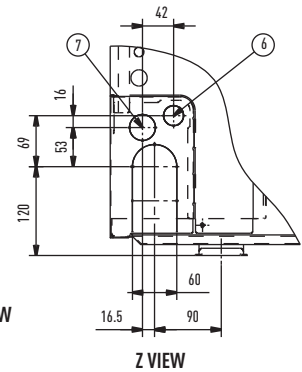
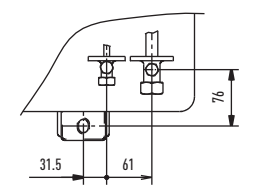
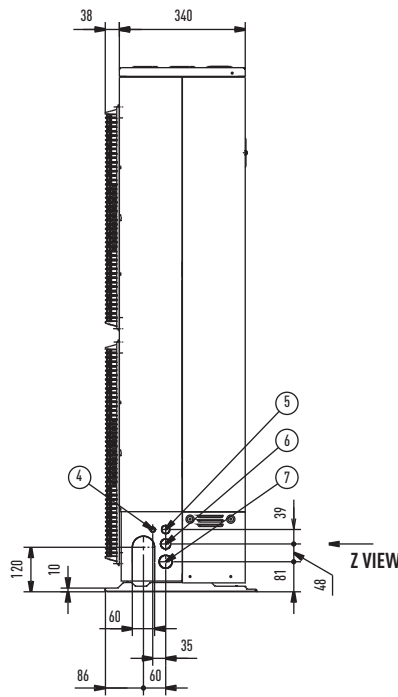
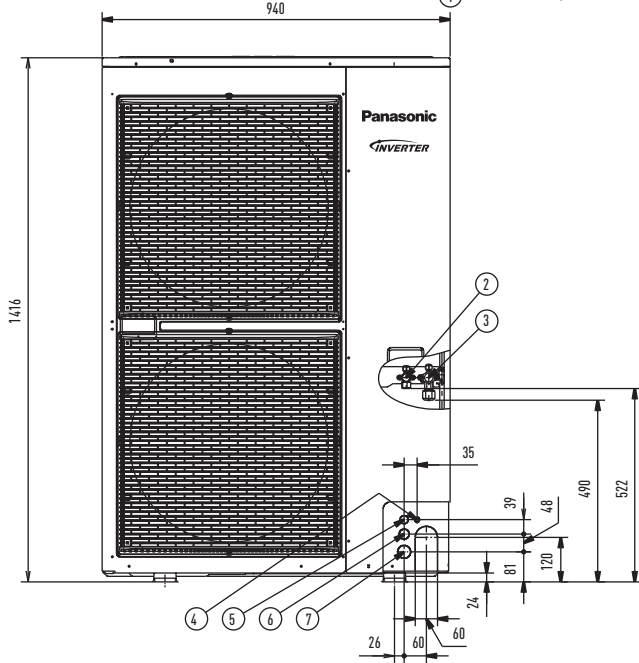
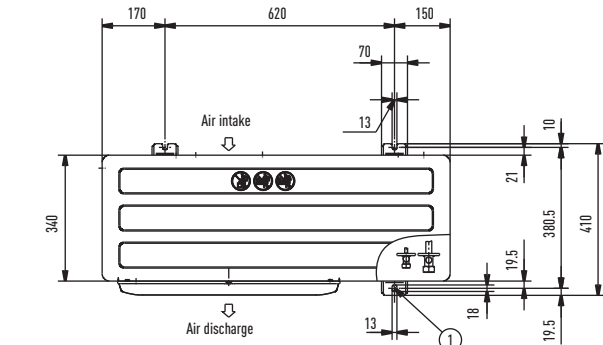
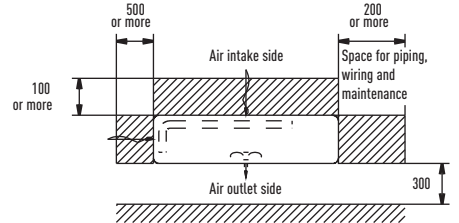


Unit: mm

PACi Standard and Elite dimensions

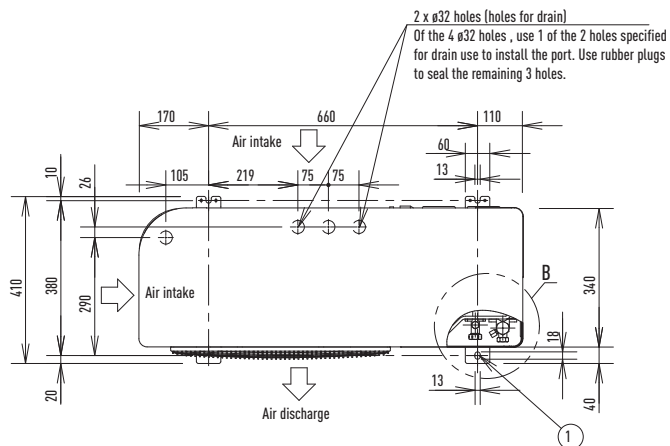
Outdoor unit PACi Standard 14.0 kW and PACi Elite from 10.0 to 14.0 kW

- 1 Mounting hole (4-R6.5), anchor bolt : M10
- 2 Refrigerant piping (liquid pipe), flared connection (Ø9.52)
- 3 Refrigerant piping (gas pipe), flared connection (Ø15.88)
- 4 Electrical wiring port (Ø13)
- 5 Electrical wiring port (Ø22)
- 6 Electrical wiring port (Ø27)
- 7 Electrical wiring port (Ø35)

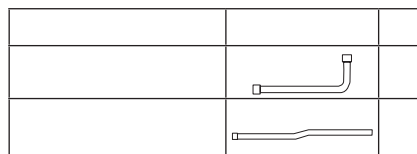


Unit: mm

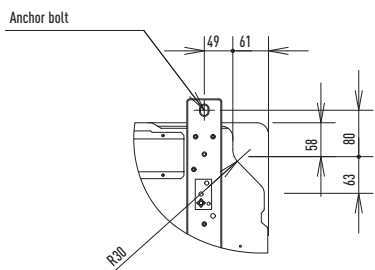
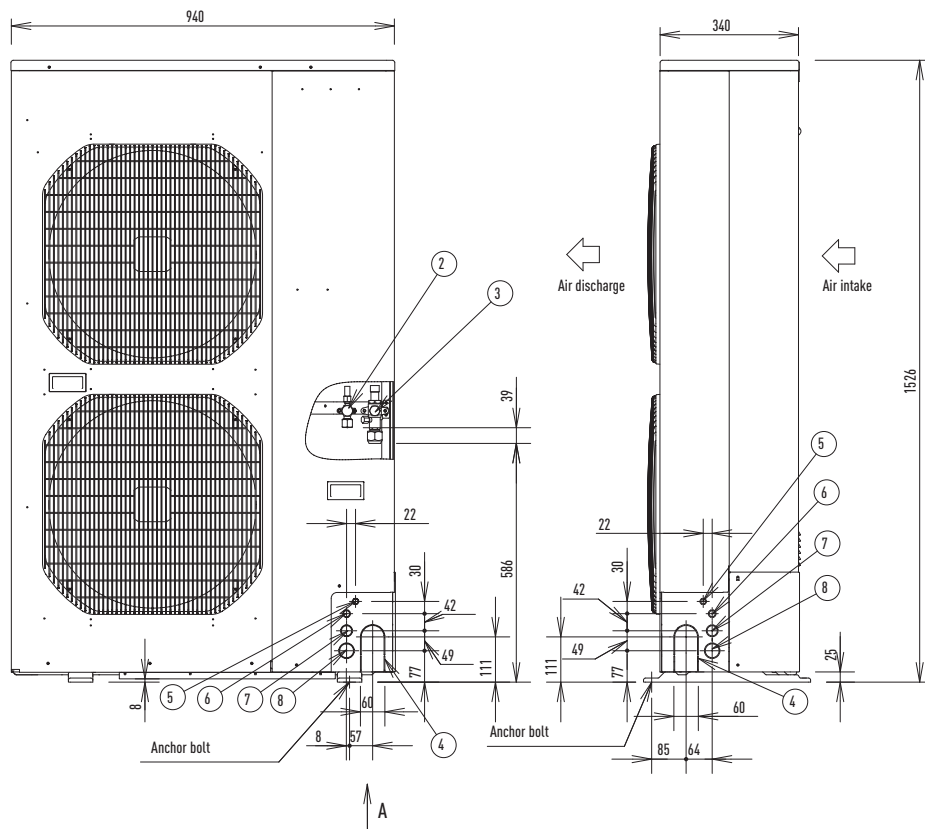
Outdoor unit PACi Elite 20.0 and 25.0 kW



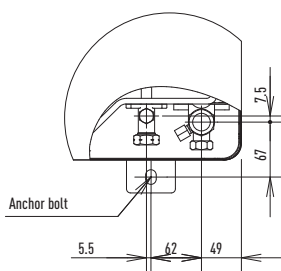
- 1 Mounting hole (4-R6.5), anchor bolt : M10
- 2 Refrigerant tubing (liquid tube), flared connection ($\phi 12.7$)
- 3 Refrigerant tubing (gas tube), flared connection ($\phi 19.05$)
- 4 Refrigerant tubing port
- 5 Electrical wiring port ($\phi 16$)
- 6 Electrical wiring port ($\phi 19$)
- 7 Electrical wiring port ($\phi 29$)
- 8 Electrical wiring port ($\phi 38$)



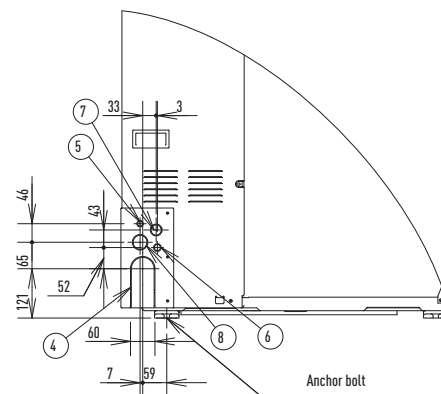
Remark:
There are two types of supplied tubings. The one tubing port $\phi 19.05$ (flare process) is connected to the flared connection of the gas port side's service valve. The other "L" shaped tubing port is brazed in connection after cutting the tube at the proper length. Then make a brazing connection to the main tubing ($\phi 25.4$).



Bottom removable connection port



Refrigerant tubing connection port



Unit: mm

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