

# Panasonic

NEW COMMERCIAL  
RANGE  
EXTREMELY  
EFFICIENT

2013 / 2014



PACi STANDARD

PACi ELITE

NEW COMMERCIAL AIR TO AIR 2013 / 2014

heatingandcoolingsystems

PACi | PACi  
STANDARD | ELITE

heating and cooling systems

# NEW 2013 / 2014

## COMMERCIAL RANGE

### Summary

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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

# NEW

**PACi STANDARD  
LINE UP**



PG 10

# NEW

**5kW PACi ELITE SUPER  
EFFICIENT OUTDOOR UNIT**



PG 10

# NEW

**WALL MOUNTED PKEA FOR  
SERVER ROOM APPLICATIONS**



PG 24

# NEW

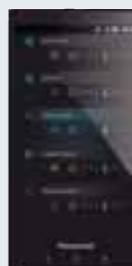
**AIR CURTAIN CONNECTED TO  
PACi OUTDOOR UNITS**



PG 48

# NEW

**CONNECTIVITY SOLUTIONS**



PG 64



## Panasonic – leading the way in Heating & Cooling

With more than 30 years of experience, selling to more than 120 countries around the world, Panasonic is unquestionably one of the leaders in the heating and cooling sector.

With diverse network of productions and R&D facilities, Panasonic delivers innovative products incorporating cutting-edge technologies that set the standard for air conditioners worldwide. Expanding globally, Panasonic provides superior international products transcending borders.

### History of Air Conditioning Group

Panasonic starts with a desire to create things of value. As hard work and dedication results in one innovative product after another, the fledgling company takes its first steps towards becoming the electronics giant of today.



- 1936**  
First electric Fan with Automatic Oscillation (36 cm table top model).
- 1958**  
First room air conditioner launched for domestic installation. Prior to this date, air conditioners were large and only for commercial use. Panasonic developed the first compact air conditioner for windows; it was lightweight and easy to install, improving the quality of life in Japanese homes. 1,100 units were sold in Japan in the first year, and just two years later, in 1960, this figure rose to 230,000.
- 1973**  
Panasonic launches the first highly efficient air-to-water heat pump in Japan.
- 1975**  
Panasonic becomes the first Japanese air conditioner manufacturer in Europe.
- 2002**  
The Ion and Oxygen Generator — two of the most important contributions to air conditioning systems.
- 2008**  
Etherea new concept of air conditioning systems: high efficiency and high performances with a great design. Etherea also includes a very innovative air quality sensor and air purifier in order to enjoy healthy air at home at all times.
- 2010**  
New Aquarea. Panasonic has created Aquarea, an innovative new, low-energy system, designed to help you enjoy ideal temperatures and hot water in your home, even with extreme outdoor temperatures. Aquarea cools or heats to ensure maximum comfort. Aquarea is far cleaner, safer, cheaper and environmentally friendly than alternatives using gas, oil and other electrical systems.
- 2011**  
New Eco i VRF solution. The new Panasonic VRF solution for big buildings is the most efficient in the industry in more than 74% of combinations. ECO i satisfies the most demanding standards required by design offices, architects, owners and installers.
- 2012**  
New GHP units. Panasonic's gas-driven VRF systems are ideal for projects where power restrictions apply. In 2012, Panasonic extends the Gas Heat Pump range with a new GHP line-up, new GHP G Power (electricity production) and the new Chiller Units.
- 2013**  
New ECOi 3 pipes. The best efficiency for your building. Our New 6 Series 3 pipes is achieving a COP of 4.77 at full load, and even more when recovering heat from the building. There is no doubt, Panasonic is reducing environmental impact!



**Panasonic Europe**

Panasonic is committed to offering our customers innovative products in the heating and cooling market across Europe, which not only meet but exceed their requirements. Key to success is Panasonic's investment in R&D, manufacture and training to ensure innovative, cutting edge products and investment in our distribution channels and partners so that these products are accessible in Europe. Panasonic has developed a comprehensive network across Europe of training centers and training academies for installers, design offices and service teams in all major countries.



**Panasonic Factories and R&D Department**

There is a close relationship between R&D innovation and good manufacturing processes, and so Panasonic has placed its R&D facilities very close to its manufacturing bases. This ensures good integration between all divisions to deliver high quality and reliable solutions to our markets.

**We control the process**

The company is also a world leader in innovation as it has filed more than 91539 patents to improve its customers' lives. Moreover, Panasonic is determined to remain at the forefront of its market. In all, the company has produced more than 200 million compressors and its products are manufactured in 294 plants which are located all over the world. You can be assured of the extremely high quality of Panasonic's heat pumps. This wish to excel has made Panasonic the international leader in heating and turn-key air conditioning solutions for homes, medium-sized buildings such as offices and restaurants, and large-scale buildings. These offer maximum effectiveness, comply with the strictest environmental standards and meet the most avant-garde construction requirements of our time. At Panasonic we know what a great responsibility it is to install heating and cooling systems. Because offering you the best solutions in heating and cooling matters.

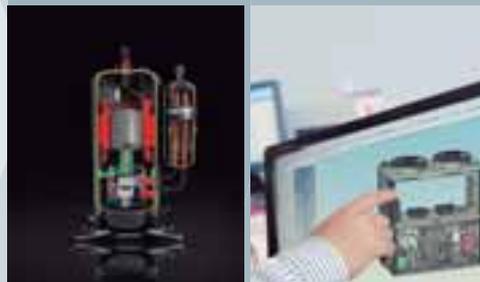
**PRODUCTION 100% PANASONIC**



**SERVICE PROVIDER**



**R&D & DESIGN**



**TESTING AND QUALITY INSURANCE**

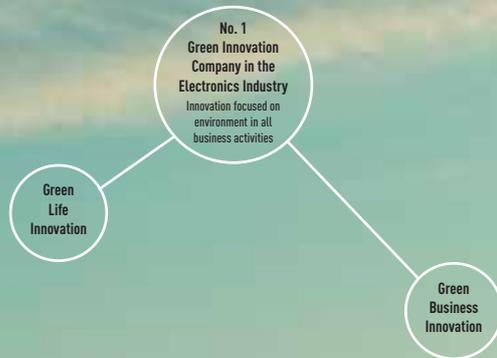


**100%**  
**Panasonic**

eco  
ideas

## Eco & smart ideas for a sustainable lifestyle

Panasonic aims to be the No. 1 Green Innovation Company in the Electronics Industry by 2018. We will make the environment central to all our business activities and work to realize our vision with innovations for both every day life and business.



Exemplary sustainable projects



**Blackfriars Bridge**  
London, UK  
with Panasonic solar panels.



**Skolkovo City**  
Moscow, Russia  
with Panasonic energy saving concept.

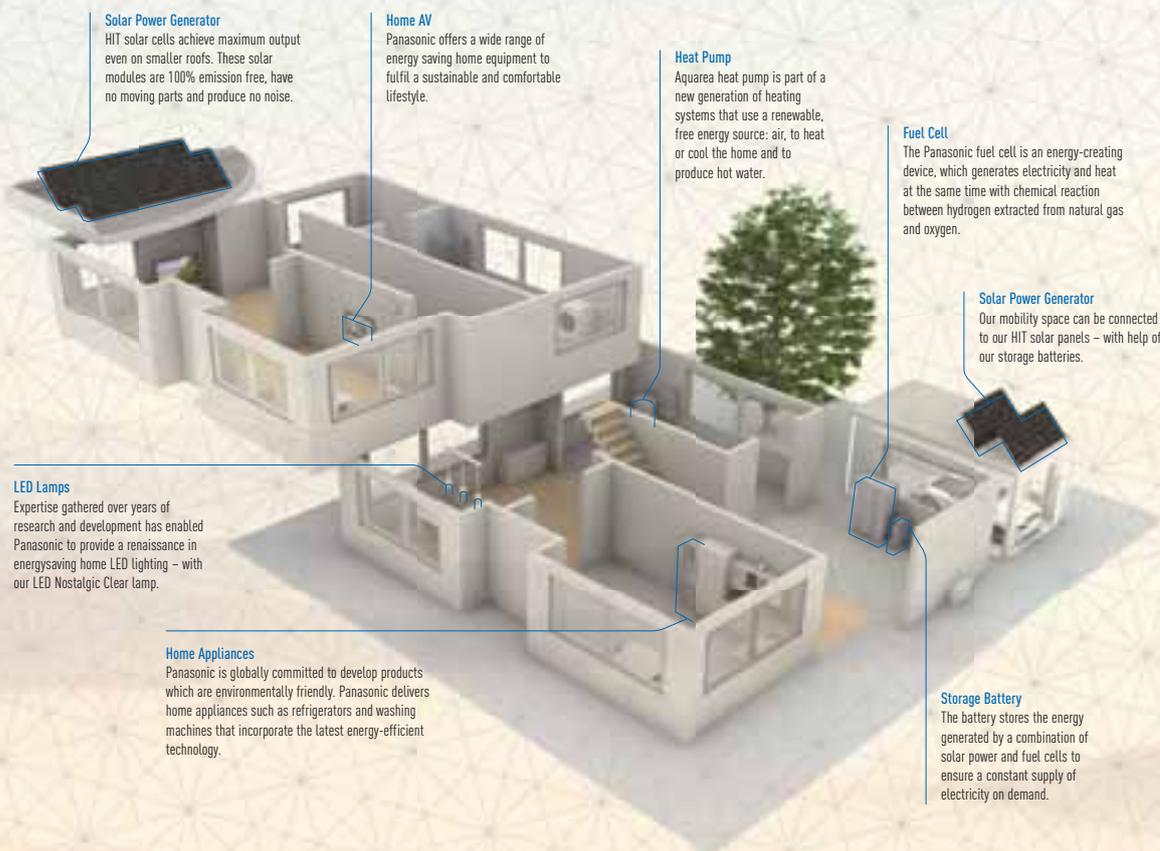


**Photosynthesis**  
Milano Salone, Milano, Italy  
with Panasonic LED light bulbs and HIT solar power generators.



**Siestorage**  
Modular energy storage solution with Panasonic lithium ion batteries.

We aim to realize a lifestyle with virtually zero CO<sub>2</sub> emissions throughout the entire home



**Solar Power Generator**  
HIT solar cells achieve maximum output even on smaller roofs. These solar modules are 100% emission free, have no moving parts and produce no noise.

**Home AV**  
Panasonic offers a wide range of energy saving home equipment to fulfil a sustainable and comfortable lifestyle.

**Heat Pump**  
Aquarea heat pump is part of a new generation of heating systems that use a renewable, free energy source: air, to heat or cool the home and to produce hot water.

**Fuel Cell**  
The Panasonic fuel cell is an energy-creating device, which generates electricity and heat at the same time with chemical reaction between hydrogen extracted from natural gas and oxygen.

**Solar Power Generator**  
Our mobility space can be connected to our HIT solar panels – with help of our storage batteries.

**LED Lamps**  
Expertise gathered over years of research and development has enabled Panasonic to provide a renaissance in energysaving home LED lighting – with our LED Nostalgic Clear lamp.

**Home Appliances**  
Panasonic is globally committed to develop products which are environmentally friendly. Panasonic delivers home appliances such as refrigerators and washing machines that incorporate the latest energy-efficient technology.

**Storage Battery**  
The battery stores the energy generated by a combination of solar power and fuel cells to ensure a constant supply of electricity on demand.



## Panasonic Professional

Panasonic has an impressive range of support services for designers, specifiers, engineers and distributors working in the heating and cooling markets.





## Panasonic

PRO Club 

### Panasonic PRO Club

Panasonic announces a new initiative for all professionals involved in the heating and cooling business - the Panasonic PRO Club ([www.panasonicproclub.com](http://www.panasonicproclub.com)). This exciting new portal provides distributors, installers, engineers and specifiers with a direct communication channel with one of the industry's major manufacturers.

The website contains a wealth of information from the latest versions of Panasonic's Aquarea and Etherea Design Software, to Technical Documentation, Catalogues and Images for the company's wide range of heating and cooling systems - all in an easy to navigate and use website. Also, registered users will be able to access news regarding special promotions and take advantage of these offers, as well as access helpful business advice such as ideas and guidelines for showroom decoration or van livery featuring Panasonic logos and display material.

[www.panasonicproclub.com](http://www.panasonicproclub.com)

or connect simply with your smartphone to the proclub using this QR:



## Panasonic

PRO Academy 

### The Panasonic PRO-Academy opens its doors

Panasonic takes its responsibility to its distributors, specifiers and installers seriously and has developed a comprehensive Training Programme. The Panasonic Pro-Academy encompasses the traditional hands-on approach, as well as embracing today's technology to offer an eLearning facility available 24 hours, 7 days a week!

### New training courses cover three levels

#### Design, installation, and commissioning & trouble-shooting

Training courses include:

- Domestic applications Air to Air
- Aquarea air source heat pumps
- VRF ECOi

The courses are offered on site at Panasonic's premises across Europe as well as via the Panasonic ProClub eLearning site. The Training Centres display Panasonic's latest product range and give delegates an opportunity to get hands-on experience with the latest controllers, indoor and outdoor units from the VRF ECOi, Etherea, GHP and Aquarea ranges.



## WELCOME TO THE COMMERCIAL RANGE

**Here are some of your new air conditioner's major features.**

Panasonic has developed an impressive range of highly efficient Commercial Air Conditioners. This range confirms our commitment to the environment. Our Inverter compressors optimise performance and thus reduce energy costs.



**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 CO<sub>2</sub> emission and lowers operating costs.

**A class**  
energy saving

**INVERTER+**

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

**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.

## New Panasonic R2 Rotary Compressor

Panasonic Rotary Compressors for Room Air Conditioners have been installed in the most demanding environments around the world. Designed to withstand extreme conditions, Panasonic Rotary delivers high-performance, efficiency and reliable service, no matter where you are.

Panasonic, the world's largest manufacturer of rotary compressors.

**Making the world a cooler place since 1978.**



## Why Panasonic R2 Rotatory Compressor is so efficient?

- 1 High Efficiency Motor** The premium silicon steel motor meets industry efficiency requirements.
- 2 High Volume Oil Pump Improved Lubrication** The extended, high volume oil pump in conjunction with a larger capacity oil reservoir provides superior lubrication.
- 3 Accumulator Larger Refrigerant Capacity** The larger accumulator accomodates generous refrigerant amounts needed in longer line length installations.

## R2 Compressor Value

### About R2 Compressor

Built upon 28 years of compressor design and production experience, R2 is the next generation of Rotary Compressors for residential central air conditioning. New technology improvements, enhanced materials and simple design ensure R2 compressors are reliable, efficient and quiet. R2 Compressor deliver quality, comfort and peace of mind homes around the world.

Panasonic's Rotary Compressors have been life tested in some of the world's most demanding environments. Proven for years in the the most demanding area of the world, the R2 design is the compressor of choice by contractors and homeowners in these challenging climates. For the performance homeowners demand, R2 Rotary Compressors are the best air conditioning engines for today's residential cooling solutions.

### Leading Technology

Used in over 80% of cooling solutions globally, rotary is the world's dominant residential air conditioning compression technology. Panasonic is the leading rotary and residential AC compressor manufacturer in the world, with over 200 milion compressor produced.

### Benefits

Central air conditioning delivered with a Panasonic R2 Rotary Compressor ensures a superior level of comfort at an economical cost.



#### Vane - Long Life

The special Physical Vapor Deposition (PVD) coating applied to the Vane greatly enhances the durability and life of the compressor mechanism.

#### Piston - Durable

The piston is made of unique high-grade steel metallurgy that prevents wear and operation life.



## R2 Compressors:

- Higher efficiency
- Single and Dual Piston
- R-410A refrigerant
- Compact size

**R2 rotary compressors utilize rolling piston technology.**



TESTED

The R2 compressor has been tested usefully in extreme conditions.



TESTED

## FAQ

### How does a Panasonic Rotary compressor work?

R2 compressors are rolling piston rotary compressors. The heart of the rotary compressor is the cylinder which houses the piston and the vane. The vane maintains constant contact with the piston as the piston rolls along the inside wall of the cylinder. As the piston rotates, gas is compressed into an increasingly smaller area until the discharge pressure is reached, releasing gas into the shell chamber. At the same time, more gas comes in through the suction port, enabling a continuous process of suction and discharge. The simple design and symmetry of the cylinder components, combined with a special coating and premium materials, provide a highly durable and reliable product, rotation after rotation.

### What SEER range do Panasonic Rotary compressor support?

R2 compressors are in the latest technology air conditioning products with the highest efficiency products on the market today. Our R2 compressors are engineered specifically for this efficiency requirement, which combined with the inherent simple design of the rotary, results in a highly desirable and economical solution.

### What makes Panasonic Rotary compressor so reliable?

Changes to the construction and material of internal components enables the R2 compressor to reliably operate with an above average maximum discharge

pressure. A Physical Vapor Deposition (PVD) coating on the vane along with enhanced steel materials significantly reduces wear and increases durability.

### What makes Panasonic Rotary compressor so quiet?

The structure of the R2 compressor mechanism has been redesigned to increase stability and reduce vibration. Specifically, the compressor has an upper cylinder discharge, an enhanced fixed upper bearing, and reduced friction in the cylinder parts. The lower discharge and muffler in dual piston compressors also enables lower noise levels. As a result, this new design optimises efficiency and minimises noise.

### How do R2 rotary compressors compare to scroll and reciprocating compressors?

R2 rotary compressors are very similar to some scroll compressors in overall performance, including efficiency and reliability. The simple and symmetrical key components contribute to the R2 compressor's reliability, light weight and compact size, and economical applied cost, without sacrificing the key performance requirements of high efficiency and low noise levels.

### What refrigerants can be used with Panasonic Rotary compressor?

Panasonic has R2 Rotary Compressors available for R410A applications.



A class  
energy saving

**INVERTER+**

**PACi**  
STANDARD

**PACi**  
ELITE

## PACi Standard and Elite

Newly designed next generation Commercial Range!

### **New PACi Standard**

The use of an energy-saving design for the construction of fans, fan motors, compressors and heat exchangers, has resulted in a high COP value, which ranks as one of the best in class in the industry. In addition, use of highly efficient R410A refrigerant reduces CO<sub>2</sub> emission and lowers operating costs.

### **PACi Elite**

DC Inverter can attain both comfort and energy-saving operation.

## SEASONAL EFFICIENCY (SCOP)

PRODUCT FOLLOWS THE NEW  
ECODESIGN REQUIREMENTS



NEW

## SEASONAL EFFICIENCY (SCOP)

PRODUCT FOLLOWS THE NEW  
ECODESIGN REQUIREMENTS



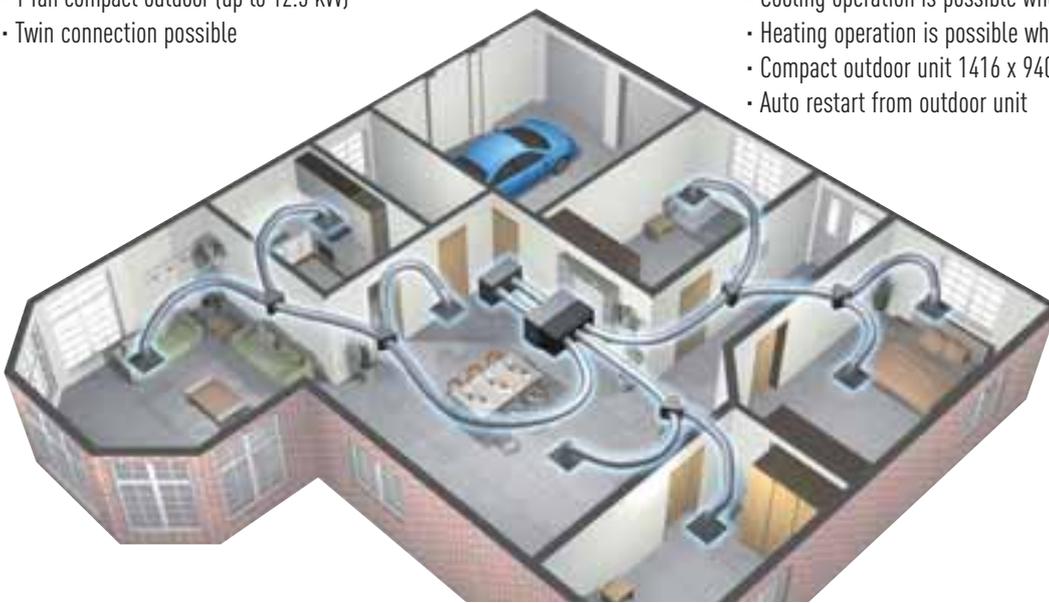
NEW

### 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.

CURRENT MODEL  
(1170 x 900 x 320)



-15%  
SMALLER

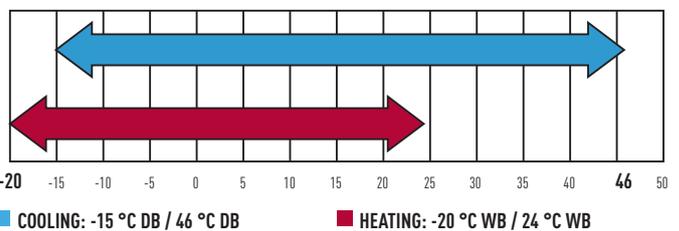


NEW. ON THE 12.5 kW  
(996 x 940 x 340)

### 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

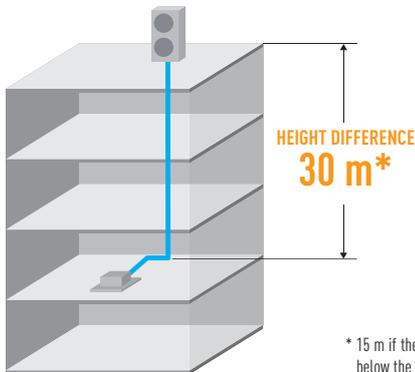
All Panasonic air conditioners undergo strict quality and safety tests before sale. This rigorous process includes obtaining all necessary safety approvals, to ensure that all air conditioners we sell are not only built to the highest market standards, but are also completely safe.

## 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

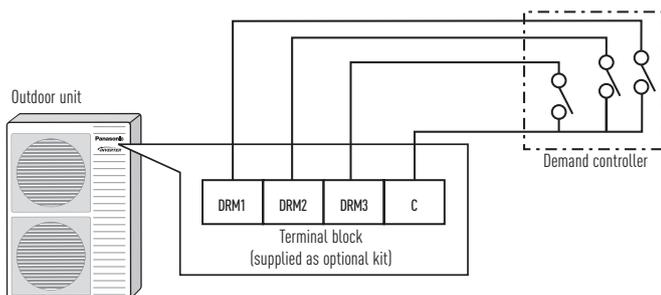
5 dB can be reduced by setting. External input signal is also available.

### Demand Response Compliant (CZ-CAPDC3)

This optional part allows demand control of the outdoor unit.

Several level of settings are available:

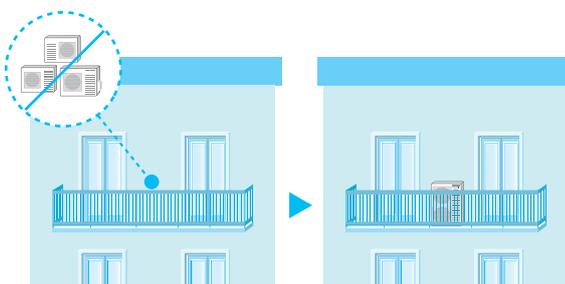
- Level-1, 2, 3 : 75 / 50 / 0 %
- Level-1, 2 can be set in 40 - 100% (40, 45, 50...95, 100: each 5%)



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

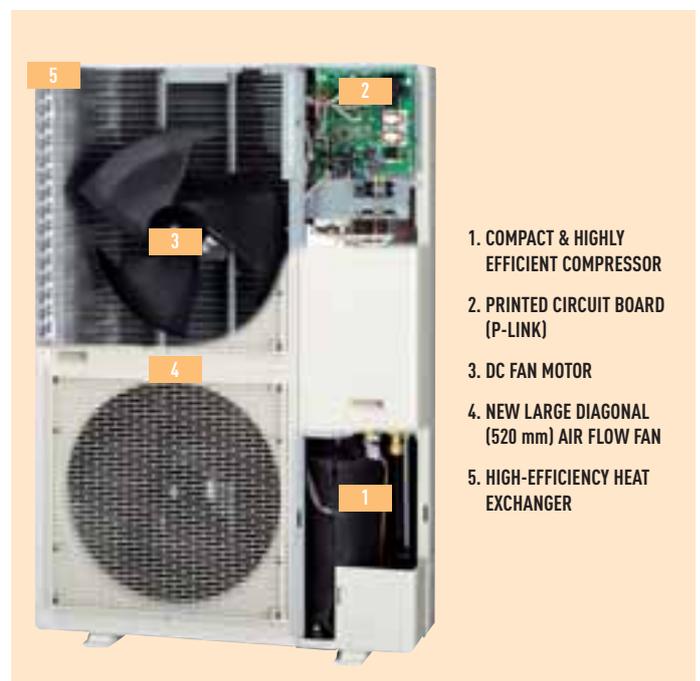
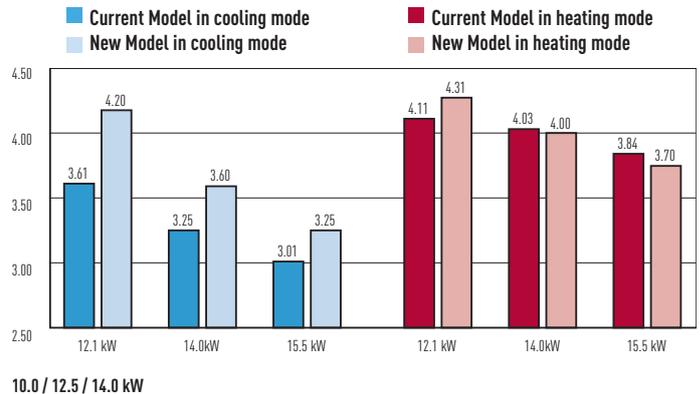
### Compact & Flexible-design

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.



### 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 CO<sub>2</sub> 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

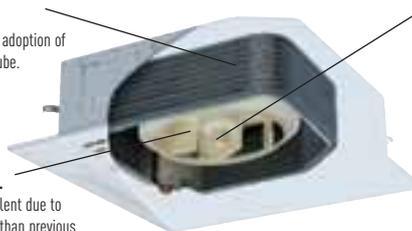
This proprietary design provides a wide and very comfortable airflow. The cassette's wide-angle discharge outlets and flaps are larger in the middle, featuring a shape that was selected based on geometrics and testing of actual prototype units. Air coming out of the center of the discharge outlets travels 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 out 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.

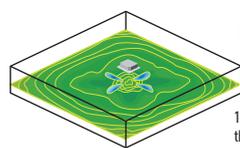
**INDIVIDUAL FLAP CONTROL.**

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.

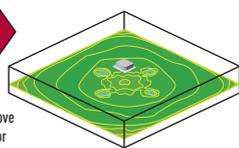
### New 360° Air Flow for improved comfort

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**

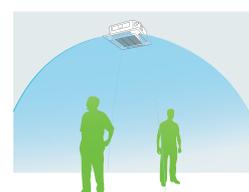


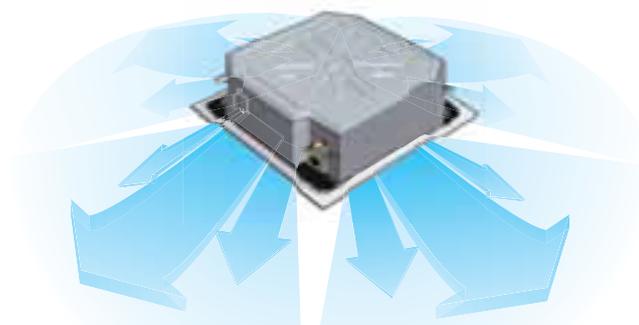
Simulated condition: Floor area: 225 m<sup>2</sup>.  
Ceiling height: 3 m, Unit 12.5 kW type.  
Air-volume: 1,200 m<sup>3</sup>/h in cooling.

**CURRENT MODEL**



**360° AIR FLOW**



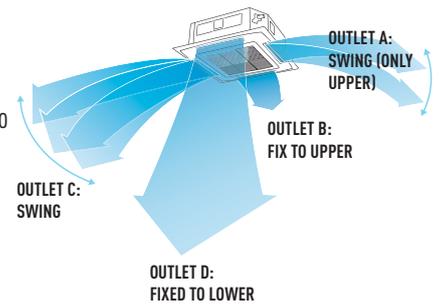


**Ample airflow: 36 m<sup>3</sup>/min**  
Industry's highest in the 140 PU class.

**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.

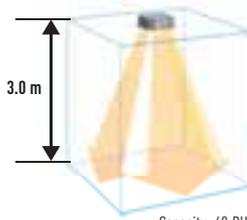


\* It needs pre-setting for this function at System Test-run procedure.

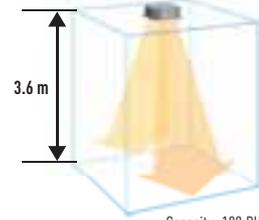
**High-Ceiling Installation (Up to 5 m for 100 PU and higher models)**

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

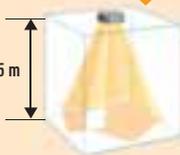


Capacity: 100 PU, 125 PU, 140 PU

**INDUSTRY'S TOP-CLASS**

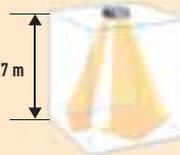
4-way discharge high ceiling settings<sup>2</sup>

4.5 m



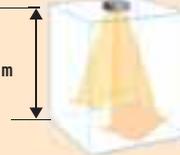
3-way discharge with the optional air-blocking materials

4.7 m



2-way discharge with the optional air-blocking materials

5 m



**Ceiling height guidelines**

| Settings <sup>1</sup>            | 4-way discharge               |                                   | 3-way discharge (optional air-blocking materials) |     | 2-way discharge (optional air-blocking materials) <sup>2</sup> |
|----------------------------------|-------------------------------|-----------------------------------|---|-----|--|
|                                  | Factory settings <sup>1</sup> | High ceiling setting <sup>1</sup> | High ceiling setting <sup>2</sup>                 |     |  |
| 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  |

<sup>1</sup> When using the unit in a configuration other than the factory settings, it is necessary to make settings on site to increase airflow. <sup>2</sup> 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.

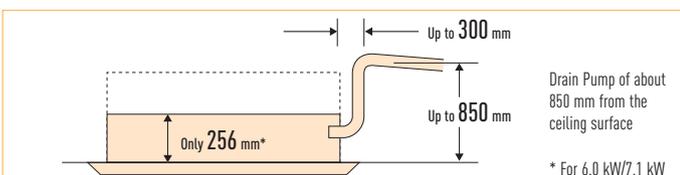


**Lighter and Slimmer, Easier Installation**

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.

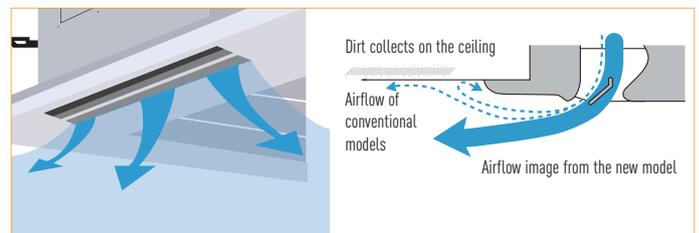
**ONE OF THE INDUSTRY'S THINNEST PANELS**



**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.

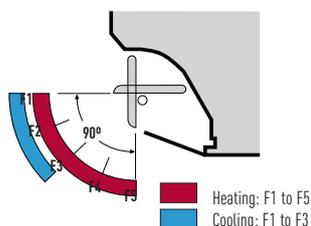
#### Smooth and durable design

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

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



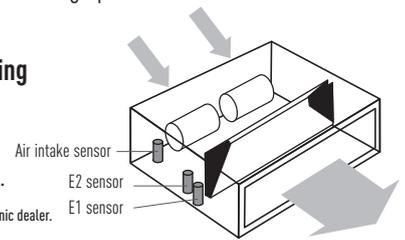
#### Discharge air temperature control

• Possible to reduce cold drafts at heating operation.

#### Cold Drafts Reduction at Heating

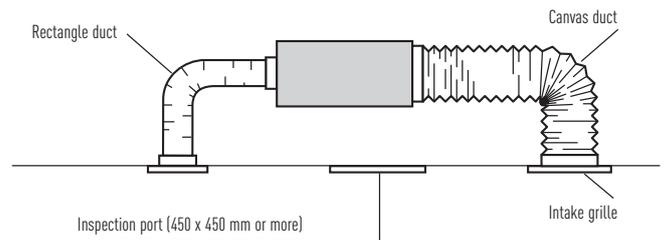
• Accurate temperature measurement by E1/E2 sensor to reduce cold drafts at heating.

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



### System Example

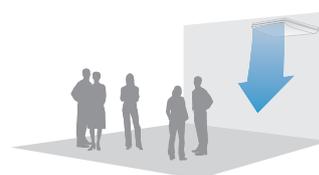
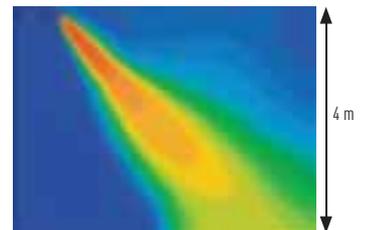
An inspection port (450 mm x 450 mm or more) is required at the control-box side of the indoor unit body.



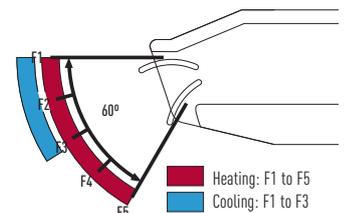
### Ceiling

#### 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.

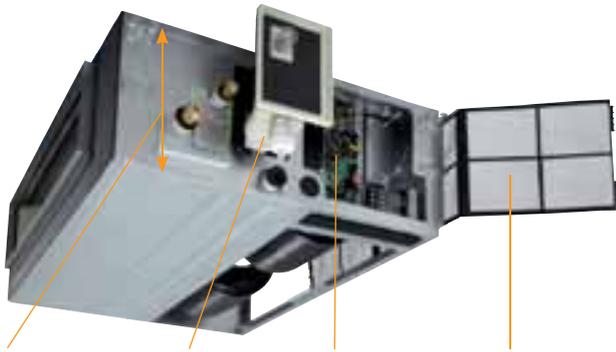


#### Further comfort improvement with airflow distribution



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

## High Static Pressure Hide Away



### 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 |

### 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

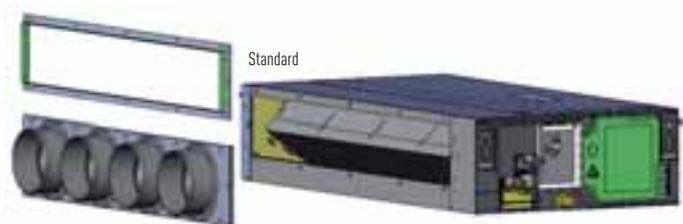
Filter can be pull out from the side of the unit. Filter can be folded to be compact. It's easy to handle the filter part for the maintenance through maintenance opening.



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 □200 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



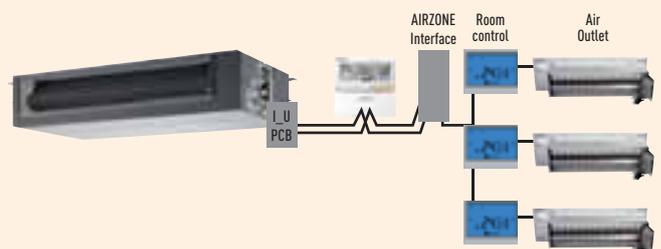
Different type of outlets



Also plenum automatic doors



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



## Range of Commercial units

| WALL-MOUNTED FOR PROFESSIONAL APPLICATIONS<br>WALL MOUNTED PKEA* | 2.8 kW  | 3.2 kW   | 4.5 kW  | 5.0 kW  |
|--|---|--|---|---|
|  |  |  |  |  |
|  | CS-E9PKEA   | CS-E12PKEA   | CS-E15PKEA  | CS-E18PKEA  |

**NEW**

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

03.01.13

| INDOOR UNITS PACi STANDARD AND ELITE<br>WALL PACi // INVERTER+            | 3.6 kW   | 4.6 kW  | 5.0 kW   | 6.0 kW   |
|---|--|---|--|--|
|   |   |   |   |   |
|   | S-36PK1E5  | S-45PK1E5   | S-50PK1E5  | S-60PK1E5  |
| 4-WAY 60x60 CASSETTE PACi // INVERTER+<br>(FOR TWIN COMBINATIONS)         |   |   |   |   |
|   | S-36PY1E5  | S-45PY1E5   | S-50PY1E5  | S-60PY1E5  |
| 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+ <sup>1</sup>                                    |  |  |  |  |
|   | S-36PT2E5  | S-45PT2E5   | S-50PT2E5  | S-60PT2E5  |
| HIGH STATIC PRESSURE HIDE AWAY 20.0-25.0 kW PACi // THREE PHASE INVERTER+ |  |   |  |  |

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

| OUTDOOR UNITS PACi STANDARD AND ELITE<br>PACi STANDARD |  |  | 5.0 kW  | 6.0 kW  |
|--|--|--|---|---|
|  |  |  |   |  |
|  |  |  |   | U-60PEY1E5 <sup>1</sup>   |
| PACi ELITE   |  |  |  |  |
|  |  |  | U-50PE1E5 <sup>1</sup>  | U-60PE1E5 <sup>1</sup>  |

<sup>1</sup> Single Phase <sup>III</sup> Three Phase

| AHU KIT PACi STANDARD AND ELITE<br>AHU Kit |  |  | 5.0 kW  | 6.0 kW  |
|--|--|--|---|---|
|  |  |  |  |  |
|  |  |  | CZ-280PAH1  | CZ-280PAH1  |

| AIR CURTAIN PACi*<br>AIR CURTAIN JET NOZZLE | 10.0 kW   | 20.0 kW | 25.0 kW   |
|---|---|---------|---|
|   |  |         |  |
|   | PAW-10PAIRC-MS  |         | PAW-20PAIRC-MS  |

**NEW**

\* Available from April 2013.

| 7.1 kW  | 10.0 kW  | 12.5 kW  | 14.0 kW   | 20.0 kW  | 25.0 kW   |
|---|--|--|---|--|---|
| <br>S-71PK1E5  |  |  |   |  |   |
| <br>S-71PU1E5  | <br>S-100PU1E5  | <br>S-125PU1E5  | <br>S-140PU1E5  |  |   |
| <br>S-71PN1E5  | <br>S-100PN1E5  | <br>S-125PN1E5  | <br>S-140PN1E5  |  |   |
| <br>S-71PF1E5  | <br>S-100PF1E5  | <br>S-125PF1E5  | <br>S-140PF1E5  |  |   |
| <br>S-71PT2E5 | <br>S-100PT2E5 | <br>S-125PT2E5 | <br>S-140PT2E5 | <br>S-200PE1E8A | <br>S-250PE1E8 |

| 7.1 kW  | 10.0 kW   | 12.5 kW   | 14.0 kW   | 20.0 kW  | 25.0 kW  |
|---|---|---|---|--|--|
| <br>U-71PEY1E5 <sup>1</sup>                            | <br>U-100PEY1E5 <sup>1</sup> // U-100PEY1E8 <sup>III</sup> | <br>U-125PEY1E5 <sup>1</sup> // U-125PEY1E8 <sup>III</sup> | <br>U-140PEY1E8 <sup>III</sup>                           |  |  |
| <br>U-71PE1E5 <sup>1</sup> // U-71PE1E8 <sup>III</sup> | <br>U-100PE1E5 <sup>1</sup> // U-100PE1E8 <sup>III</sup>   | <br>U-125PE1E5 <sup>1</sup> // U-125PE1E8 <sup>III</sup>   | <br>U-140PE1E5 <sup>1</sup> // U-140PE1E8 <sup>III</sup> | <br>U-200PE1E8 <sup>III</sup> | <br>U-250PE1E8 <sup>III</sup> |

| 7.1 kW  | 10.0 kW   | 12.5 kW   | 14.0 kW  | 20.0 kW   | 25.0 kW   |
|---|---|---|--|---|---|
| <br>CZ-280PAH1 | <br>CZ-280PAH1 | <br>CZ-280PAH1 | <br>CZ-280PAH1 | <br>CZ-280PAH1 | <br>CZ-280PAH1 |

**AIR CURTAIN PACi\***  
AIR CURTAIN STANDARD NOZZLE

**NEW**

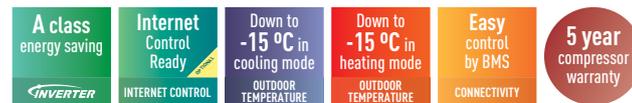
| 10.0 kW   | 20.0 kW  | 25.0 kW   |
|---|--|---|
| <br>PAW-10PAIRC-MJ | <br>PAW-15PAIRC-MJ | <br>PAW-20PAIRC-MJ |

\* Available from April 2013.

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 <sup>1)</sup>                           | 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                       |
| <b>Indoor Unit</b>                          |                          |               |                           |                           |                            |                            |
| Power source                                | V                        |               | 230                       | 230                       | 230                        | 230                        |
| Recommended Fuse                            | A                        |               |                           |                           |                            |                            |
| Recommended power cable section             | mm                       |               |                           |                           |                            |                            |
| Connection indoor / outdoor                 | mm                       |               | 4 x 1.5                   | 4 x 1.5                   | 4 x 1.5                    | 4 x 2.5                    |
| Current (Nominal)                           | Cooling / Heating        | A             | 2.5 / 3.3                 | 4.0 / 4.2                 | 5.4 / 6.5                  | 6.4 / 6.8                  |
| Max. Current                                |                          | A             | 7.8                       | 8.4                       | 9.6                        | 11.3                       |
| Air Volume                                  | Cooling / Heating        | m³/h          | 798 / 876                 | 816 / 882                 | 846 / 900                  | 1074 / 1158                |
| Moisture removal volume                     |                          | l/h           | 1.5                       | 2.0                       | 2.4                        | 2.8                        |
| Sound pressure Level <sup>2)</sup>          | 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 <sup>3)</sup>                    | 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                         |                          |               |                           |                           |                            |                            |
| <b>Outdoor Unit</b>                         |                          |               |                           |                           |                            |                            |
| Air Volume                                  | Cooling / Heating        | m³/h          | 1878 / 1782               | 1974 / 1926               | 2052 / 1980                | 2352 / 2274                |
| Sound pressure Level <sup>2)</sup>          | 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 <sup>3)</sup>                    | 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) <sup>4)</sup> | Max                      | m             | 5                         | 5                         | 15                         | 15                         |
|   | Min / Max                | m             | 3-15                      | 3-15                      | 3-15                       | 3-20                       |
| Piping length                               | Min / Max                | m             | 3-15                      | 3-15                      | 3-15                       | 3-20                       |
| Precharge length                            | Max                      | m             | 7.5                       | 7.5                       | 7.5                        | 7.5                        |
| Additional charge                           |                          | g/m           | 20                        | 20                        | 20                         | 20                         |
| Operating range                             | Cooling Min / Max        | °C            | -15 / +43                 | -15 / +43                 | -15 / +43                  | -15 / +43                  |
|   | Heating Min / Max        | °C            | -15 / +24                 | -15 / +24                 | -15 / +24                  | -15 / +24                  |

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. 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.



**INCLUDED ON THE KIT**

Timer remote controller



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

**Technical Focus**

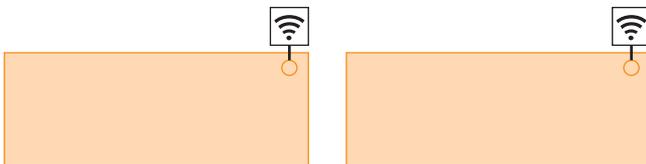
- DESIGN FOR 24H/7D A WEEK OPERATION
- HIGHLY EFFICIENT EVEN AT -15 °C

**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)

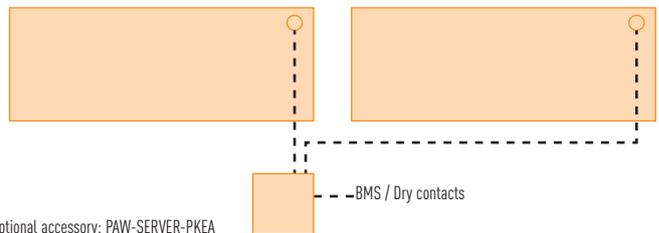
**2 INTERFACE OPTIONS TO MANAGE SERVER ROOM OPERATION**

- **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)



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                |
| <b>KIT</b>  |                            | KIT-60PYK1E5*    |                     | KIT-71PYK1E5*         |
| <b>Indoor</b>   |                            | S-60PK1E5        |                     | S-71PK1E5             |
| <b>Outdoor</b>  |                            | U-60PEY1E5       |                     | U-71PEY1E5            |
| <b>Wireless control</b>                               | <b>Included on the kit</b> | CZ-RTC2          |                     | CZ-RTC2               |
| <b>Cooling capacity</b>                               | <b>Nom. (Min-Max)</b>      | <b>kW</b>        | 6.0 (2.0-7.0)       | 7.1 (2.0-7.7)         |
| <b>EER<sup>1)</sup></b>                               | <b>Nom. (Min-Max)</b>      | <b>W/W</b>       | 3.23 <b>A</b>       | 2.90 <b>D</b>         |
| <b>SEER</b>   |                            | <b>W/W</b>       | 5.4 <b>A</b>        | 5.1 <b>A</b>          |
| <b>Pdesign</b>  |                            | <b>kW</b>        | 6.0                 | 7.1                   |
| <b>Power input Cooling</b>                            | <b>Nom. (Min-Max)</b>      | <b>kW</b>        | 1.860 (0.325-2.750) | 2.450 (0.325-3.000)   |
| <b>Annual Energy Consumption (ErP)<sup>2-a)</sup></b> |                            |                  | 930                 | 1225                  |
| <b>Annual Energy Consumption (ErP)<sup>2-b)</sup></b> |                            |                  | 389                 | 487                   |
| <b>Heating capacity</b>                               | <b>Nom. (Min-Max)</b>      | <b>kW</b>        | 6.0 (1.8-7.0)       | 7.1 (1.8-8.1)         |
| <b>COP1)</b>  | <b>Nom. (Min-Max)</b>      | <b>W/W</b>       | 4.00 <b>A</b>       | 3.74 <b>A</b>         |
| <b>SCOP</b>   |                            | <b>W/W</b>       | 3.9 <b>A</b>        | 3.9 <b>A</b>          |
| <b>Pdesign at -10 °C</b>                              |                            | <b>kW</b>        | 6.0                 | 6.0                   |
| <b>Power input Heating</b>                            | <b>Nom. (Min-Max)</b>      | <b>kW</b>        | 1.500 (0.275-2.250) | 1.900 (0.275-2.550)   |
| <b>Annual Energy Consumption (ErP)<sup>2-b)</sup></b> |                            |                  | 2154                | 2154                  |
| <b>Indoor unit</b>                                    |                            |                  |                     |                       |
| <b>Air Volume</b>                                     | <b>Cool / Heat</b>         | <b>m³/h</b>      | 1080 / 1080         | 1080 / 1080           |
| <b>Moisture removal volume</b>                        |                            | <b>U/h</b>       | 4.2                 | 4.2                   |
| <b>Sound pressure Level</b>                           | <b>Cool (Hi/Me/Lo)</b>     | <b>dB(A)</b>     | 47 / 44 / 40        | 47 / 44 / 40          |
|   | <b>Heat (Hi/Me/Lo)</b>     | <b>dB(A)</b>     | 47 / 44 / 40        | 47 / 44 / 40          |
| <b>Sound power level</b>                              | <b>Cool (Hi)</b>           | <b>dB</b>        | 64                  | 64                    |
|   | <b>Heat (Hi)</b>           | <b>dB</b>        | 64                  | 64                    |
| <b>Dimensions</b>                                     | <b>H x W x D</b>           | <b>mm</b>        | 300 x 1065 x 230    | 300 x 1065 x 230      |
| <b>Net weight</b>                                     |                            | <b>kg</b>        | 14.5                | 14.5                  |
| <b>Outdoor unit</b>                                   |                            |                  |                     |                       |
| <b>Power source</b>                                   | <b>V</b>                   | 220 / 230 / 240  |                     | 220 / 230 / 240       |
| <b>Recommended fuse</b>                               |                            |                  |                     |                       |
| <b>Recommended cable size</b>                         |                            | <b>m</b>         |                     |                       |
| <b>Connection</b>                                     |                            | <b>mm²</b>       |                     |                       |
| <b>Current Cooling</b>                                |                            | <b>A</b>         | 8.80 / 8.50 / 8.25  | 11.70 / 11.30 / 10.90 |
| <b>Current Heating</b>                                |                            | <b>A</b>         | 7.05 / 6.80 / 6.60  | 9.00 / 8.70 / 8.40    |
| <b>Air Volume</b>                                     | <b>Cool / Heat</b>         | <b>m³/h</b>      | 1800 / 2100         | 2340                  |
| <b>Sound pressure Level<sup>3)</sup></b>              | <b>Cool / Heat (Hi)</b>    | <b>dB(A)</b>     | 48 / 50             | 50 / 52               |
| <b>Sound power level</b>                              | <b>Cool / Heat (Hi)</b>    | <b>dB</b>        | 65 / 69             | 70 / 70               |
| <b>Dimensions</b>                                     | <b>H x W x D</b>           | <b>mm</b>        | 569 x 790 x 285     | 569 x 790 x 285       |
| <b>Net weight</b>                                     |                            | <b>kg</b>        | 42                  | 42                    |
| <b>Piping connections</b>                             | <b>Liquid pipe</b>         | <b>Inch (mm)</b> | 3/8 (9.52)          | 3/8 (9.52)            |
|   | <b>Gas pipe</b>            | <b>Inch (mm)</b> | 5/8 (15.88)         | 5/8 (15.88)           |
| <b>Refrigerant loading</b>                            | <b>R410A</b>               | <b>kg</b>        | 1.7                 | 1.7                   |
| <b>Elevation dif. (in/out)<sup>4)</sup></b>           | <b>Max</b>                 | <b>m</b>         | 30                  | 30                    |
| <b>Piping length</b>                                  | <b>Min/Max</b>             | <b>m</b>         | 50                  | 50                    |
| <b>Precharge length</b>                               | <b>Max</b>                 | <b>m</b>         | 20                  | 20                    |
| <b>Additional charge</b>                              |                            | <b>g/m</b>       | 40                  | 40                    |
| <b>Operating range outdoor</b>                        | <b>Cool Min/Max</b>        | <b>°C</b>        | -10 / 43            | -10 / 43              |
|   | <b>Heat Min/Max</b>        | <b>°C</b>        | -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

**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

Possible  
to use on  
**R22** pipings

SEER and SCOP: For KIT-60PYK1E5



U-60PEY1E5  
U-71PEY1E5

INCLUDED ON THE KIT

Timer remote controller  
CZ-RTC2



OPTIONAL CONTROLLERS

Wireless control  
CZ-RWSK2



Simplified remote controller  
CZ-REZC2



COMPATIBLE WITH ALL ECOi CONNECTIVITY SOLUTIONS



ELITE

|   |  | Single Phase                  |  | 6.0 kW              |  | 7.1 kW                      |  | Three Phase                 |  |
|---|--|-------------------------------|--|---------------------|--|-----------------------------|--|-----------------------------|--|
|   |  | 5.0 kW                        |  | KIT-60PEK1E5*       |  | KIT-71PEK1E5                |  | KIT-71PEK1E8                |  |
| <b>KIT</b>  |  | KIT-50PEK1E5*                 |  | S-50PK1E5           |  | S-60PK1E5                   |  | S-71PK1E5                   |  |
| <b>Indoor</b>   |  | U-50PE1E5                     |  | U-60PE1E5           |  | U-71PE1E5                   |  | U-71PE1E8                   |  |
| <b>Outdoor</b>  |  | CZ-RTC2                       |  | CZ-RTC2             |  | CZ-RTC2                     |  | CZ-RTC2                     |  |
| <b>Wireless control</b>                               |  | Included on the kit           |  | CZ-RTC2             |  | CZ-RTC2                     |  | CZ-RTC2                     |  |
| <b>Cooling capacity</b>                               |  | Nom. (Min-Max) kW             |  | 5.0 (1.5-5.6)       |  | 6.0 (2.5-7.1)               |  | 7.1 (2.5-8.0)               |  |
| <b>EER<sup>1)</sup></b>                               |  | Nom. (Min-Max) kW             |  | 3.21 <b>A</b>       |  | 3.85 (5.56 - 3.55) <b>A</b> |  | 3.40 (5.56 - 3.02) <b>A</b> |  |
| <b>SEER</b>   |  | W/W                           |  | 6.0 <b>A+</b>       |  | 6.6 <b>A++</b>              |  | 6.1 <b>A++</b>              |  |
| <b>Pdesign</b>  |  | kW                            |  | 5.0                 |  | 6.0                         |  | 7.1                         |  |
| <b>Power input Cooling</b>                            |  | Nom. (Min-Max) kW             |  | 1.560 (0.260-2.250) |  | 1.560 (0.450-2.000)         |  | 2.090 (0.450-2.650)         |  |
| <b>Annual Energy Consumption (ErP)<sup>2-3)</sup></b> |  | 780                           |  | 780                 |  | 1045                        |  | 1045                        |  |
| <b>Annual Energy Consumption (ErP)<sup>2-3)</sup></b> |  | 292                           |  | 318                 |  | 376                         |  | 407                         |  |
| <b>Heating capacity</b>                               |  | Nom. (Min-Max) kW             |  | 5.6 (1.5-6.5)       |  | 7.0 (2.0-8.0)               |  | 8.0 (2.8-9.0)               |  |
| <b>COP<sup>1)</sup></b>                               |  | Nom. (Min-Max) W/W            |  | 3.73 <b>A</b>       |  | 3.85 (5.00 - 3.23) <b>A</b> |  | 3.76 (5.00-3.10) <b>A</b>   |  |
| <b>SCOP</b>   |  | W/W                           |  | 3.9 <b>A</b>        |  | 3.9 <b>A</b>                |  | 3.8 <b>A</b>                |  |
| <b>Pdesign at -10 °C</b>                              |  | kW                            |  | 4.0                 |  | 6.0                         |  | 7.1                         |  |
| <b>Power input Heating</b>                            |  | Nom. (Min-Max) kW             |  | 1.500 (0.220-2.450) |  | 1.820 (0.400-2.480)         |  | 2.130 (0.400-2.900)         |  |
| <b>Annual Energy Consumption (ErP)<sup>2-3)</sup></b> |  | 1436                          |  | 780                 |  | 2548                        |  | 2616                        |  |
| <b>Indoor unit</b>                                    |  |                               |  |                     |  |                             |  |                             |  |
| <b>Air Volume</b>                                     |  | Cool / Heat m <sup>3</sup> /h |  | 840 / 840           |  | 1080 / 1080                 |  | 1080 / 1080                 |  |
| <b>Moisture removal volume</b>                        |  | U/h                           |  | 3.0                 |  | 3.4                         |  | 4.2                         |  |
| <b>Sound pressure Level</b>                           |  | Cool (Hi/Me/Lo) dB(A)         |  | 40 / 36 / 32        |  | 47 / 44 / 40                |  | 47 / 44 / 40                |  |
|   |  | Heat (Hi/Me/Lo) dB(A)         |  | 40 / 36 / 32        |  | 47 / 44 / 40                |  | 47 / 44 / 40                |  |
| <b>Sound power level</b>                              |  | Cool (Hi) dB                  |  | 57                  |  | 64                          |  | 64                          |  |
|   |  | Heat (Hi) dB                  |  | 57                  |  | 64                          |  | 64                          |  |
| <b>Dimensions</b>                                     |  | H x W x D mm                  |  | 300 x 1065 x 230    |  | 300 x 1065 x 230            |  | 300 x 1065 x 230            |  |
| <b>Net weight</b>                                     |  | kg                            |  | 13.0                |  | 14.5                        |  | 14.5                        |  |
| <b>Outdoor unit</b>                                   |  |                               |  |                     |  |                             |  |                             |  |
| <b>Power source</b>                                   |  | V                             |  | 220 / 240           |  | 220 / 240                   |  | 220 / 240                   |  |
| <b>Recommended fuse</b>                               |  |                               |  |                     |  |                             |  | 380 / 415                   |  |
| <b>Recommended cable size</b>                         |  | m                             |  |                     |  |                             |  |                             |  |
| <b>Connection</b>                                     |  | mm <sup>2</sup>               |  |                     |  | 2 x 1.5 or 2.5              |  | 2 x 1.5 or 2.5              |  |
| <b>Current Cooling</b>                                |  | Nom. (Min-Max) A              |  | 7.25 / 7.00 / 6.80  |  | 7.15                        |  | 9.40                        |  |
| <b>Current Heating</b>                                |  | Nom. (Min-Max) A              |  | 6.95 / 6.75 / 6.50  |  | 8.15                        |  | 9.50                        |  |
| <b>Air Volume</b>                                     |  | Cool / Heat m <sup>3</sup> /h |  | 1800 / 2100         |  | 3600 / 3600                 |  | 3600 / 3600                 |  |
| <b>Sound pressure Level<sup>3)</sup></b>              |  | Cool / Heat (Hi) dB(A)        |  | 46 / 50             |  | 48 / 50                     |  | 48 / 50                     |  |
| <b>Sound power level</b>                              |  | Cool / Heat (Hi) dB           |  | 65 / 69             |  | 65 / 67                     |  | 65 / 67                     |  |
| <b>Dimensions</b>                                     |  | H x W x D mm                  |  | 569 x 790 x 285     |  | 996 x 940 x 340             |  | 996 x 940 x 340             |  |
| <b>Net weight</b>                                     |  | kg                            |  | 42                  |  | 68                          |  | 71                          |  |
| <b>Piping connections</b>                             |  | Liquid pipe Inch (mm)         |  | 1/4 (6.35)          |  | 3/8 (9.52)                  |  | 3/8 (9.52)                  |  |
|   |  | Gas pipe Inch (mm)            |  | 1/2 (12.7)          |  | 5/8 (15.88)                 |  | 5/8 (15.88)                 |  |
| <b>Refrigerant loading</b>                            |  | R410A kg                      |  | 1.65                |  | 2                           |  | 2.35                        |  |
| <b>Elevation dif. (in/out)<sup>4)</sup></b>           |  | Max m                         |  | 30                  |  | 30                          |  | 30                          |  |
| <b>Piping length</b>                                  |  | Min/Max m                     |  | 40                  |  | 5-50                        |  | 5-50                        |  |
| <b>Precharge length</b>                               |  | Max m                         |  | 30                  |  | 30                          |  | 30                          |  |
| <b>Additional charge</b>                              |  | g/m                           |  | 20                  |  | 50                          |  | 50                          |  |
| <b>Operating range outdoor</b>                        |  | Cool Min/Max °C               |  | -15 / 46            |  | -15 / 46                    |  | -15 / 46                    |  |
|   |  | Heat Min/Max °C               |  | -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.

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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

Possible  
to use on  
R22 pipings

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

**5 year**  
compressor  
warranty



## 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

|   |                 |                   |                                  | Single Phase                     |           |
|---|-----------------|-------------------|----------------------------------|----------------------------------|-----------|
|   |                 |                   |                                  | 5.0 kW                           | 4.5 kW    |
| <b>Indoor</b>                                   |                 |                   |                                  | S-50PY1E5                        | S-60PY1E5 |
| <b>Panel</b>                                    |                 |                   |                                  | CZ-KPY2                          | CZ-KPY2   |
| <b>Wired remote control</b>                     |                 |                   |                                  | CZ-RTC2                          | CZ-RTC2   |
| Cooling capacity                                | Nom. (Min-Max)  | kW                | 5.0 (1.5-5.6)                    | 6.0 (2.0-7.0)                    |           |
| EER <sup>1)</sup>                               | Nom. (Min-Max)  | W/W               | 3.04 (5.58 - 2.29) ◀ B           | 3.23 ◀ A                         |           |
| SEER  |                 | W/W               | 5.9 ◀ A+                         | 5.4 ◀ A                          |           |
| Pdesign   |                 | kW                | 5.0                              | 6.0                              |           |
| Power input Cooling                             | Nom. (Min-Max)  | kW                | 1.640 (0.260-2.450)              | 1.860 (0.325-2.750)              |           |
| Annual Energy Consumption <sup>2-a)</sup>       |                 | kWh               | 820                              | 930                              |           |
| Annual Energy Consumption(ErP) <sup>2-b)</sup>  |                 | kWh               | 297                              | 389                              |           |
| Heating capacity                                | Nom. (Min-Max)  | kW                | 5.6 (1.5-6.5)                    | 6.0 (1.8-7.0)                    |           |
| COP1)   | Nom. (Min-Max)  | W/W               | 3.12 (6.82 - 2.24) ◀ D           | 4.00 ◀ A                         |           |
| SCOP  |                 | W/W               | 3.8 ◀ A                          | 3.9 ◀ A                          |           |
| Pdesign at -10 °C                               |                 | kW                | 4.0                              | 6.0                              |           |
| Power input Heating                             | Nom. (Min-Max)  | kW                | 1.790 (0.220-2.900)              | 1.500 (0.275-2.250)              |           |
| Annual Energy Consumption (ErP) <sup>2-b)</sup> |                 | kWh               | 1474                             | 2154                             |           |
| <b>Indoor unit</b>                              |                 |                   |                                  |                                  |           |
| Air Volume                                      | Cooling/Heating | m <sup>3</sup> /h | 750 / 750                        | 636 / 636                        |           |
| Moisture removal volume                         |                 | l/h               | 2.8                              | 2.5                              |           |
| Sound pressure Level                            | Cool (Hi/Me/Lo) | dB(A)             | 41 / 37 / 33                     | 36 / 32 / 28                     |           |
|   | Heat (Hi/Me/Lo) | dB(A)             | 41 / 37 / 33                     | 36 / 32 / 28                     |           |
| Sound power Level                               | Cooling (Hi)    | dB                | 58 / 54 / 50                     | 53                               |           |
|   | Heating (Hi)    | dB                | 58 / 54 / 50                     | 53                               |           |
| Dimensions H x W x D                            | Indoor (Panel)  | mm                | 283 x 575 x 575 / 30 x 625 x 625 | 283 x 575 x 575 / 30 x 625 x 625 |           |
| Net weight                                      | Indoor (Panel)  | kg                | 16                               | 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.

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### STANDARD

PANEL

CZ-KPY2



INCLUDED IN THE KIT

Timer remote controller  
CZ-RTC2



OPTIONAL

Wireless remote controller  
CZ-RWSY2



Simplified remote controller  
CZ-RE2C2



COMPATIBLE WITH ALL ECOi CONNECTIVITY SOLUTIONS



ELITE

|   |                  |           | Single Phase                     |                                  |                                  |                                  |
|---|------------------|-----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|   |                  |           | 3.6 kW                           | 4.5 kW                           | 5.0 kW                           |                                  |
| <b>KIT</b>                                      |                  |           |                                  |                                  |                                  |                                  |
| <b>Indoor</b>                                   |                  |           | S-36PY1E5                        | S-45PY1E5                        | S-50PY1E5                        | KIT-50PY1E5*                     |
| <b>Outdoor</b>                                  |                  |           |                                  |                                  |                                  | U-50PE1E5                        |
| <b>Panel</b>                                    |                  |           | CZ-KPY2                          | CZ-KPY2                          | CZ-KPY2                          | CZ-KPY2                          |
| <b>Wired remote control</b>                     |                  |           | CZ-RTC2                          | CZ-RTC2                          | CZ-RTC2                          | CZ-RTC2                          |
| Cooling capacity                                | Nom. (Min-Max)   | kW        | 3.6                              | 4.5                              | 5.0                              | 5.0 (1.5-5.6)                    |
| EER <sup>1)</sup>                               | Nom. (Min-Max)   | W/W       |                                  |                                  |                                  | 3.04 (5.58 - 2.29) <b>B</b>      |
| SEER  |                  | W/W       |                                  |                                  |                                  | 5.9 <b>A+</b>                    |
| Pdesign   |                  | kW        |                                  |                                  |                                  | 5.0                              |
| Power input Cooling                             | Nom. (Min-Max)   | kW        |                                  |                                  |                                  | 1.640 (0.260-2.450)              |
| Annual Energy Consumption <sup>2-a)</sup>       |                  | kWh       |                                  |                                  |                                  | 820                              |
| Annual Energy Consumption(ErP) <sup>2-b)</sup>  |                  | kWh       |                                  |                                  |                                  | 297                              |
| Heating capacity                                | Nom. (Min-Max)   | kW        | 4.2                              | 5.2                              | 5.6                              | 5.6 (1.5-6.5)                    |
| COP1)   | Nom. (Min-Max)   | W/W       |                                  |                                  |                                  | 3.12 (6.82 - 2.24) <b>D</b>      |
| SCOP  |                  | W/W       |                                  |                                  |                                  | 3.8 <b>A</b>                     |
| Pdesign at -10 °C                               |                  | kW        |                                  |                                  |                                  | 4.0                              |
| Power input Heating                             | Nom. (Min-Max)   | kW        |                                  |                                  |                                  | 1.790 (0.220-2.900)              |
| Annual Energy Consumption (ErP) <sup>2-b)</sup> |                  | kWh       |                                  |                                  |                                  | 1474                             |
| <b>Indoor unit</b>                              |                  |           |                                  |                                  |                                  |                                  |
| Air Volume                                      | Cooling/Heating  | m³/h      | 540 / 540                        | 636 / 636                        | 750 / 750                        | 750 / 750                        |
| Moisture removal volume                         |                  | l/h       | 2.1                              | 2.5                              | 2.8                              | 2.8                              |
| Sound pressure Level                            | Cool (Hi/Me/Lo)  | dB(A)     | 32 / 29 / 26                     | 36 / 32 / 28                     | 41 / 37 / 33                     | 41 / 37 / 33                     |
|   | Heat (Hi/Me/Lo)  | dB(A)     | 32 / 29 / 26                     | 36 / 32 / 28                     | 41 / 37 / 33                     | 41 / 37 / 33                     |
| Sound power Level                               | Cooling (Hi)     | dB        | 49                               | 53                               | 58 / 54 / 50                     | 58 / 54 / 50                     |
|   | Heating (Hi)     | dB        | 49                               | 53                               | 58 / 54 / 50                     | 58 / 54 / 50                     |
| Dimensions H x W x D                            | Indoor (Panel)   | mm        | 283 x 575 x 575 / 30 x 625 x 625 | 283 x 575 x 575 / 30 x 625 x 625 | 283 x 575 x 575 / 30 x 625 x 625 | 283 x 575 x 575 / 30 x 625 x 625 |
| Net weight                                      | Indoor (Panel)   | kg        | 16 (2.4)                         | 16 (2.4)                         | 16                               | 16                               |
| <b>Outdoor unit</b>                             |                  |           |                                  |                                  |                                  |                                  |
| Power source                                    |                  | V         |                                  |                                  |                                  | 220 / 240                        |
| Recommended fuse                                |                  |           |                                  |                                  |                                  |                                  |
| Recommended cable size                          |                  | m         |                                  |                                  |                                  |                                  |
| Connection                                      |                  | mm²       |                                  |                                  |                                  | 7.5                              |
| Current   | Cooling/Heating  | A         |                                  |                                  |                                  | 8.2                              |
| Air Volume                                      | Cooling/Heating  | m³/h      |                                  |                                  |                                  | 1800 / 2100                      |
| Sound pressure Level <sup>3)</sup>              | Cool / Heat (Hi) | dB(A)     |                                  |                                  |                                  | 46 / 50                          |
| Sound power Level                               | Cool / Heat (Hi) | dB        |                                  |                                  |                                  | 65 / 69                          |
| Dimensions                                      | H x W x D        | mm        |                                  |                                  |                                  | 569 x 790 x 285                  |
| Net weight                                      |                  | kg        |                                  |                                  |                                  | 42                               |
| Piping connections                              | Liquid pipe      | Inch (mm) |                                  |                                  |                                  | 1/4 (6.35)                       |
|   | Gas pipe         | Inch (mm) |                                  |                                  |                                  | 1/2 (12.7)                       |
| Refrigerant Loading                             | R410A            | kg        |                                  |                                  |                                  | 1.65                             |
| Elevation dif. (in/out) <sup>4)</sup>           | Max              | m         |                                  |                                  |                                  | 30                               |
| Piping length                                   | Min/Max          | m         |                                  |                                  |                                  | 5 - 40                           |
| Precharge length                                | Max              | m         |                                  |                                  |                                  | 30                               |
| Additional charge                               |                  | g/m       |                                  |                                  |                                  | 20                               |
| Operating range                                 | Cool Min/Max     | °C        |                                  |                                  |                                  | -15 / 46                         |
|   | Heat 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 May 2013.

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

Possible  
to use on  
**R22** pipings

5 year  
compressor  
warranty



U-50PE1E5

SEER and SCOP: For KIT-50PY1E5. Down to -15 °C in cooling mode: For KIT-50PY1E5. Down to -20 °C in heating mode: For KIT-50PY1E5.

## 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



|   |                  | 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                     |  |
| <b>KIT</b>  |                  | KIT-60PUY1E5*                 | KIT-71PUY1E5*        | KIT-100PUY1E5**       | KIT-125PUY1E5**           | KIT-100PUY1E8**           | KIT-125PUY1E8**           | KIT-140PUY1E8***            |  |
| <b>Indoor</b>   |                  | S-60PU1E5                     | S-71PU1E5            | S-100PU1E5            | S-125PU1E5                | S-100PU1E5                | S-125PU1E5                | S-140PU1E5                  |  |
| <b>Outdoor</b>  |                  | U-60PEY1E5                    | U-71PEY1E5           | U-100PEY1E5           | U-125PEY1E5               | U-100PEY1E8               | U-125PEY1E8               | U-140PEY1E8                 |  |
| <b>Panel</b>  |                  | CZ-KPU2                       | CZ-KPU2              | CZ-KPU2               | CZ-KPU2                   | CZ-KPU2                   | CZ-KPU2                   | CZ-KPU2                     |  |
| <b>Wired remote control</b>                           |                  | CZ-RTC2                       | CZ-RTC2              | CZ-RTC2               | CZ-RTC2                   | CZ-RTC2                   | CZ-RTC2                   | CZ-RTC2                     |  |
| <b>Cooling capacity</b>                               | 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)             |  |
| <b>EER<sup>1)</sup></b>                               | Nom. (Min-Max)   | W/W 3.55 <b>A</b>             | 3.24 <b>A</b>        | 3.11 <b>B</b>         | 3.11 (4.22-2.70) <b>B</b> | 3.11 (5.09-2.74) <b>B</b> | 3.11 (4.22-2.70) <b>B</b> | 3.25 (3.93 - 2.58) <b>A</b> |  |
| <b>SEER</b>   |                  | W/W 6.8 <b>A++</b>            | 6.3 <b>A++</b>       | 6.4 <b>A++</b>        | —                         | 6.2 <b>A++</b>            | —                         | —                           |  |
| <b>Pdesign</b>  |                  | kW 6.0                        | 7.1                  | 10                    | —                         | 10.0                      | —                         | —                           |  |
| <b>Power input Cooling</b>                            | 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)       | 4.310 (0.840-6.000)         |  |
| <b>Annual Energy Consumption<sup>2-a)</sup></b>       |                  | 845                           | 1095                 | 1610                  | 2010                      | 1610                      | 2010                      | 2155                        |  |
| <b>Annual Energy Consumption(ERP) 2-b)</b>            |                  | 309                           | 394                  | 547                   | —                         | 564                       | —                         | —                           |  |
| <b>Heating capacity</b>                               | 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)             |  |
| <b>COP1)</b>  | Nom. (Min-Max)   | W/W 4.05 <b>A</b>             | 3.78 <b>A</b>        | 3.80 <b>A</b>         | 3.80 (4.66-3.41) <b>A</b> | 3.80 (5.12-3.45) <b>A</b> | 3.80 (4.66-3.41) <b>A</b> | 4.00 (4.56 - 3.08) <b>A</b> |  |
| <b>SCOP</b>   |                  | W/W 4.0 <b>A+</b>             | 4.0 <b>A+</b>        | 4.0 <b>A+</b>         | —                         | 4.0 <b>A+</b>             | —                         | —                           |  |
| <b>Pdesign at -10 °C</b>                              |                  | kW 6.0                        | 6.0                  | 10.0                  | —                         | 10.0                      | —                         | —                           |  |
| <b>Power input Heating</b>                            | Nom. (Min-Max)   | kW 1.480 (0.275-2.200)        | 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)       | 3.500 (0.900-5.200)         |  |
| <b>Annual Energy Consumption (ErP)<sup>2-b)</sup></b> |                  | 2100                          | 2100                 | 3500                  | —                         | 3500                      | —                         | —                           |  |
| <b>Indoor unit</b>                                    |                  |                               |                      |                       |                           |                           |                           |                             |  |
| <b>Air Volume</b>                                     | Cool / Heat      | m <sup>3</sup> /h 960 / 960   | 1320 / 1320          | 1980 / 1980           | 2060 / 2060               | 1980 / 1980               | 2060 / 2060               | 2160 / 2160                 |  |
| <b>Moisture removal volume</b>                        |                  | U/h 3.0                       | 4.2                  | 6.0                   | 7.9                       | 6.0                       | 7.9                       | 9.0                         |  |
| <b>Sound pressure level</b>                           | 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                |  |
| <b>Sound power level</b>                              | 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                |  |
| <b>Dimensions H x W x D</b>                           | 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            |  |
| <b>Net weight</b>                                     | Indoor (Panel)   | kg 24 (4)                     | 24 (4)               | 27 (4)                | 27 (4)                    | 27 (4)                    | 27 (4)                    | 27 (4)                      |  |
| <b>Outdoor unit</b>                                   |                  |                               |                      |                       |                           |                           |                           |                             |  |
| <b>Power source</b>                                   | V                | 220 / 230 / 240               | 220 / 230 / 240      | 220 / 230 / 240       | 220 / 230 / 240           | 380 / 400 / 415           | 380 / 400 / 415           | 380 / 415                   |  |
| <b>Recommended fuse</b>                               |                  |                               |                      |                       |                           |                           |                           |                             |  |
| <b>Recommended cable size</b>                         | m                |                               |                      |                       |                           |                           |                           |                             |  |
| <b>Connection</b>                                     | mm <sup>2</sup>  |                               |                      |                       |                           |                           |                           | 2 x 1.5 or 2.5              |  |
| <b>Current Cooling</b>                                | 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                        |  |
| <b>Current Heating</b>                                | 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                        |  |
| <b>Air Volume</b>                                     | Cool / Heat      | m <sup>3</sup> /h 1800 / 2100 | 2340                 | 4560 / 4020           | 4800 / 4380               | 4560 / 4020               | 4800 / 4380               | 8100 / 6600                 |  |
| <b>Sound pressure level<sup>3)</sup></b>              | Cool / Heat (Hi) | dB(A) 48 / 50                 | 50 / 52              | 54 / 54               | 56 / 56                   | 54 / 54                   | 56 / 56                   | 54 / 53                     |  |
| <b>Sound power level</b>                              | Cool / Heat (Hi) | dB 65 / 69                    | 70 / 70              | 70 / 70               | 73 / 73                   | 70 / 70                   | 73 / 73                   | 71 / 70                     |  |
| <b>Dimensions</b>                                     | 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            |  |
| <b>Net weight</b>                                     |                  | kg 42                         | 42                   | 73                    | 85                        | 73                        | 85                        | 98                          |  |
| <b>Piping connections</b>                             | 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)                 |  |
| <b>Refrigerant loading</b>                            | R410A            | kg 1.7                        | 1.7                  | 2.60                  | 3.20                      | 2.60                      | 3.20                      | 3.4                         |  |
| <b>Elevation dif. (in/out)<sup>4)</sup></b>           | Max              | m 30                          | 30                   | 30                    | 30                        | 30                        | 30                        | 30                          |  |
| <b>Piping length</b>                                  | Min/Max          | m 50                          | 50                   | 5 / 50                | 5 / 50                    | 5 / 50                    | 5 / 50                    | 5-75                        |  |
| <b>Precharge length</b>                               | Max              | m 20                          | 20                   | 30                    | 30                        | 30                        | 30                        | 30                          |  |
| <b>Additional charge</b>                              |                  | g/m 40                        | 40                   | 50                    | 50                        | 50                        | 50                        | 50                          |  |
| <b>Operating range outdoor</b>                        | 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+**

**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

Possible to use on  
**R22** pipings

R22 RENEWAL

5 year compressor warranty



U-60PEY1E5  
U-71PEY1E5

U-100PEY1E5 U-125PEY1E5  
U-140PEY1E8 U-100PEY1E8

SEER and SCOP: For KIT-60PUY1E5

PANEL

CZ-KPU2



OPTIONAL CONTROLLERS

Timer remote controller  
CZ-RTC2



Wireless remote controller  
CZ-RWSU2



Simplified remote controller  
CZ-RE2C



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-50PU1E5*               | KIT-60PU1E5               | KIT-71PU1E5               | KIT-100PU1E5              | KIT-125PU1E5              | KIT-140PU1E5              | KIT-PE71U1E8              | KIT-100PU1E8              | KIT-125PU1E8              | KIT-140PU1E8              |
| Indoor   |                  | S-50PU1E5                  | S-60PU1E5                 | S-71PU1E5                 | S-100PU1E5                | S-125PU1E5                | S-140PU1E5                | S-71PU1E5                 | S-100PU1E5                | S-125PU1E5                | S-140PU1E5                |
| Outdoor  |                  | U-50PE1E5                  | U-60PE1E5                 | U-71PE1E5                 | U-100PE1E5                | U-125PE1E5                | U-140PE1E5                | U-71PE1E8                 | U-100PE1E8                | U-125PE1E8                | U-140PE1E8                |
| Panel  |                  | CZ-KPU2                    | CZ-KPU2                   | CZ-KPU2                   | 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                   | 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 <sup>1)</sup>                              | Nom. (Min-Max)   | kW 3.70 <b>A</b>           | 4.06 (5.56-3.55) <b>A</b> | 3.94 (5.56-3.02) <b>A</b> | 4.20 (3.93-3.38) <b>A</b> | 3.60 (3.93-3.04) <b>A</b> | 3.25 (3.93-2.58) <b>A</b> | 3.94 (5.56-3.02) <b>A</b> | 4.20 (3.93-3.38) <b>A</b> | 3.60 (3.93-3.04) <b>A</b> | 3.25 (3.93-2.58) <b>A</b> |
| SEER   | W/W              | 6.5 <b>A+++</b>            | 7.4 <b>A+++</b>           | 7.4 <b>A+++</b>           | 6.6 <b>A+++</b>           | —                         | —                         | 6.8 <b>A+++</b>           | 6.5 <b>A+++</b>           | —                         | —                         |
| Pdesign  | kW               | 5.0                        | 6.0                       | 7.1                       | 10.0                      | —                         | —                         | 10.0                      | 10.0                      | —                         | —                         |
| Power input Cooling                            | Nom. (Min-Max)   | kW 1.350 (0.260-2.000)     | 1.480 (0.450-2.000)       | 1.800 (0.450-2.650)       | 2.380 (0.840-3.700)       | 3.470 (0.840-4.600)       | 4.310 (0.840-6.000)       | 1.800 (0.450-2.650)       | 2.380 (0.840-3.700)       | 3.470 (0.840-4.600)       | 4.310 (0.840-6.000)       |
| Annual Energy Consumption <sup>2-a)</sup>      |                  | 675                        | 740                       | 900                       | 1190                      | 1735                      | 2155                      | 900                       | 1190                      | 1735                      | 2155                      |
| Annual Energy Consumption(ErP) <sup>2-b)</sup> |                  | 269                        | 284                       | 336                       | 530                       | —                         | —                         | 365                       | 538                       | —                         | —                         |
| 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 <sup>1)</sup>                              | Nom. (Min-Max)   | W/W 3.92 <b>A</b>          | 3.87 (5.00-3.23) <b>A</b> | 4.00 (5.00-3.10) <b>A</b> | 4.31 (4.56-3.18) <b>A</b> | 4.00 (4.56-3.08) <b>A</b> | 3.70 (4.56-3.05) <b>A</b> | 4.00 (5.00-3.10) <b>A</b> | 4.31 (4.56-3.18) <b>A</b> | 4.00 (4.56-3.08) <b>A</b> | 3.70 (4.56-3.05) <b>A</b> |
| SCOP   | W/W              | 3.8 <b>A</b>               | 4.1 <b>A+</b>             | 4.1 <b>A+</b>             | 4.2 <b>A+</b>             | —                         | —                         | 4.0 <b>A+</b>             | 4.2 <b>A+</b>             | —                         | —                         |
| Pdesign at -10 °C                              | kW               | 4.0                        | 6.0                       | 7.1                       | 10.0                      | —                         | —                         | 7.1                       | 10.0                      | —                         | —                         |
| Power input Heating                            | Nom. (Min-Max)   | kW 1.430 (0.220-2.300)     | 1.810 (0.400-2.480)       | 2.000 (0.400-2.900)       | 2.600 (0.900-4.400)       | 3.500 (0.900-5.200)       | 4.330 (0.900-5.900)       | 2.000 (0.400-2.900)       | 2.600 (0.900-4.400)       | 3.500 (0.900-5.200)       | 4.330 (0.900-5.900)       |
| Annual Energy Consumption(ErP) <sup>2-a)</sup> |                  | 1474                       | 2047                      | 2424                      | 1190                      | —                         | —                         | 2485                      | 1190                      | —                         | —                         |
| <b>Indoor unit</b>                             |                  |                            |                           |                           |                           |                           |                           |                           |                           |                           |                           |
| Air Volume                                     | Cool / Heat      | m³/h 960 / 960             | 1260 / 1260               | 1320 / 1320               | 1980 / 1980               | 2100 / 2100               | 2160 / 2160               | 1320 / 1320               | 1980 / 1980               | 2100 / 2100               | 2160 / 2160               |
| Moisture removal volume                        | l/h              | 3.0                        | 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) 32 / 29 / 27         | 36 / 31 / 28              | 37 / 31 / 28              | 44 / 38 / 32              | 45 / 39 / 33              | 46 / 40 / 34              | 37 / 31 / 28              | 44 / 38 / 32              | 45 / 39 / 33              | 46 / 40 / 34              |
|  | Heat (Hi/Me/Lo)  | dB(A) 32 / 29 / 27         | 36 / 31 / 28              | 37 / 31 / 28              | 44 / 38 / 32              | 45 / 39 / 33              | 46 / 40 / 34              | 37 / 31 / 28              | 44 / 38 / 32              | 45 / 39 / 33              | 46 / 40 / 34              |
| Sound power level                              | Cool (Hi/Me/Lo)  | dB 49 / 46 / 44            | 53 / 48 / 45              | 54 / 48 / 45              | 62 / 55 / 49              | 63 / 56 / 50              | 64 / 57 / 51              | 54 / 48 / 45              | 62 / 55 / 49              | 63 / 56 / 50              | 64 / 57 / 51              |
|  | Heat (Hi/Me/Lo)  | dB 49 / 46 / 44            | 53 / 48 / 45              | 54 / 48 / 45              | 62 / 55 / 49              | 63 / 56 / 50              | 64 / 57 / 51              | 54 / 48 / 45              | 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           | 256 x 840 x 840           | 319 x 840 x 840           | 319 x 840 x 840           | 319 x 840 x 840           | 256 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          | 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)                    | 24 (4)                    | 27 (4)                    | 27 (4)                    | 27 (4)                    | 24 (4)                    | 27 (4)                    | 27 (4)                    | 27 (4)                    |
| <b>Outdoor unit</b>                            |                  |                            |                           |                           |                           |                           |                           |                           |                           |                           |                           |
| 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            |
| Current  | Cool / Heat      | A 6.5/6.2/5.95/6.9/6.6/6.3 | 6.90 / 8.20               | 8.10 / 9.00               | 10.30 / 11.40             | 15.30 / 15.40             | 19.00 / 19.20             | — / —                     | 3.50 / 3.85               | 5.15 / 5.20               | 6.45 / 6.50               |
| 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 <sup>3)</sup>             | Cool (Hi)        | dB(A) 46                   | 48                        | 48                        | 52                        | 53                        | 54                        | 48                        | 52                        | 53                        | 54                        |
|  | Heat (Hi)        | dB(A) 50                   | 50                        | 50                        | 52                        | 53                        | 55                        | 50                        | 52                        | 53                        | 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) <sup>4)</sup>          | 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 outdoor                        | 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.

ELITE

**A class**  
energy saving

INVERTER+

**7.4 A+++**  
SEER

SEASONAL ENERGY EFFICIENCY RATIO

**4.1 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

Possible  
to use on  
R22 pipings

R22 RENEWAL

5 year  
compressor  
warranty



SEER and SCOP: For KIT-60PU1E5 and KIT-71PU1E5

## 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                 |                     |
| <b>KIT</b>  |                  | <b>KIT-60PNY1E5*</b> | <b>KIT-71PNY1E5*</b>    | <b>KIT-100PNY1E5**</b>  | <b>KIT-125PNY1E5**</b>  | <b>KIT-100PNY1E8**</b>  | <b>KIT-125PNY1E8**</b>  | <b>KIT-140PNY1E8***</b> |                     |
| <b>Indoor</b>   |                  | <b>S-60PN1E5</b>     | <b>S-71PN1E5</b>        | <b>S-100PN1E5</b>       | <b>S-125PN1E5</b>       | <b>S-100PN1E5</b>       | <b>S-125PN1E5</b>       | <b>S-140PN1E5</b>       |                     |
| <b>Outdoor</b>  |                  | <b>U-60PEY1E5</b>    | <b>U-71PEY1E5</b>       | <b>U-100PEY1E5</b>      | <b>U-125PEY1E5</b>      | <b>U-100PEY1E8</b>      | <b>U-125PEY1E8</b>      | <b>U-140PEY1E8</b>      |                     |
| <b>Wired remote control</b>                           |                  | <b>CZ-RTC2</b>       | <b>CZ-RTC2</b>          | <b>CZ-RTC2</b>          | <b>CZ-RTC2</b>          | <b>CZ-RTC2</b>          | <b>CZ-RTC2</b>          | <b>CZ-RTC2</b>          |                     |
| <b>Cooling capacity</b>                               | Nom. (Min-Max)   | kW                   | 6.0                     | 7.1                     | 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)     |
| <b>EER<sup>1)</sup></b>                               | Nom. (Min-Max)   | W/W                  |                         |                         | 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 |
| <b>SEER</b>   |                  | W/W                  |                         |                         | 5.3 ◀A                  | —                       | 5.2 ◀A                  | —                       | —                   |
| <b>Pdesign</b>  |                  | kW                   |                         |                         | 10.0                    | —                       | 10.0                    | —                       | —                   |
| <b>Power input Cooling</b>                            | Nom. (Min-Max)   | kW                   |                         |                         | 3.560 (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) |
| <b>Annual Energy Consumption<sup>2-a)</sup></b>       |                  |                      |                         |                         | 1775                    | 2223                    | 1775                    | 2223                    | 2325                |
| <b>Annual Energy Consumption(ErP)<sup>2-b)</sup></b>  |                  |                      |                         |                         | 660                     | —                       | 673                     | —                       | —                   |
| <b>Heating capacity</b>                               | Nom. (Min-Max)   | kW                   | 7.0                     | 8.0                     | 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)     |
| <b>COP<sup>1)</sup></b>                               | Nom. (Min-Max)   | W/W                  |                         |                         | 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 |
| <b>SCOP</b>   |                  | W/W                  |                         |                         | 3.8 ◀A                  | —                       | 3.8 ◀A                  | —                       | —                   |
| <b>Pdesign at -10 °C</b>                              |                  | kW                   |                         |                         | 7.6                     | —                       | 7.6                     | —                       | —                   |
| <b>Power input Heating</b>                            | Nom. (Min-Max)   | kW                   |                         |                         | 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) |
| <b>Annual Energy Consumption (ErP)<sup>2-b)</sup></b> |                  |                      |                         |                         | 2800                    | —                       | 2800                    | —                       | —                   |
| <b>Indoor unit</b>                                    |                  |                      |                         |                         |                         |                         |                         |                         |                     |
| <b>External static pressure<sup>3)</sup></b>          | Nom. (Min-Max)   | Pa                   | 50 (10-80)              | 50 (10-80)              | 50 (10-80)              | 50 (10-80)              | 50 (10-80)              | 50 (10-80)              | 80 / 50 / 10        |
| <b>Air Volume</b>                                     | Cool / Heat      | m <sup>3</sup> /h    | 1320 / 1320             | 1320 / 1320             | 2160 / 2160             | 2280 / 2280             | 2160 / 2160             | 2280 / 2280             | 2400 / 2400         |
| <b>Moisture removal volume</b>                        |                  | l/h                  | 3.4                     | 4.2                     | 6.0                     | 7.9                     | 6.0                     | 7.9                     | 9.0                 |
| <b>Sound pressure Level</b>                           | 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        |
| <b>Sound power level</b>                              | 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        |
| <b>Dimensions</b>                                     | H x W x D        | mm                   | 250 x 1000 (+100) x 650 | 250 x 1000 (+100) x 650 | 250 x 1200 (+100) x 650 | 250x1200x100x650    |
| <b>Net weight</b>                                     |                  | kg                   | 32                      | 32                      | 41                      | 41                      | 41                      | 41                      | 41                  |
| <b>Outdoor unit</b>                                   |                  |                      |                         |                         |                         |                         |                         |                         |                     |
| <b>Power source</b>                                   |                  | V                    | 220 / 230 / 240         | 220 / 230 / 240         | 220 / 230 / 240         | 220 / 230 / 240         | 380 / 400 / 415         | 380 / 400 / 415         | 380 / 415           |
| <b>Recommended fuse</b>                               |                  |                      |                         |                         |                         |                         |                         |                         |                     |
| <b>Recommended cable size</b>                         |                  | m                    |                         |                         |                         |                         |                         |                         |                     |
| <b>Connection</b>                                     |                  | mm <sup>2</sup>      |                         |                         |                         |                         |                         |                         | 2 x 1.5 or 2.5      |
| <b>Current Cooling</b>                                |                  | A                    | 12.9                    | 12.9                    | 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                |
| <b>Current Heating</b>                                |                  | A                    | 13.7                    | 13.7                    | 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                |
| <b>Air Volume</b>                                     | Cool / Heat      | m <sup>3</sup> /h    | 2220                    | 2220                    | 4560 / 4020             | 4800 / 4380             | 4560 / 4020             | 4800 / 4380             | 8100 / 6600         |
| <b>Sound pressure Level<sup>4)</sup></b>              | Cool / Heat (Hi) | dB(A)                | 48 / 50                 | 50 / 52                 | 54 / 54                 | 56 / 56                 | 54 / 54                 | 56 / 56                 | 54 / 53             |
| <b>Sound power level</b>                              | Cool / Heat (Hi) | dB                   | 65 / 67                 | 67 / 69                 | 70 / 70                 | 73 / 73                 | 70 / 70                 | 73 / 73                 | 71 / 70             |
| <b>Dimensions</b>                                     | H x W x D        | mm                   | 569 x 790 x 285         | 569 x 790 x 285         | 996 x 940 x 340         | 1416 x 940 x 340    |
| <b>Net weight</b>                                     |                  | kg                   | 42                      | 42                      | 73                      | 85                      | 73                      | 85                      | 98                  |
| <b>Piping connections</b>                             | 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)         |
| <b>Refrigerant loading</b>                            | R410A            | kg                   | 1.7                     | 1.7                     | 2.60                    | 3.20                    | 2.60                    | 3.20                    | 3.4                 |
| <b>Elevation dif. (in/out)<sup>5)</sup></b>           | Max              | m                    | 30                      | 30                      | 30                      | 30                      | 30                      | 30                      | 30                  |
| <b>Piping length</b>                                  | Min/Max          | m                    | 50                      | 50                      | 5 / 50                  | 5 / 50                  | 5 / 50                  | 5 / 50                  | 5-75                |
| <b>Precharge length</b>                               | Max              | m                    | 20                      | 20                      | 30                      | 30                      | 30                      | 30                      | 30                  |
| <b>Additional charge</b>                              |                  | g/m                  | 40                      | 40                      | 50                      | 50                      | 50                      | 50                      | 50                  |
| <b>Operating range outdoor</b>                        | 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.

### STANDARD



SEER and SCOP: For KIT-60PNY1E5

OPTIONAL CONTROLLERS

Timer remote controller  
CZ-RTC2



Wireless remote controller  
CZ-RWSC2



Simplified remote controller  
CZ-REZC2



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          |
| <b>KIT</b>                                      |                        | KIT-50PN1E5*        | KIT-60PN1E5         | KIT-71PN1E5         | KIT-100PN1E5        | KIT-125PN1E5        | KIT-140PN1E5        | KIT-71PN1E8         | KIT-100PN1E8        | KIT-125PN1E8        | KIT-140PN1E8     |
| <b>Indoor</b>                                   |                        | S-50PN1E5           | S-60PN1E5           | S-71PN1E5           | S-100PN1E5          | S-125PN1E5          | S-140PN1E5          | S-71PN1E5           | S-100PN1E5          | S-125PN1E5          | S-140PN1E5       |
| <b>Outdoor</b>                                  |                        | U-50PE1E5           | U-60PE1E5           | U-71PE1E5           | U-100PE1E5          | U-125PE1E5          | U-140PE1E5          | U-71PE1E8           | U-100PE1E8          | U-125PE1E8          | U-140PE1E8       |
| <b>Wired remote control</b>                     |                        | CZ-RTC2             | CZ-RTC2          |
| Cooling capacity                                | Nom. (Min-Max) kW      | 5.0                 | 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 <sup>1)</sup>                               | Nom. (Min-Max) kW      | 3.24 (4.55-3.37) A  | 3.30 (4.55-2.91) A  | 3.75 (3.79-3.29) A  | 3.16 (3.90-2.96) A  | 3.01 (3.30-2.50) A  | 3.30 (4.55-2.91) A  | 3.75 (3.79-3.29) A  | 3.21 (3.30-2.92) A  | 3.01 (3.30-2.50) A  |                  |
| SEER  | W/W                    | 5.5 A+              | 5.5 A+              | 6.0 A+              | —                   | —                   | 5.2 A+              | 5.8 A+              | —                   | —                   |                  |
| Pdesign   | kW                     | 6.0                 | 7.1                 | 10.0                | —                   | —                   | 7.1                 | 10.0                | —                   | —                   |                  |
| Power input Cooling                             | Nom. (Min-Max) kW      | 1.850 (0.550-2.100) | 2.150 (0.550-2.150) | 2.670 (0.870-3.800) | 3.890 (1.000-4.800) | 4.650 (1.000-6.200) | 2.150 (0.550-2.150) | 2.670 (0.870-3.800) | 3.890 (1.000-4.800) | 4.650 (1.000-6.200) |                  |
| Annual Energy Consumption <sup>2-a)</sup>       |                        | 925                 | 1075                | 1335                | 1945                | 2325                | 1075                | 1335                | 1945                | 2325                |                  |
| Annual Energy Consumption(ErP) <sup>2-b)</sup>  |                        | 382                 | 452                 | 583                 | —                   | —                   | 477                 | 603                 | —                   | —                   |                  |
| Heating capacity                                | Nom. (Min-Max) kW      | 5.6                 | 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 <sup>1)</sup>                               | Nom. (Min-Max) W/W     | 3.61 (4.00-3.09) A  | 3.54 (4.00-3.08) B  | 3.80 (4.18-3.11) A  | 3.61 (3.90-2.96) A  | 3.41 (3.90-2.95) B  | 3.54 (4.00-3.08) B  | 3.80 (4.18-3.11) A  | 3.61 (3.90-2.96) A  | 3.41 (3.90-2.95) B  |                  |
| SCOP  | W/W                    | 3.8 A               | 3.7 A               | 5.3 A+++            | —                   | —                   | 3.7 A               | 5.2 A+++            | —                   | —                   |                  |
| Pdesign at -10 °C                               | kW                     | 5.6                 | 6.5                 | 7.6                 | —                   | —                   | 6.5                 | 7.6                 | —                   | —                   |                  |
| Power input Heating                             | Nom. (Min-Max) kW      | 1.940 (0.500-2.580) | 2.260 (0.500-2.820) | 2.950 (0.980-4.500) | 3.880 (1.050-5.400) | 4.690 (1.050-6.100) | 2.260 (0.500-2.820) | 2.950 (0.980-4.500) | 3.880 (1.050-5.400) | 4.690 (1.050-6.100) |                  |
| Annual Energy Consumption (ErP) <sup>2-b)</sup> |                        | 2061                | 2458                | 3590                | —                   | —                   | 2458                | 3684                | —                   | —                   |                  |
| <b>Indoor unit</b>                              |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                  |
| External static pressure <sup>3)</sup>          | Hi/Me/Lo Pa            | 80 / 50 / 10        | 80 / 50 / 10        | 80 / 50 / 10        | 80 / 50 / 10        | 80 / 50 / 10        | 80 / 50 / 10        | 80 / 50 / 10        | 80 / 50 / 10        | 80 / 50 / 10        | 80 / 50 / 10     |
| Air Volume                                      | Cool / Heat m³/h       | 1320 / 1320         | 1320 / 1320         | 2160 / 2160         | 2280 / 2280         | 2400 / 2400         | 1320                | 2160 / 2160         | 2280 / 2280         | 2400 / 2400         |                  |
| Moisture removal volume                         | l/h                    | 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)  | 43 / 41 / 36        | 43 / 41 / 36        | 44 / 42 / 37        | 45 / 43 / 38        | 46 / 44 / 39        | 43 / 41 / 36        | 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        | 46 / 44 / 39        | 43 / 41 / 36        | 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        | 67 / 65 / 60        | 60 / 58 / 53        | 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        | 67 / 65 / 60        | 60 / 58 / 53        | 65 / 63 / 58        | 66 / 64 / 59        | 67 / 65 / 60        |                  |
| Dimensions                                      | H x W x D mm           | 250x1000+100x650    | 250x1000+100x650    | 250x1000+100x650    | 250x1200+100x650    | 250x1200+100x650    | 250x1000+100x650    | 250x1200+100x650    | 250x1200+100x650    | 250x1200+100x650    |                  |
| Net weight                                      | kg                     | 32                  | 32                  | 41                  | 41                  | 41                  | 32                  | 41                  | 41                  | 41                  |                  |
| <b>Outdoor unit</b>                             |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                  |
| 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   |
| Current Cooling                                 | Nom. (Min-Max) A       | 8.00                | 9.40                | 11.20               | 16.90               | 20.10               | —                   | 3.75                | 5.50                | 6.60                |                  |
| Current Heating                                 | Nom. (Min-Max) A       | 8.40                | 9.90                | 12.50               | 16.80               | 20.20               | —                   | 4.15                | 5.50                | 6.65                |                  |
| Air Volume                                      | Cool / Heat m³/h       | 2100 / 2100         | 3600 / 3600         | 3600 / 3600         | 6600 / 5700         | 7800 / 6600         | 8100 / 7200         | 3600 / 3600         | 6600 / 5700         | 7800 / 6600         | 8100 / 7200      |
| Sound pressure Level <sup>4)</sup>              | 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    | 63 / 67             | 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) <sup>5)</sup>           | 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 outdoor                         | 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. The specification listed on the table indicates values under the condition of 30 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.

ELITE

**A class** energy saving  
**6.0 A+** SEER  
**5.3 A+++** SCOP  
 Down to **-15 °C** in cooling mode  
 Down to **-20 °C** in heating mode  
 Easy control by BMS  
 Possible to use on R22 pipings  
**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             |  |
| <b>KIT</b>  | KIT-60PFY1E5*                 | KIT-71PFY1E5*       | KIT-100PFY1E5**     | KIT-125PFY1E5**     | KIT-100PFY1E8**     | KIT-125PFY1E8**     | KIT-140PFY1E8***    |  |
| <b>Indoor</b>   | S-60PF1E5                     | S-71PF1E5           | S-100PF1E5          | S-125PF1E5          | S-100PF1E5          | S-125PF1E5          | S-140PF1E5          |  |
| <b>Outdoor</b>  | U-60PEY1E5                    | U-71PEY1E5          | U-100PEY1E5         | U-125PEY1E5         | U-100PEY1E8         | U-125PEY1E8         | U-140PEY1E8         |  |
| <b>Wired remote control</b>                           | CZ-RTC2                       | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             |  |
| <b>Cooling capacity</b>                               | 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)     |  |
| <b>EER<sup>1)</sup></b>                               | Nom. (Min-Max) W/W            | 3.11 (6.15-2.46) ◀B | 2.76 (6.15-2.03) ◀D | 3.01 (5.09-2.74) ◀B | 3.05 (4.22-2.70) ◀B | 3.01 (5.09-2.74) ◀B | 3.25 (3.93-2.58) ◀A |  |
| <b>SEER</b>   | W/W                           | 5.4 ◀A              | 5.3 ◀A              | 5.4 ◀A              | —                   | 5.2 ◀A              | —                   |  |
| <b>Pdesign</b>  | kW                            | 6.0                 | 7.1                 | 10.0                | —                   | 10.0                | —                   |  |
| <b>Power input Cooling</b>                            | Nom. (Min-Max) kW             | 1.930 (0.325-2.850) | 2.570 (0.325-3.800) | 3.320 (0.530-4.200) | 4.100 (0.900-5.000) | 3.320 (0.530-4.200) | 4.310 (0.840-6.000) |  |
| <b>Annual Energy Consumption<sup>2-4)</sup></b>       |                               | 965                 | 1285                | 1660                | 2050                | 1660                | 2155                |  |
| <b>Annual Energy Consumption(ERP)<sup>2-4)</sup></b>  |                               | 389                 | 469                 | 648                 | —                   | 673                 | —                   |  |
| <b>Heating capacity</b>                               | 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)     |  |
| <b>COP<sup>1)</sup></b>                               | Nom. (Min-Max) W/W            | 4.26 (6.55-3.33) ◀A | 3.94 (6.55-3.38) ◀A | 3.80 (5.12-3.45) ◀A | 3.82 (4.66-3.41) ◀A | 3.80 (5.12-3.45) ◀A | 4.02 (4.56-3.08) ◀A |  |
| <b>SCOP</b>   | W/W                           | 3.8 ◀A              | 3.8 ◀A              | 3.8 ◀A              | —                   | 3.8 ◀A              | —                   |  |
| <b>Pdesign at -10 °C</b>                              | kW                            | 5.0                 | 5.5                 | 9.5                 | —                   | 9.5                 | —                   |  |
| <b>Power input Heating</b>                            | Nom. (Min-Max) kW             | 1.410 (0.275-2.100) | 1.800 (0.275-2.400) | 2.630 (0.410-4.000) | 3.270 (0.730-4.400) | 2.630 (0.410-4.000) | 3.480 (0.900-5.200) |  |
| <b>Annual Energy Consumption (ErP)<sup>2-4)</sup></b> |                               | 1842                | 2026                | 3500                | —                   | 3500                | —                   |  |
| <b>Indoor unit</b>                                    |                               |                     |                     |                     |                     |                     |                     |  |
| <b>External static pressure<sup>3)</sup></b>          | Nom. (Min-Max) Pa             | 70 (10-150)         | 70 (10-150)         | 100 (10-150)        | 100 (10-150)        | 100 (10-150)        | 150 / 100 / 10      |  |
| <b>Air Volume</b>                                     | Cool / Heat m <sup>3</sup> /h | 1260 / 1260         | 1260 / 1260         | 1920 / 1920         | 2040 / 2040         | 1920 / 1920         | 2160 / 2160         |  |
| <b>Moisture removal volume</b>                        | l/h                           | 3.4                 | 4.2                 | 6.0                 | 7.9                 | 6.0                 | 9.0                 |  |
| <b>Sound pressure Level</b>                           | Cool (Hi/Me/Lo) dB(A)         | 35 / 32 / 26        | 35 / 32 / 26        | 38 / 34 / 31        | 39 / 35 / 32        | 38 / 34 / 31        | 39 / 35 / 32        |  |
|   | Heat (Hi/Me/Lo) dB(A)         | 35 / 32 / 26        | 35 / 32 / 26        | 38 / 34 / 31        | 39 / 35 / 32        | 38 / 34 / 31        | 40 / 36 / 33        |  |
| <b>Sound power level</b>                              | Cool (Hi/Me/Lo) dB            | 57 / 54 / 48        | 57 / 54 / 48        | 60 / 56 / 53        | 61 / 57 / 54        | 60 / 56 / 53        | 62 / 58 / 55        |  |
|   | Heat (Hi/Me/Lo) dB            | 57 / 54 / 48        | 57 / 54 / 48        | 60 / 56 / 53        | 61 / 57 / 54        | 60 / 56 / 53        | 62 / 58 / 55        |  |
| <b>Dimensions</b>                                     | H x W x D mm                  | 290 x 1000 x 700    | 290 x 1000 x 700    | 290 x 1400 x 700    |  |
| <b>Net weight</b>                                     | kg                            | 33                  | 33                  | 45                  | 45                  | 45                  | 45                  |  |
| <b>Outdoor unit</b>                                   |                               |                     |                     |                     |                     |                     |                     |  |
| <b>Power source</b>                                   | V                             | 220 / 240           | 220 / 240           | 220 / 240           | 220 / 240           | 380 / 415           | 380 / 415           |  |
| <b>Recommended fuse</b>                               |                               |                     |                     |                     |                     |                     |                     |  |
| <b>Recommended cable size</b>                         | m                             |                     |                     |                     |                     |                     |                     |  |
| <b>Connection</b>                                     | mm <sup>2</sup>               |                     |                     |                     |                     |                     | 2 x 1.5 or 2.5      |  |
| <b>Current Cooling</b>                                | 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  |  |
| <b>Current Heating</b>                                | 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  |  |
| <b>Air Volume</b>                                     | Cool / Heat m <sup>3</sup> /h | 1800 / 2100         | 2340 / 2340         | 4560 / 4020         | 4800 / 4380         | 4560 / 4020         | 4800 / 4380         |  |
| <b>Sound pressure Level<sup>4)</sup></b>              | Cool / Heat (Hi) dB(A)        | 48 / 50             | 50 / 52             | 54 / 54             | 56 / 56             | 54 / 54             | 54 / 53             |  |
| <b>Sound power level</b>                              | Cool / Heat (Hi) dB           | 66 / 69             | 70 / 70             | 70 / 70             | 73 / 73             | 70 / 70             | 73 / 73             |  |
| <b>Dimensions</b>                                     | H x W x D mm                  | 569 x 790 x 285     | 569 x 790 x 285     | 996 x 940 x 340     |  |
| <b>Net weight</b>                                     | kg                            | 42                  | 42                  | 73                  | 85                  | 73                  | 85                  |  |
| <b>Piping connections</b>                             | 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)          |  |
|   | 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)         |  |
| <b>Refrigerant loading</b>                            | R410A kg                      | 1.7                 | 1.7                 | 2.60                | 3.20                | 2.60                | 3.4                 |  |
| <b>Elevation dif. (in/out)<sup>5)</sup></b>           | Max m                         | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  |  |
| <b>Piping length</b>                                  | Min/Max m                     | 5 - 50              | 5 - 50              | 5 / 50              | 5 / 50              | 5 / 50              | 5-75                |  |
| <b>Precharge length</b>                               | Max m                         | 20                  | 20                  | 30                  | 30                  | 30                  | 30                  |  |
| <b>Additional charge</b>                              | g/m                           | 40                  | 40                  | 50                  | 50                  | 50                  | 50                  |  |
| <b>Operating range outdoor</b>                        | Cool Min/Max °C               | -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            |  |

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) Medium External static pressure setting from factory. 4) 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. 5) 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.

### STANDARD

**A class**  
energy saving

**5.4 A**  
SEER

**3.8 A**  
SCOP

Down to  
**-10 °C** in  
cooling mode

Down to  
**-15 °C** in  
heating mode

Easy  
control  
by BMS

Possible  
to use on  
R22 pipings

**5 year**  
compressor  
warranty



SEER and SCOP: For KIT-60PFY1E5 and KIT-100PFY1E5

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                  |
| <b>KIT</b>                                      |                               | <b>KIT-50PF1E5*</b>      | <b>KIT-60PF1E5</b>       | <b>KIT-71PF1E5</b>       | <b>KIT-100PF1E5</b>      | <b>KIT-125PF1E5</b>      | <b>KIT-140PF1E5</b>      | <b>KIT-71PF1E8</b>       | <b>KIT-100PF1E8</b>      | <b>KIT-125PF1E8</b>      | <b>KIT-140PF1E8</b>      |
| <b>Indoor</b>                                   |                               | <b>S-50PF1E5</b>         | <b>S-60PF1E5</b>         | <b>S-71PF1E5</b>         | <b>S-100PF1E5</b>        | <b>S-125PF1E5</b>        | <b>S-140PF1E5</b>        | <b>S-71PF1E5</b>         | <b>S-100PF1E5</b>        | <b>S-125PF1E5</b>        | <b>S-140PF1E5</b>        |
| <b>Outdoor</b>                                  |                               | <b>U-50PE1E5</b>         | <b>U-60PE1E5</b>         | <b>U-71PE1E5</b>         | <b>U-100PE1E5</b>        | <b>U-125PE1E5</b>        | <b>U-140PE1E5</b>        | <b>U-71PE1E8</b>         | <b>U-100PE1E8</b>        | <b>U-125PE1E8</b>        | <b>U-140PE1E8</b>        |
| <b>Wired remote control</b>                     |                               | <b>CZ-RTC2</b>           |
| <b>Cooling capacity</b>                         | 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)          |
| <b>EER1)</b>                                    | Nom. (Min-Max) kW             | 3.70(5.58-2.80) <b>A</b> | 3.90(4.72-3.55) <b>A</b> | 3.84(4.72-3.02) <b>A</b> | 4.10(3.93-3.38) <b>A</b> | 3.50(3.93-3.04) <b>A</b> | 3.25(3.93-2.58) <b>A</b> | 3.84(5.0-3.02) <b>A</b>  | 4.10(3.93-3.38) <b>A</b> | 3.50(3.93-3.04) <b>A</b> | 3.25(3.93-2.58) <b>A</b> |
| <b>SEER</b>                                     | W/W                           | 5.7 <b>A+</b>            | 6.4 <b>A++</b>           | 6.4 <b>A++</b>           | 5.8 <b>A+</b>            | —                        | —                        | 6.0 <b>A+</b>            | 5.7 <b>A+</b>            | —                        | —                        |
| <b>Pdesign</b>                                  | kW                            | 5.0                      | 6.0                      | 7.1                      | 10.0                     | —                        | —                        | 7.1                      | 10.0                     | —                        | —                        |
| <b>Power input Cooling</b>                      | 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)      |
| <b>Annual Energy Consumption 2-a)</b>           |                               | 675                      | 770                      | 925                      | 1220                     | 1785                     | 2155                     | 925                      | 1220                     | 1785                     | 2155                     |
| <b>Annual Energy Consumption(ErP) 2-b)</b>      |                               | 307                      | 328                      | 388                      | 603                      | —                        | —                        | 414                      | 614                      | —                        | —                        |
| <b>Heating capacity</b>                         | 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)          |
| <b>COP1)</b>                                    | Nom. (Min-Max) W/W            | 3.73(6.82-2.71) <b>A</b> | 3.87(4.17-3.23) <b>A</b> | 3.85(4.17-3.10) <b>A</b> | 4.31(4.56-3.18) <b>A</b> | 4.02(4.56-3.08) <b>A</b> | 3.60(4.56-3.05) <b>A</b> | 3.85(4.83-3.10) <b>A</b> | 4.31(4.56-3.18) <b>A</b> | 4.02(4.56-3.08) <b>A</b> | 3.60(4.56-3.05) <b>A</b> |
| <b>SCOP</b>                                     | W/W                           | 3.8 <b>A</b>             | 3.9 <b>A</b>             | 4.0 <b>A+</b>            | 3.8 <b>A</b>             | —                        | —                        | 3.9 <b>A</b>             | 3.8 <b>A</b>             | —                        | —                        |
| <b>Pdesign at -10 °C</b>                        | kW                            | 4.0                      | 6.0                      | 7.1                      | 10.0                     | —                        | —                        | 7.1                      | 10.0                     | —                        | —                        |
| <b>Power input Heating</b>                      | 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)       |
| <b>Annual Energy Consumption (ErP) 2-b)</b>     |                               | 1474                     | 2154                     | 2485                     | 3684                     | —                        | —                        | 2548                     | 3684                     | —                        | —                        |
| <b>Indoor unit</b>                              |                               |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <b>External static pressure<sup>3)</sup></b>    | 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)             |
| <b>Air Volume</b>                               | Cool / Heat m <sup>3</sup> /h | 960 / 960                | 1260 / 1260              | 1260 / 1260              | 1920 / 1920              | 2040 / 2040              | 2160 / 2160              | 1260 / 1260              | 1920 / 1920              | 2040 / 2040              | 2160 / 2160              |
| <b>Moisture removal volume</b>                  | l/h                           | 2.8                      | 3.4                      | 4.2                      | 6.0                      | 7.9                      | 9.0                      | 4.2                      | 6.0                      | 7.9                      | 9.0                      |
| <b>Sound pressure Level</b>                     | 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             |
| <b>Sound power level</b>                        | 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             |
| <b>Dimensions</b>                               | 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         |
| <b>Net weight</b>                               | kg                            | 28                       | 33                       | 33                       | 45                       | 45                       | 45                       | 33                       | 45                       | 45                       | 45                       |
| <b>Outdoor unit</b>                             |                               |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <b>Power source</b>                             | V                             | 220 / 240                | 220 / 240                | 220 / 240                | 220 / 240                | 220 / 240                | 220 / 240                | 380 / 415                | 380 / 415                | 380 / 415                | 380 / 415                |
| <b>Recommended fuse</b>                         |                               |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <b>Recommended cable size</b>                   | m                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <b>Connection</b>                               | mm <sup>2</sup>               |                          | 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           |
| <b>Current Cooling</b>                          | Nom. (Min-Max) A              | 5.85                     | 7.40                     | 8.60                     | 10.60                    | 15.90                    | 19.30                    | 2.65                     | 3.53                     | 5.29                     | 6.42                     |
| <b>Current Heating</b>                          | Nom. (Min-Max) A              | 6.55                     | 8.40                     | 9.50                     | 11.20                    | 15.80                    | 19.10                    | 3.00                     | 3.70                     | 5.26                     | 6.35                     |
| <b>Air Volume</b>                               | Cool / Heat m <sup>3</sup> /h | 1800 / 2100              | 3600 / 3600              | 3600 / 3600              | 6600 / 5700              | 7800 / 6600              | 8100 / 7200              | 3600 / 3600              | 6600 / 5700              | 7800 / 6600              | 8100 / 7200              |
| <b>Sound pressure Level<sup>4)</sup></b>        | 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                  |
| <b>Sound power level</b>                        | Cool / Heat (Hi) dB           | 65 / 69                  | 65 / 67                  | 65 / 67                  | 69 / 69                  | 70 / 70                  | 71 / 71                  | 65 / 67                  | 69 / 69                  | 70 / 70                  | 71 / 71                  |
| <b>Dimensions</b>                               | 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         |
| <b>Net weight</b>                               | kg                            | 42                       | 68                       | 69                       | 98                       | 98                       | 98                       | 69                       | 98                       | 98                       | 98                       |
| <b>Piping connections</b>                       | 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)              |
| <b>Refrigerant loading</b>                      | R410A kg                      | 1.65                     | 2                        | 2.35                     | 3.4                      | 3.4                      | 3.4                      | 2.35                     | 3.4                      | 3.4                      | 3.4                      |
| <b>Elevation dif. (in/out)<sup>5)</sup> Max</b> | m                             | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       |
| <b>Piping length</b>                            | Min/Max m                     | 5-40                     | 5-50                     | 5-50                     | 5-75                     | 5-75                     | 5-75                     | 5-50                     | 5-75                     | 5-75                     | 5-75                     |
| <b>Precharge length</b>                         | Max m                         | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       |
| <b>Additional charge</b>                        | g/m                           | 20                       | 50                       | 50                       | 50                       | 50                       | 50                       | 50                       | 50                       | 50                       | 50                       |
| <b>Operating range outdoor</b>                  | 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 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. 5) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // \* Available from May 2013.

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

Possible  
to use on  
R22 pipings

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



|   |                   | 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                   |                           |
| <b>KIT</b>  |                   | KIT-60PTY1E5*     | KIT-71PTY1E5*       | KIT-100PTY1E5**     | KIT-125PTY1E5**           | KIT-100PTY1E8**           | KIT-125PTY1E8**           | KIT-140PTY1E8***          |                           |
| <b>Indoor</b>   |                   | S-60PT2E5         | S-71PT2E5           | S-100PT2E5          | S-125PT2E5                | S-100PT2E5                | S-125PT2E5                | S-140PT1E5                |                           |
| <b>Outdoor</b>  |                   | U-60PEY1E5        | U-71PEY1E5          | U-100PEY1E5         | U-125PEY1E5               | U-100PEY1E8               | U-125PEY1E8               | U-140PEY1E8               |                           |
| <b>Wired remote control</b>                           |                   | CZ-RTC2           | CZ-RTC2             | CZ-RTC2             | CZ-RTC2                   | CZ-RTC2                   | CZ-RTC2                   | CZ-RTC2                   |                           |
| <b>Cooling capacity</b>                               | 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)           |
| <b>EER<sup>1)</sup></b>                               | Nom. (Min-Max)    | W/W               | 2.90 <b>C</b>       | 2.63 <b>D</b>       | 2.90 (5.09-2.74) <b>C</b> | 2.90 (4.22-2.70) <b>C</b> | 2.90 (5.09-2.74) <b>C</b> | 2.90 (4.22-2.70) <b>C</b> | 2.92 (3.93-2.58) <b>C</b> |
| <b>SEER</b>   | W/W               |                   | 5.5 <b>B</b>        | 5.1 <b>B</b>        | 6.2 <b>A++</b>            | —                         | 6.0 <b>A+</b>             | —                         |                           |
| <b>Pdesign</b>  |                   | kW                | 6                   | 7.1                 | 10.0                      | —                         | 10.0                      | —                         |                           |
| <b>Power input Cooling</b>                            | 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)       | 4.800 (0.840-6.000)       |
| <b>Annual Energy Consumption<sup>2-a)</sup></b>       |                   |                   | 1035                | 1350                | 1725                      | 2155                      | 1725                      | 2155                      | 2400                      |
| <b>Annual Energy Consumption(ERP)<sup>2-b)</sup></b>  |                   |                   | 382                 | 487                 | 564                       | —                         | 583                       | —                         |                           |
| <b>Heating capacity</b>                               | 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)           |
| <b>COP<sup>1)</sup></b>                               | Nom. (Min-Max)    | W/W               | 4.05 <b>A</b>       | 3.60 <b>A</b>       | 3.70 (5.12-3.45) <b>A</b> | 3.70 (4.66-3.41) <b>A</b> | 3.70 (5.12-3.45) <b>A</b> | 3.70 (4.66-3.41) <b>A</b> | 3.83 (4.56-3.08) <b>A</b> |
| <b>SCOP</b>   | W/W               |                   | 3.8 <b>A</b>        | 3.8 <b>A</b>        | 3.8 <b>A</b>              | —                         | 3.8 <b>A</b>              | —                         |                           |
| <b>Pdesign at -10 °C</b>                              |                   | kW                | 6.0                 | 6.0                 | 10.0                      | —                         | 10.0                      | —                         |                           |
| <b>Power input Heating</b>                            | Nom. (Min-Max)    | kW                | 1.480 (0.275-2.200) | 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)       | 3.660 (0.900-5.200)       |
| <b>Annual Energy Consumption (ErP)<sup>2-b)</sup></b> |                   |                   | 2210                | 2210                | 3684                      | —                         | 3684                      | —                         |                           |
| <b>Indoor unit</b>                                    |                   |                   |                     |                     |                           |                           |                           |                           |                           |
| <b>Air Volume</b>                                     | Cool / Heat       | m <sup>3</sup> /h | 1140 / 1140         | 1140 / 1140         | 1980 / 1980               | 2100 / 2100               | 1980 / 1980               | 2100 / 2100               | 2160 / 2160               |
| <b>Moisture removal volume</b>                        |                   | U/h               | 3.4                 | 4.2                 | 6.0                       | 7.9                       | 6.0                       | 7.9                       | 9.0                       |
| <b>Sound pressure Level</b>                           | 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              |
| <b>Sound power level</b>                              | 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                        |
| <b>Dimensions</b>                                     | 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          |
| <b>Net weight</b>                                     |                   | kg                | 25                  | 25                  | 33                        | 33                        | 33                        | 33                        | 33                        |
| <b>Outdoor unit</b>                                   |                   |                   |                     |                     |                           |                           |                           |                           |                           |
| <b>Power source</b>                                   | V                 |                   | 220 / 230 / 240     | 220 / 230 / 240     | 220 / 230 / 240           | 220 / 230 / 240           | 380 / 400 / 415           | 380 / 400 / 415           | 380 / 415                 |
| <b>Recommended fuse</b>                               |                   |                   |                     |                     |                           |                           |                           |                           |                           |
| <b>Recommended cable size</b>                         | m                 |                   |                     |                     |                           |                           |                           |                           |                           |
| <b>Connection</b>                                     | mm <sup>2</sup>   |                   |                     |                     |                           |                           |                           |                           | 2 x 1.5 or 2.5            |
| <b>Current Cooling</b>                                | 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                      |
| <b>Current Heating</b>                                | 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                      |
| <b>Air Volume</b>                                     | Cool / Heat       | m <sup>3</sup> /h | 1800 / 2100         | 2340                | 4560 / 4020               | 4800 / 4380               | 4560 / 4020               | 4800 / 4380               | 8100 / 6600               |
| <b>Sound pressure Level<sup>3)</sup></b>              | Cool / Heat (Hi)  | dB(A)             | 48 / 50             | 50 / 52             | 54 / 54                   | 56 / 56                   | 54 / 54                   | 56 / 56                   | 54 / 53                   |
| <b>Sound power level</b>                              | Cool / Heat (Hi)  | dB                | 65 / 69             | 70 / 70             | 70 / 70                   | 73 / 73                   | 70 / 70                   | 73 / 73                   | 71 / 70                   |
| <b>Dimensions</b>                                     | H x W x D         | mm                | 569 x 790 x 285     | 569 x 790 x 285     | 996 x 940 x 340           | 1416 x 940 x 340          |
| <b>Net weight</b>                                     |                   | kg                | 42                  | 42                  | 73                        | 85                        | 73                        | 85                        | 98                        |
| <b>Piping connections</b>                             | 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)               |
| <b>Refrigerant loading</b>                            | R410A             | kg                | 1.7                 | 1.7                 | 2.60                      | 3.20                      | 2.60                      | 3.20                      | 3.4                       |
| <b>Elevation dif. (in/out)<sup>4)</sup></b>           | Max               | m                 | 30                  | 30                  | 30                        | 30                        | 30                        | 30                        | 30                        |
| <b>Piping length</b>                                  | Min/Max           | m                 | 50                  | 50                  | 5 / 50                    | 5 / 50                    | 5 / 50                    | 5 / 50                    | 5-75                      |
| <b>Precharge length</b>                               | Max               | m                 | 20                  | 20                  | 30                        | 30                        | 30                        | 30                        | 30                        |
| <b>Additional charge</b>                              |                   | g/m               | 40                  | 40                  | 50                        | 50                        | 50                        | 50                        | 50                        |
| <b>Operating range</b>                                | 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 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. \*\* Available from January 2013. \*\*\* TBC.

## 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

**Possible to use on R22 pipings**  
R22 RENEWAL

**5 year**  
compressor warranty

U-60PEY1E5  
U-71PEY1E5

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

U-125PEY1E8  
U-140PEY1E8

SEER and SCOP: For KIT-100PTY1E5

36

OPTIONAL CONTROLLERS

Timer remote controller  
CZ-RTC2



Wireless remote controller  
CZ-RWSC2 / CZ-RWST2



Simplified remote controller  
CZ-REZC2



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             |                     |  |  |  |
| <b>KIT</b>   | KIT-50PT1E5*                  | KIT-60PT2E5         | KIT-71PT2E5         | KIT-100PT2E5        | KIT-125PT2E5        | KIT-140PT2E5        | KIT-71PT1E8         | KIT-100PT1E8        | KIT-125PT1E8        | KIT-140PT1E8        |                     |  |  |  |
| <b>Indoor</b>  | S-50PT1E5                     | S-60PT2E5           | S-71PT2E5           | S-100PT2E5          | S-125PT2E5          | S-140PT2E5          | S-71PT2E5           | S-100PT2E5          | S-125PT2E5          | S-140PT2E5          |                     |  |  |  |
| <b>Outdoor</b>                                       | U-50PE1E5                     | U-60PE1E5           | U-71PE1E5           | U-100PE1E5          | U-125PE1E5          | U-140PE1E5          | U-71PE1E8           | U-100PE1E8          | U-125PE1E8          | U-140PE1E8          |                     |  |  |  |
| <b>Wired remote control</b>                          | CZ-RTC2                       | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             | CZ-RTC2             |                     |  |  |  |
| <b>Cooling capacity</b>                              | 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)     |  |  |  |
| <b>EER<sup>1)</sup></b>                              | Nom. (Min-Max) kW             | 2.99 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  |  |  |  |
| <b>SEER</b>  | W/W                           | 5.2 A+              | 6.4 A++             | 6.0 A+              | 6.3 A++             | —                   | —                   | 5.5 A               | 6.2 A++             | —                   | —                   |  |  |  |
| <b>Pdesign</b>                                       | kW                            | 5.0                 | 6.0                 | 7.1                 | 10.0                | —                   | —                   | 7.1                 | 10.0                | —                   | —                   |  |  |  |
| <b>Power input Cooling</b>                           | 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)  |  |  |  |
| <b>Annual Energy Consumption<sup>2-a)</sup></b>      |                               | 835                 | 800                 | 1095                | 1350                | 1930                | 2400                | 1095                | 1350                | 1930                | 2400                |  |  |  |
| <b>Annual Energy Consumption(ErP)<sup>2-b)</sup></b> |                               | 336                 | 328                 | 414                 | 555                 | —                   | —                   | 452                 | 564                 | —                   | —                   |  |  |  |
| <b>Heating capacity</b>                              | 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)     |  |  |  |
| <b>COP<sup>1)</sup></b>                              | Nom. (Min-Max) W/W            | 3.39 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  |  |  |  |
| <b>SCOP</b>  | W/W                           | 3.5 A               | 3.8 A               | 3.5 A               | 4.1 A+              | —                   | —                   | 3.4 A               | 4.1 A+              | —                   | —                   |  |  |  |
| <b>Pdesign at -10 °C</b>                             | kW                            | 4.0                 | 6.0                 | 7.1                 | 10.0                | —                   | —                   | 7.1                 | 10.0                | —                   | —                   |  |  |  |
| <b>Power input Heating</b>                           | 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) |  |  |  |
| <b>Annual Energy Consumption(ErP)<sup>2-b)</sup></b> |                               | 1600                | 2210                | 2840                | 3415                | —                   | —                   | 2923                | 3415                | —                   | —                   |  |  |  |
| <b>Indoor unit</b>                                   |                               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |  |  |  |
| <b>Air Volume</b>                                    | Cool / Heat m <sup>3</sup> /h | 780 / 780           | 1140 / 1140         | 1140 / 1140         | 1980 / 1980         | 2100 / 2100         | 2160 / 2160         | 1140 / 1140         | 1980 / 1980         | 2100 / 2100         | 2160 / 2160         |  |  |  |
| <b>Moisture removal volume</b>                       | l/h                           | 2.0                 | 3.4                 | 4.2                 | 6.0                 | 7.9                 | 9.0                 | 4.2                 | 6.0                 | 7.9                 | 9.0                 |  |  |  |
| <b>Sound pressure Level</b>                          | 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        |  |  |  |
| <b>Sound power level</b>                             | 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                  |  |  |  |
| <b>Dimensions</b>                                    | 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    |  |  |  |
| <b>Net weight</b>                                    | kg                            | 21                  | 25                  | 25                  | 33                  | 33                  | 33                  | 25                  | 33                  | 33                  | 33                  |  |  |  |
| <b>Outdoor unit</b>                                  |                               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |  |  |  |
| <b>Power source</b>                                  | V                             | 220 / 240           | 220 / 240           | 220 / 240           | 220 / 240           | 220 / 240           | 220 / 240           | 380 / 415           | 380 / 415           | 380 / 415           | 380 / 415           |  |  |  |
| <b>Recommended fuse</b>                              |                               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |  |  |  |
| <b>Recommended cable size</b>                        | m                             |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |  |  |  |
| <b>Connection</b>                                    | mm <sup>2</sup>               |                     | 2 x 1.5 or 2.5      |  |  |  |
| <b>Current Cooling</b>                               | 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                |  |  |  |
| <b>Current Heating</b>                               | 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                |  |  |  |
| <b>Air Volume</b>                                    | Cool / Heat m <sup>3</sup> /h | 1800 / 2100         | 3600 / 3600         | 3600 / 3600         | 6600 / 5700         | 7800 / 6600         | 8100 / 7200         | 3600 / 3600         | 6600 / 5700         | 7800 / 6600         | 8100 / 7200         |  |  |  |
| <b>Sound pressure Level<sup>3)</sup></b>             | 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             |  |  |  |
| <b>Sound power level</b>                             | Cool / Heat (Hi) dB           | 65 / 69             | 65 / 67             | 65 / 67             | 69 / 69             | 70 / 70             | 71 / 71             | 65 / 67             | 69 / 69             | 70 / 70             | 71 / 71             |  |  |  |
| <b>Dimensions</b>                                    | 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    |  |  |  |
| <b>Net weight</b>                                    | kg                            | 42                  | 68                  | 69                  | 98                  | 98                  | 98                  | 69                  | 98                  | 98                  | 98                  |  |  |  |
| <b>Piping connections</b>                            | 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)         |  |  |  |
| <b>Refrigerant loading</b>                           | R410A kg                      | 1.65                | 2                   | 2.35                | 3.4                 | 3.4                 | 3.4                 | 2.35                | 3.4                 | 3.4                 | 3.4                 |  |  |  |
| <b>Elevation dif. (in/out)<sup>4)</sup></b>          | Max m                         | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  |  |  |  |
| <b>Piping length</b>                                 | Min/Max m                     | 40                  | 5-50                | 5-50                | 5-75                | 5-75                | 5-75                | 5-50                | 5-75                | 5-75                | 5-75                |  |  |  |
| <b>Precharge length</b>                              | Max m                         | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  | 30                  |  |  |  |
| <b>Additional charge</b>                             | g/m                           | 20                  | 50                  | 50                  | 50                  | 50                  | 50                  | 50                  | 50                  | 50                  | 50                  |  |  |  |
| <b>Operating range</b>                               | 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 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.

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

Possible  
to use on  
R22 pipings

SEER and SCOP: For KIT-60PT2E5

5 year  
compressor  
warranty



**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.

|   |   |   |   |  |   |
|---|---|---|---|--|---|
| <b>A class</b><br>energy saving<br><b>INVERTER+</b> | Down to<br><b>-15 °C</b> in<br>cooling mode<br>OUTDOOR<br>TEMPERATURE | Down to<br><b>-20 °C</b> in<br>heating mode<br>OUTDOOR<br>TEMPERATURE | Easy<br>control<br>by BMS<br>CONNECTIVITY | Possible<br>to use on<br><b>R22</b> pipings<br>R22 RENEWAL | <b>5 year</b><br>compressor<br>warranty |
|---|---|---|---|--|---|

|   |                        |                   | Three Phase             |                         |
|---|------------------------|-------------------|-------------------------|-------------------------|
|   |                        |                   | 20.0 kW                 | 25.0 kW                 |
| <b>KIT</b>                                      |                        |                   | KIT-200PE1E8A           | KIT-250PE1E8            |
| <b>Indoor</b>                                   |                        |                   | S-200PE1E8A             | S-250PE1E8              |
| <b>Outdoor</b>                                  |                        |                   | U-200PE1E8              | U-250PE1E8              |
| <b>Remote control (optional)</b>                |                        |                   | CZ-RTC2                 | CZ-RTC2                 |
| Cooling capacity                                | Nom. (Min-Max)         | kW                | 20.0 (6.0-22.4)         | 25.0 (6.0-28.0)         |
| EER <sup>1)</sup>                               | Nominal                | W/W               | 2.62 <b>D</b>           | 2.62 <b>D</b>           |
| SEER  |                        | W/W               | —                       | —                       |
| Pdesign   |                        | kW                | —                       | —                       |
| Power input Cooling                             | Nominal                | W                 | 7.640                   | 9.550                   |
| Running amperes                                 |                        | A                 | 11.8                    | 14.8                    |
| Annual Energy Consumption <sup>2-a)</sup>       |                        |                   | 3820                    | 4775                    |
| Annual Energy Consumption(ErP) <sup>2-b)</sup>  |                        |                   | —                       | —                       |
| Heating capacity                                | Nom. (Min-Max)         | kW                | 21.8 (6.0-22.4)         | 28.0 (6.0-31.5)         |
| COP <sup>1)</sup>                               | Nominal                | W/W               | 3.54 <b>B</b>           | 3.41 <b>B</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) <sup>2-b)</sup> |                        |                   | —                       | —                       |
| <b>Indoor unit</b>                              |                        |                   |                         |                         |
| Power source                                    |                        | V / ph / Hz       | 220 / 240 / 1 / 50      | 220 / 240 / 1 / 50      |
| External static pressure <sup>3)</sup>          | With booster cable     | Pa                | 216 (235)               | 216 (235)               |
| Air volume                                      | Cooling/Heating        | m <sup>3</sup> /h | 4320                    | 4320                    |
| Moisture removal volume                         | Cooling                | l/h               | 11.1                    | 13.9                    |
| Sound pressure level <sup>4)</sup>              | (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 |
| <b>Outdoor unit</b>                             |                        |                   |                         |                         |
| 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 <sup>3</sup> /h | 7740                    | 7080                    |
| Sound pressure level <sup>4)</sup>              | 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  |
| <b>Refrigerant circuit</b>                      |                        |                   |                         |                         |
| 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                     |
| Max elevation difference-0.U. above/below I.U.  |                        | m                 | 30                      | 30                      |
| Chargeless piping length                        |                        | m                 | 30                      | 30                      |
| 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) <sup>5)</sup>           | 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.



**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**



**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**

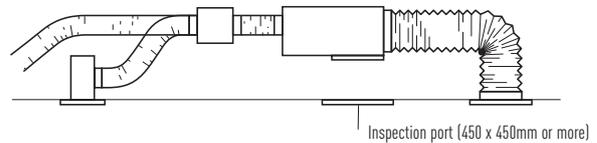
- Weekly On/Off timer (6 settings per day and 42 per week)
- Selection of wired / Wireless and simplified wired remote controller

**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  | 1 x 450 mm                 | CZ-TREMIESPW705 |
| S-250PE1E8   | 1 x 500 mm                 | CZ-TREMIESPW706 |



U-200PE1E8  
U-250PE1E8

# 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

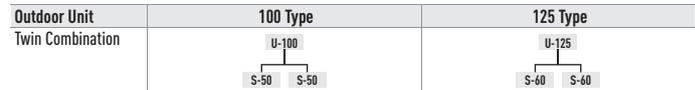
| Item                                |  | Contents  | Symbol |                  | Actual length (m) |
|-------------------------------------|--|---|--------|------------------|-------------------|
|                                     |  |   | Single | Twin             |                   |
| Allowable 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<br>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                  |
|-------------------------|------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Outdoor                 |                        |                   | 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 <sup>2</sup>   |                          |                          |                          |                          |
| Air Volume              | Cooling/Heating        | m <sup>3</sup> /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-50PT2E5 / S-60PT2E5



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                 |
|--|---------------------|-------------------|-----------------------|------------------------|
| <b>Wall</b>                            |                     |                   | <b>S-50PK1E5</b>      | <b>S-60PK1E5</b>       |
| 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 <sup>3</sup> /h | 840 / 840             | 1080 / 1080            |
| <b>4 Way 60x60 Cassette</b>            |                     |                   | <b>S-50PY1E5</b>      | <b>S-60PY1E5</b>       |
| 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 <sup>3</sup> /h | 750 / 750             | 750                    |
| <b>4 Way 90x90 Cassette</b>            |                     |                   | <b>S-50PU1E5</b>      | <b>S-60PU1E5</b>       |
| 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 <sup>3</sup> /h | 960 / 960             | 960 / 960              |
| <b>Low Static Pressure Hide Away</b>   |                     |                   | <b>S-50PN1E5</b>      | <b>S-60PN1E5</b>       |
| 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 <sup>3</sup> /h | 960 / 960             | 1320 / 1320            |
| <b>Hide Away High Stratic Pressure</b> |                     |                   | <b>S-50PF1E5</b>      | <b>S-60PF1E5</b>       |
| 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 <sup>3</sup> /h | 960 / 960             | 1260 / 1260            |
| <b>Ceiling<sup>1</sup></b>             |                     |                   | <b>S-50PT2E5</b>      | <b>S-60PT2E5</b>       |
| 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 <sup>3</sup> /h | 840 / 840             | 1140 / 1140            |

1. Available from November 2013.

# 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<br>L1-L2 | L1 > L2 > L3<br>L1-L2 | L2+L6 → MAX<br>L2+L6 → MIN<br>(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<br>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 |        |        |        |        |
|--------------------------------------|----------------------|-------------------------|--------|--------|--------|--------|
| Liquid side: Ø 9.52                  | Liquid side          | S-36                    | S-45   | S-50   | S-60   | S-71   |
| Gas side: Ø 15.88                    | Gas side             | Ø 6.35                  | Ø 6.35 | Ø 6.35 | Ø 9.52 | Ø 9.52 |
| Branch pipe kit (option)             | TWIN, DOUBLE-TWIN    | CZ-P155BK1              |        |        |        |        |
|                                      | TRIPLE               | CZ-P3HPC2BM             |        |        |        |        |

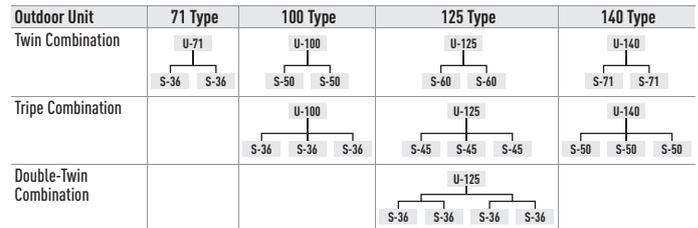
Refrigerant charging: For the twin connection, the amount of refrigerant required for pipe length 30 m has been included in this unit at the factory while that required for pipe length 20 m has been included for the Triple / Double-Twin connections. No additional charge is required for the first 30 m 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                  |
|-------------------------|------------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                         |                        | U-71PE1E5         | U-71PE1E8                | U-100PE1E5               | U-100PE1E8               | U-125PE1E5               | U-125PE1E8               | U-140PE1E5               | U-140PE1E8               |
| Outdoor                 |                        |                   |                          |                          |                          |                          |                          |                          |                          |
| 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)        |
| 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)        |
| Power source            |                        | V                 | 220 - 240                | 380-415                  | 220 - 240                | 380 - 415                | 220 - 240                | 380 - 415                | 220 - 240                |
| Connection              |                        | mm <sup>2</sup>   | 2 x 1.5 or 2.5           |
| Air Volume              | Cooling/Heating        | m <sup>3</sup> /h | 3600 / 3600              | 3600 / 3600              | 6600 / 5700              | 6600 / 5700              | 7800 / 6600              | 7800 / 6600              | 8100 / 7200              |
| Sound pressure Level    | Cooling/Heating (Hi)   | dB(A)             | 48 / 50                  | 48 / 50                  | 52 / 52                  | 52 / 52                  | 53 / 53                  | 53 / 53                  | 54 / 55                  |
| Sound power Level       | Cooling/Heating (Hi)   | dB                | 65 / 67                  | 65 / 67                  | 69 / 69                  | 69 / 69                  | 70 / 70                  | 70 / 70                  | 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)    |
| 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) |
| Refrigerant Loading     | R410A                  | kg                | 2.35                     | 2.35                     | 3.4                      | 3.4                      | 3.4                      | 3.4                      | 3.4                      |
| Elevation dif. (in/out) | Max                    | m                 | 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                   |
| Precharge length        | Max                    | m                 | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       | 30                       |
| Additional gas          |                        | g/m               | 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                 |
|                         | Heating Min/Max        | °C                | -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-36PY1E5 / S-45PY1E5 / S-50PY1E5



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



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



S-36PT2E5 / S-45PT2E5 / S-50PT2E5 / S-60PT2E5 / S-71PT2E5



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                 |
|--|---------------------|-------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|
| <b>Wall</b>                            |                     |                   | <b>S-36PK1E5</b>      | <b>S-45PK1E5</b>      | <b>S-50PK1E5</b>      | <b>S-60PK1E5</b>       | <b>S-71PK1E5</b>       |
| 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       |
| 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 <sup>3</sup> /h | 660 / 660             | 720 / 720             | 840 / 840             | 1080 / 1080            | 1080 / 1080            |
| <b>4 Way 60x60 Cassette</b>            |                     |                   | <b>S-36PY1E5</b>      | <b>S-45PY1E5</b>      | <b>S-50PY1E5</b>      |                        |                        |
| 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 <sup>3</sup> /h | 540 / 540             | 636 / 636             | 750 / 750             |                        |                        |
| <b>4 Way 90x90 Cassette</b>            |                     |                   | <b>S-36PU1E5</b>      | <b>S-45PU1E5</b>      | <b>S-50PU1E5</b>      | <b>S-60PU1E5</b>       | <b>S-71PU1E5</b>       |
| 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        |
|  | 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)             | 30 / 28 / 27          | 31 / 28 / 27          | 32 / 29 / 27          | 36 / 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 <sup>3</sup> /h | 840 / 840             | 900 / 900             | 960 / 960             | 1260 / 1260            | 1320 / 1320            |
| <b>Low Static Pressure Hide Away</b>   |                     |                   | <b>S-36PN1E5</b>      | <b>S-45PN1E5</b>      | <b>S-50PN1E5</b>      | <b>S-60PN1E5</b>       | <b>S-71PN1E5</b>       |
| 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 <sup>3</sup> /h | 840 / 840             | 960 / 960             | 960 / 960             | 1320 / 1320            | 1320 / 1320            |
| <b>Hide Away High Stratic Pressure</b> |                     |                   | <b>S-36PF1E5</b>      | <b>S-45PF1E5</b>      | <b>S-50PF1E5</b>      | <b>S-60PF1E5</b>       | <b>S-71PF1E5</b>       |
| 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 <sup>3</sup> /h | 840 / 840             | 840 / 840             | 960 / 960             | 1260 / 1260            | 1260 / 1260            |
| <b>Ceiling<sup>1</sup></b>             |                     |                   | <b>S-36PT2E5</b>      | <b>S-45PT2E5</b>      | <b>S-50PT2E5</b>      | <b>S-60PT2E5</b>       | <b>S-71PT2E5</b>       |
| 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 <sup>3</sup> /h | 720 / 720             | 840 / 840             | 840 / 840             | 1140 / 1140            | 1140 / 1140            |

1. Available from November 2013.

# 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)

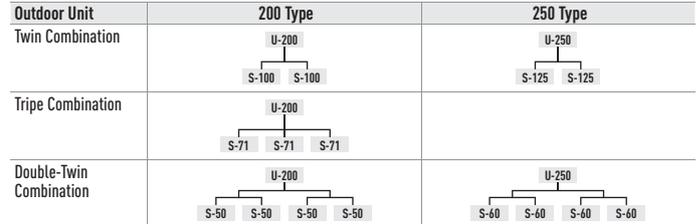
A= CZ-P680BK2BM  
C=CZ-P155BK1BM

| 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 + Q1<br>L + Q2   | L + Q1 L + Q2<br>L + Q3         | L + L1 + Q1 L + L1 + Q2<br>L + L2 + Q3 L + L2 + Q4      | ≤ 100 |
|   | Maximum distribution tubing length  | Maximum length following the first branch point (No. 1 distribution)       | -      | Q1 Q2              | Q1 Q2 Q3                        | L1 + Q1 L1 + Q2 L2 + Q3 L2 + Q4                         | ≤ 20  |
|   |   | Maximum length following the second branch point (double twin)             | -      | -                  | -                               | Q1 Q2 Q3 Q4   | ≤ 15  |
| Sum Total Length  | Maximum allowable tubing length and the sum total of other tubing                                   | -  | -      | L + Q1 + Q2 + Q3   | L + L1 + L2 + Q1 + Q2 + Q3 + Q4 | ≤ 120   |       |
| Maximum branch tubing length  | Difference between the maximum length and minimum length in tubing following the first branch point | -  | -      | Q1 > Q2<br>Q1 - Q2 | Q1 > Q2 > Q3<br>Q1 - Q3         | Max.: L2 + Q2 // Min.: L1 + Q1<br>(L2 + Q4) - (L1 + Q1) | ≤ 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  | H1     | -                  | -                               | -   | ≤ 30  |
|   | Maximum height difference between indoor units  | If outdoor unit is lower   | -      | 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 (Q1, Q2, Q3, Q4) |        |
|-------------------------------------|-----------------|-------|---|--|--|--------|
|                                     | 200             | 250   | Total type capacity of indoor unit connected after the branch |  | Q1, Q2                                       | Q3, Q4 |
| Type capacity of indoor unit        | 200             | 250   | 100 - 140   |  | 60-140                                       | 36-50  |
| Gas tube                            | Ø25.4           |       | Ø15.88  |  | Ø15.88                                       | Ø12.7  |
| Liquid tube                         | Ø9.52           | Ø12.7 | Ø9.52   |  | Ø9.52  | Ø6.35  |
| Amount of additional change per 1 m | 40 g            | 80 g  | 40 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        | m³/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  |
| <b>Refrigerant circuit</b>       |                        |           |                         |                         |
| 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-50PT2E5 / S-60PT2E5 / S-71PT2E5 / S-100PT2E5 / S-125PT2E5



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                |
|--|---------------------|-------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| <b>Wall</b>                            |                     |                   | <b>S-50PK1E5</b>      | <b>S-60PK1E5</b>       | <b>S-71PK1E5</b>       |                        |                        |
| 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 <sup>3</sup> /h | 840 / 840             |                        | 1080 / 1080            | 1080 / 1080            |                        |
| <b>4 Way 60x60 Cassette</b>            |                     |                   | <b>S-50PY1E5</b>      |                        |                        |                        |                        |
| 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 <sup>3</sup> /h | 750 / 750             |                        |                        |                        |                        |
| <b>4 Way 90x90 Cassette</b>            |                     |                   | <b>S-50PU1E5</b>      | <b>S-60PU1E5</b>       | <b>S-71PU1E5</b>       | <b>S-100PU1E5</b>      | <b>S-125PU1E5</b>      |
| 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 <sup>3</sup> /h | 960 / 960             | 1.260 / 1.260          | 1.320 / 1.320          | 1.980 / 1.980          | 2.100 / 2.100          |
| <b>Low Static Pressure Hide Away</b>   |                     |                   | <b>S-50PN1E5</b>      | <b>S-60PN1E5</b>       | <b>S-71PN1E5</b>       | <b>S-100PN1E5</b>      | <b>S-125PN1E5</b>      |
| 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 <sup>3</sup> /h | 960 / 960             | 1320 / 1320            | 1320 / 1320            | 2160 / 2160            | 2400 / 2400            |
| <b>Hide Away High Stratic Pressure</b> |                     |                   | <b>S-50PF1E5</b>      | <b>S-60PF1E5</b>       | <b>S-71PF1E5</b>       | <b>S-100PF1E5</b>      | <b>S-125PF1E5</b>      |
| 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 / 100 / 10         | 150 / 100 / 10         |
| Air Volume                             | Cooling / Heating   | m <sup>3</sup> /h | 960 / 960             | 1260 / 1260            | 1260 / 1260            | 1920 / 1920            | 2040 / 2040            |
| <b>Ceiling<sup>1</sup></b>             |                     |                   | <b>S-50PT2E5</b>      | <b>S-60PT2E5</b>       | <b>S-71PT2E5</b>       | <b>S-100PT2E5</b>      | <b>S-125PT2E5</b>      |
| 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 <sup>3</sup> /h | 840 / 840             | 1140 / 1140            | 1140 / 1140            | 1980 / 1980            | 2100 / 2100            |

1. Available from November 2013.

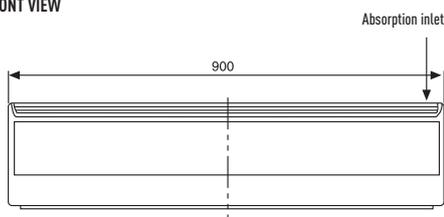
**ELECTRICAL AIR CURTAIN**

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

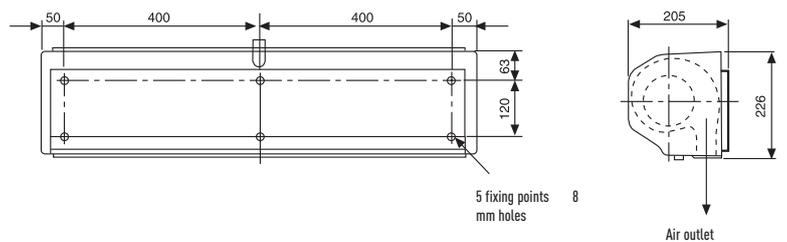
|             |    |       | FY-10ESPNAH | FY-10ELPNAH |
|-------------|----|-------|-------------|-------------|
| Width       |    |       | 900         | 1.200       |
| Watts       | Hi | W     | 71,5        | 96          |
|             | Lo | W     | 61,5        | 74          |
| Current     | 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 | m³/h  | 750         | 1.000       |
|             | Lo | m³/h  | 630         | 830         |
| Noise lever | Hi | dB(A) | 46          | 46          |
|             | Lo | dB(A) | 42          | 41          |
| Weight      |    | kg    | 11          | 14          |

**INDOOR UNIT DIMENSIONS FY-10ESPNAH**

**FRONT VIEW**

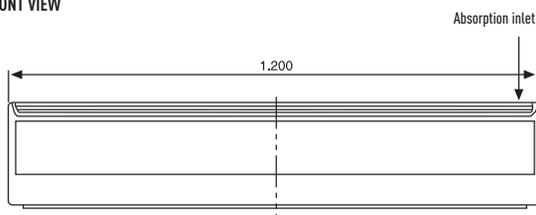


**BACK VIEW**

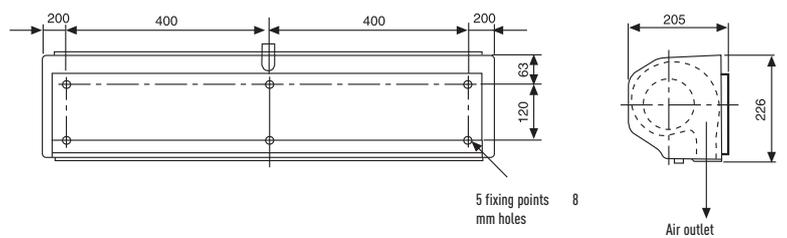


**INDOOR UNIT DIMENSIONS FY-10ELPNAH**

**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

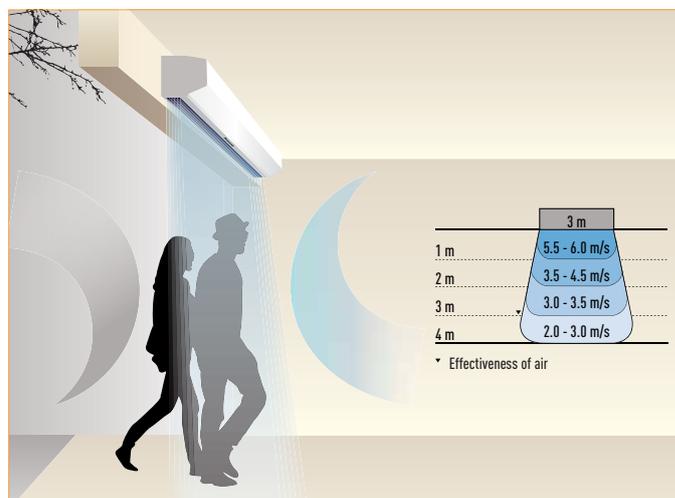
- Easy redirection of airflow by means of the manual deflector

#### 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!

EC Fan motor for a smooth operation and efficient performance.

2 types of Air flow: Standard and Jet Flow.

| HP  |                   | 4                          | 10                         | 4                          | 8                          | 10                         |
|---|-------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Air Curtain                                 |                   | PAW-10PAIRC-MS*            | PAW-20PAIRC-MS*            | PAW-10PAIRC-MJ*            | PAW-15PAIRC-MJ*            | PAW-20PAIRC-MJ*            |
| Air flow type                               |                   | Standard                   |                            | Jetflow                    |                            |                            |
| Air Volume High                             | m <sup>3</sup> /h | 2700                       | 5400                       | 2700                       | 3600                       | 5400                       |
| Air Volume Medium                           | m <sup>3</sup> /h |                            |                            |                            |                            |                            |
| Air Volume Low                              | m <sup>3</sup> /h |                            |                            |                            |                            |                            |
| Length                                      | m                 | 1.0                        | 2.0                        | 1.0                        | 1.5                        | 2.0                        |
| Heating capacity max (at air in 20 °C)      | kW                | 12.47                      | 29.99                      | 12.47                      | 19.55                      | 29.99                      |
| Max Installation high                       | m                 | 2.4                        | 2.4                        | 2.7                        | 2.7                        | 2.7                        |
| Refrigerant                                 |                   | R410A                      | R410A                      | R410A                      | R410A                      | R410A                      |
| Hot gas temperature                         | °C                | 70                         | 70                         | 70                         | 70                         | 70                         |
| Pressure                                    | bar               | 45                         | 45                         | 45                         | 45                         | 45                         |
| Tubing suction                              | mm                | 16                         | 22                         | 16                         | 18                         | 22                         |
| Tubing pressure                             | mm                | 10                         | 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 | 230 V / 50 Hz / 1 / N / PE |
| Fan type                                    |                   | EC                         | EC                         | EC                         | EC                         | EC                         |
| Current High                                | A                 | 2.1                        | 4.2                        | 2.1                        | 2.8                        | 4.2                        |
| El. Consumption                             | kW                | 0.44                       | 0.89                       | 0.44                       | 0.59                       | 0.89                       |
| Current at Med                              | A                 |                            |                            |                            |                            |                            |
| El. Consumption Med.                        | kW                |                            |                            |                            |                            |                            |
| Current at Low                              | A                 |                            |                            |                            |                            |                            |
| El. Consumption Low                         | kW                |                            |                            |                            |                            |                            |
| Protecting Fuse                             | A                 |                            |                            |                            |                            |                            |
| Noise                                       | dB(A)             | 40-55                      | 40-57                      | 40-55                      | 40-56                      | 40-57                      |
| Dimensions L/H/D                            | mm                | 1210 x 260 x 490           | 2210 x 260 x 490           | 1210 x 260 x 590           | 1710 x 260 x 590           | 2210 x 260 x 590           |
| Weight                                      | kg                | 60                         | 128                        | 70                         | 100                        | 138                        |
| Outdoor combination with PACi Elite unit    |                   | U-100PE1E5/8               | U-250PE1E8                 | U-100PE1E5/8               | U-200PE1E8                 | U-250PE1E8                 |
| Outdoor combination with PACi Standard unit |                   | U-100PEY1E5/8              |                            | U-100PEY1E5/8              |                            |                            |

\* Available from April 2013.



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

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

#### Technical Focus

- SAVE UP TO 40% ENERGY SAVING ON THE FAN WITH THE NEW NEW EC FAN
- 4 LENGTHS OF AIR CURTAINS, FROM 1 m TO 2.5 m
- 2 TYPES OF AIR FLOW (STANDARD AND JET FLOW)
- OUTLET GRILLES CAN BE ADJUSTED IN FIVE POSITIONS, TO SUIT DIFFERENT INDOOR REQUIREMENTS

#### Features

##### COMFORT

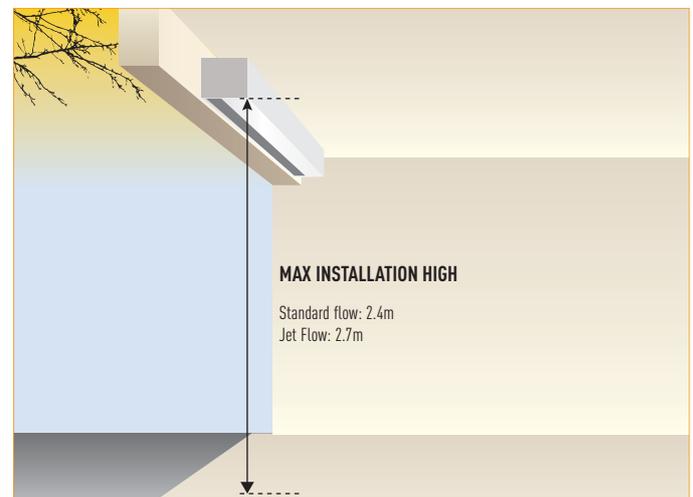
- Easy redirection of airflow by means of the manual deflector

##### 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 HANDLING UNIT Kit 10-28 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.

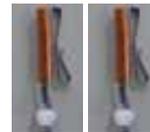
### AHU CONNECTION KIT



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 (for PAH model)  
only for air inlet side, but not  
for outlet side.  
(Air: Tf, Tb)

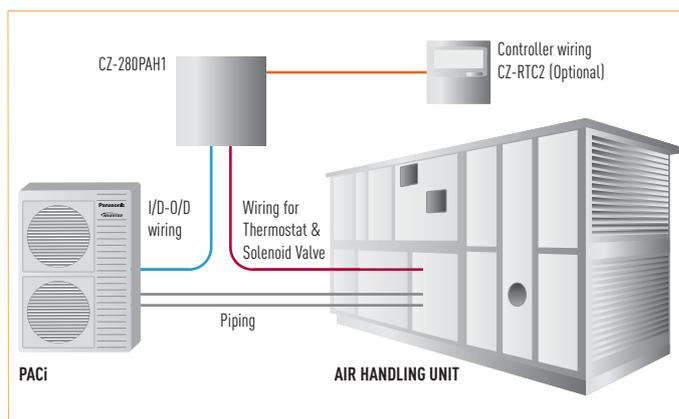
### REMOTE CONTROLLER



Standard wired remote  
controller. Optional

### Panasonic AHU Kit, 10-28 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  $\square$  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<br>(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.



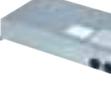
| OPERATION SYSTEM                  | INDIVIDUAL CONTROL SYSTEMS  |  |  |   | TIMER OPERATION   |
|-----------------------------------|---|--|--|---|---|
| Requirements                      | Normal operation  | Operation from each seat   | Quick and easy operation   |   | Daily and weekly program  |
| External appearance               |  |                 |                              |  |    |
| Type, model name                  | Timer Remote Controller (Wired)<br>CZ-RTC2  | Wireless Remote Controller<br>CZ-RWSU2<br>CZ-RWSY2<br>CZ-RWSL2<br>CZ-RWSC2<br>CZ-RWST2<br>CZ-RWSK2 | Simplified Remote Controller<br>CZ-RE2C2   | Backlight remote controller<br>CZ-RELC2   | Schedule Timer<br>CZ-ESWC2  |
| Built-in Thermostat               | ✗   | ✗  | ✗  |   |   |
| N. of I/O 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.<br>· CZ-RELC2: can not operate other (SUB) remo-con. |   | · Required power supply from the system controller<br>· 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                | ✗   | ✗ <sup>1</sup>   | ✗ <sup>1</sup>   |   | —   |
| 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<br>CZ-64ESMC2  | ON/OFF Controller<br>CZ-ANC2   | Intelligent Controller (Touch screen panel)<br>CZ-256ESMC2 (CZ-CFUNC2)   | P-AIMS. Basic Software<br>CZ-CSWKC2  | Seri-Para I/O unit for outdoor unit<br>CZ-CSWKC2   |
| —  | —  | —  | Optional software<br>  | Local adaptor for ON/OFF control<br>CZ-CAPC2   |
| 64 groups, max. 64 units   | 16 groups, max. 64 units   | 64 units x 4 systems, max. 256 units   | Web Interface Systems<br>CZ-CWIBC2<br>*PC required (field supply)  | MINI Seri-Para I/O unit<br>CZ-CAPBC2   |
| <ul style="list-style-type: none"> <li>Up to 10 controllers, can be connected to one system.</li> <li>Main unit/sub unit (1 main unit + 1 sub unit) connection is possible.</li> <li>Use without remote controller is possible.</li> </ul> | <ul style="list-style-type: none"> <li>Up to 8 controllers (4 main units + 4 sub units) can be connected to one system.</li> <li>Use without remote controller is impossible.</li> </ul> | <ul style="list-style-type: none"> <li>A communication adaptor (CZ-CFUNC2) must be installed for three or more systems.</li> </ul> | <ul style="list-style-type: none"> <li>CZ-CSWGC2 for Object layout display.</li> <li>CZ-CSWBC2 for BAC net software interface.</li> <li>*PC required (field supply)</li> </ul> | <ul style="list-style-type: none"> <li>CZ-CAPBC2</li> <li>CZ-CFUNC2</li> <li>CZ-CLNC2</li> </ul> |
| X  | X  | X  |   |             |
| X  | —  | X  |  |  |
| X  | —  | X  |  |  |
| X  | —  | X  |  |  |
| X <sup>1</sup>   | —  | X <sup>1</sup>   |  |  |
| 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    |
|---|---|-------------|
| <b>Standard Control</b> <ul style="list-style-type: none"> <li>• Control of the various operations of the indoor unit by wired or wireless remote controller.</li> <li>• Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller.</li> <li>• Switching between remote controller sensor and body sensor is possible.</li> </ul> | Timer remote controller<br><b>CZ-RTC2 // CZ-RE2C2 // CZ-RELC2</b><br>Wireless remote controller<br><b>CZ-RWSY2 // CZ-RWSU2 // CZ-RWSL2 // CZ-RWSG2</b><br><b>CZ-RWSK2 // CZ-RE2C2</b> | 1 unit each |
| <b>(1) Group control</b> <ul style="list-style-type: none"> <li>• Batch remote control on all indoor units.</li> <li>• Operation of all indoor cells in the same mode.</li> <li>• Up to 8 units can be connected.</li> </ul>  | Timer remote controller<br><b>CZ-RTC2 // CZ-RE2C2</b><br>Wireless remote controller<br><b>CZ-RWSY2 // CZ-RWSU2 // CZ-RWSL2 // CZ-RWSG2</b><br><b>CZ-RWSK2 // CZ-RE2C2</b>             | 1 unit      |
| <b>(2) Main/sub remote control</b> <ul style="list-style-type: none"> <li>• Max 2 remote controllers per indoor unit.</li> <li>• The button pressed last has priority.</li> <li>• Timer setting is possible even with the sub remote controller.</li> </ul>   | Main or sub. Timer remote controller<br><b>CZ-RTC2</b><br>Wireless remote controller<br><b>CZ-RWSY2 // CZ-RWSU2 // CZ-RWSL2 // CZ-RWSG2</b><br><b>CZ-RWSK2 // CZ-RE2C2</b>            | As required |

## Centralised Control Systems

### Schedule timer (CZ-ESWC2)



Dimensions  
H 120 x W 120 x D 16 mm

The power supply for the schedule timer is taken from one of the following.

1. Control circuit board (T10) of a nearby indoor unit (power supply wiring length: within 200 m from the indoor unit).
2. System controller (power supply wiring length: within 100 m from the indoor unit).

When the power supply for the schedule timer is taken from the control circuit board of the indoor unit, that indoor unit cannot be used with other control devices using the CZ-T10 terminal. As operation mode and temperature settings are not possible with the schedule timer, it must be used together with a remote controller, a system controller, an intelligent

controller, etc. Also, as it does not have an address setting function, the control function of a system controller etc. must be used for address setting.

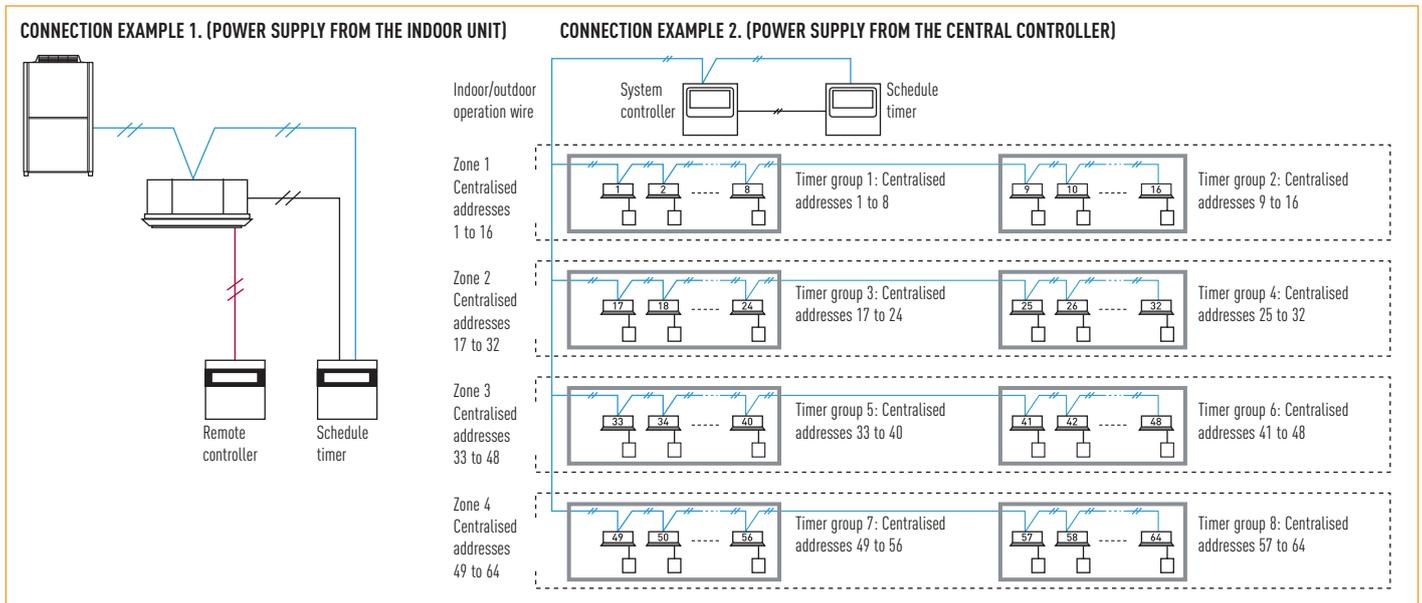
**Up to 64 groups (max. 64 indoor units) can be controlled divided into 8 timer groups**

**Six program operations (Operation/Stop/Local permission/ Local prohibition) per day can be set in a program for one week**

- Only operation or stop, remote controller local permission or remote controller local prohibition, and their respective combinations are possible. (Operation + local permission, stop + local prohibition, only local permission, etc.)
- Local prohibition and the combination of the three items of temperature setting, mode change, and operation/stop can be set at the time of installation.

**A function for pausing the timer in case of national holidays has been added, and timer operation also can be stopped for a long time**

- By setting holidays or operation stop within one week, the timer can be paused just for that week.
- All timer settings can be stopped with the timer "ON/OFF effective" button. (Return to timer operation is made by pressing the button again.)



### ON/OFF controller (CZ-ANC2)



Dimensions  
H 121 x W 122 x D 14 + 52  
(embedding dimension mm)

Power supply: AC 220 to 240 V  
I/O part: Remote input (effective voltage: within DC 24 V): All ON/OFF  
Remote output (allowable voltage: within DC 30 V): All ON, All alarm

- 16 groups of indoor units can be controlled.
- Collective control and individual group (unit) control can also be performed.
- Up to 8 ON/OFF controller (4 main, 4 sub) can be installed in one link system.
- The operation status can be determined immediately.

Note: As operation mode and temperature settings are not possible with the ON/OFF controller, it must be used together with a remote controller, a system controller etc.

## System controller (CZ-64ESMC2)



Dimensions  
H 120 x W 120 x D 21 + 69  
(embedding dimension mm)

Power supply: AC 220 to 240 V  
I/O part: Remote input (effective voltage: DC 24 V): All ON/All OFF  
Remote output (voltage-free contact): All ON/All OFF (external Power supply within DC 30 V, max 1 A)  
Total wiring length 1 km

### Individual control is possible for max. 64 groups, 64 indoor units.

Control of 64 indoor units divided into 4 zones. (One zone can have up to 16 groups, and one group can have up to 8 units.)

Control is possible for ON/OFF, operation mode, fan speed, air flow direction (only when used without a remote controller), operation monitoring, alarm monitoring, ventilation, remote controller local operation prohibition, etc.

- Individual All operations are possible also from the remote controller. However, the contents will be changed to the contents of the controller operated last.
- Central 1 The remote controller cannot be used for ON/OFF. (All other operations are possible from the remote controller.)
- Central 3 The remote controller cannot be used for mode change or temperature setting change. (All other operations are possible from the remote controller.)
- Central 4 The remote controller cannot be used for operation mode change. (All other operations are possible from the remote controller.)

### Joint use with a remote controller, an intelligent controller, a schedule timer, etc. is possible

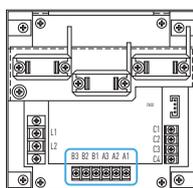
(The maximum number of connectable system controllers is 10, including other central controllers on the same circuit.)  
(In case of joint use with a wireless remote controller, there are limitations for the control mode. Please use only with "Individual" and "Central 1".)

### Control of systems without a remote controller and of main/sub systems (a total of up to 2 units) is possible

#### External Contacts On Central Controllers

Terminals for remote monitoring:

- A1) Input for turning ON air conditioners concurrently
- A2) Input for turning OFF air conditioners concurrently
- A3) Common input for turning air conditioners ON or OFF
- B1) On operation state indicator output
- B2) Alarm indicator output
- B3) Common indicator output



A control mode corresponding to the use condition can be selected from 10 patterns

#### A. Operation mode: Central control mode or remote control mode can be selected

Central control mode: The system controller is used as centralised control device. (Setting from a remote controller can be prohibited by prohibiting local operation from the system controller.)

Remote control mode: The system controller is used as a remote controller. (Setting from the system controller can be prohibited by prohibiting local operation from another central control unit.)

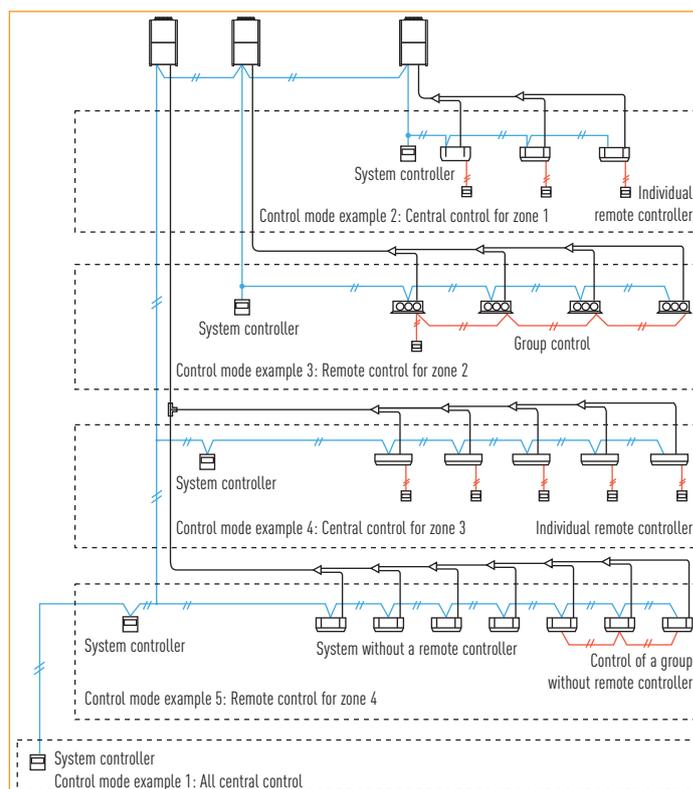
#### B. Controlled unit number mode: All mode or zone 1, 2, 3, 4 mode can be selected

All mode: All, zone, or group unit can be selected.

Zone 1, 2, 3, 4 mode: Setting is possible only for the indoor units of zone 1, 2, 3, or 4.

#### CONNECTION EXAMPLE

|                               |             | A Operation mode                 |                                 |
|-------------------------------|-------------|----------------------------------|---------------------------------|
|                               |             | Central control mode             | Remote control mode             |
| B Controlled unit number mode | All mode    | All central control Example 1    | All remote control              |
|                               | Zone 1 mode | Zone 1 central control Example 2 | Zone 1 remote control           |
|                               | Zone 2 mode | Zone 2 central control           | Zone 2 remote control Example 3 |
|                               | Zone 3 mode | Zone 3 central control Example 4 | Zone 3 remote control           |
|                               | Zone 4 mode | Zone 4 central control           | Zone 4 remote control Example 5 |



## Intelligent controller (CZ-256ESMC2)



### Touch panel

Dimensions  
H 240 x W 280 x D 138 mm

Power supply AC 100 to 240 V (50 Hz), 30 W  
(separate power supply)

I/O part Remote in put (voltage-free contact): All ON/OFF  
Remote output (voltage-free contact): All ON, All alarm (external power supply within DC 30 V, 0.5 A)

Total wiring length: 1 km for each system  
Only for embedding in the panel

### Limitation contents for prohibited operation

Prohibition means limitation of the operation contents from the remote controller. It is also possible to change the prohibition items.

### Limitation contents (Limitations can be user defined)

- Individual There is no limitation for the operation of the remote controller. However, the contents will be changed to the contents of the controller operated last. (Last-pressed priority.)
- Prohibition 1 The remote controller cannot be used for ON/OFF. (All other operations are possible from the remote controller.)
- Prohibition 2 The remote controller cannot be used for ON/OFF, operation mode change and temperature setting. (All other operations are possible from the remote controller.)
- Prohibition 3 The remote controller cannot be used for operation mode change and temperature setting. (All other operations are possible from the remote controller.)
- Prohibition 4 The remote controller cannot be used for operation mode change. (All other operations are possible from the remote controller.)

Note: Avoid joint use of the AMY system and the intelligent controller on the same indoor/ outdoor operation line.

**Max. 256 indoor units (4 systems x 64 units) can be controlled. In case of three or more systems, a communication adaptor CZ-CFUNC2 must be installed on the outside**

**Operation is possible as batch, in zone units, in tenant and in group units**

ON/OFF, operation mode setting, temperature setting, for fan speed setting, air flow direction setting (when used without a remote controller), and remote controller local operation prohibition (prohibition 1, 2, 3, 4) can be done

A system without a remote controller is possible. Joint use with a remote controller or a system controller is also possible

Use of a schedule timer and holiday setting also can be done

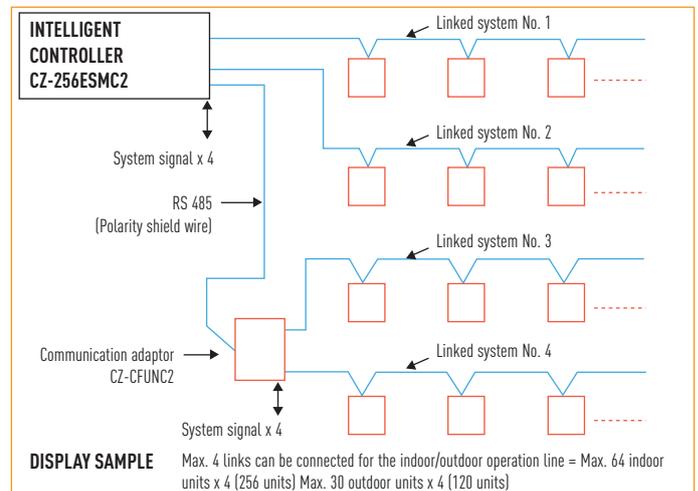
Proportional distribution of the air conditioning energy is possible. Including csv-file export via CF-card (supplementary accessory)

**NEW function: Pulse signal input from electric/gas consumption meter**

In case of joint use with a wireless remote control system, there are limitations for the control mode. Please use only with "Permission" and "Prohibition 1".



### Web application



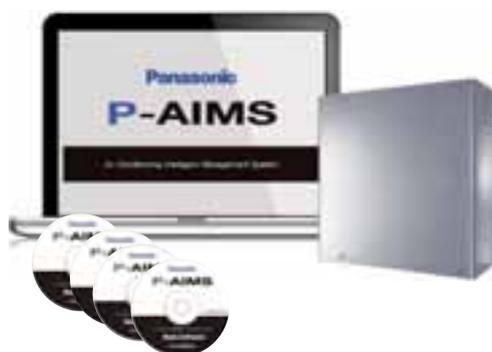
## P-AIMS. Panasonic Total Air Conditioning Management System

### P-AIMS Basic software / CZ-CSWK2

/ Up to 1024 indoor units can be controlled by one PC /

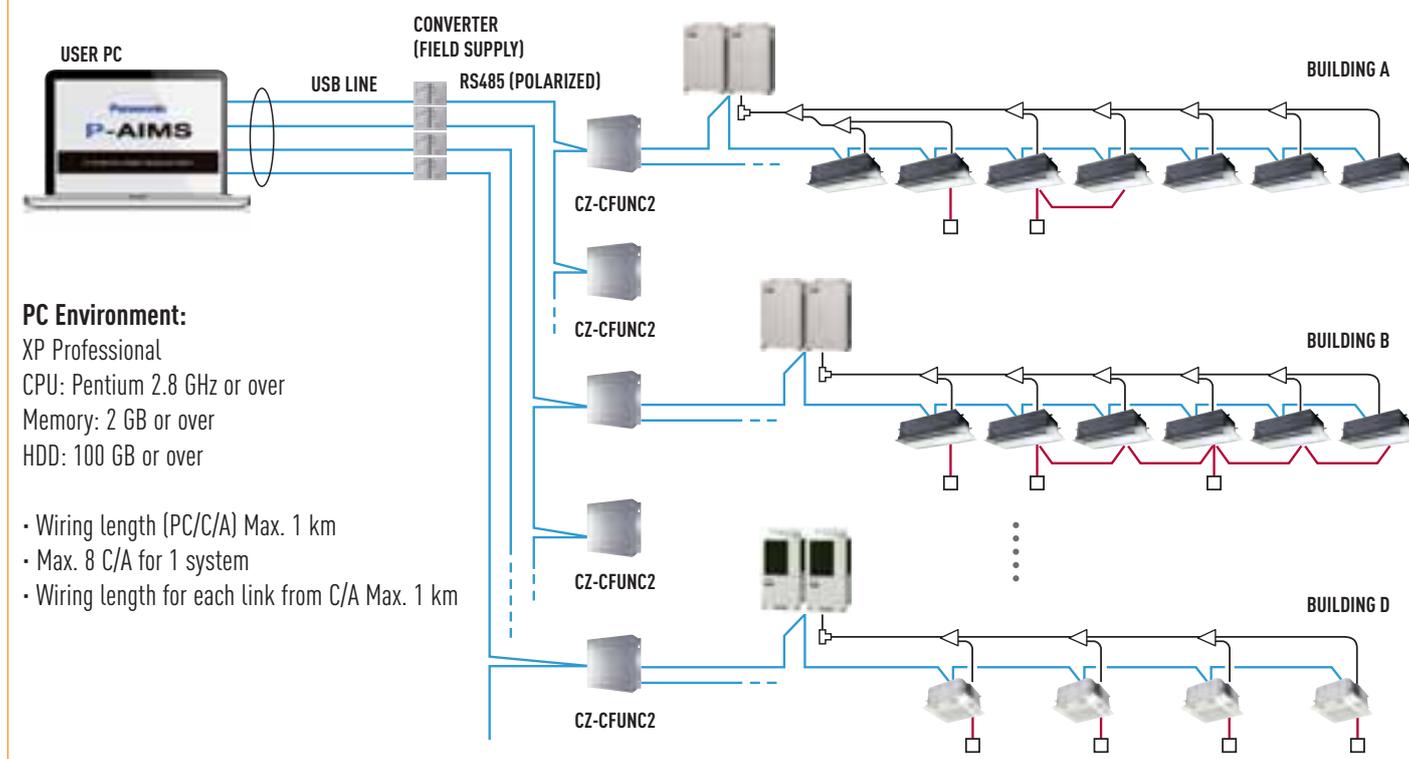
#### Functions of basic software

- Standard remote control for all indoor units.
- Many timer schedule programs can be set on the calendar.
- Detailed information display for alarms.
- CSV file output with alarm history, operating status.
- Automatic data backup to HDD.



With 4 upgrade packages the basic software can be upgraded to suit individual requirements

P-AIMS is suitable for large shopping centers and universities with many areas/ buildings. 1 "P-AIMS" PC can have 4 independent systems at once. Each system can have max. 8 C/A units, and control max. 512 units. In total, 1024 indoor units can be controlled by 1 "P-AIMS" PC.



### P-AIMS optional software CZ-CSWAC2 for Load distribution

#### Load distribution calculation for each tenant

- Air-conditioner load distribution ratio is calculated for each unit (tenant) with used energy consumption data (m<sup>3</sup>, kWh).
- Calculated data is stored as a CSV type file.
- Data from the last 365 days is stored.

### P-AIMS optional software CZ-CSWWC2 for Web application

#### Web access & control from remote station

- Accessing P-AIMS software from remote PC.
- You can monitor/operate ECOi 6N system by using Web browser (Internet Explorer).

### P-AIMS optional software CZ-CSWGC2 for Object layout display

#### Whole system can be controlled visually

- Operating status monitor is available on the layout display.
- Object's layout and indoor unit's location can be checked at once.
- Each unit can be controlled by virtual remote controller on the display.
- Max. 4 layout screens are shown at once.

### P-AIMS optional software CZ-CSWBC2 for BACnet software interface

#### Connectable to BMS system

- Can communicate with other equipment by BACnet protocol.
- ECOi 6N system can be controlled by both BMS and P-AIMS.
- Max. 255 indoor units can be connected to 1 PC (that has P-AIMS basic & BACnet software).

## Web Interface / CZ-CWEBC2

### Functions

- Access and operation by Web browser.
- Icon display.
- Language codes available in English, French, German, Italian, Portuguese, Spanish.
- Individual control possible (max. 64 indoor units) ON/OFF operation mode, set temperature, fan speed, Flap set, timer on/off alarm code monitoring, prohibit Remote Control.
- Zone control\*.
- All Units control.
- Alarm Log.
- Mail Sent Log.
- Program Timer set 50 daily timers with 50 actions each day, 50 weekly timers 50 weekly timers, 1 holiday timer, 5 special day timers, for each tenant
- Prohibit Remote Control set.
- IP ADDRESS could be changed via Internet.



(HxWxD): 248x185x80 mm  
AC 100 to 240 V (50/60Hz), 17 W  
(separate power supply)

Note: It is recommended to install a remote controller or a system controller on site to enable local control if it network experience a problem.

### Easy to set to every room by recognizable icon and user-friendly remote control window

- If any of the indoor units is selected, the remote control window shown will be displayed for detailed setting modifications.

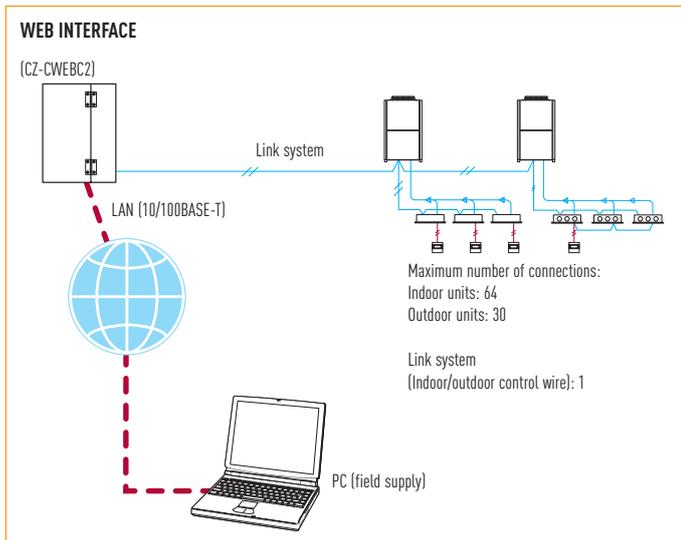
### Easy to manage and monitor each tenant use\*

- Each floor or tenant, otherwise each zone can be displayed and controlled.
- All unit statuses can also be displayed on one screen.

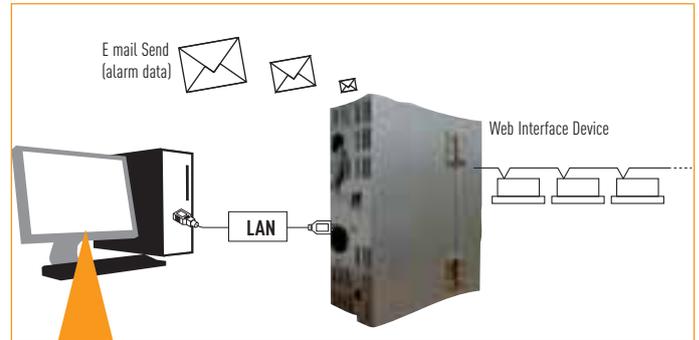
### Program Timer set

- 50 daily timers with 50 actions each day, 50 weekly timers, holiday timer, 5 special day timers, for each tenant.

\* Web interface system not applicable for load distribution.



## Web Interface Device (CZ-CWEBC2)



### Functions

- Access and operation by Web browser.
- Icon display.
- Language codes available in English, French, German, Italian, Portuguese, Spanish.
- Individual control possible (max. 64 indoor units) ON/OFF operation mode, set temperature, fan speed, Flap set, timer on/off alarm code monitoring, prohibit Remote Control.
- Each Tenant (Zone) control.
- All Units control.
- Alarm Log.
- Mail Sent Log.
- Program Timer set 50 daily timers with 50 actions each day, 50 weekly timers 50 weekly timers, 1 holiday timer, 5 special day timers, for each tenant.
- Prohibit Remote Control set.
- IP ADDRESS could be changed via Internet.

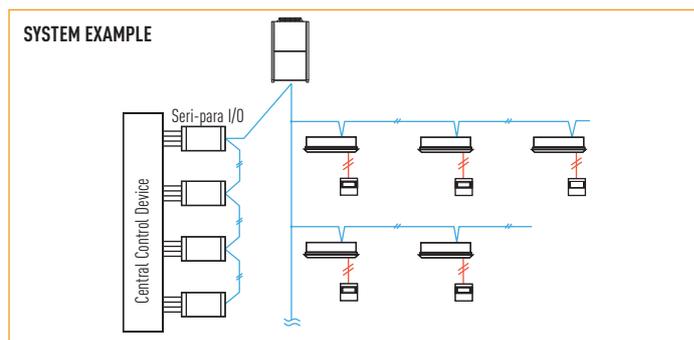
Note: it is recommended to install a remote controller or a system controller on site to enable local control if IT network experience a problem.

## Seri-Para I /O unit for outdoor unit (CZ-CAPDC2 for ECOi, CZ-CAPDC3 for Mini ECOi and PACi)



|               |   |
|---------------|---|
| Dimensions    | H 80 x W 290 x D 260 mm   |
| Power supply  | Single phase 100/200 V (50/60 Hz), 18 W   |
| Input         | Batch operation/Batch stop (non-voltage contact/DC 24 V, pulse signal). Cool / Heat (non-voltage contact/static signal). Demand 1/2 (non-voltage contact/static signal) (Local stop by switching) |
| Output        | Operation output (non-voltage contact). Alarm output (non-voltage contact)  |
| Wiring length | Indoor/Outdoor operation lines: Total length 1 km. Digital signal: 100 m or shorter   |

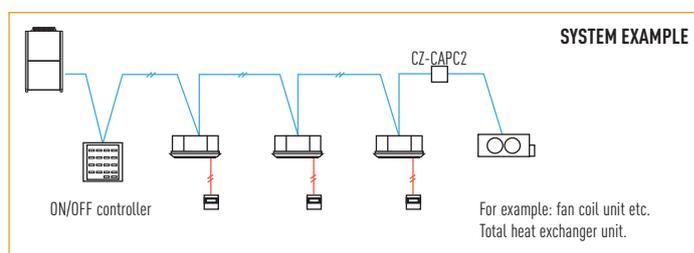
- This unit can control up to 4 outdoor units.
- From the centre control device, mode changing and batch operation/batch stop are possible.
- Required for demand control.



## Local adaptor for ON/OFF control (CZ-CAPC2)



- Control and status monitoring is possible for individual indoor unit (or any external electrical device up to 250 V AC, 10 A) by contact signal.

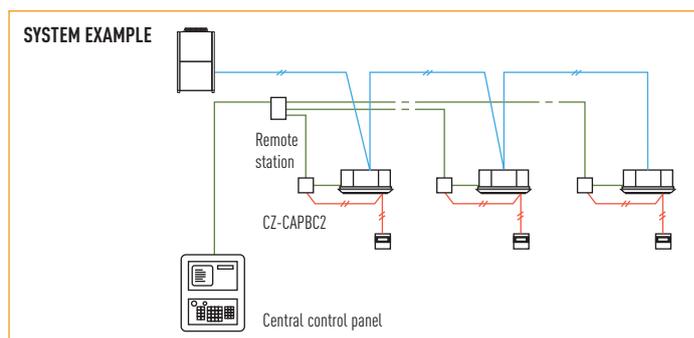


## CZ-CAPBC2 Parallel interface 0 - 10 V



- Control and status monitoring is possible for individual indoor unit (1 group).
- In addition to operation and stop, there is a digital input function for air speed and operation mode.
- Temperature setting and measuring of the indoor suction temperature can be performed from central monitoring.
- The analog input for temperature setting is 0 to 10 V, or 0 to 140 Ohm.

- Power is supplied from the CZ-T10 terminal of the indoor units.
- Separate power supply also is possible (in case of suction temperature measuring).



## LonWorks Interface CZ-CLNC2

### Functions

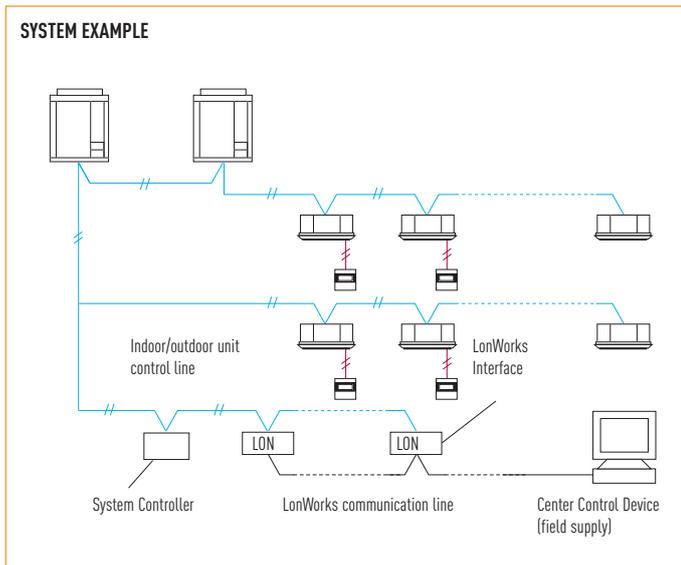
- This interface is a communications converter for connecting LonWorks to the control network of ECOi
- From the host connected to LonWorks, basic settings and status monitoring is possible for up to 16 groups of A/C units



### Functions

|   |   |                                       |
|---|---|---------------------------------------|
| A/C unit settings from the LonWorks communicator                | Settings for each group of indoor units | Start/stop                            |
|   |   | Temp. setting                         |
|   |   | Operation mode                        |
|   |   | Option 1 settings*                    |
|   |   | Option 2 settings*                    |
|   | Settings for all units                  | Emergency stop                        |
| A/C unit status notifications made to the LonWorks communicator |   | Start/stop                            |
|   |   | Temp setting                          |
|   |   | Operation mode                        |
|   |   | Option 1 settings*                    |
|   |   | Option 2 settings*                    |
|   |   | Alarm status                          |
|   |   | Indoor units with active alarms       |
|   |   | Room temp.                            |
| Configuration properties  |   | Transmission intervals settings       |
|   |   | Minimum time secured for transmission |

\* Select two of the following: remote controller prohibit, fan speed setting, air direction setting, filter sign reset.



## Communication adaptor (CZ-CFUNC2)



Dimensions  
H 260 x W 200 x D 68 mm

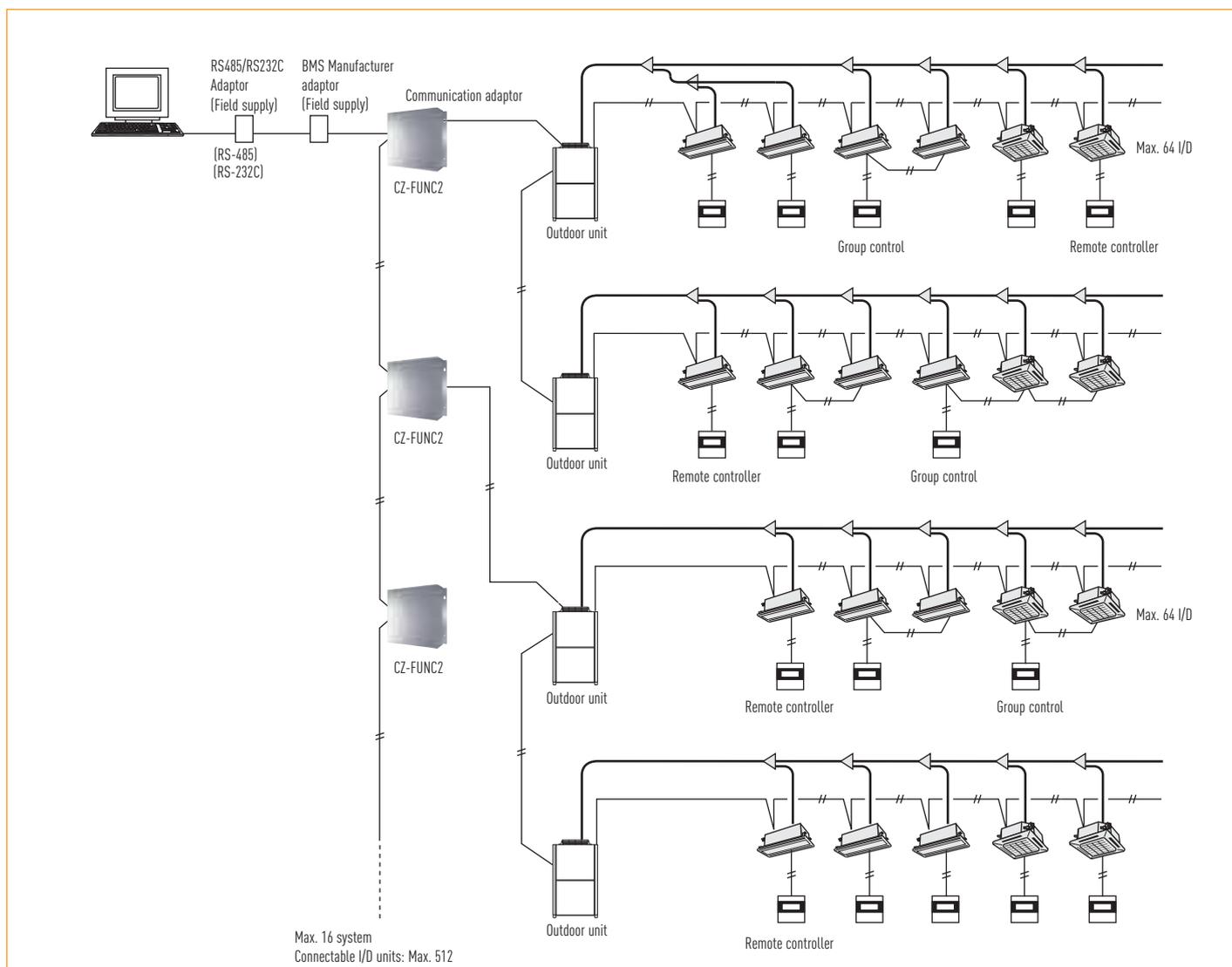
**Required to connect three or more linked wiring systems (indoor/outdoor operation lines) to the intelligent controller**

**Also required for connection of P-AIMS**

**Two linked wiring systems can be connected to one CZ-CFUNC2, but max. 4 systems can be connected for the entire intelligent controllers**

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

### 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        |                          |

## 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.

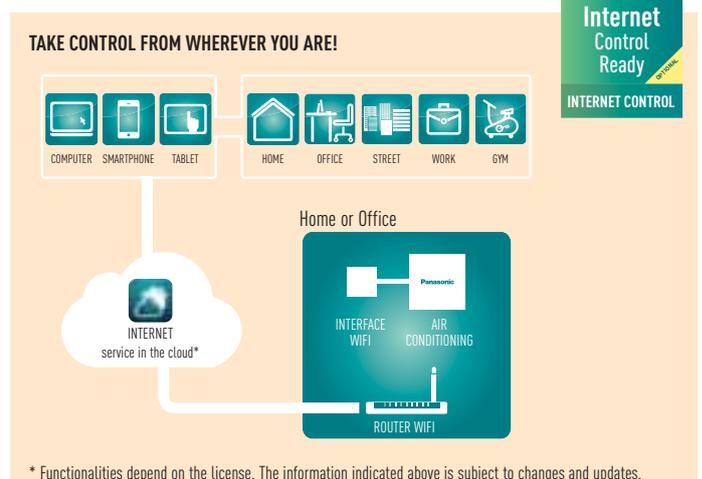
#### Control your air conditioning with the smart internet control device via smartphones, tablet, PC and smart desktop phone via internet

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."



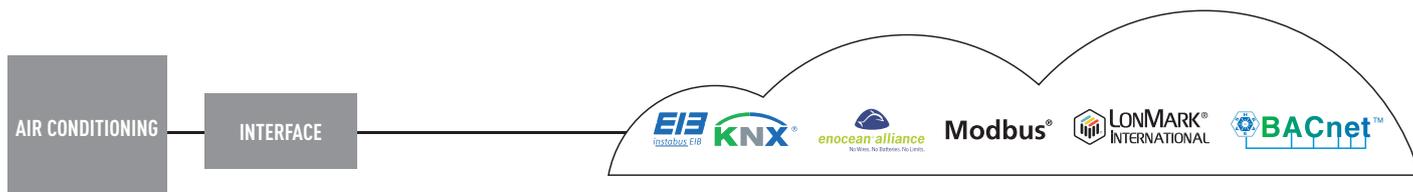
\* Functionalities depend on the license. The information indicated above is subject to changes and updates.

## 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.



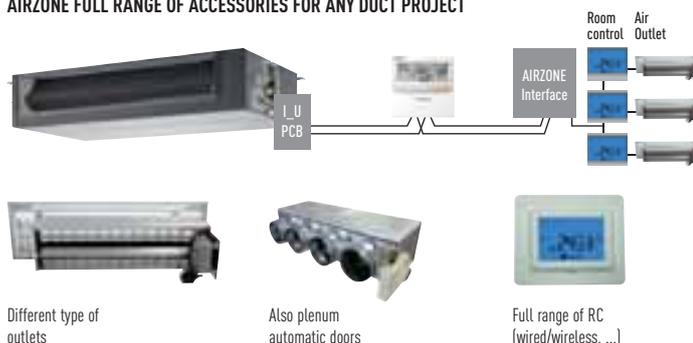
|                          | PANASONIC MODEL NAME | INTERFACE   | CONNECTED ON P-LINK OR IN THE INDOOR UNIT | MAX NUMBER OF INDOOR UNITS CONNECTED |
|--------------------------|----------------------|-------------|---|--------------------------------------|
| ECOi / PACi indoor units | PAW-RC2-KNX-1i       | 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

## 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



Different type of outlets

Also plenum automatic doors

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

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

## AIRZONE

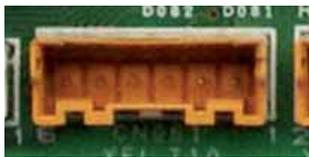


# PACi Connectivity indoor units

## 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   |
| CZ-CAPE2                                   | Option monitoring signals wo. fan   | Requires additional wires from spare part supply  |
| PAW-EXCT                                   | Forced Thermo OFF/Leakage D.        | Requires field supplied accessory   |
| NAME OF THE PCB                            | 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.



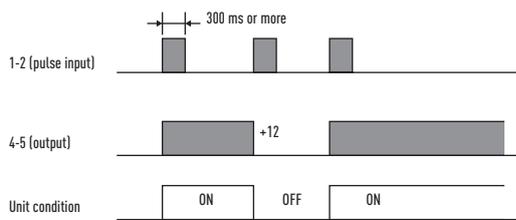
Connecting an ECOi indoor unit to an external device is easy. The T10 terminal featured in the electronic circuit board of all indoor units enables digital connection to external devices.

### EXAMPLE OF APPLICATIONS



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

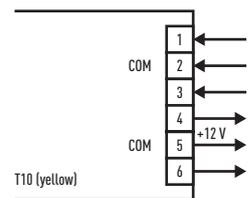
- Control items: 1. Start/stop input
- 2. Remote controller prohibit input
- 3. Start signal output
- 4. Alarm signal output



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.
  - 4-5 (Static output): 12 V output during the unit ON. / No output at OFF.
  - 5-6 (Static output): 12 V output when some errors occur / No output at normal.

### Example of wiring

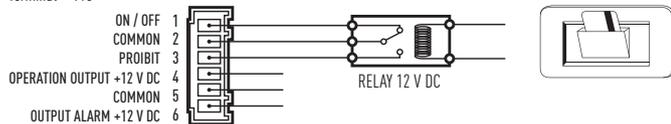


### Usage Example Forced OFF control

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).

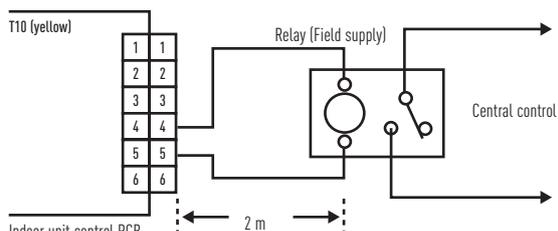
Term 2 & 3: Free contact to prohibit all function in the remote controller install in the room when the hotel card is it removed the contact must be closed (the unit can not work).

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)

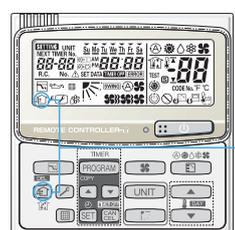
## Fan Drive Connector (CN017)

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).



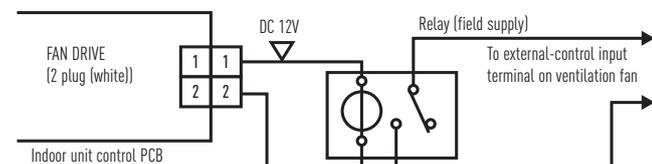
### Operating the ventilation fan from the remote controller

- 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



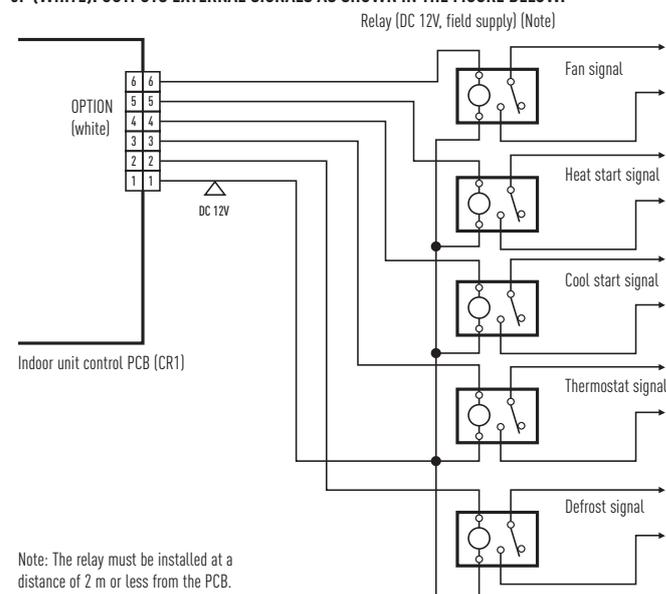
## Option Connector (CN060) Output external signals



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).

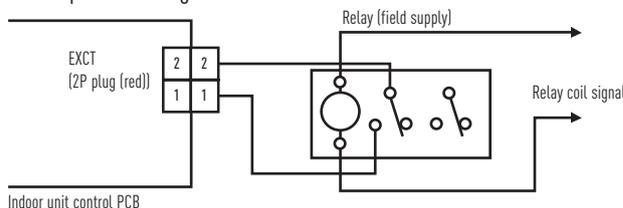
### A) With static input

#### → 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.

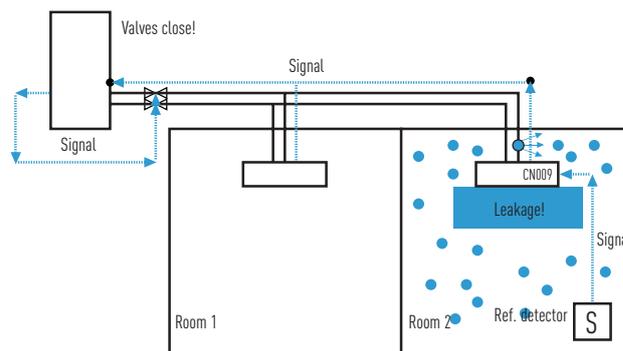
Note: The length of the wiring from the indoor unit control PCB to the relay must be 2m or less.  
\* Lead wire with 2P plug (special—order part: WIRE K/854 05280 75300)

### - 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

Possible  
to use on  
R22 pipings

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.

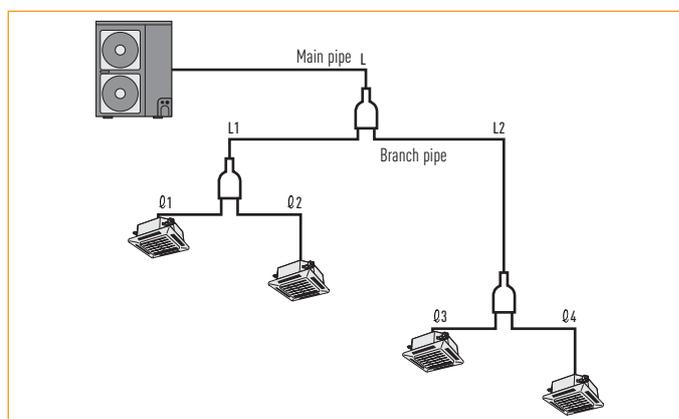
When reusing the existing piping as it is without removing dirt and dust, inadequate piping could result a renewal appliance in failure.

## 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.



| Notes on Renewal for Simultaneous Operation of Multiple Units |                      |          |
|---|----------------------|----------|
| 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.

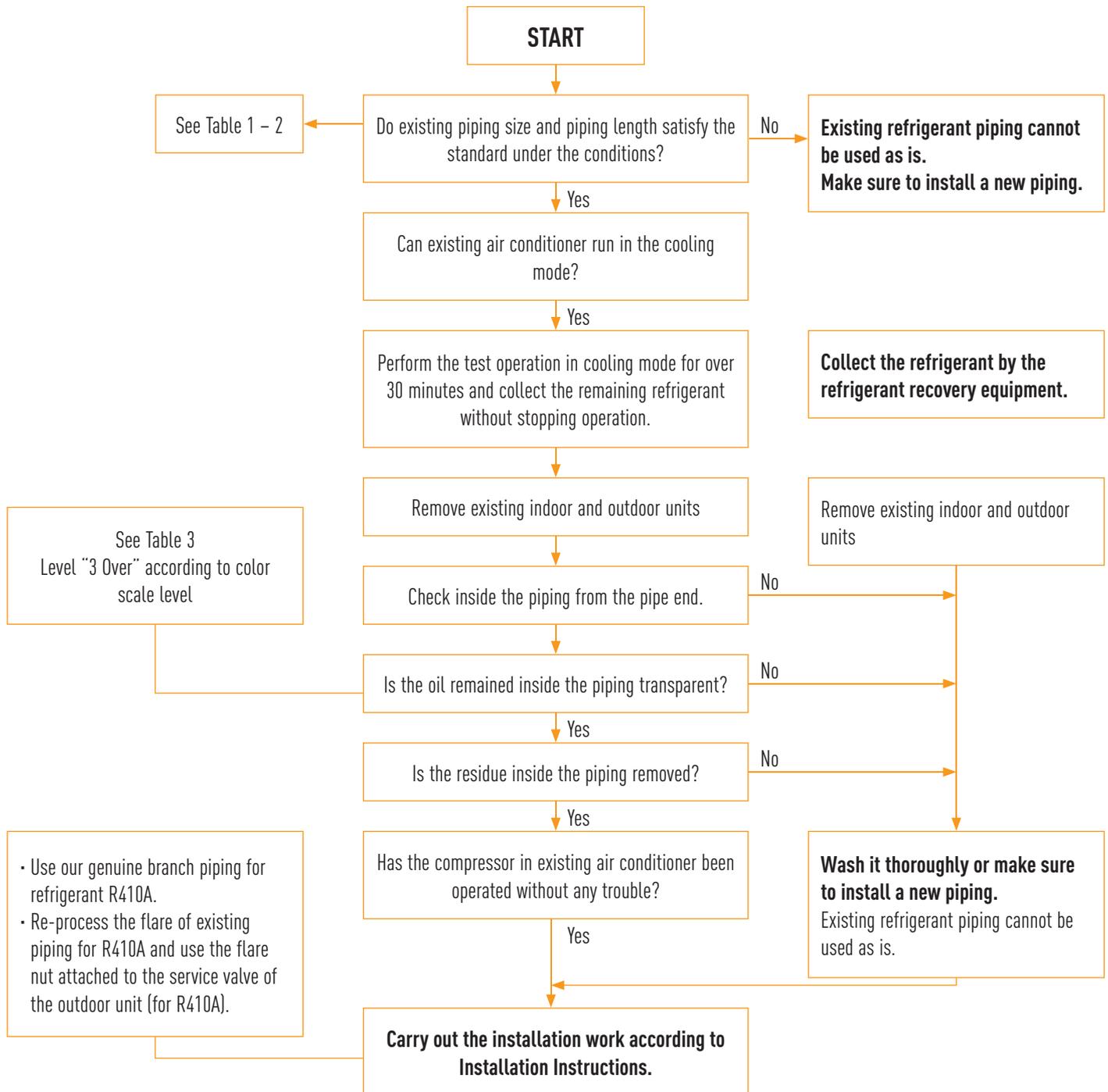
#### 2. In case of simultaneous operation of multiple units

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



| OPPOSITE SIDE DIMENSION OF FLARE NUT (mm) |       |       |       |        |        |
|---|-------|-------|-------|--------|--------|
| Piping size                               | Ø6.35 | Ø9.52 | Ø12.7 | Ø15.88 | Ø19.05 |
| For R410A                                 |       |       | 26    | 29     |        |
| For R22/R407C                             | 17    | 22    | 24    | 27     | 36     |

## 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 O. 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              |                            | Ø19.05              |                     | Ø15.88              | Ø19.05              |
| PE   | Type 50                          | ✗      | Standard<br>40 m<br>(30 m) | ⊙<br>40 m<br>(30 m) | □<br>20 m<br>(15 m) | □<br>20 m<br>(15 m)        | ✗                   | ✗                   | ✗                   | ✗                   |
| PEY  | Type 60<br>Type 71               | ✗      | ▽<br>10 m<br>(10 m)        | □<br>10 m<br>(10 m) | ▽<br>30 m<br>(20 m) | Standard<br>50 m<br>(20 m) | ✗                   | □<br>25 m<br>(10 m) | ✗                   | ✗                   |
| Additional refrigerant charging amount per 1 m |                                  | 20 g/m |                            |                     | 40 g/m              |                            |                     | 80 g/m              |                     |                     |
| PE   | Type 60<br>Type 71               | ✗      | ▽<br>10 m<br>(10 m)        | □<br>10 m<br>(10 m) | ▽<br>30 m<br>(30 m) | Standard<br>50 m<br>(30 m) | ✗                   | □<br>25 m<br>(15 m) | ✗                   | ✗                   |
|  | Type 100<br>Type 125<br>Type 140 | ✗      | ✗                          | ✗                   | ✗                   | Standard<br>75 m<br>(30 m) | ⊙<br>75 m<br>(30 m) | □<br>35 m<br>(15 m) | □<br>35 m<br>(15 m) | □<br>35 m<br>(15 m) |
| PEY  | Type 100<br>Type 125<br>Type 140 | ✗      | ✗                          | ✗                   | ✗                   | Standard<br>50 m<br>(30 m) | ⊙<br>50 m<br>(30 m) | □<br>25 m<br>(15 m) | □<br>25 m<br>(15 m) | □<br>25 m<br>(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 | ▽<br>80 m<br>(30 m) | Standard<br>100 m<br>(30 m) | ⊙<br>100 m<br>(30 m) | ▽<br>50 m<br>(15 m) | □<br>50 m<br>(15 m)         | □<br>50 m<br>(15 m)  | ✗                   | ✗                   | ✗                   |
|  | Type 250 | ✗                   | ✗                           | ✗                    | ▽<br>80 m<br>(30 m) | Standard<br>100 m<br>(30 m) | ⊙<br>100 m<br>(30 m) | ▽<br>65 m<br>(20 m) | □<br>65 m<br>(20 m) | □<br>65 m<br>(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**



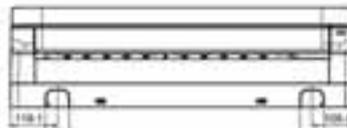
# PACi Standard and Elite dimensions

## Wall Mounted PKEA

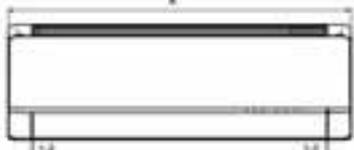
TOP VIEW



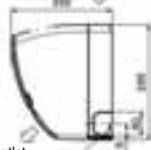
BOTTOM VIEW



FRONT VIEW



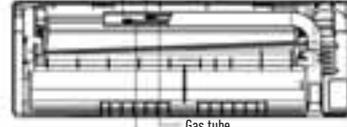
SIDE VIEW



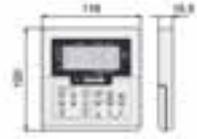
Air intake direction

Air outlet direction  
Left piping hole

REAR VIEW



Gas tube  
Liquid tube



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

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



CS-E9PKEA CS-E12PKEA CS-E15PKEA



CS-E18PKEA

Space necessary for installation

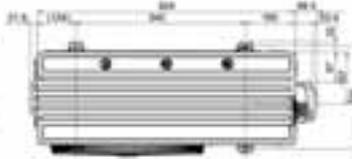


Anchor Bolt Pitch  
330 x 540

SIDE VIEW



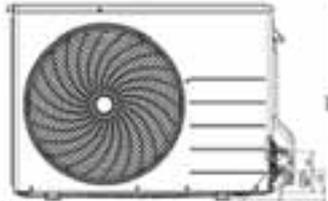
TOP VIEW



SIDE VIEW



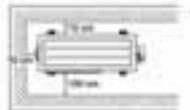
FRONT VIEW



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

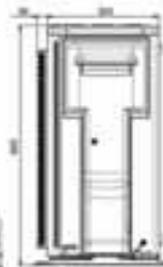
SIDE VIEW



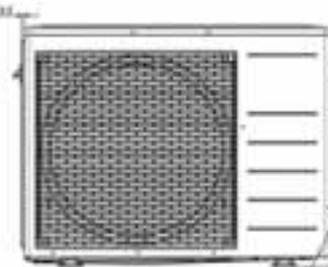
TOP VIEW



SIDE VIEW



FRONT VIEW

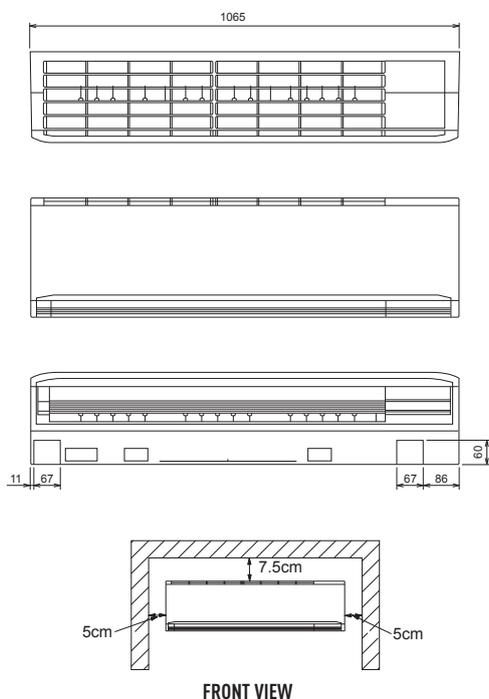


2-way valve at liquid side  
(High Pressure)

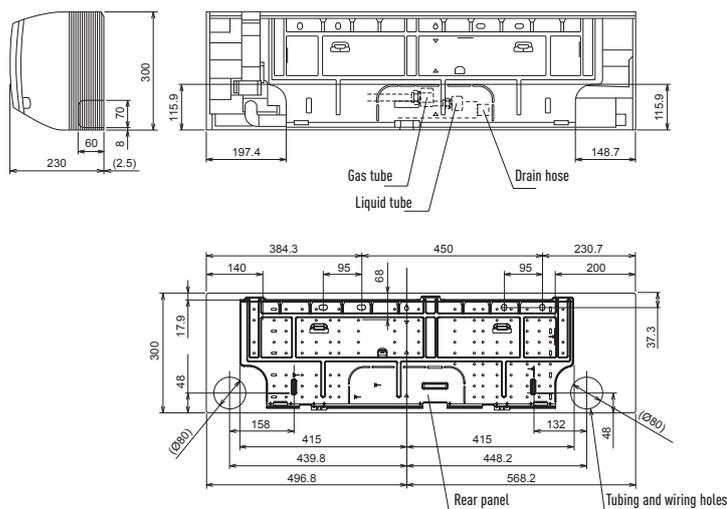
3-way valve at gas side (Low Pressure)

Unit: mm

### Wall

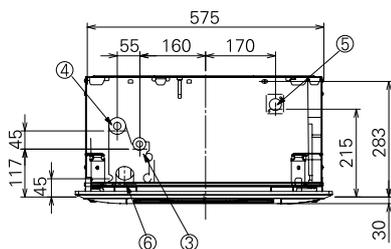
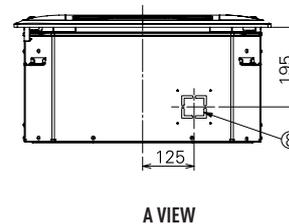
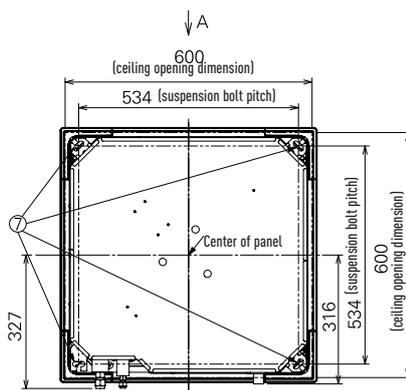
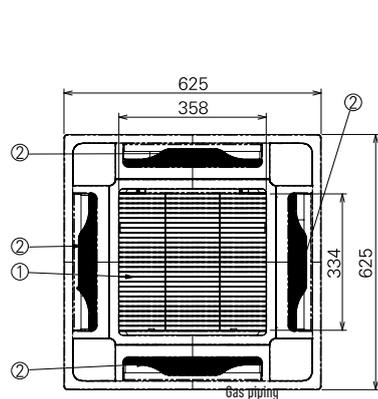


| Type                             | 36-50          | 60-71           |
|----------------------------------|----------------|-----------------|
| Refrigerant tubing (liquid tube) | Ø6.35 (flared) | Ø9.52 (flared)  |
| Refrigerant tubing (gas tube)    | Ø12.7 (flared) | Ø15.88 (flared) |
| Drain hose 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)

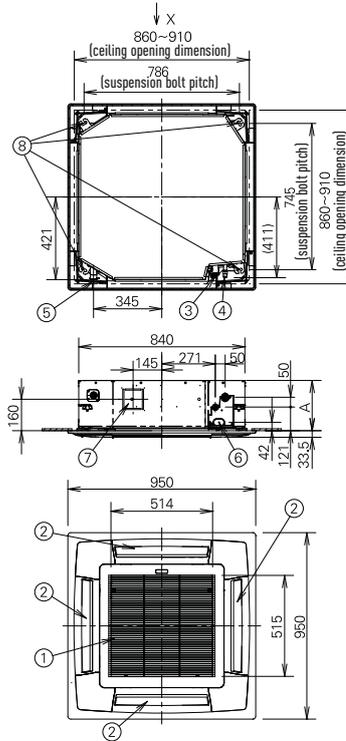
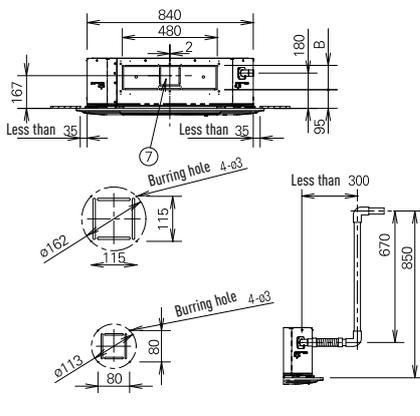
Unit: mm

# PACi Standard and Elite dimensions

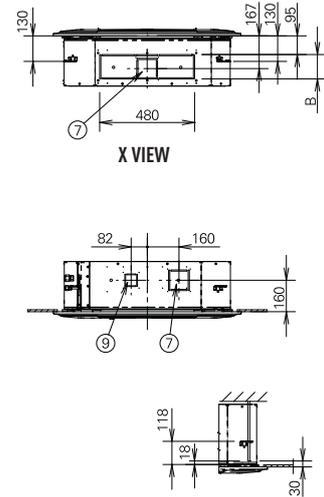
## 4 Way 90x90 Cassette

| 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 <sup>1</sup> |                 |

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.

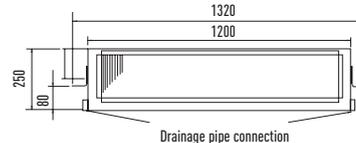
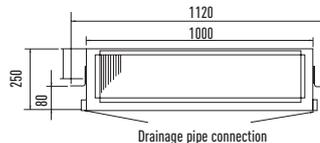
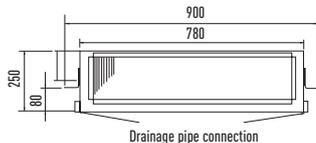
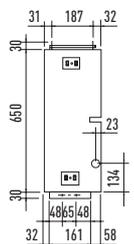
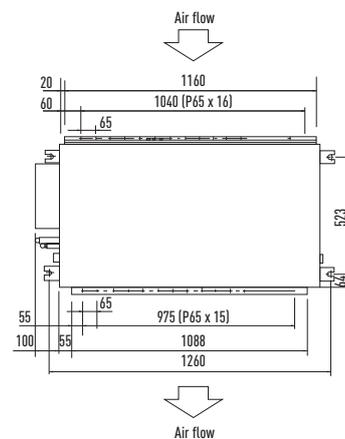
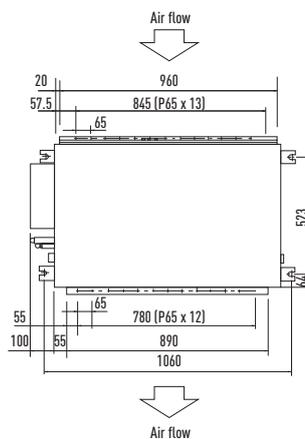
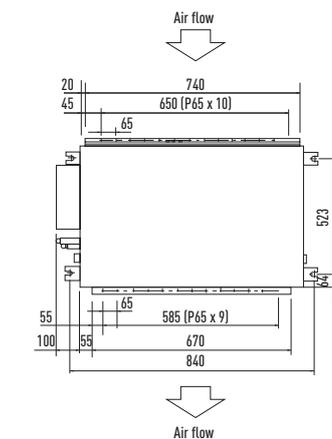
Unit: mm

## Low Static Pressure Hide Away

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

S-60PN1E5 // S-71PN1E5

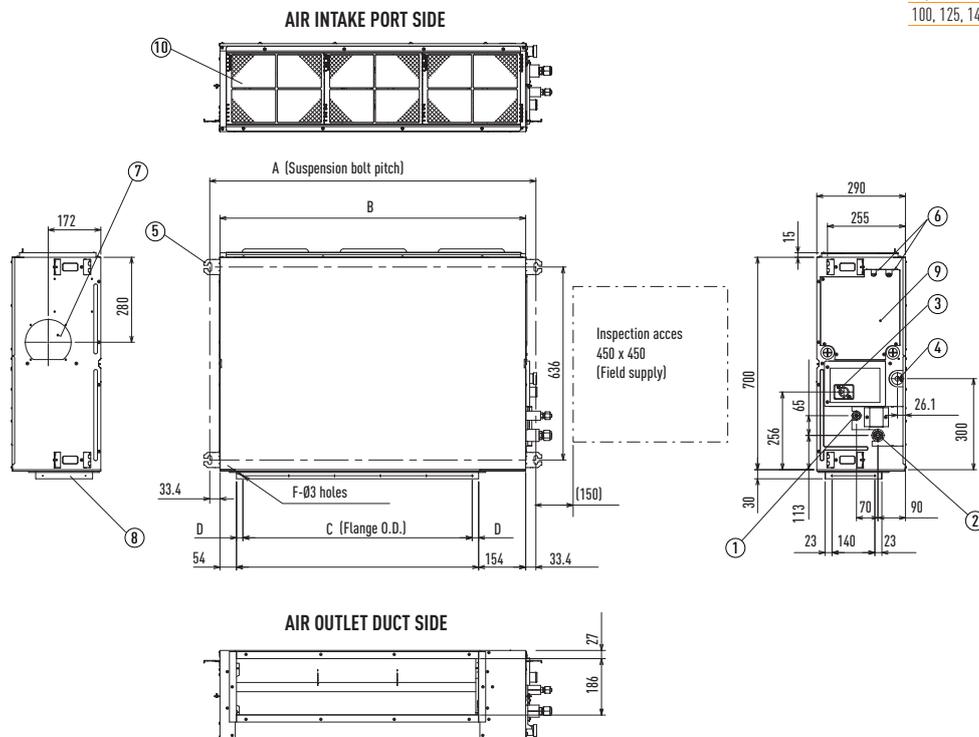
S-100PN1E5 // S-125PN1E5 // S-140PN1E5



Unit: mm

## High Static Pressure Hide Away

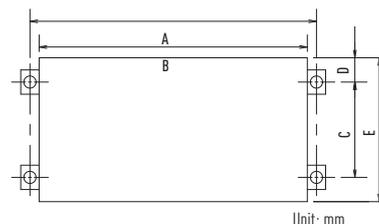
| Type          | A     | B     | C                     | D  | E     | F  |
|---------------|-------|-------|-----------------------|----|-------|----|
| 36, 45, 50    | 867   | 800   | 450 (Pitch 150 × 3)   | 71 | 592   | 12 |
| 60, 71        | 1,067 | 1,000 | 750 (Pitch 150 × 5)   | 21 | 792   | 16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



- 1 Refrigerant tubing joint (liquid tube)
- 2 Refrigerant tubing joint (gas tube)
- 3 Upper drain port VP25 (O.D. 32 mm)  
2 200 flexible hose supplied
- 4 Bottom drain port VP25 (O.D. 32 mm)
- 5 Suspension lug (4 - 12 × 30 mm)
- 6 Power supply outlet
- 7 Fresh air intake port (Ø150 mm)
- 8 Flange for flexible air outlet duct
- 9 Electrical component box
- 10 Filter

### 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 |



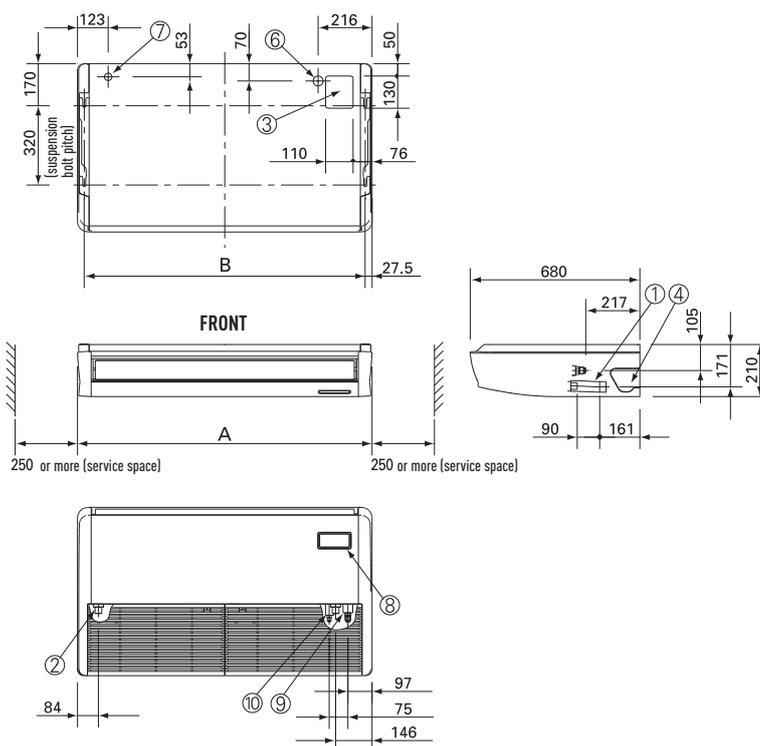
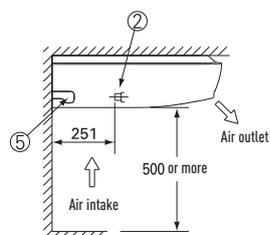
Unit: mm

## 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

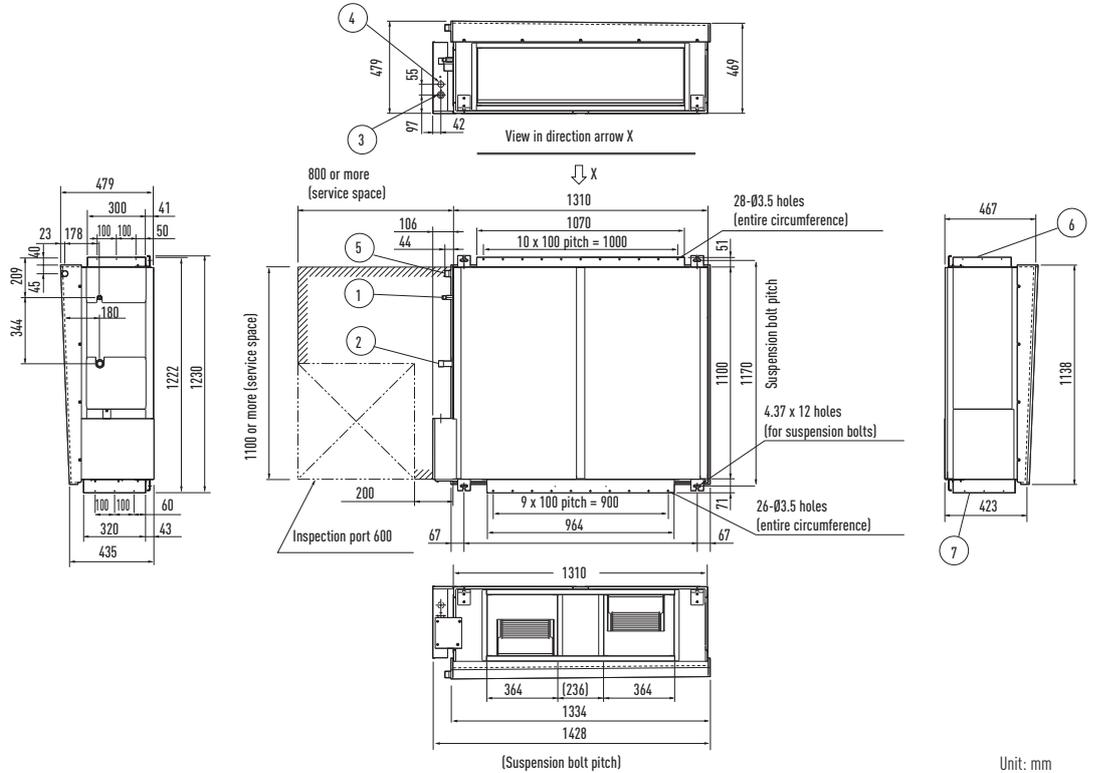


Unit: mm

## PACi Standard and Elite dimensions

### High Static Pressure Hide Away 20.0-25.0 kW

- 1 Refrigerant piping (liquid pipes)  
20.0 kW type: Ø9.52, 25.0 kW type: Ø12.7
- 2 Refrigerant piping (gas pipes) Ø25.4
- 3 Power supply outlet  
(Ø25 grommet, rubber)
- 4 Power supply outlet (spare) (Ø30 knock-out)
- 5 Drain port 25 A, male thread
- 6 Duct connection for suction
- 7 Duct connection for discharge



Unit: mm

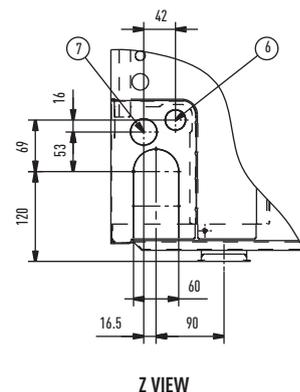
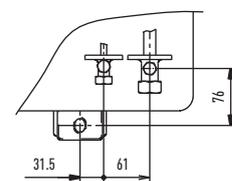
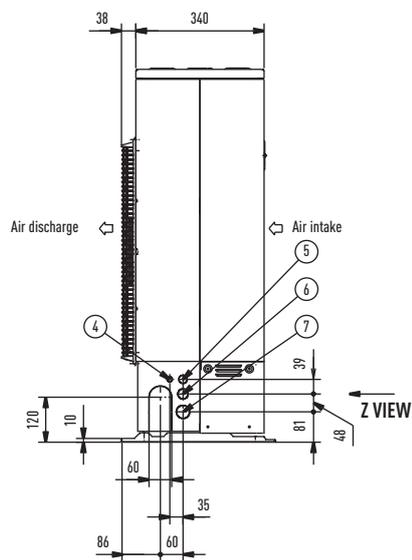
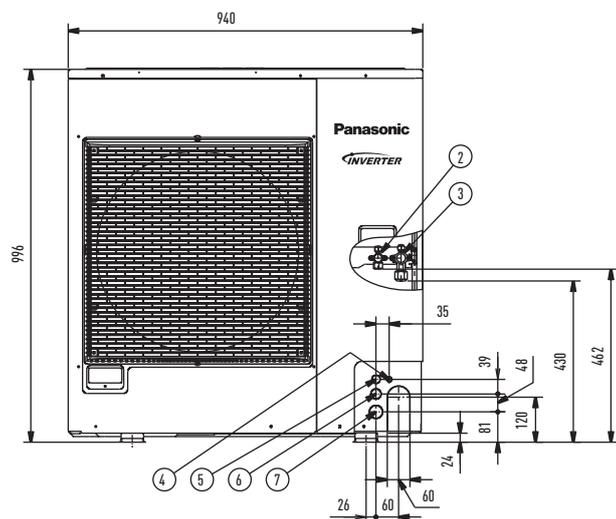
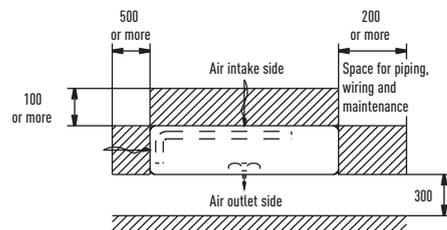
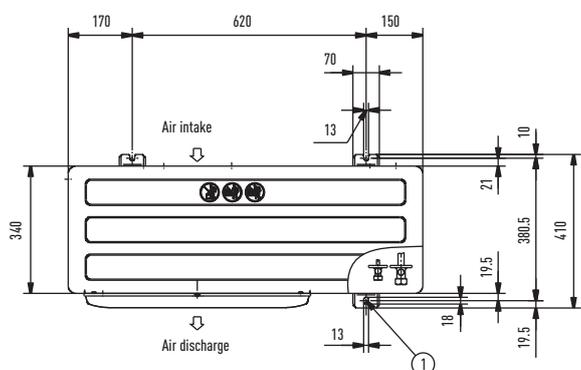
### Outdoor Unit PACi Standard 6.0 And 7.1 kw And PACi Elite 5.0 kw

WAITING FOR DATA

Unit: mm

### Outdoor unit PACi Standard from 10.0 to 14.0 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)

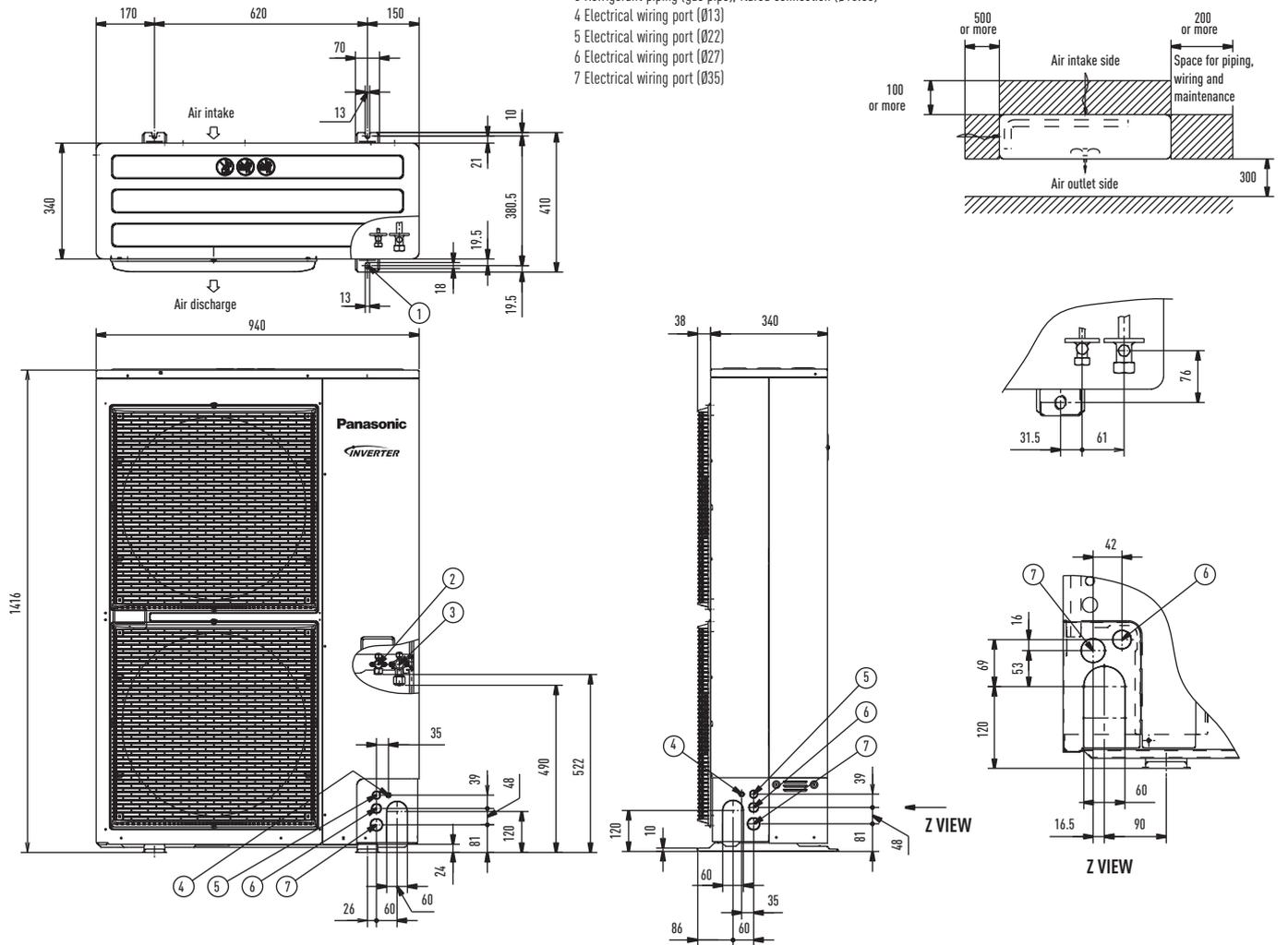


Unit: mm

# PACi Standard and Elite dimensions

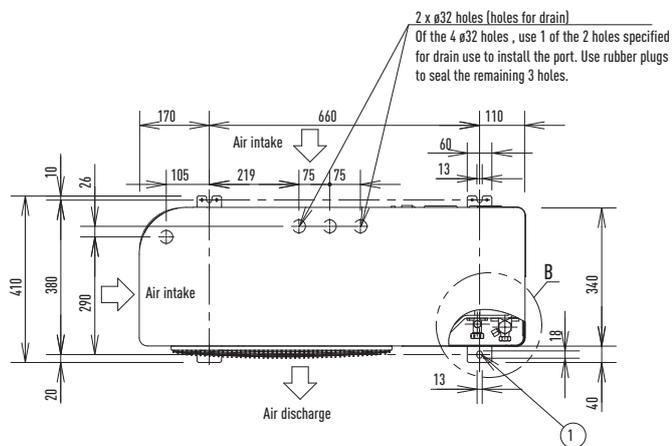
## Outdoor unit PACi Elite from 10.0 to 14.0 kw

- 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)

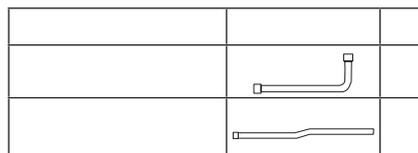


Unit: mm

### Outdoor unit PACi Elite 20.0 and 25.0 kw

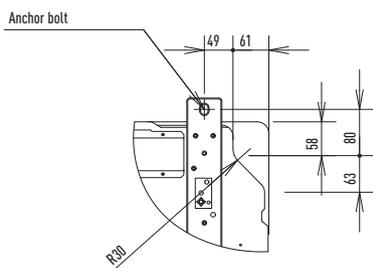
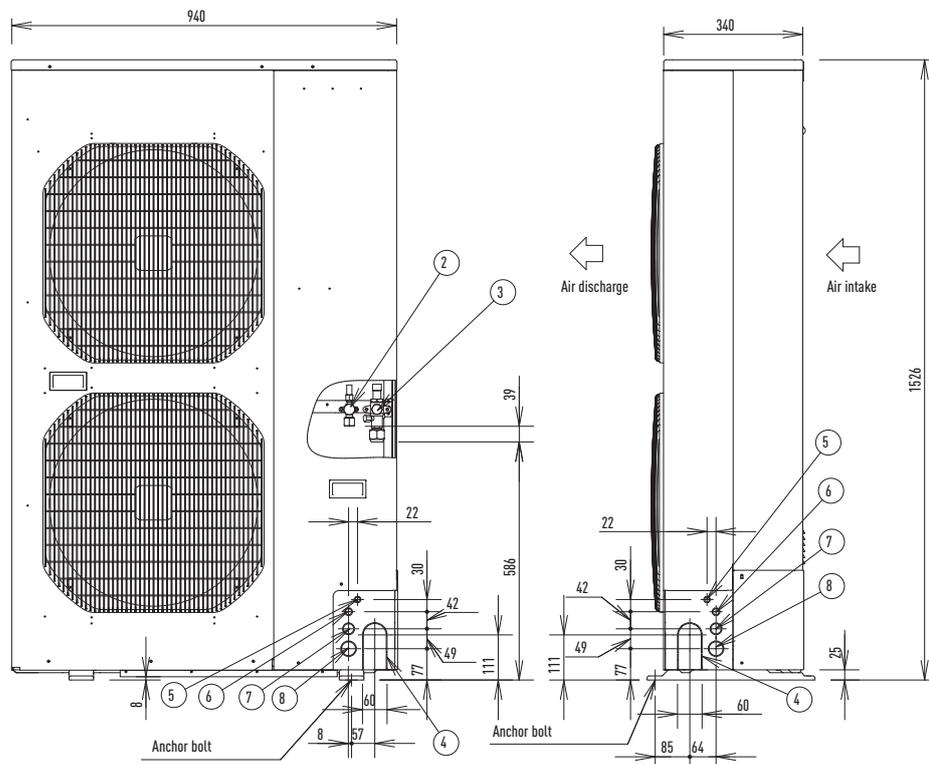


- 1 Mounting hole (4-R6.5), anchor bolt : M10
- 2 Refrigerant tubing (liquid tube), flared connection ( $\phi 12.7$ )
- 3 Refrigerant tubing (gas tube), flared connection ( $\phi 19.05$ )
- 4 Refrigerant tubing port
- 5 Electrical wiring port ( $\phi 16$ )
- 6 Electrical wiring port ( $\phi 19$ )
- 7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



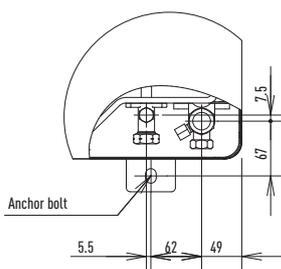
**Remark:**

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 ( $\phi 25.4$ ).



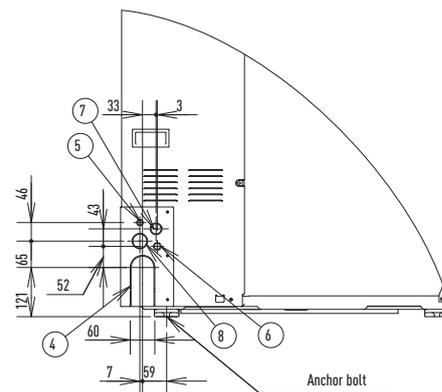
**VIEW A**

Bottom removable connection port



**VIEW B**

Refrigerant tubing connection port



Unit: mm

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