

NEW PRODUCTS  
SPLIT SYSTEMS  
2016 / 2017



DOMESTIC AIR TO AIR HEAT PUMP



COMMERCIAL AIR TO AIR



# Panasonic No. 1

## Interbrand Ranks Panasonic No. 1 in the Electronics Sector for “Best Global Green Brands 2014”

Interbrand, the US brand consulting company, announced on June 24, 2014, that Panasonic ranks No. 5 in its Best Global Green Brands 2014.

2014 marks the fourth year for this global ranking of “green brands.” An Excellent Green Brand is defined as achieving a good balance between Green Perception (consumers’ image of an eco-brand) and Green Performance (a company’s environmental management practices). The top 50 companies are ranked based on these two elements.

### Exemplary sustainable project: Panasonic joins Smart Electric Lyon consortium

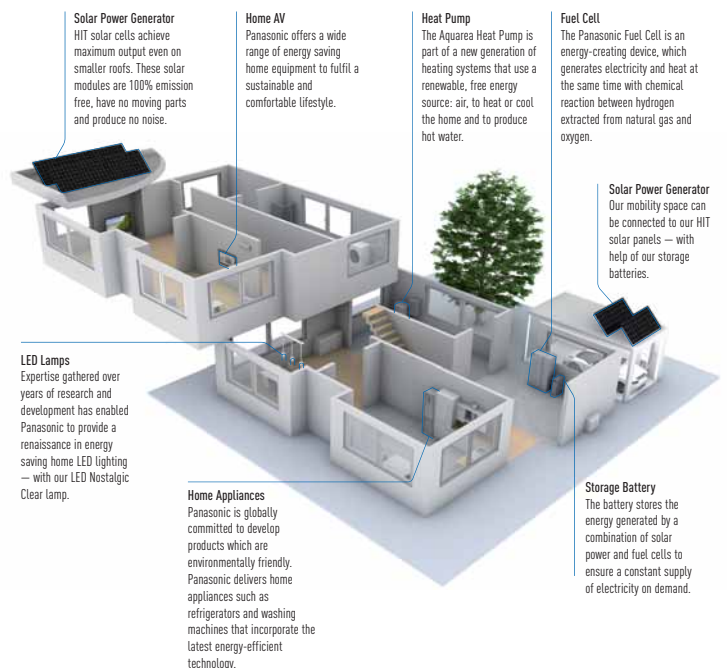
Smart Electric Lyon is a project that looks at electricity consumption as a key part of the building energy solutions of tomorrow. It is intended to test innovative solutions that will consume less and better.

### Fujisawa Sustainable Smart Town

As part of this project, the buildings will employ the full range of Panasonic’s most advanced systems for energy production, storage and management.

## We aim to realise a lifestyle with virtually zero CO<sub>2</sub> emissions

By creating, storing, managing and saving energy, Panasonic aims to realise a lifestyle with virtually zero CO<sub>2</sub> emissions throughout the entire home.





## New R32 Refrigerant Gas

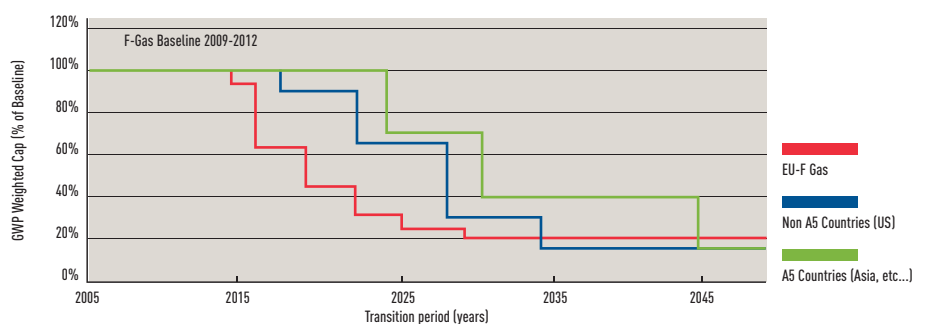
### The market-leading change

At Panasonic, we believe in technologies that improve people's lives. Which is why we are now presenting a new generation of air conditioners with R32, an innovative refrigerant in all ways imaginable: it is easy to install, environmentally friendly and saves energy. This results in greater wellbeing for people and for the planet.

### Today Panasonic. Tomorrow everyone.

European regulation CE 517/2014 makes the replacement of fluorinated gases (F-gases) compulsory, such as R410A, for environmental reasons.

Panasonic's commitment to innovation means leading the European R32 change, ahead of the 2017-2030 transition period for refrigerant changes, granted by the European regulation.



NEW ETHEREA'S  
CUTTING-EDGE,  
SLIM DESIGN



ETHEREA

## New Ethera 2016. Perfect outside, perfect inside

The new Ethera with Econavi intelligent sensor and new nanoe air-purifying system: outstanding efficiency (A+++), comfort (Super Quiet technology of only 19 dB(A)) combined with a breakthrough design.

### The new Ethera has an innovatively slim design

A breakthrough design that seamlessly combines with the most modern environments. We have selected the best materials and processes for a refined design. This allows us to offer the model in a variety of shades including metallic or matte silver and matte or gloss white

### Discover how to achieve energy savings with the new Ethera A+++

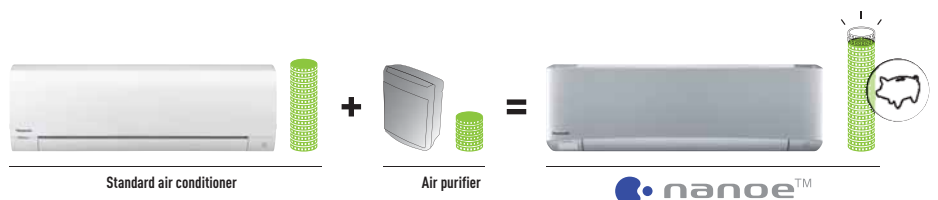
Econavi Sensor technology reduces waste by adjusting the operation of the air conditioner to suit the requirements of the room. With the touch of a button, energy can be efficiently saved, without interrupting cooling, comfort and convenience.

### Get the best for your health with Ethera and nanoe™

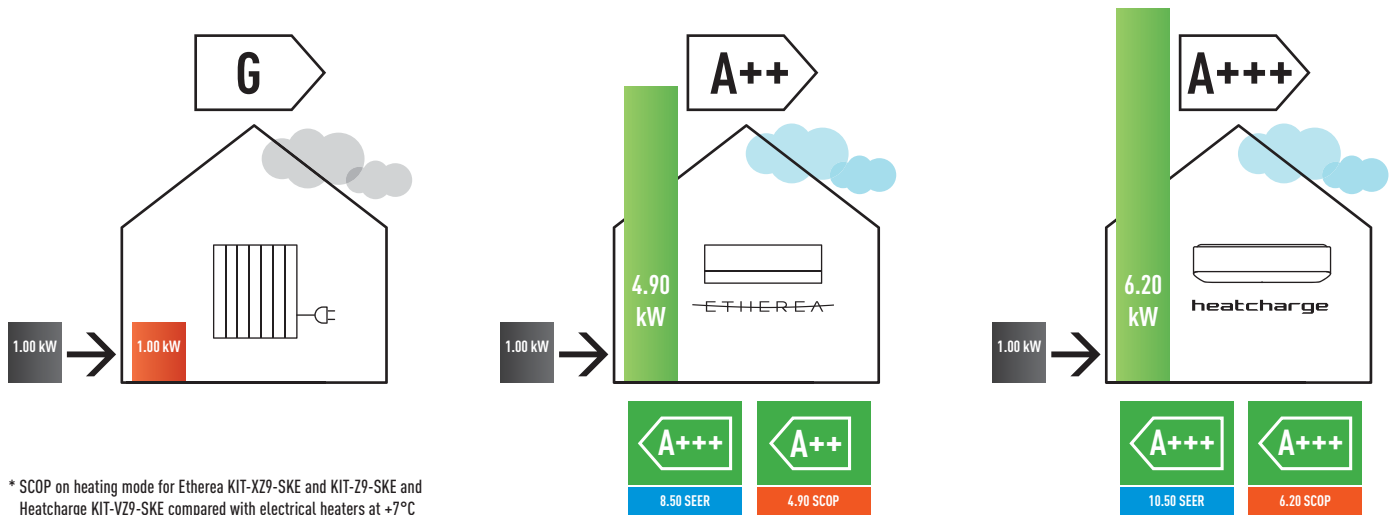
By using nano-technology, the nanoe is able to purify the room by using fine particles. This works effectively on airborne and adhesive micro-organisms such as bacteria, viruses and mould, thus ensuring a cleaner living environment.



The new Ethera has cutting-edge, slim design: only 19.4 cm







### New Etherea and Heatcharge performance: the very best SEER and SCOP available

Using original Panasonic Inverter technology and a high performance compressor provides top-class efficiency whilst lowering electricity bills and reduces environmental damage.



### Seasonal Efficiency: New Energy Efficiency Label

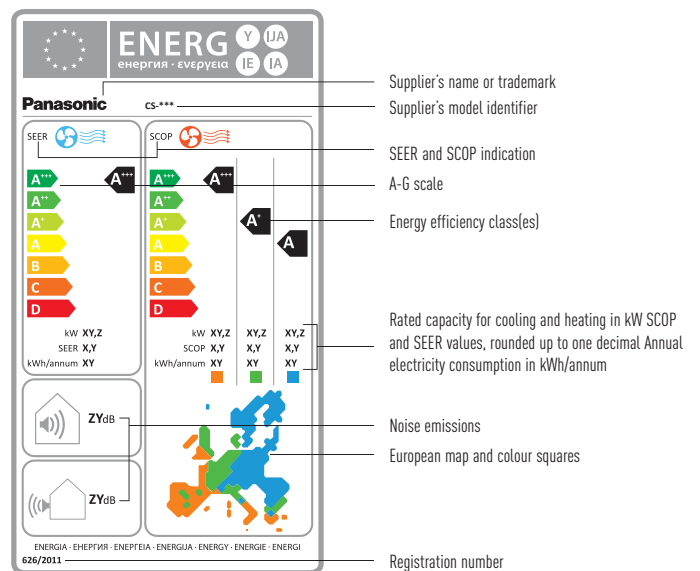
From January 2013, the energy performance calculation for air conditioning systems changed from an overall EU based standard of EER and COP, to a new standard based on seasonal efficiencies of SEER and SCOP. These changes to the Energy Related Products Directive (ErP) are designed to give consumers a better understanding of the real efficiency of air conditioning and heat pump systems with nominal power ratings below 12kW.

Undergoing gradual implementation from 1 January 2013 until 1 January 2019, the schedule for each product category is as follows:

- 01 January 2013: A+++ , A++ , A+ , A , B , C , D , E , F and G.
- 01 January 2015: A+++ , A++ , A+ , A , B , C , D , E and F.
- 01 January 2017: A+++ , A++ , A+ , A , B , C , D and E.
- 01 January 2019: A+++ , A++ , A+ , A , B , C and D.

**Seasonal Energy Efficiency Ratio (SEER)** – This is the overall energy efficiency ratio of the unit, representative of the entire cooling season. It is calculated as the annual cooling demand divided by the annual consumption of electricity for cooling.

**Seasonal Coefficient of Performance (SCOP)** - This is the overall coefficient of performance of the unit, representative of the entire heating season designated; the value of SCOP corresponds to a determined heating season. It is calculated by dividing the reference annual heating demand by the annual consumption of electricity for heating.



SEER

<b>A+++</b>	SEER ≥ 8.50
<b>A++</b>	6.10 ≤ SEER < 8.50
<b>A+</b>	5.60 ≤ SEER < 6.10
<b>A</b>	5.10 ≤ SEER < 5.60
<b>B</b>	4.60 ≤ SEER < 5.10
<b>C</b>	4.10 ≤ SEER < 4.60
<b>D</b>	3.60 ≤ SEER < 4.10
<b>E</b>	3.10 ≤ SEER < 3.60
<b>F</b>	2.60 ≤ SEER < 3.10
<b>G</b>	SEER < 2.60

SCOP

<b>A+++</b>	SCOP ≥ 5.10
<b>A++</b>	4.60 ≤ SCOP < 5.10
<b>A+</b>	4.00 ≤ SCOP < 4.60
<b>A</b>	3.40 ≤ SCOP < 4.00
<b>B</b>	3.10 ≤ SCOP < 3.40
<b>C</b>	2.80 ≤ SCOP < 3.10
<b>D</b>	2.50 ≤ SCOP < 2.80
<b>E</b>	2.20 ≤ SCOP < 2.50
<b>F</b>	1.90 ≤ SCOP < 2.20
<b>G</b>	SCOP < 1.90

**Water**  
OH Radical  
Electron

**nanoe™ is nano-sized electrostatic atomised water particles with plentiful OH radicals.**

**Its effectiveness of bacteria inhibition depends on the number of OH radicals, which is generated at the rate of 480 billion per second.**

**Airborne**  
Inhibit 99.9% bacteria and viruses in the air.

**nanoe™ attack micro-organisms.**

**nanoe™ fine particles released from the generator.**

**Adhesive**  
Inhibit 99.9% bacteria, viruses, pollen and mould in fabric elements. Also, deodorise odour inside.

**nanoe™**

# Improved air quality through nano-sized electrostatic atomised water particles

**Recent experiments have proven the benefits of nano™ electrostatic atomised water particles.**

A main benefit can be seen through the reduction of inhabitation such as viruses, bacteria, mould and allergens, as well as providing extra moisture to the skin.

## Characteristics of nano™ Technology

### 1. Long Life

6 x times longer lifespan than general negative ions. nano™ contains moisture around 1,000 times more than general negative ions, as they are a component of water particles and have a longer life span, as well as being able to spread for longer distances.

#### Comparison of distribution in the room



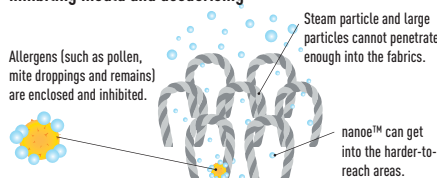
nanoe™ spreads to every corner.

General negative ion ions decay before spreading throughout the room.

### 2. Water-originated

nanoe™ comes from condensed moisture in the air so that water replenishment for nano™ generation is not required.

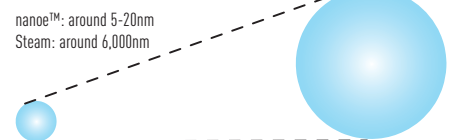
**nanoe™ is able to reach deep enough into clothes for inhibiting mould and deodorising**



### 3. Microscopic Scale

Only one-billionth the size of a steam particle, nano™ is much smaller than steam, allowing it greater reach into fabrics.

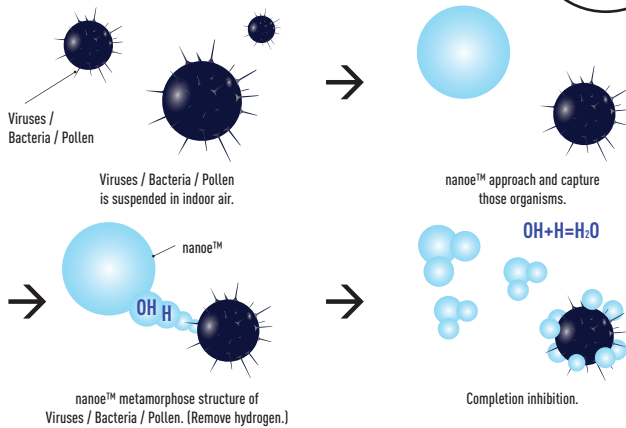
\* 1nm (nanometer) = one billionth of meter



## How does nanoe™ technology help you?

### 1. Viruses / Bacteria / Pollen inhibition

Inhibits Viruses



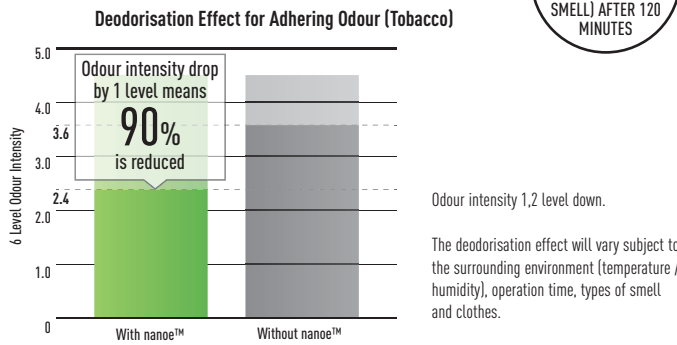
INFLUENZA VIRUS  
**99,9%**  
INHIBITED

### \*The effectiveness of nanoe™

Tested contents		Result (deactivate)	Testing condition		Tested laboratory / company	Report doc No.
			Size	Time		
Airborne	Virus (Coliphage)	99.7%	10m <sup>2</sup>	6h	Kitasato research center for Environmental science	KRCES 24_0300_1
	Bacteria (Staphylococcus aureus)	99.7%	10m <sup>2</sup>	4h	Kitasato research center for Environmental science	KRCES 24_0301_1
Adhesive	Virus (Coliphage)	99.8%	10m <sup>2</sup>	8h	Japan food research laboratories	13001265005-01
	Virus (Influenza)	99.9%	1m <sup>2</sup>	2h	Kitasato research center for Environmental science	KRCES 21_0084_1
	Bacteria (Staphylococcus aureus)	99.1%	10m <sup>2</sup>	8h	Japan food research laboratories	13044083003-01
	Tobacco odour	Deodorized in 2h	10m <sup>2</sup>	2h	Panasonic analysis center	BAA33-130125-D01
	Cedar pollen	99%	45L	2h	Panasonic analysis center	E02-080303IN-03

### 2. Deodorisation

Odours lingering within the curtain and sofa fabrics are deodorised.



REDUCES  
**90%**  
ODOUR (TOBACCO SMELL) AFTER 120 MINUTES

• Test Laboratory: Panasonic Corporation Analysis Center. • Test Methodology: Verifying with 6-level odour intensity indication in 10m<sup>2</sup> test room. • Deodorization Method: nanoe™ emit. • Test Subject: Adhering Tobacco Smell. • Test Result: 1.2 level of odour intensity is decreased after 120 minutes. • Report No.: BAA33-130125-D01.

### 3. Moisturising Skin

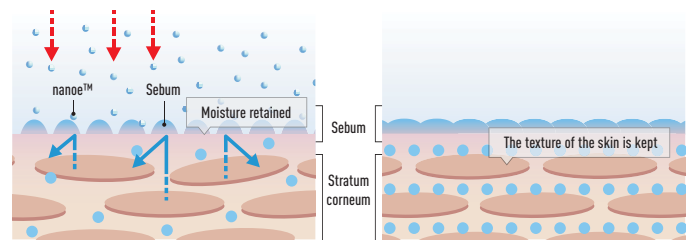
Helps retain the moisture of the skin.

With nanoe™

nanoe™ helps prevent the loss of skin moisture.

After 28 days

The texture of the skin remains hydrated.



Test Laboratory: FCG Research Institute Inc. Report no. 19104

### Reliable technology chosen by the world

The cutting edge technology of Panasonic's nanoe™ purifying technology has been chosen by Lexus to equip its vehicles for clean indoor air.



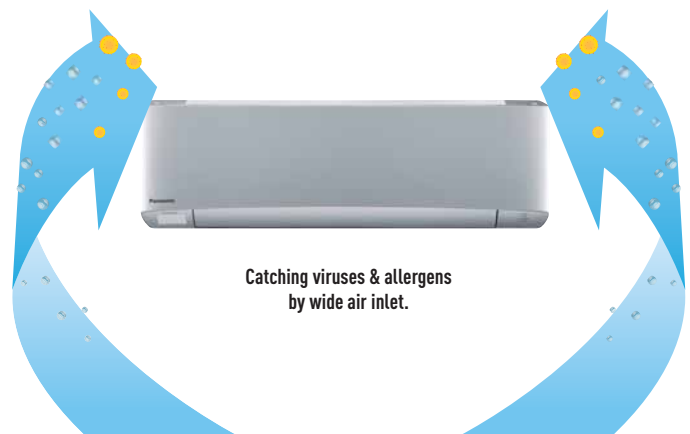
### New PM2.5 Filter



Panasonic's new PM2.5 purifying filter is able to filter out viruses and allergens, going as precise as micro-sized organism. The result is clean and clear indoor air.

### What is PM2.5 and its effects

PM2.5 is an air pollutant that can drastically affect people's health. The size of the suspended particulate is thirty times smaller than the width of human hair, essentially making it difficult to see with the naked eye. It causes dangerous breathing problems such as acute bronchitis and lung cancer in older people and young children.





## Econavi Intelligent Sensors

### The key to achieving impressive energy savings

The air conditioner's ability to run at pre-set constant temperature settings allows for an independent functioning cycle of the system.

### Econavi detects and effectively reduces energy waste

Using high-tech sensors and precise control programs, the system analyses room conditions and adjusts cooling power accordingly.

Econavi is smart enough to locate and operate in all the right places to generate important energy savings.

### So much saved with so little effort

#### Up to 38%\* energy savings for Inverter cooling model with temperature wave

##### Econavi ON, Outside temperature: 35°C/24°C

Remote setting temperature: 23°C with Fan Speed (High)  
 Vertical Airflow direction: Auto, Horizontal Airflow direction: Econavi Mode  
 Setting temperature goes up 2°C in total, 1°C controlled by Econavi activity level detection and another 1°C controlled by Econavi light intensity detection.  
 Temperature Wave is ON, electric heater (300W; simulating the heat of human and TV etc)

##### Econavi OFF, Outside temperature: 35°C/24°C

Remote setting temperature: 23°C with Fan Speed (High)  
 Vertical Airflow direction: Auto, Horizontal Airflow direction: Front

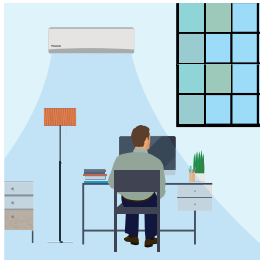
Total power consumption amounts are measured for 2 hours in stable conditions. At Panasonic Amenity Room (size:16.6m<sup>2</sup>). This is the maximum energy savings value, and the effect differs according to conditions in installation and usage.

\* Comparison of 1.5HP Inverter model between Econavi with (Dual Human Activity Sensor, Sunlight Sensor, and Temperature Wave) ON and Econavi OFF (Cooling)



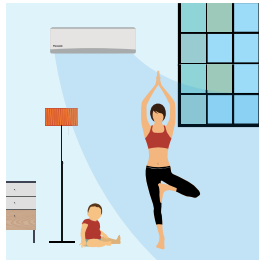
## 5 features saving energy all at once: Econavi with intelligent eco sensors

Intelligent Sensors detect potential energy waste using the Human Activity Sensor and Sunlight Sensor. This technology is able to monitor human location, movements, absence and sunlight intensity. It then automatically adjusts cooling power to save energy efficiently with uninterrupted heating and cooling comfort and convenience.



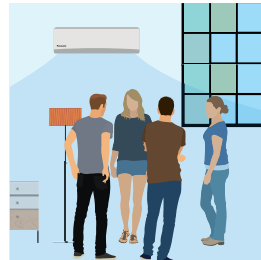
### Temperature Wave

Rhythmic temperature-controlled pattern to save energy without sacrificing comfort.



### Area Search

Directs airflow to wherever you are in the room. Econavi detects changes in human movements and reduces the waste of cooling the unoccupied area of the room.



### Activity Detection

Adapts cooling power to your daily activities. Econavi detects changes in activity levels and reduces the waste of cooling with unnecessary power.



### Absence Detection

Reduces cooling power in the absence of human activity. Econavi detects human absence in the room and reduces the waste of cooling an empty room.



### Sunlight Detection

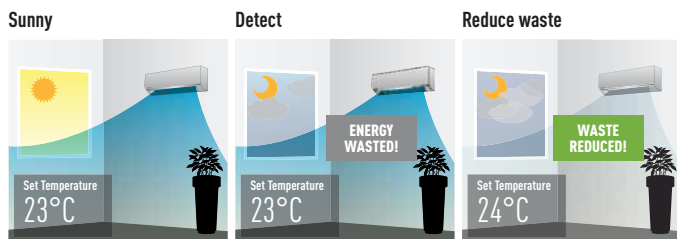
Adjusts cooling power to changes in sunlight intensity.

## Econavi sunlight sensor

### Sunlight Detection (on Cooling Mode)

Econavi detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night. It reduces waste energy by reducing cooling under less sunny conditions.

When weather changes from sunny to cloudy/night, Econavi detects less sunlight intensity and determines whether less cooling power is required. Energy waste occurs when the cooling power is not adjusted, therefore the Econavi's main focus is to detect such waste and appropriately reduce the cooling power by an amount equivalent to increasing the set temperature by 1C.



Econavi is switched on when it is sunny.

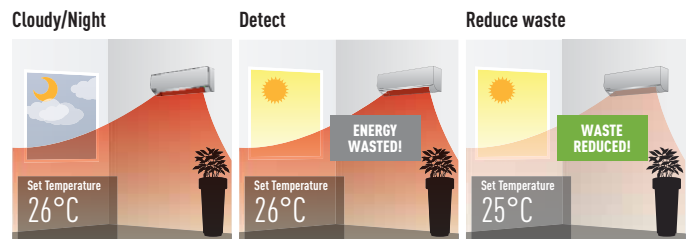
Econavi detects less cooling power is required.

Reduces cooling power by an amount equivalent to increasing the set temperature by 1°C.

### Sunlight Detection (on Heating Mode)

Econavi detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night. It reduces heating operation (wasted energy) under sunnier conditions.

When weather changes from cloudy/night to sunny, Econavi detects a higher sunlight intensity and determines less heating power is required. Energy waste occurs when the heating power is not adjusted, therefore the Econavi's main focus is to detect such waste and appropriately reduce the heating power by an amount equivalent to decreasing the set temperature by 1C.



Econavi is switched on when it is cloudy/night.

Econavi detects less heating power is required.

Reduces heating power by an amount equivalent to decreasing the set temperature by 1°C.

## Temperature wave

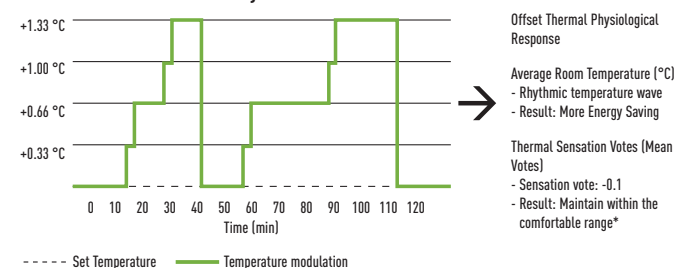
### Rhythmic temperature-controlled pattern to save energy without sacrificing comfort

Econavi with Temperature Wave was developed based on an understanding of Thermal Physiology: the human body adapts physiologically to changes in temperature. Taking advantage of this understanding, Panasonic's R&D Centre has developed the Rhythmic Temperature Control pattern, which offsets the air conditioner's performance against thermal physiological responses.

Hence, when Econavi detects human presence and low activity level, Temperature Wave adapts to this rhythmic temperature control to realise further energy savings without sacrificing comfort.

### How does Temperature Wave work?

#### When Econavi detects low activity

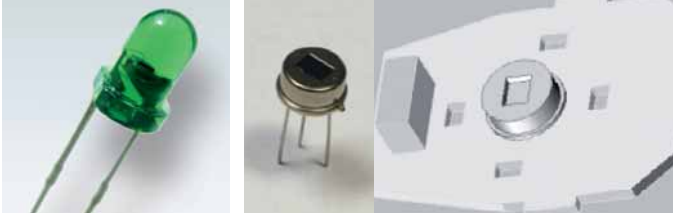


The result of the experiment showed that thermal sensation was maintained within the comfortable range\* even though average set temperature was moderately increased. Hence, when Econavi detects human presence and low activity level, Temperature Wave adapts to this rhythmic temperature control to realise further energy saving without sacrificing comfort.

\* The thermal condition of which PMV (Predicted Mean Value) is within -0.5 to +0.5 is recommended as comfortable condition (in the condition B) by International Standard EN ISO 7730.

## Econavi Intelligent Sensors

Econavi Intelligent Sensors are able to monitor sunlight intensity, human movements, activity levels and human absence to detect energy waste and automatically adjusts cooling power, in order to save energy efficiently whilst still providing uninterrupted cooling comfort and convenience.



**Sunlight Sensor**

Detects changes in Sunlight Intensity

**Human Activity Sensor**

Detects human movements, changes in activity levels and human absence.

### High-precision sensing

All objects emit infrared rays which, although invisible, can be detected as heat by Econavi's Human Activity Sensor, within the detection zone. When an object moves within its detection zone, Econavi compares the object's temperature to the room temperature to determine if it is human, and the level of activity based on its movement.



#### Detecting Human Presence

Difference in temperatures	<input checked="" type="checkbox"/>	Difference in temperatures	<input checked="" type="checkbox"/>	Difference in temperatures	<input checked="" type="checkbox"/>
Movement	<input checked="" type="checkbox"/>	Movement	<input checked="" type="checkbox"/>	Movement	<input checked="" type="checkbox"/>

When there is no movement for over 20 min.



#### Determining the Level of Human Activity

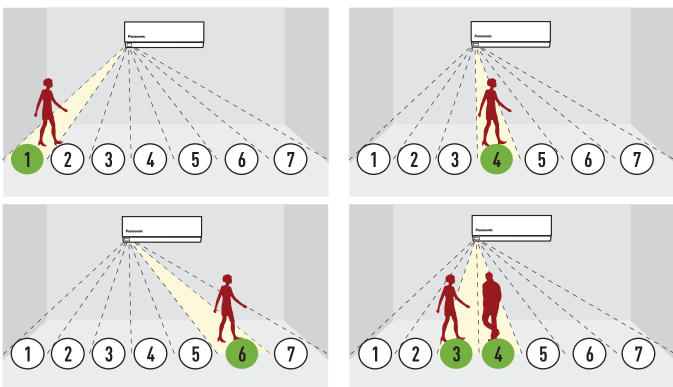


A highly precise conclusion is reached through a pre-set algorithm



### Sensor detection principle

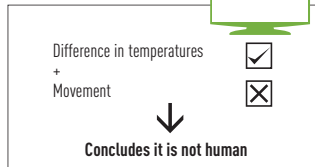
Human Activity Sensor detects human activity level and directs airflow to occupied or high activity zone.



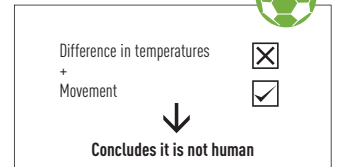
### Differentiating objects

Econavi's sensor technology uses factors such as the speed, frequency and temperature of every object to determine if it is human.

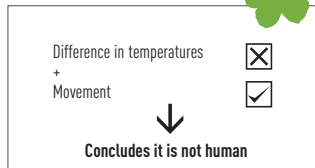
#### Electrical products



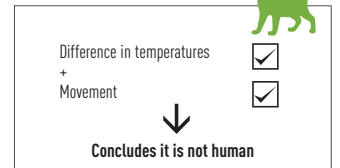
#### A rolling ball



#### Small insects



#### Pets



Both changes may be detected, but they are too small to have any effect on the sensor.

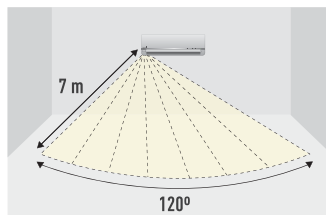
From the difference in temperatures and the nature of the object's movement, Econavi can determine if it is human\*.

\* The sensor may deem pets as humans, unless they move within the detection zone at speeds that are not humanly possible.

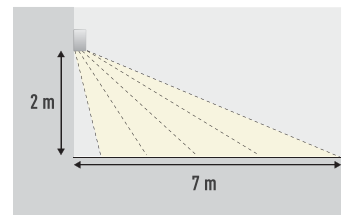
### Coverage capabilities

The Human Activity Sensor covers a wider area due to its improved area detection function. The entire room is divided into 7 detection areas.

#### Horizontal sensing area



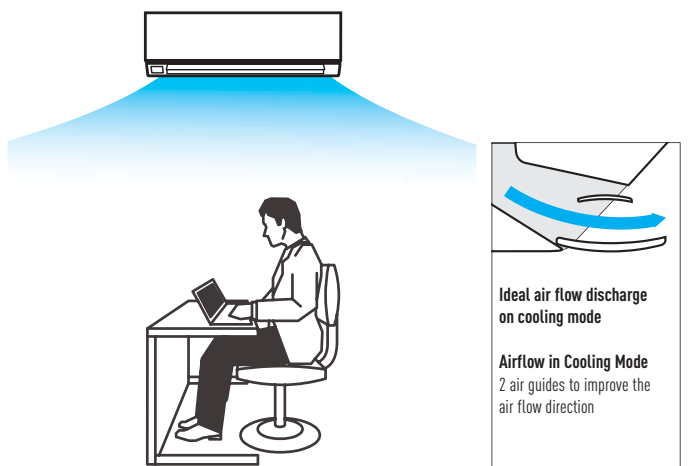
#### Vertical sensing area



### Aerowings

Ability to direct the airflow towards the ceiling in order to create a showering, cooling effect through the built-in twin flap.

### Indirect airflow after reaching set temperature



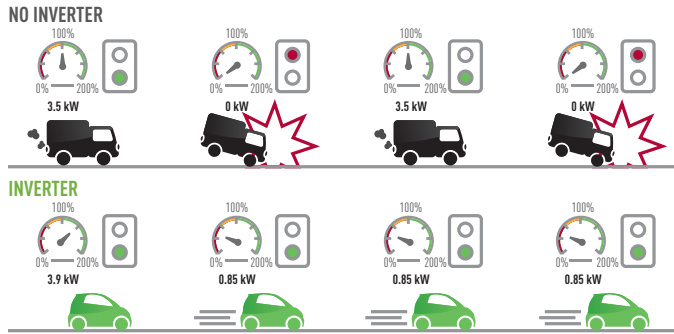
## Inverter technology

### The secret is flexibility

Panasonic Inverter air conditioners have the flexibility to vary the rotation speed of the compressor. This allows the system to use less energy to maintain the set temperature, whilst also being able to cool the room quicker at start-up.

The system provides maximum cooling comfort, with the added benefits of energy efficiency, demonstrated through lower energy bills costs.

The advantages of Inverter heat pumps. Comparing Inverter and non-Inverter heat pumps.



**NO INVERTER** Slow to start. Takes longer to reach the temperature set point. The temperature oscillates between the two extremes and never stabilises. The temperature falls and then rises quickly, leading to a consumption peak.

**INVERTER** Rapidly reaches the desired temperature. Adjusts the temperature: more comfort and greater savings. Keeps the temperature comfortable all the time.

### Exceptional energy-saving performance and electricity consumption reduction

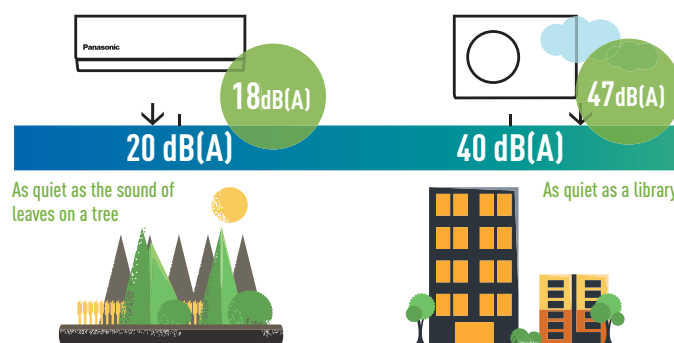
Panasonic Inverter air conditioners are designed to offer exceptional energy savings and performance. At the start-up of an air conditioner's operation, a boost in power is required to reach the set temperature. After the set temperature is reached, less power is required to maintain it. The Panasonic Inverter air conditioner varies the rotation speed of the compressor. This provides a highly precise method of maintaining the set temperature.

### Silent ambient and relaxing atmosphere 18dB(A)

We have succeeded in making one of the most silent air conditioners on the market. Panasonic Inverter air conditioner's indoor operating noise has been reduced as the Inverter constantly varies its output power to enable more precise temperature control.

Quiet Mode reduces operation noise to a quiet 18dB(A)\* for a comfortable night's sleep

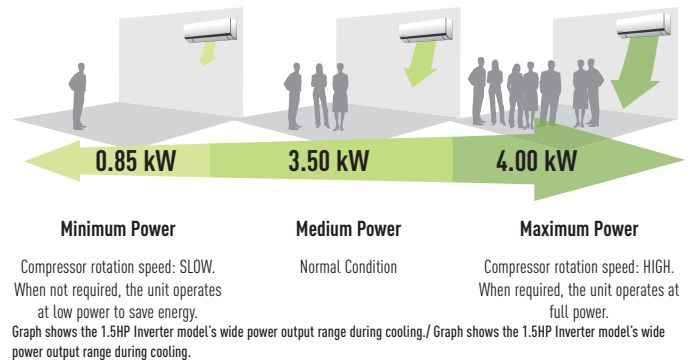
Noise is 5dB(A) quieter than during regular operation



Heatcharge: In the Quiet Mode during cooling operation with low fan speed.

### Constant Comfort

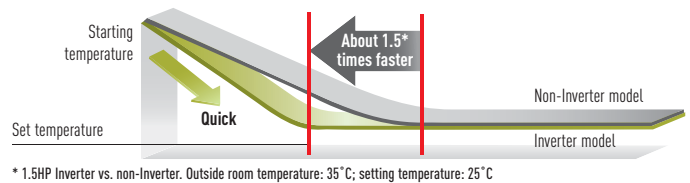
Precise temperature control with a wide power output range enables an inverter air conditioner to meet different room occupancy levels, thus ensuring constant comfort.



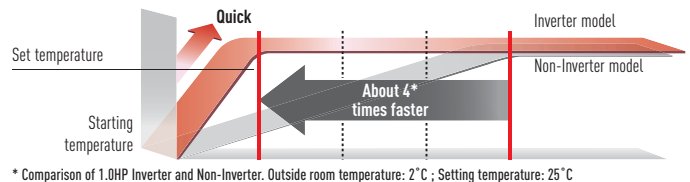
### Quick Comfort

Panasonic Inverter air conditioners can operate with higher power during the start up period to cool the room 1.5 times faster and heat the room 4 times faster than non-Inverter models.

#### Comparison of Cooling Speed

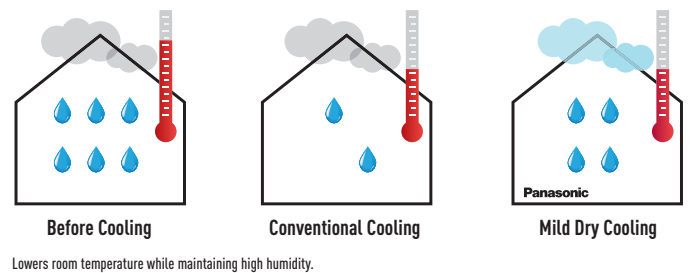


#### Comparison of Heating Speed



### Mild Dry Cooling

Mild dry cooling maintains a higher level of relative humidity of up to 10% compared to regular cooling operation. This helps reduce potential dryness of the airways and skin.





## PACi Standard and Elite: indoor units

### 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 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 the highly efficient grooved heat exchanger tube.

**Effective & Silent Turbo Fan**

The newly developed larger fan chassis and optimised design of the airflow path has resulted in increased air volume and quieter performance.



**New DC-Fan motor**

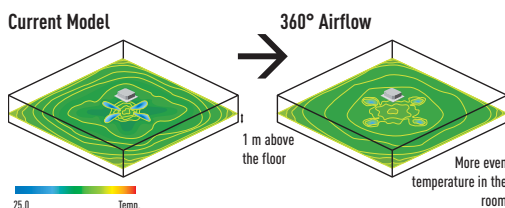
Optimum air flow is achieved by a new DC-Fan motor with independent control.

**Individual flap control**

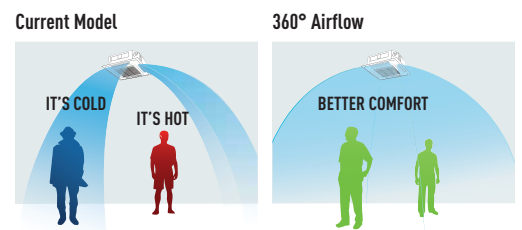
Flexible Air flow direction control by individual flap control is possible. 4 Flaps can be controlled individually by setting on wired timer remote controller. It can make more flexible Airflow control to be matched to several demands in a room.

### 360° Airflow for improved comfort

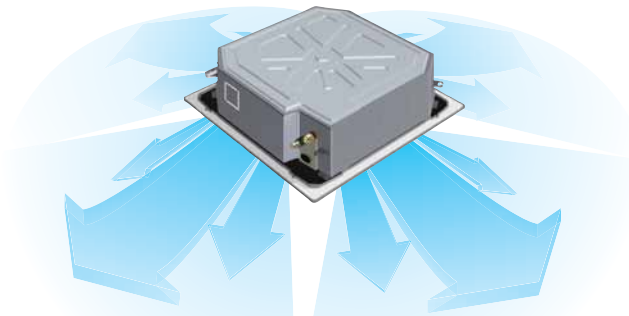
By redesigning the air-outlet and flap, Soft & 3D airflow circulates whole space and provides even temperature distribution in the room.



Simulated condition: Floor area: 225 m<sup>2</sup>. Ceiling height: 3 m, Unit 12,5 kW type.





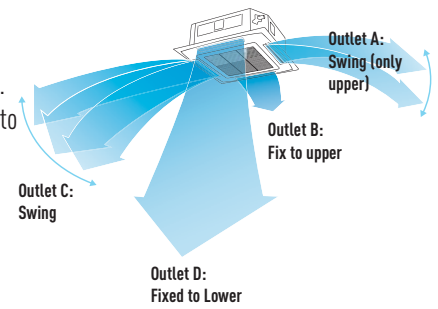


**Ample airflow: 36 m<sup>3</sup>/min**  
Industry's highest in the 140 PU class.

**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.

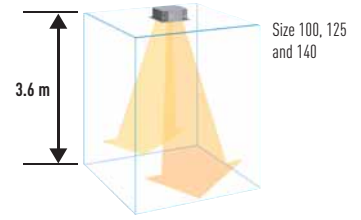
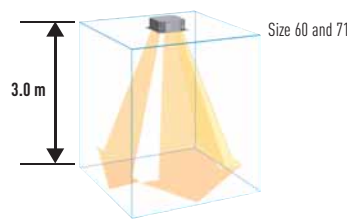


\* Pre-setting is required for this function at System Test-run procedure.

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

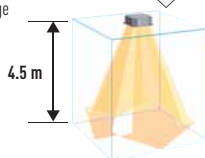
The units can be installed in rooms with high ceilings, where they provide ample floor-level heating in the winter. (See ceiling height guidelines below.)

High Ceiling (Factory settings)

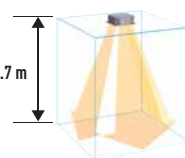


Industry's Top-Class

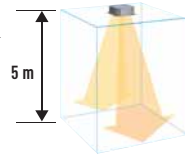
4-way discharge high ceiling settings<sup>2</sup>



3-way discharge with the optional air-blocking materials



2-way discharge with the optional air-blocking materials



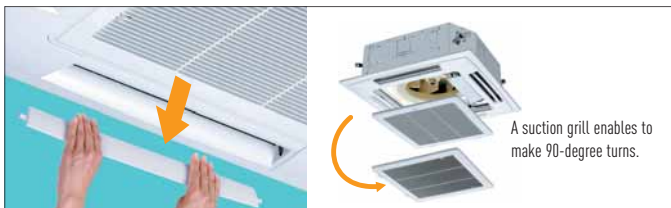
**Ceiling height guidelines**

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

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

**Easy Maintenance and Cleaning**

The flap can be removed easily for washing with water.

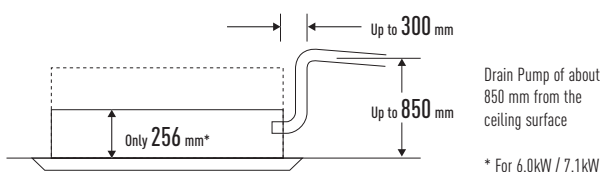


**Lighter and Slimmer, Easier Installation**

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

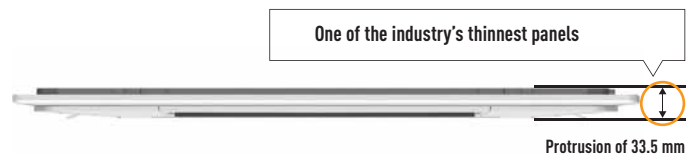
**A Drain Height of Approx. 850 mm from the Ceiling Surface**

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



**Low-Profile 33.5 mm Panel**

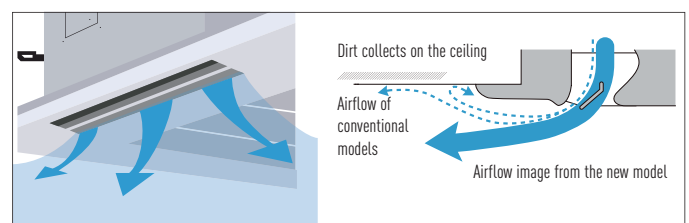
The square panel integrates seamlessly with the ceiling. Discharge outlets close when the unit is stopped.



**Dust Prevention**

Wide direction air discharge by outlet design.

The Circle Flow Flap and re-designed air-outlet eliminates airflow along recessed parts of the ceiling which reduces contamination. If air flows only along these recessed parts, they will quickly become dirty. The new and improved air outlet design has been designed to reduce more dirt accumulation than all previous models.





## PACi Standard and Elite: indoor units

### New 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 approximately 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.

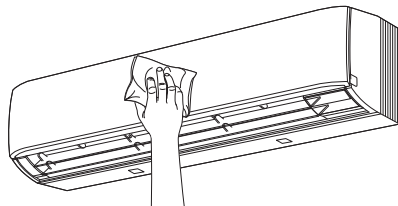
#### Significant reduction of power consumption by using highly developed DC fan motors with variable speed and special heat exchangers

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

### Wall Mounted

#### 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.

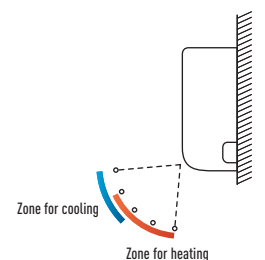
#### Smooth and durable design

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

#### Piping outlet in three directions

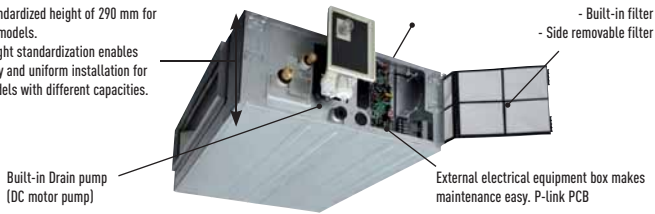
With three options for pipe outlets-rear, right and left - installation is made easy.

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



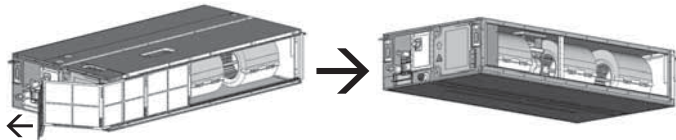
## High Static Pressure Hide Away (PF Type)

Standardized height of 290 mm for all models. Height standardization enables easy and uniform installation for models with different capacities.



### Air inlet

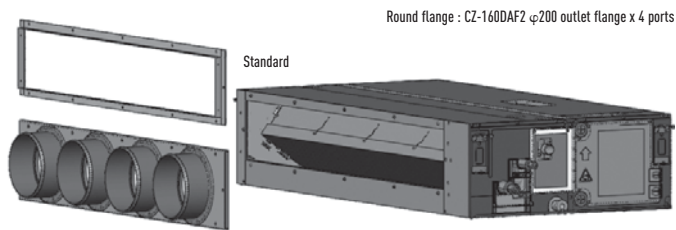
This unit features an air inlet on one side and an air outlet on the other. The air inlet filter can be pulled out from the side of the unit and folded. Easier access enabled through the maintenance opening.



When air inlet duct (field supplied) is connected on the 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 site

A rectangular duct flange for the air outlet is fitted as standard. Round outlet flange kits are available as an optional accessory kit.

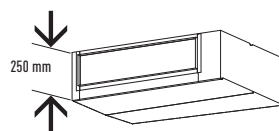


### Circle duct flange (option)

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

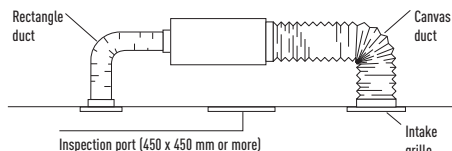
## Low Static Pressure Hide Away (PN Type)

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



### System Example

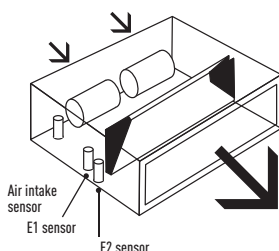
An inspection port (450 mm x 450 mm or more) is required at the control-box side of the indoor unit body.



### Cold Drafts Reduction at Heating

Accurate DX Coil temperature measurement by E1 and E2 sensor to reduce cold drafts at heating and increasing efficiency and comfort.

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



## Full range of External Static Pressure and Airflow Volumes available by special setting

Thanks to the DC-Fan motor, it is possible to select the best fitted airflow/static pressure curve to meet all design needs.

The table below shows the airflow and noise data at minimum airflows curve selectable (Example S-36PF1E5A: see red dot in the diagram n.1) and noise data at maximum rated static pressure with maximum airflow curve selectable (example S-36PF1E5A blue dot in diagram n.1). Specific diagrams per each units are available in ECOi Technical Data Book.

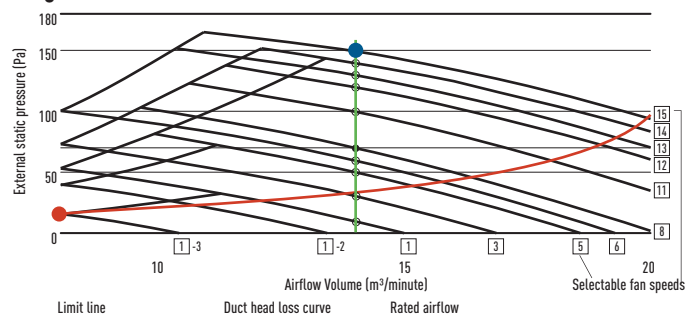
Model	36	45	50	60-71	100	125	140
Minimum air volume - the red dot - on minimum airflow curve selectable (curve 1-3)	m <sup>3</sup> /h	480	480	600	780	1.140	1.320
Min Static Pressure value - the red dot - on minimum airflow curve selectable (curve 1-3)	Pa	15	15	15	10	20	15
Noise level at minimum static pressure - the red dot - on minimum airflow curve selectable (curve 1-3)	dB(A)	24	26	26	24	29	30
Noise level at maximum rated static pressure - the blue dot - on maximum airflow curve selectable (curve 15)	dB(A)	34	35	35	40	42	43

### F2 Advantages

Automatic static pressure learning function activated easily using the standard wired timer remote controller.

It is possible to increase the sensible cooling capacity, almost completely eliminating latent losses. This is due to the outstanding heat exchanger surface area in combination with an increased volume flow. This is achieved by manually selecting higher fan speed curves when commissioning, activating off-coil temperature control and room load based variable evaporation temperature control, all via the standard wired remote controller.

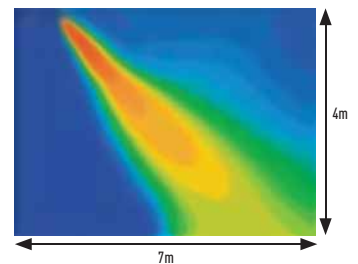
### Diagram n. 1 S-36PF1E5A



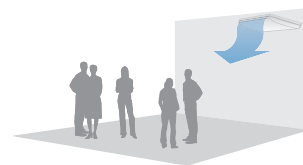
## Ceiling

### Further comfort improvement

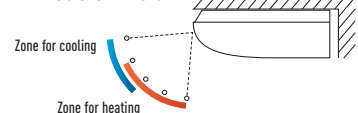
The wide air discharge opening expands the air flow to the left and the right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.



### Further comfort improvement with airflow distribution



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





Wall Mounted Etherea Inverter+ Silver / White • R32 GAS



Kit Silver*			KIT-XZ7-SKE	KIT-XZ9-SKE	KIT-XZ12-SKE	—	KIT-XZ18-SKE	
Kit White Matt *			KIT-Z7-SKEM	KIT-Z9-SKEM	KIT-Z12-SKEM	KIT-Z15-SKEM	KIT-Z18-SKEM	
Cooling capacity	Nominal	kW	2.05	2.50	3.50	4.20	5.00	
SEER	Nominal		7.50 <b>A+++</b>	8.50 <b>A+++</b>	8.50 <b>A+++</b>	6.90 <b>A++</b>	7.30 <b>A+++</b>	
Heating capacity	Nominal	kW	2.80	3.40	4.00	5.30	5.80	
SCOP	Nominal		4.70 <b>A+++</b>	4.90 <b>A+++</b>	—	4.00 <b>A+</b>	4.40 <b>A+</b>	
Indoor Unit Silver			CS-XZ7SKEW	CS-XZ9SKEW	CS-XZ12SKEW	—	CS-XZ18SKEW	
Indoor Unit White			CS-Z7SKEW-M	CS-Z9SKEW-M	CS-Z12SKEW-M	CS-Z15SKEW-M	CS-Z18SKEW-M	
Recommended fuse / Connection indoor / outdoor		A / mm <sup>2</sup>	16 / 4 x 1.5				16 / 4 x 2.5	
Sound pressure level <sup>1)</sup>	Cooling (Hi / Lo / Q-Lo)	dB(A)	37 / 24 / 19	39 / 25 / 19	42 / 28 / 19	43 / 31 / 25	44 / 37 / 34	
Dimensions	H x W x D	mm	295 x 919 x 194 0					
Outdoor			CU-Z7SKE	CU-Z9SKE	CU-Z12SKE	CU-Z15SKE	CU-Z18SKE	
Sound pressure level <sup>1)</sup>	Cool / Heat (Hi)	dB(A)	45 / 46	46 / 47	48 / 50	49 / 51	47 / 47	
Piping connections	Liquid / Gas pipes	Inch	1/4 / 3/8		1/4 / 1/2			
Piping length range / Elevation difference (in/out) <sup>2)</sup>		m	3 ~ 15 / 15				3 ~ 20 / 15	

1) The Sound pressure level of the units shows the value measured of a position 1 metre in front of the main body and 0.8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. Q-Lo: Quiet mode. Lo: The lowest fan speed. 2) When installing the outdoor unit at a higher position than the indoor unit. \* Available in May 2016. SEER and SCOP: For KIT-XZ9-SKE and KIT-Z9-SKE. SUPER QUIET: For KIT-XZ7-SKE, KIT-XZ9-SKE, KIT-XZ12-SKE, KIT-Z7-SKE, KIT-Z9-SKE and KIT-Z12-SKE. INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY: Only for PRO Partners.



Wall Mounted Etherea White Inverter+ Wide

Kit			KIT-E21-OKE	KIT-E24-OKE	KIT-E28-OKE
Cooling capacity	Nominal	kW	6.30	6.80	7.65
SEER	Nominal		6.50 <b>A+++</b>	6.10 <b>A+++</b>	6.00 <b>A+</b>
Heating capacity	Nominal	kW	7.20	8.60	9.60
SCOP	Nominal		4.00 <b>A+</b>	3.90 <b>A</b>	3.80 <b>A</b>
Indoor Unit			CS-E21OKEW	CS-E24OKEW	CS-E28OKEW
Recommended fuse / Connection indoor/outdoor		A / mm <sup>2</sup>	16 / 4 x 2.5		
Sound pressure level <sup>1)</sup>	Cool — Heat (Hi / Lo / Q-Lo)	dB(A)	45 / 37 / 34 — 45 / 37 / 34	47 / 38 / 35 — 47 / 38 / 35	49 / 38 / 35 — 48 / 38 / 35
Dimensions	H x W x D	mm	295 x 1,070 x 255		
Outdoor Unit			CU-E21OKE	CU-E24OKE	CU-E28OKE
Sound pressure level <sup>1)</sup>	Cool / Heat (Hi)	dB(A)	48 / 49	52 / 52	53 / 53
Piping connections	Liquid / Gas pipes	Inch	1/4 / 1/2		1/4 / 5/8
Piping length range / Elevation difference (in/out) <sup>2)</sup>		m	3 ~ 20 / 15		3 ~ 30 / 20



1) The Sound pressure level of the units shows the value measured of a position 1 metre in front of the main body and 0.8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. Q-Lo: Quiet mode. Lo: The lowest fan speed. 2) When installing the outdoor unit at a higher position than the indoor unit. SEER and SCOP: For KIT-XE18-OKE and KIT-E18-OKE. INTERNET CONTROL: Optional. IF Award: Awarded with the prestigious IF Design Award 2013.



Wall Mounted RE Type Standard Inverter

Kit			KIT-RE9-RKE	KIT-RE12-RKE	KIT-RE18-RKE	KIT-RE24-RKE
Cooling capacity	Nominal	kW	2.50	3.50	5.00	6.80
SEER	Nominal		6.10 <b>A+++</b>	—	6.70 <b>A+++</b>	6.00 <b>A+</b>
Heating capacity	Nominal	kW	3.30	4.00	5.80	8.60
SCOP	Nominal		4.00 <b>A+</b>	—	4.10 <b>A+</b>	3.80 <b>A</b>
Indoor Unit			CS-RE9RKEW	CS-RE12RKEW	CS-RE18RKEW	CS-RE24RKEW
Sound pressure level <sup>3)</sup>	Cooling (Hi / Lo / Q-Lo)	dB(A)	41 / 26 / 22	42 / 30 / 22	44 / 37 / 34	47 / 38 / 35
Dimensions	H x W x D	mm	290 x 870 x 214		290 x 1,070 x 240	
Outdoor Unit			CU-RE9RKE	CU-RE12RKE	CU-RE18RKE	CU-RE24RKE
Recommended fuse / Connection (indoor/outdoor)		A / mm <sup>2</sup>	16 / 4 x 1.5			
Sound pressure level <sup>1)</sup>	Cooling / Heating (Hi)	dB(A)	47 / 48	48 / 50	47 / 47	52 / 52
Piping connections	Liquid / Gas pipe	Inch	1/4 / 3/8		1/4 / 1/2	1/4 / 5/8
Piping length range / Elevation difference (in/out)		m	3 ~ 15 / 15		3 ~ 20 / 15	3 ~ 30 / 20



1) The Sound pressure level of the units shows the value measured of a position 1 metre in front of the main body and 0.8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. Q-Lo: The lowest fan speed. Lo: The second lowest fan speed (the lowest fan speed for RE18/24). SEER and SCOP: For KIT-RE18-RKE. SUPER QUIET: For KIT-RE9-RKE and KIT-RE12-RKE. INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY: Only for PRO Partners.







Wall Mounted TZ Type Standard Inverter • R32 GAS

Kit			KIT-TZ9-SKE*	KIT-TZ12-SKE*	KIT-TZ18-SKE*	KIT-TZ24-SKE**
Cooling capacity	Nominal	kW	2.50	3.50	5.00	6.80
SEER	Nominal		6.20 A++		6.70 A++	6.10 A++
Heating capacity	Nominal	kW	3.30	4.00	5.80	8.60
SCOP	Nominal		4.20 A+		4.10 A+	4.00 A+
Indoor Unit			CS-TZ9SKEW	CS-TZ12SKEW	CS-TZ18SKEW	CS-TZ24SKEW
Sound pressure level <sup>3)</sup>	Cool (Hi / Lo / Q-Lo)	dB(A)	40 / 26 / 20	42 / 30 / 20	44 / 37 / 34	47 / 38 / 35
Dimensions	H x W x D	mm	290 x 870 x 204		290 x 870 x 204	290 x 1,070 x 235
Outdoor Unit			CU-TZ9SKE	CU-TZ12SKE	CU-TZ18SKE	CU-TZ24SKE
Recommended fuse		A	16		16	
Connection (indoor/outdoor)		mm <sup>2</sup>	4 x 1.5		4 x 2.5	
Sound pressure level <sup>3)</sup>	Cool / Heat (Hi)	dB(A)	47 / 48	48 / 50	48 / 49	52 / 52
Piping connections	Liquid / Gas pipes	Inch	1/4 / 3/8		1/4 / 1/2	1/4 / 5/8
Piping length range / Elevation difference (in/out)		m	3 - 15 / 15		3 - 20 / 15	3 - 30 / 20

1) The Sound pressure level of the units shows the value measured of a position 1 metre in front of the main body and 0.8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. Q-Lo: The lowest fan speed. Lo: The second lowest fan speed (the lowest fan speed for RE18/2). \* Available in April 2016. \*\* Available in May 2016. SEER: For KIT-TZ9-SKE. SCOP: For KIT-TZ9-SKE and KIT-TZ12-SKE. SUPER QUIET: For KIT-TZ9-SKE and KIT-TZ12-SKE. INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY: Only for PRO Partners.



Wall Mounted Professional Inverter -20°C

Kit			KIT-E9-PKEA	KIT-E12-PKEA	KIT-E15-PKEA	KIT-E18-PKEA
Cooling capacity	Nominal	kW	2.50	3.50 (0.85-4.00)	4.20	5.00
SEER <sup>1)</sup>	Nominal		7.1 A++	6.7 A++	6.3 A++	6.9 A++
Heating capacity	Nominal	kW	3.40	4.00	5.40	5.80
SCOP <sup>2)</sup>	Nominal		4.4 A+	4.1 A+	3.9 A	4.2 A+
Indoor Unit			CS-E9PKEA	CS-E12PKEA	CS-E15PKEA	CS-E18PKEA
Recommended fuse / Connection (indoor / outdoor)		A / mm	16 / 4 x 1.5			
Sound pressure level <sup>3)</sup>	Cooling (Hi / Lo / S-Lo)	dB(A)	39 / 26 / 23	42 / 29 / 26	43 / 32 / 29	44 / 37 / 34
Dimensions	H x W x D	mm	295 x 870 x 255		295 x 1,070 x 255	
Outdoor Unit			CU-E9PKEA	CU-E12PKEA	CU-E15PKEA	CU-E18PKEA
Piping connections	Liquid / Gas pipes	Inch	1/4 / 3/8		1/4 / 1/2	1/4 / 1/2
Piping length range / Elevation difference (in/out) <sup>4)</sup>		m	3 - 15 / 5		3 - 20 / 15	



Rating Conditions for cooling capacity at low temperature: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 0°C DB / -10°C WB. 1) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit. SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0.2, b=0.36, c=0.32 and d=0.03. The internal temperatures are taken at 27°C DB and 19°C WB. 2) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 3) The annual consumption (ErP) is calculated by formula determined by ErP regulation. 4) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. SEER and SCOP: For KIT-E9-PKEA. SUPER QUIET: For KIT-E9-PKEA. INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY: Only for PRO Partners.



PACi Standard. Wall Mounted Inverter+

KIT			Single Phase			Three Phase		
			KIT-60PYK1E5-C4	KIT-71PYK1E5-C4	KIT-100PYK1E5-C4	KIT-100PYK1E8-C4		
Cooling capacity	Nominal	kW	6.0	7.1	9.0	9.0		
SEER <sup>1)</sup>			5.4 A	5.1 A	5.8 A	5.7 A+		
Heating capacity	Nominal	kW	6.0	7.1	9.0	9.0		
SCOP <sup>2)</sup>			3.9 A	3.9 A	3.8 A	3.8 A		
Indoor Unit			S-60PK1E5A	S-71PK1E5A	S-100PK1E5A	S-100PK1E5A		
Sound pressure level <sup>3)</sup>	Hi / Med / Lo	dB(A)	47 / 44 / 40		49 / 45 / 41			
Dimensions	H x W x D	mm	300 x 1,065 x 230					
Outdoor Unit			U-60PEY1E5	U-71PEY1E5	U-100PEY1E5	U-100PEY1E8		
Recommended fuse		A	20		32	16		
Power supply cable size		mm <sup>2</sup>	2.5		4.0	2.5		
Dimensions	H x W x D	mm	569 x 790 x 285		996 x 940 x 340			
Piping connections	Liquid / Gas pipes	Inch	3/8 / 5/8					
Piping length range / Elevation difference (in/out) <sup>4)</sup>		m	5 - 50 / 30					



PACi Elite. Wall Mounted Inverter+

KIT			Single Phase			Three Phase		
			KIT-50PK1E5-C4	KIT-60PK1E5-C4	KIT-71PK1E5-C4	KIT-100PK1E5-C4	KIT-71PK1E8-C4	KIT-100PK1E8-C4
Cooling capacity	Nominal	kW	5.0	6.0	7.1	9.5	7.1	9.5
SEER <sup>1)</sup>			6.0 A+	6.6 A++	8.0	6.2 A++	6.1 A++	6.0 A+
Heating capacity	Nominal	kW	5.6	7.0	8.0	9.5	8.0	9.5
SCOP <sup>2)</sup>			3.9 A			3.8 A		
Indoor Unit			S-50PK1E5A	S-60PK1E5A	S-71PK1E5A	S-100PK1E5A	S-71PK1E5A	S-100PK1E5A
Sound pressure level <sup>3)</sup>	Hi / Med / Lo	dB(A)	40 / 36 / 32		47 / 44 / 40		49 / 45 / 41	
Dimensions	H x W x D	mm	300 x 1,065 x 230			300 x 1,065 x 230		
Outdoor Unit			U-50PE1E5	U-60PE1E5A	U-71PE1E5A	U-100PE1E5A	U-71PE1E8A	U-100PE1E8A
Recommended fuse		A	16	20		32	16	
Power supply cable size		mm <sup>2</sup>	2.5		4.0			
Dimensions	H x W x D	mm	569 x 790 x 285	996 x 940 x 340	996 x 940 x 340	1,416 x 940 x 340	996 x 940 x 340	1,416 x 940 x 340
Piping connections	Liquid / Gas pipes	Inch	1/4 / 1/2		3/8 / 5/8			
Piping length range / Elevation difference (in/out) <sup>4)</sup>		m	5 - 40 / 30	5 - 50 / 30		5 - 75 / 30	5 - 50 / 30	5 - 75 / 30

1) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0.2, b=0.36, c=0.32 and d=0.03. The internal temperatures are taken at 27°C DB and 19°C WB. 2) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5m 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.





## 4 Way 60x60 Cassette Inverter

Kit			KIT-E9-PB4EA	KIT-E12-PB4EA	KIT-E18-RB4EA	KIT-E21-RB4EA	KIT-50PY2E5A	
Cooling capacity	Nominal	kW	2.50	3.40	5.00	5.90	5.00	
SEER	Nominal		5.80 <b>A+</b>	5.60 <b>A+</b>	5.80 <b>A+</b>	5.60 <b>A+</b>	5.90 <b>A+</b>	
Heating capacity	Nominal	kW	3.20	4.50	5.60	7.00	5.60	
SCOP	Nominal		4.00 <b>A+</b>	3.80 <b>A</b>	4.10 <b>A+</b>		3.80 <b>A</b>	
Indoor Unit			CS-E9PB4EA	CS-E12PB4EA	CS-E18RB4EAW	CS-E21RB4EAW	S-50PY2E5A	
Recommended fuse / Connection			A / mm <sup>2</sup> 16 / 4 x 1.5 to 2.5					
Sound pressure level <sup>1)</sup>	Cooling (Hi / Lo / O-Lo)	dB(A)	34 / 26 / 23	34 / 26 / 23	37 / 28 / 25	42 / 33 / 30	40 / 37 / 33	
Dimensions (H x W x D)	Indoor / Panel	mm	260 x 575 x 575 / 51 x 700 x 700				288 x 583 x 583 / 31 x 700 x 700	31 x 625 x 625
Outdoor Unit			CU-E9PB4EA	CU-E12PB4EA	CU-E18RBEA	CU-E21RBEA	U-50PE1E5	
Dimensions <sup>2)</sup>	H x W x D	mm	622 x 824 x 299	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	569 x 790 x 285	
Piping connections	Liquid / Gas pipes	Inch	1/4 / 3/8		1/4 / 1/2		1/4 / 1/2	
Piping length range / Elevation difference (in/out)		m	3 ~ 20 / 15		3 ~ 30 / 20		5 ~ 40 / 30	

1) The Sound pressure level of the units shows the value measured of a position 1 metre in front of the main body and 1.5m below the ceiling in the centre of the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 2) Add 70 mm for piping port. SEER and SCOP: For KIT-E9-PB4EA. SUPER QUIET: For KIT-E9-PB4EA and KIT-E12-PB4EA. INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY: Only for PRO Partners.



## PACi Standard. 4 Way 90x90 Cassette Inverter+

			Single Phase				Three Phase		
KIT			KIT-60PUY1E5-C4	KIT-71PUY1E5-C4	KIT-100PUY1E5-C4	KIT-125PUY1E5-C4	KIT-100PUY1E8-C4	KIT-125PUY1E8-C4	KIT-140PUY1E8-C4
Cooling capacity	Nominal	kW	6.0	7.1	10.0	12.5	10.0	12.5	14.0
SEER <sup>1)</sup>	Nominal		6.8 <b>A++</b>	6.3 <b>A++</b>	6.4 <b>A++</b>	—	6.2 <b>A++</b>	—	—
Heating capacity	Nominal	kW	6.0	7.1	10.0	12.5	10.0	12.5	14.0
SCOP <sup>2)</sup>	Nominal		4.0 <b>A+</b>	4.0 <b>A+</b>	4.0 <b>A+</b>	—	4.0 <b>A+</b>	—	—
Indoor Unit			S-60PU1E5A	S-71PU1E5A	S-100PU1E5A	S-125PU1E5A	S-100PU1E5A	S-125PU1E5A	S-140PU1E5A
Sound pressure level <sup>3)</sup>	Hi / Med / Lo	dB(A)	36 / 31 / 28	37 / 31 / 28	44 / 38 / 32	45 / 39 / 33	44 / 38 / 32	45 / 39 / 33	46 / 40 / 34
Dimensions (H x W x D)	Indoor	mm	256 x 840 x 840				319 x 840 x 840		
Outdoor Unit			U-60PEY1E5	U-71PEY1E5	U-100PEY1E5	U-125PEY1E5	U-100PEY1E8	U-125PEY1E8	U-140PEY1E8
Recommended fuse		A	20		25	30	16		
Power supply cable size		mm <sup>2</sup>	2.5		4.0	6.0	2.5		
Dimensions	H x W x D	mm	569 x 790 x 285		996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	1,416 x 940 x 340
Piping connections	Liquid / Gas pipes	Inch	3/8 / 5/8						
Piping length range / Elevation difference (in/out) <sup>4)</sup>		m	5 ~ 50 / 30						

## PACi Elite. 4 Way 90x90 Cassette Inverter+

			Single Phase					Three Phase				
KIT			KIT-50PU1E5-C4	KIT-60PU1E5-C4	KIT-71PU1E5-C4	KIT-100PU1E5-C4	KIT-125PU1E5-C4	KIT-140PU1E5-C4	KIT-71PU1E8-C4	KIT-100PU1E8-C4	KIT-125PU1E8-C4	KIT-140PU1E8-C4
Cooling capacity	Nominal	kW	5.0	6.0	7.1	10.0	12.5	14.0	7.1	10.0	12.5	14.0
SEER <sup>1)</sup>	Nominal		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>	—	—
Heating capacity	Nominal	kW	5.6	7.0	8.0	11.2	14.0	16.0	8.0	11.2	14.0	16.0
SCOP <sup>2)</sup>	Nominal		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>	—	—
Indoor Unit			S-50PU1E5A	S-60PU1E5A	S-71PU1E5A	S-100PU1E5A	S-125PU1E5A	S-140PU1E5A	S-71PU1E5A	S-100PU1E5A	S-125PU1E5A	S-140PU1E5A
Sound pressure level <sup>3)</sup>	Hi / Med / 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
Dimensions (H x W x D)	Indoor	mm	256x840x840	256x840x840		319x840x840		256x840x840	319x840x840			
Outdoor Unit			U-50PE1E5	U-60PE1E5A	U-71PE1E5A	U-100PE1E5A	U-125PE1E5A	U-140PE1E5A	U-71PE1E8A	U-100PE1E8A	U-125PE1E8A	U-140PE1E8A
Recommended fuse		A	16	20		25	30	16				
Power supply cable size		mm <sup>2</sup>	2.5		4.0		6.0	2.5				
Dimensions	H x W x D	mm	569 x 790 x 285	996 x 940 x 340	996 x 940 x 340	1,416 x 940 x 340		996 x 940 x 340	1,416 x 940 x 340			
Piping connections	Liquid / Gas pipes	Inch	3/8 / 5/8									
Piping length range / Elevation difference (in/out) <sup>4)</sup>		m	5 ~ 40 / 30	5 ~ 50 / 30		5 ~ 75 / 30		5 ~ 50 / 30	5 ~ 75 / 30			

1) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a[EER25]+b[EER50]+c[EER75]+d[EER100] where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0.2, b=0.36, c=0.32 and d=0.03. The internal temperatures are taken at 27°C DB and 19°C WB. 2) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5m 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.

### STANDARD

### ELITE





Optional Controller  
Wired remote control  
CZ-RTCS



Optional Controller  
Wireless remote control  
CZ-RWST3N



Optional Controller  
Wired Controller  
CZ-RE2C2



Included Controller  
Wired Controller  
CZ-RTCA

INTERNET CONTROL: Optional. SEER and SCOP: For KIT-100PTY2E5A-C4 (Standard) and KIT-60PT2E5A-C4 (Elite). 5 YEARS COMPRESSOR WARRANTY: Only for PRO Partners. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

## PACI Standard. Ceiling Inverter+

			Single Phase				Three Phase		
KIT			KIT-60PTY2E5-C4	KIT-71PTY2E5-C4	KIT-100PTY2E5-C4	KIT-125PTY2E5-C4	KIT-100PTY2E8-C4	KIT-125PTY2E8-C4	KIT-140PTY2E8-C4
Cooling capacity	Nominal	kW	6.0	7.1	10.0	12.5	10.0	12.5	14.0
SEER <sup>1)</sup>	Nominal		6.7 <b>A++</b>	6.1 <b>A++</b>	—	—	6.0 <b>A+</b>	—	—
Heating capacity	Nominal	kW	6.0	7.1	10.0	12.5	10.0	12.5	14.0
SCOP <sup>2)</sup>	Nominal		4.0 <b>A+</b>	4.0 <b>A+</b>	3.9 <b>A</b>	3.40 <sup>4)</sup>	3.9 <b>A</b>	3.40 <sup>4)</sup>	3.52 <sup>4)</sup>
Indoor Unit			S-60PT2E5A	S-71PT2E5A	S-100PT2E5A	S-125PT2E5A	S-100PT2E5A	S-125PT2E5A	S-140PT2E5A
Outdoor Unit			U-60PEY1E5	U-71PEY1E5	U-100PEY1E5	U-125PEY1E5	U-100PEY1E8	U-125PEY1E8	U-140PEY1E8
Recommended fuse	A		20		25	30	16		
Connection	mm <sup>2</sup>		2.5		4.0	6.0	2.5		
Dimensions	H x W x D	mm	569 x 790 x 285		996 x 940 x 340		996 x 940 x 340	996 x 940 x 340	1,416 x 940 x 340
Piping connections	Liquid / Gas pipes	Inch	3/8 / 5/8						
Piping length range / Elevation difference (in/out) <sup>3)</sup>	m		5 - 50 / 30						

## PACI Elite. Ceiling Inverter+

			Single Phase					Three Phase				
KIT			KIT-50PT2E5-C4	KIT-60PT2E5-C4	KIT-71PT2E5-C4	KIT-100PT2E5-C4	KIT-125PT2E5-C4	KIT-140PT2E5-C4	KIT-71PT2E8-C4	KIT-100PT2E8-C4	KIT-125PT2E8-C4	KIT-140PT2E8-C4
Cooling capacity	Nominal	kW	5.0	6.0	7.1	10.0	12.5	14.0	7.1	10.0	12.5	14.0
SEER <sup>1)</sup>	Nominal		6.4 <b>A++</b>	6.8 <b>A++</b>	6.2 <b>A++</b>	6.7 <b>A++</b>	—	—	5.9 <b>A+</b>	6.6 <b>A++</b>	—	—
Heating capacity	Nominal	kW	5.6	7.0	8.0	11.2	14.0	16.0	8.0	11.2	14.0	16.0
SCOP <sup>2)</sup>	Nominal		4.0 <b>A</b>	4.1 <b>A+</b>	4.0 <b>A+</b>	4.3 <b>A+</b>	3.63 <sup>4)</sup>	3.41 <sup>4)</sup>	4.0 <b>A+</b>	4.3 <b>A+</b>	3.63 <sup>4)</sup>	3.41 <sup>4)</sup>
Indoor Unit			S-50PT2E5A	S-60PT2E5A	S-71PT2E5A	S-100PT2E5A	S-125PT2E5A	S-140PT2E5A	S-71PT2E8A	S-100PT2E8A	S-125PT2E8A	S-140PT2E8A
Outdoor Unit			U-50PE1E5	U-60PE1E5A	U-71PE1E5A	U-100PE1E5A	U-125PE1E5A	U-140PE1E5A	U-71PE1E8A	U-100PE1E8A	U-125PE1E8A	U-140PE1E8A
Recommended fuse	A		16	20	25	30	16					
Connection	mm <sup>2</sup>		2.5		4.0	6.0	2.5					
Dimensions	H x W x D	mm	569 x 790 x 285	996 x 940 x 340	996 x 940 x 340	1,416 x 940 x 340		996 x 940 x 340	1,416 x 940 x 340			
Piping connections	Liquid / Gas pipes	Inch	1/4 / 1/2				3/8 / 5/8					
Piping length range	m		5 - 40	5 - 50			5 - 75	5 - 50	5 - 75			
Elevation difference (in/out) <sup>3)</sup>	m		30									

1) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0.2, b=0.36, c=0.32 and d=0.03. The internal temperatures are taken at 27°C DB and 19°C WB. 2) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 3) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.

### STANDARD

### ELITE



(Included with Indoor unit)

## Floor Console Type Inverter+

Kit			KIT-E9-PFE	KIT-E12-PFE	KIT-E18-PFE
Cooling capacity	Nominal	kW	2.50	3.50	5.00
SEER	Nominal		6.10 <b>A++</b>	5.80 <b>A+</b>	6.20 <b>A++</b>
Heating capacity	Nominal	kW	3.40	4.00	5.80
SCOP	Nominal		3.80 <b>A</b>		3.90 <b>A</b>
Indoor Unit			CS-E9GFEW	CS-E12GFEW	CS-E18GFEW
Recommended fuse / Connection	A / mm <sup>2</sup>		16 / 4 x 1.5		
Sound pressure level <sup>1)</sup>	Cool — Heat (Hi / Lo / S-Lo)	dB(A)	38 / 27 / 23 — 38 / 27 / 23		44 / 36 / 32 — 46 / 36 / 32
Dimensions / Net weight	H x W x D	mm / kg	600 x 700 x 210 / 14		
Outdoor Unit			CU-E9PFE	CU-E12PFE	CU-E18PFE
Dimensions <sup>2)</sup>	H x W x D	mm	542 x 780 x 289	619 x 824 x 299	695 x 875 x 320
Piping connections	Liquid / Gas pipes	Inch	1/4 / 3/8		
Piping length range / Elevation difference (in/out)	m		3 - 15 / 5		

1) The Sound pressure level of the units shows the value measured of a position 1 metre in front of the main body and 1m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 2) Add 70 mm for piping port. SEER and SCOP: For KIT-E18-PFE. SUPER QUIET: For KIT-E9-PFE. INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY: Only for PRO Partners.





## Low Static Pressure Hide Away Inverter

Kit		KIT-E9-PD3EA		KIT-E12-QD3EAW		KIT-E18-RD3EA	
Cooling capacity	Nominal	kW		2.50		3.40	
SEER	Nominal	5.80 <b>A+</b>		5.60 <b>A</b>		5.80 <b>A+</b>	
Heating capacity	Nominal	kW		3.20		4.00	
SCOP	Nominal	4.20 <b>A+</b>		3.80 <b>A</b>		3.90 <b>A</b>	
Indoor Unit		CS-E9PD3EA		CS-E12QD3EAW		CS-E18RD3EAW	
Recommended fuse / Connection		A / mm <sup>2</sup>		16 / 4 x 1.5 to 2.5			
External static pressure <sup>3)</sup>		Hi / Lo		Pa		57 / 25	
Air volume		Cool / Heat		m <sup>3</sup> /h		918 / 918	
Sound pressure level <sup>4)</sup>		Cool - Heat (Hi / Lo / S-Lo)		dB(A)		33 / 27 / 24 - 35 / 28 / 25	
Dimensions		H x W x D		mm		235 x 750 x 370	
Outdoor Unit		CU-E9PD3EA		CU-E12QD3EA		CU-E18RBEA	
Dimensions <sup>5)</sup>		H x W x D		mm		622 x 824 x 299	
Piping connections		Liquid / Gas pipes		Inch		1/4 / 3/8	
Piping length range / Elevation difference (in/out)		m				3 - 20 / 15	

1) The specification listed on the table indicates values under the condition of 29 Pa (3.0 mmAq) which are applied for factory default setting. Change switch on PCB from Hi to Shi to have more than 6.0 mmAq. 2) The Sound pressure level of the units shows the value measured of a position of 1.5m below the unit with 1m duct on the suction side and 2 m duct on the discharge side. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 3) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping part. SEER and SCOP: For KIT-E9-PD3EA. INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY: Only for PRO Partners.



## PACi Standard. Low Static Pressure Hide Away Inverter+

KIT		Single Phase				Three Phase			
		KIT-60PNY1E5-C4	KIT-71PNY1E5-C4	KIT-100PNY1E5-C4	KIT-125PNY1E5-C4	KIT-100PNY1E8-C4	KIT-125PNY1E8-C4	KIT-140PNY1E8-C4	
Cooling capacity	Nominal	kW		6.0		7.1		10.0	
SEER <sup>2)</sup>	Nominal	4.7 <b>B</b>		5.0 <b>B</b>		5.3 <b>A</b>		5.2 <b>A</b>	
Heating capacity	Nominal	kW		6.0		7.1		10.0	
SCOP <sup>5)</sup>	Nominal	3.8 <b>A</b>		3.8 <b>A</b>		3.8 <b>A</b>		3.8 <b>A</b>	
Indoor Unit		S-60PN1E5A		S-71PN1E5A		S-100PN1E5A		S-125PN1E5A	
External static pressure <sup>4)</sup>		Nom (Min - Max)		Pa		50 (10 - 80)			
Air volume		Cool / Heat		m <sup>3</sup> /h		1,320 / 1,320		2,160 / 2,160	
Sound pressure level <sup>7)</sup>		Hi / Med / Lo		dB(A)		43 / 41 / 36		44 / 42 / 37	
Dimensions		H x W x D		mm		250 x 1,000 x 650		250 x 1,200 x 650	
Outdoor Unit		U-60PEY1E5		U-71PEY1E5		U-100PEY1E5		U-125PEY1E5	
Recommended fuse		A		20		25		30	
Power supply cable		mm <sup>2</sup>		2.5		4.0		6.0	
Dimensions		H x W x D		mm		569 x 790 x 285		996 x 940 x 340	
Piping connections		Liquid / Gas pipes		Inch		3/8 / 5/8			
Piping length range / Elevation difference (in/out) <sup>9)</sup>		m				5 - 50 / 30			

## PACi Elite. Low Static Pressure Hide Away Inverter+

KIT		Single Phase					Three Phase				
		KIT-50PN1E5-C4	KIT-60PN1E5-C4	KIT-71PN1E5-C4	KIT-100PN1E5-C4	KIT-125PN1E5-C4	KIT-140PN1E5-C4	KIT-71PN1E8-C4	KIT-100PN1E8-C4	KIT-125PN1E8-C4	KIT-140PN1E8-C4
Cooling capacity	Nominal	kW					5.0				
SEER <sup>1)</sup>	Nominal	4.6 <b>B</b>					5.5 <b>A</b>				
Heating capacity	Nominal	kW					5.6				
SCOP <sup>2)</sup>	Nominal	3.8 <b>A</b>					3.8 <b>A</b>				
Indoor Unit		S-50PN1E5A					S-60PN1E5A				
Ext static pressure <sup>3)</sup>		Nom (Min - Max)					Pa				
Air volume		Cool / Heat					m <sup>3</sup> /h				
Sound pressure level <sup>4)</sup>		Hi / Med / Lo					dB(A)				
Dimensions		H x W x D					mm				
Outdoor Unit		U-50PE1E5					U-60PE1E5A				
Recommended fuse		A					16				
Power supply cable		mm <sup>2</sup>					2.5				
Dimensions		H x W x D					mm				
Piping connect		Liquid / Gas pipes					Inch				
Piping length range / Elevation difference (in/out) <sup>5)</sup>		m					5 - 40 / 30				

1) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0.2, b=0.36, c=0.32 and d=0.03. The internal temperatures are taken at 27°C DB and 19°C WB. 2) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 3) Medium External static pressure setting from factory. 4) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5m 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.

### STANDARD

### ELITE







**PACI Standard. High Static Pressure Hide Away Inverter+**

			Single Phase				Three Phase		
KIT			KIT-60PFY1E5-C4	KIT-71PFY1E5-C4	KIT-100PFY1E5-C4	KIT-125PFY1E5-C4	KIT-100PFY1E8-C4	KIT-125PFY1E8-C4	KIT-140PFY1E8-C4
Cooling capacity	Nominal	kW	6.0	7.1	10.0	12.5	10.0	12.5	14.0
SEER <sup>1)</sup>	Nominal		5.4 <b>A</b>	5.3 <b>A</b>	5.4 <b>A</b>	—	5.2 <b>A</b>	—	—
Heating capacity	Nominal	kW	6.0	7.1	10.0	12.5	10.0	12.5	14.0
SCOP <sup>2)</sup>	Nominal		—	3.8 <b>A</b>	—	—	3.8 <b>A</b>	—	—
Indoor Unit			S-60PF1E5A	S-71PF1E5A	S-100PF1E5A	S-125PF1E5A	S-100PF1E5A	S-125PF1E5A	S-140PF1E5A
External static pressure <sup>3)</sup>	Nominal (Min - Max)	Pa	70 (10 - 150)		100 (10 - 150)	—	—	—	—
Air volume	Hi / Med / Lo	m <sup>3</sup> /h	1,260 / 1,140 / 900		1,920 / 1,560 / 1,260	2,040 / 1,740 / 1,380	1,920 / 1,560 / 1,260	2,040 / 1,740 / 1,380	2,160 / 1,920 / 1,500
Sound pressure level <sup>4)</sup>	Hi / Med / Lo	dB(A)	35 / 32 / 26		38 / 34 / 31	39 / 35 / 32	38 / 34 / 31	39 / 35 / 32	40 / 36 / 33
Dimensions	H x W x D	mm	290 x 1,000 x 700		—	—	290 x 1,400 x 700		
Outdoor Unit			U-60PEY1E5	U-71PEY1E5	U-100PEY1E5	U-125PEY1E5	U-100PEY1E8	U-125PEY1E8	U-140PEY1E8
Recommended fuse		A	20		25	30	16		
Power supply cable size		mm <sup>2</sup>	2.5		4.0	6.0	2.5		
Dimensions	H x W x D	mm	569 x 790 x 285		996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	1,416 x 940 x 340
Piping connections	Liquid / Gas pipes	Inch	—		—	3/8 / 5/8	—		
Piping length range / Elevation difference (in/out) <sup>5)</sup>		m	—		—	5 - 50 / 30	—		

**PACI Elite. High Static Pressure Hide Away Inverter+**

			Single Phase						Three Phase			
KIT			KIT-50PF1E5-C4	KIT-60PF1E5-C4	KIT-71PF1E5-C4	KIT-100PF1E5-C4	KIT-125PF1E5-C4	KIT-140PF1E5-C4	KIT-71PF1E8-C4	KIT-100PF1E8-C4	KIT-125PF1E8-C4	KIT-140PF1E8-C4
Cooling capacity	Nominal	kW	5.0	6.0	7.1	10.0	12.5	14.0	7.1	10.0	12.5	14.0
SEER <sup>1)</sup>	Nominal		5.7 <b>A+</b>	6.4 <b>A++</b>	—	5.8 <b>A+</b>	—	—	6.0 <b>A+</b>	5.7 <b>A+</b>	—	—
Heating capacity	Nominal	kW	5.6	7.0	8.0	11.2	14.0	16.0	8.0	11.2	14.0	16.0
SCOP <sup>2)</sup>	Nominal		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>	—	—
Indoor Unit			S-50PF1E5A	S-60PF1E5A	S-71PF1E5A	S-100PF1E5A	S-125PF1E5A	S-140PF1E5A	S-71PF1E5A	S-100PF1E5A	S-125PF1E5A	S-140PF1E5A
External static pressure <sup>3)</sup>	Nominal (Min - Max)	Pa	70 (10 - 150)			100 (10 - 150)		—	70 (10 - 150)	—	100 (10 - 150)	
Air volume	Hi / Med / Lo	m <sup>3</sup> /h	960 / 900 / 720	1,260 / 1,140 / 900		1,920/1,560/1,260	2,040/1,740/1,380	2,160/1,920/1,500	1,260/1,140/900	1,920/1,560/1,260	2,040/1,740/1,380	2,160/1,920/1,500
Sound pressure level <sup>4)</sup>	Hi / Med / Lo	dB(A)	34 / 30 / 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
Dimensions	H x W x D	mm	290 x 800 x 700	290 x 1,000 x 700		—	290 x 1,400 x 700	—	290 x 1,000 x 700	—	290 x 1,400 x 700	
Outdoor Unit			U-50PE1E5	U-60PE1E5A	U-71PE1E5A	U-100PE1E5A	U-125PE1E5A	U-140PE1E5A	U-71PE1E8A	U-100PE1E8A	U-125PE1E8A	U-140PE1E8A
Recommended fuse		A	16	20		25	30	—	16		—	—
Power supply cable size		mm <sup>2</sup>	—	2.5		4.0	6.0	—	2.5		—	—
Dimensions	H x W x D	mm	569 x 790 x 285	996 x 940 x 340	996 x 940 x 340	—	1,416 x 940 x 340	—	996 x 940 x 340	—	1,416 x 940 x 340	
Piping connections	Liquid / Gas pipes	Inch	1/4 / 1/2	—		—	—	3/8 / 5/8	—	—	—	—
Piping length range / Elevation difference (in/out) <sup>5)</sup>		m	5 - 40 / 30	5 - 50 / 30		—	5 - 75 / 30	—	5 - 50 / 30	—	5 - 75 / 30	

1) SEER is calculated in base Eurovent IPLV for SBEM for U1 indoor unit SEER=a(EER25)+b(EER50)+c(EER75)+d(EER100) where EER25, EER50, EER75 and EER100 are the EER measured value at 25%, 50%, 75% and 100% part load for temperatures 20, 25, 30 and 35°C DB, respectively. a, b, c and d are values assigned for an office type. These values are given as a=0.2, b=0.36, c=0.32 and d=0.03. The internal temperatures are taken at 27°C DB and 19°C WB. 2) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 3) Medium External static pressure setting from factory. 4) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5m 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.

**STANDARD**

**ELITE**

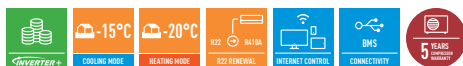


INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY: Only for PRO Partners. Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

**PACI. High Static Pressure Hide Away 20,0-25,0kW Inverter+**

			Three Phase	
KIT			KIT-250PE2E8-C4	
Cooling capacity	Nominal	kW	19.5	
Heating capacity	Nominal	kW	22.4	
Indoor Unit			S-200PE2E5	
External static pressure at shipment (with booster cable)		Pa	60 - 140 - 270	
Air volume	Hi / Med / Lo	m <sup>3</sup> /h	3,360 / 3,060 / 2,640	
Sound pressure level <sup>1)</sup>	Hi / Med / Lo	dB(A)	43 / 41 / 38	
Dimensions	H x W x D	mm / kg	479 x 1,453 x 1,205 / 100	
Outdoor Unit			U-200PE2E8A	
Recommended fuse		A	15	
Dimensions <sup>2)</sup>	H x W x D	mm / kg	1,500 x 980 x 370 / 127	
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	3/8 (9.52) / 1 (25.4)	
Piping length range / Elevation difference (in/out) <sup>5)</sup>		m	5 - 120 / 30	

1) The sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5m from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 2) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port. 3) When installing the outdoor unit at a higher position than the indoor unit.



A close-up photograph of a man with a light beard and mustache, wearing a white button-down shirt. He has his hands clasped in front of him and is looking directly at the camera with a slight smile. The entire image is overlaid with a semi-transparent blue filter. The word "Panasonic" is printed in white, bold, sans-serif font in the center of the image.

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heating & cooling solutions

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heating & cooling solutions

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Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of the other refrigerant.  
The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.

