Panasonic







Highlighted Features

Panasonic air conditioners provide more savings and more comfort

We believe that going green shouldn't compromise on comfort. That's why Panasonic is introducing the new Econavi system; combining human sensor and control program technology to detect and reduce energy waste by 38%.

Our super silent air conditioners guarantee the purest air to take care of you and your family. And, for a cleaner living environment, the new Nanoe helps purify the air as well as your surroundings. Together, these breakthrough technologies define what Panasonic's Eco Clean Life Innovation is all about – innovations that improve our environment while making life as comfortable as possible.



ENERGY SAVING



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



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



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



The A Inverter system provides energy savings of up to 50%. Both you and nature wins!



Panasonic R2 Rotary Compressor. Designed to withstand extreme conditions, it delivers high performance and efficiency.



Our heat pumps containing the new refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a components refrigerant, making it easy to recycle.

HIGH PERFORMANCE AND HEALTHY AIR



New Nanoe utilises nanotechnology fine particles to purify the air in the room. It works effectively on airborne and adhesive microorganisms such as bacteria, viruses and mould. Seal of Approval of the British Allergy Foundation.



Particulate matter (PM2,5) can be found suspended in the air, including dust, dirt, smoke and liquid droplets. Sized at 2,5µm, these particles are said to pose health problems as they can easily enter our lungs.



With Super Quiet technology our devices are much more quiet than a library (30dB(A)).



The Perfect Humidity Air controls the humidity level in the air to prevent over-dryness.



More comfort with Aerowings. Direct airflow to ceiling to create shower cooling effect by twin flap built in indoor.



Down to -10°C in cooling only mode. The air conditioner works in cooling only mode with an outdoor temperature of -10°C.



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



Heatcharge, this innovative, newly developed technology charges heat and uses it for heating. Thanks to this system, you can enjoy incredibly powerful, comfortable air conditioner heating.



Summer House, this innovative function keeps the house at 7/8°C to avoid freezing pipes during the winter. This function is highly appreciated in summer house or week end houses.



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



The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.

HIGH CONNECTIVITY



New Domestic integration to P-Line - CZ-CAPRA1.
Can connect all ranges to P-Line. Full control is now possible.



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.



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.



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



Panasonic Air Conditioning System Wins Prestigious Design Award. Panasonic is pleased to announce that its Etherea air conditioning system has won an iF 2013 Product Design Award.



Nanoe has been comprehensively tested in real-life chamber and demonstrated it is also effective against Allergy airborne particles. Due to this, Nanoe get the Seal of Approval of the British Allergy Foundation.





New R32 Refrigerant Gas

A 'small' change that changes everything

Not everyone is ready for change. Indeed, there are some who resist the future.

But at Panasonic we will keep believing in technologies that improve people's lives.

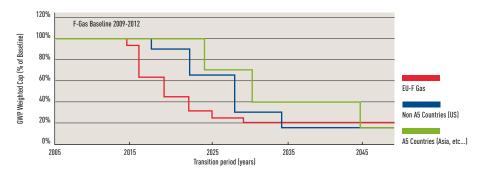
Which is why we are now presenting a new generation of air conditioners with R32, an innovative refrigerant in all ways imaginable: it is easy to install, environmentally friendly and saves energy. The result? Greater wellbeing for people and for the planet. Because there will always be people who resist change. But we say: Goodbye yesterday. Hello R32.

Today Panasonic. Tomorrow everyone.

European regulation CE 517/2014 makes the replacement of fluorinated gases (F-gases) compulsory, such as R410A, for environmental reasons, although it also grants a transition period from 2017 to 2030.

Must we wait? No. Our commitment to innovation is not hampered by dates.

Which is why we are jumping the gun and are now presenting our new generation of air conditioners that employ the R32 refrigerant.



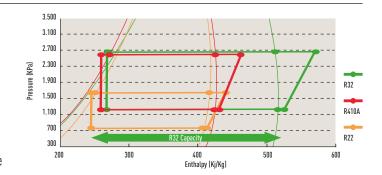
Goodbye yesterday

The new generation of air conditioners with R32 represents innovation in every way.

Shall we list them?

1. Installation innovation

- Extremely easy to install, practically the same as for the R410A.
 (Just remember to verify that the pressure gauge and vacuum pump are compatible with the R32)
- This refrigerant is 100% pure, which makes it easier to recycle and reuse



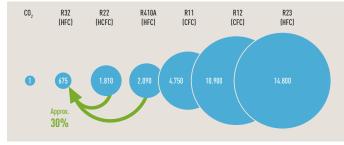
2. Environmental innovation

- Zero impact on the ozone layer
- 75% less impact on global warming

	R410A	R32
Composition	Blend of 50%. R32 + 50% R125	Pure R32. (No blend)
GWP (Global Warming Potential)	2.087,5	675
ODP (Ozone Depletion Potential)	0	0

R32 is a refrigerant with just one-third the global warming potential of R410A, meaning less risk of damage to the environment.

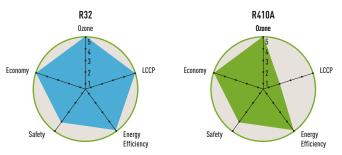
100 Year Global Warming Potential of Different Refrigerants



IPCC Fourth Assessment Report, Values for 100 years warming potential.

3. Economic and energy consumption innovation.

- Lower cost and greater savings:
 - 30% less refrigerant
- · Higher energy efficiency A+++ than R410A
- R32 consumes less energy when there are extreme temperatures outside



LCCP: Life Cycle Climate Performance (Lower global warming impact). Safety: Low toxicity level

And what does all this mean in practice?

Greater wellbeing for people and friendlier to the planet

Innovation is not just technology. It's an attitude

Leadership isn't something you can just get. You have to show it. Which is why at Panasonic we strive each and every day to make our air conditioners highly reliable and surprisingly efficient, with minimum noise impact and the lowest environmental footprint possible.

To all that we then add sophisticated and elegant designs. Our air conditioners are like that: innovative inside and beautiful outside. The best proof of our commitment is that we are moving ahead of the sector by including the R32 refrigerant in our entire range of domestic air conditioners, representing an enormous technological lead that manages to combine excellent comfort in the home and perfect harmony with the environment.









And what about tomorrow?

Our great challenge today: fighting to help the environment. How to make this possible? With greater energy efficiency and minimal energy consumption, so that we reduce the use of the planet's fossil fuels. But also by using advanced refrigerants such as R32, employed in our entire home range.

Because this has always been technology's purpose: To make the impossible, possible.

At Panasonic we have a firm commitment to healthier lifestyles and to reducing global warming on the planet.

For this reason, we will keep on presenting advanced, efficient and reliable solutions.

Because our commitment to innovation did not just come about today. It started when Panasonic was founded, in 1918. So we've been innovative for a long time now. And we want to take it even further.



New Etherea 2016. Perfect outside, perfect inside

New Etherea with Econavi intelligent sensor and new Nanoe air-purifying system: outstanding efficiency A+++, comfort (Super Quiet technology only 19 dB(A)) and healthy air combined with a breakthrough design

The new Etherea has an astonishingly slim design

A breakthrough design that combines perfectly with the most modern environments. We have selected the best materials and processes for a refined design. And now they're available in an elegant metallic or matt silver and matt or gloss white.

Discover how to achieve energy savings with the new Etherea A+++

Econavi Sensor technology reduce waste by adjusting the operation of the air conditioner to suit the requirements of the room. With just one touch of a button, you can save energy efficiently with uninterrupted cooling, comfort and convenience.

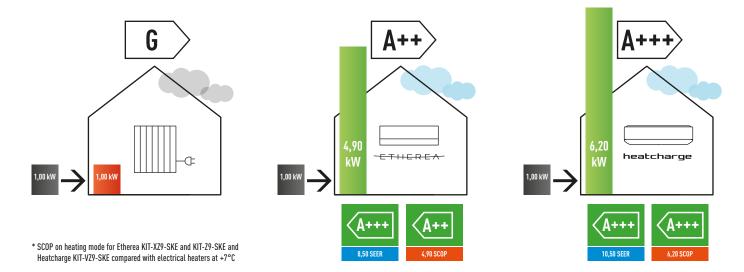
Get the best for your health with Etherea and nanoe™

Using nanoe™ with nano-technology, fine particles purify the air in the room. It works effectively on airborne and adhesive micro-organisms such as bacteria, viruses and mould thus ensuring a cleaner living environment.



The new Etherea has an astonishingly slim design: only 19,4 cm





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

Etherea and Heatcharge. Economical, environment-friendly operation high SCOP (Seasonal Coefficiency of Performance).

Original Panasonic Inverter technology and a high performance compressor provide top-class operating efficiency. This lets you enjoy lower electricity bills while contributing to environmental protection.



Seasonal Efficiency: New Energy Efficiency Label

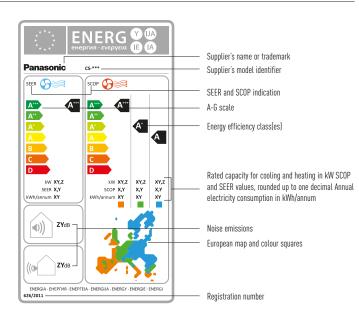
From January 2013, the energy performance calculation for air conditioning systems changed from an overall EU based standard of EER and COP to a new standard based on seasonal efficiencies of SEER and SCOP. These changes to the Energy Related Products Directive or ErP are designed to give consumers a better understanding of the real efficiency of air conditioning and heat pump systems whose nominal power rating does not exceed 12kW.

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

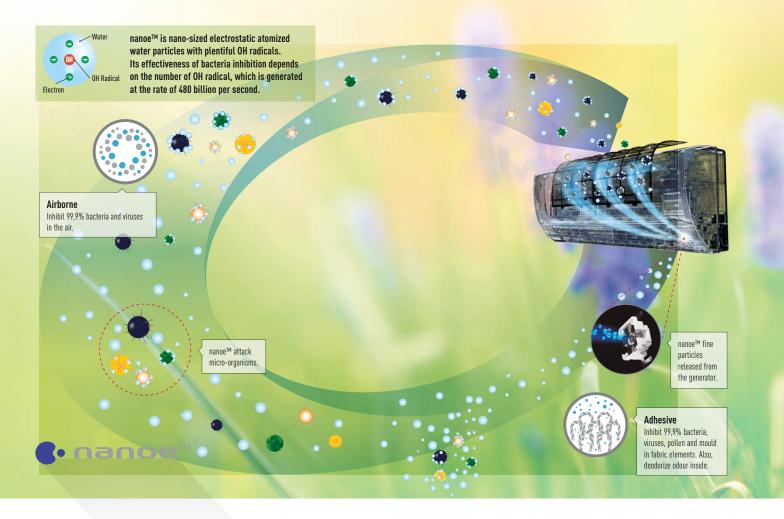
- 01 January 2013: A+++, A++, A+, A, B, C, D, E, F and G.
- 01 January 2015: A+++, A++, A+, A, B, C, D, E and F.
- 01 January 2017: A+++, A++, A+, A, B, C, D and E.
- 01 January 2019: A+++, A++, A+, A, B, C and D.

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.







New nano-sized electrostatic atomized water particles, nanoe[™], that improve air quality

Proven benefits of electrostatic atomized water particles, nanoe™, through experiments

The benefits range widely from inhibiting viruses and bacteria, inhibiting mould and allergens, moisturizing skin.

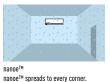
Experiments by universities and research institutions have proven the effects of nanoe™. The world is focusing its attention on this breakthrough technology that could be the key to the air purification.

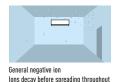
Characteristics of nanoe™ Technology

1. Long Life

6 times longer lifespan than general negative ion. nanoe™ contains moisture around 1.000 times more than general negative ion. Being contained in water partricles, it has a longer lifespan and is able to spread for a long distance.

Comparison of distribution in the room

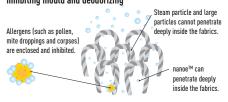




2. Water-originated

nanoe $^{\text{TM}}$ comes from condensed moisture in the air so that water replenishment for nanoe $^{\text{TM}}$ generation is not required.

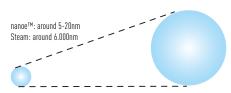
nanoe™ is tiny enough to penetrate into clothes for inhibiting mould and deodorizing



3. Microscopic Scale

Only one-billionth the size of a steam particle nanoe™ is much smaller than steam that can deeply penetrate into cloth fabrics to deodorize.

* 1nm (nanometer) = one billionth of meter



How does nanoe™ technology help you? INFLUENZA VIRUS 1. Virus / Bacteria / Pollen inhibition 99,9% Inhibits Virus. INHIBITED Virus / Bacteria nanoe™ approach and captur Virus / hacteria / Pollen is suspended in indoor air. those objects OH+H=H₂O

*The effectiveness of nanoe™

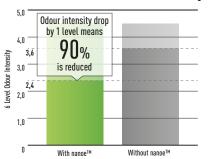
Tested co	ntents	Result	Testing	condition	Tested laboratory /	Report doc No.
		(deactivate)	Size Time		company	
Airborne	Virus (Coliphage)	99,7%	10m²	6h	Kitasato research center for Environmental science	KRCES 24_0300_1
	Bacteria (Staphylococcus aureus)	99,7%	10m²	4h	Kitasato research center for Environmental science	KRCES 24_0301_1
Adhesive	Virus (Coliphage)	99,8%	10m ²	8h	Japan food research laboratories	13001265005-01
	Virus (Influenza)	99,9%	1m²	2h	Kitasato research center for Environmental science	KRCES 21_0084_1
	Bacteria (Staphylococcus aureus)	99,1%	10m ²	8h	Japan food research laboratories	13044083003-01
	Tobacco odour	Deodorized in 2h	10m²	2h	Panasonic analysis center	BAA33- 130125-D01
	Cedar pollen	99%	45L	2h	Panasonic analysis center	E02-080303IN-03

2. Deodorization

nanoe™ metamorphose structure of

Virus / Bacteria / Pollen, (Remove hydrogen.)

REDUCE 90% The smell adhered at curtain and sofa are deodorized. ODOUR (TOBACCO SMELL) AFTER 120 Deodorization Effect for Adhering Odour (Tobacco) Odour intensity drop



Odour intensity 1,2 level down.

Completion inhibition

The deodorization effect will vary subject to the surrounding environment (temperature / humidity), operation time, types of smell and clothes.

· Test Laboratory: Panasonic Corporation Analysis Center. • Test Methodology: Verifying with 6-level odour intensity indication in 10m² 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.

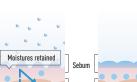
3. Moisturing Skin

Helps retain the moisture of the skin.

With nanoe™

nanoe™ hydrate the sebum on the skin to prevent the loss of moistures.

After 28 days Skin is hydrated that nanoe $\ensuremath{^{\text{TM}}}$ keeps the texture of the skin





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 new PM2,5 purifying filter catch virus & allergen, even micro size ones, to remove from the air and create clean & comfort indoor quality.

What's PM2,5 and how harmful

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

Discover how to achieve energy savings

When you are relaxing while watching television, the air conditioner's operation usually runs at a constant temperature setting.

Econavi detects and reduces this waste in all the right ways

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

Econavi is smart enough to locate and operate in all the right places to give you better 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 0N, 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 amount are measured for 2 hours in stable condition. At Panasonic Amenity Room (size:16,6m²). 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 waste of energy using the Human Activity Sensor and Sunlight Sensor. It 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 nower.



Absence Detection

Reduces cooling power when you are not around. 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)

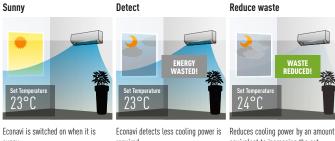
Econavi detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night. It reduces waste energy by reducing cooling under less sunny conditions.

When weather changes from sunny to cloudy/night, Econavi detects less sunlight intensity and determines less cooling power is required. If cooling power remains the same, energy will be wasted. Econavi detects this waste and 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 more sunnier conditions.

When weather changes from cloudy/night to sunny, Econavi detects more sunlight intensity and determines less heating power is required. If heating power remains the same, energy will be wasted. Econavi detects this waste and reduces heating power by an amount equivalent to decreasing the set temperature by 1°C.



SUNNY.

required.

equivalent to increasing the set temperature by 1°C.



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

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 works?

When Econavi detects low activity Offset Thermal Physiological +1,33 °C +1 NN °C Average Room Temperature (°C) Rhythmic temperature wave +0.66 °C - Result: More Energy Saving Thermal Sensation Votes (Mean +0.33 °C Votes) - Sensation vote: -0.1 - Result: Maintain within the 10 20 30 50 60 70 80 0 40 90 100 110 120 Time (min) comfortable range* ---- Set Temperature Temperature modulation

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 unconscious waste of energy and automatically adjusts cooling power to save energy efficiently whilst still providing uninterrupted cooling comfort and convenience.



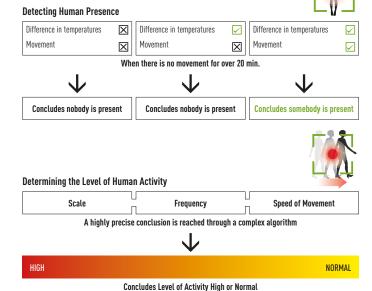




Human Activity SensorDetects human movements, changes in activity levels and human absence.

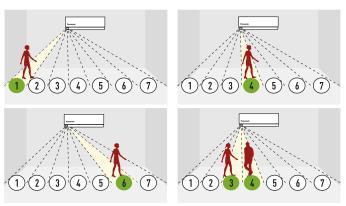
High-precision sensing

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



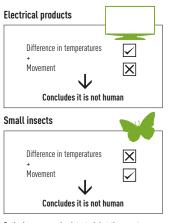
Sensor detection principle

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

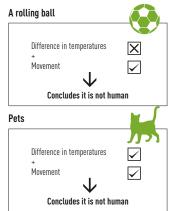


Differentiating objects

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



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

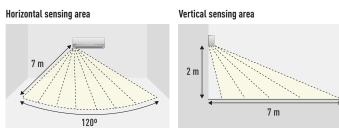


From the difference in temperatures and the nature of the object's movement, Econavi can determine if it's human*.

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

Coverage capabilities

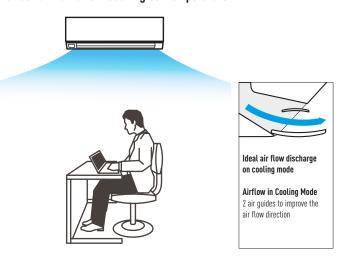
Human Activity Sensor covers a wider area due to its improved area detection function. The entire room is divided into 7 detection areas.



Aerowings

Direct airflow to ceiling to create shower cooling effect by twin flap built in indoor

Indirect airflow after reaching set temperature

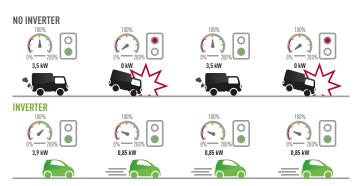


Inverter technology

The secret is flexibility

Panasonic Inverter air conditioners have the flexibility to vary the rotation speed of the compressor. This allows it to use less energy to maintain the set temperature while also being able to cool the room quicker at start up. So you can enjoy better savings on your electricity bills while maintaining cooling comfort

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



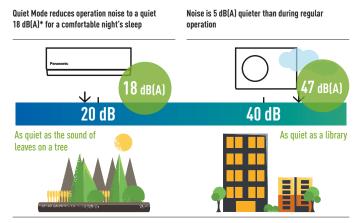
NO INVERTER Slow to start. Takes longer to reach the temperature set point. The temperature oscillates between the two extremes and never stabilises. The temperature falls and then rises quickly, leading to a consumption peak INVERTER Rapidly reaches the desired temperature. Adjusts the temperature; more comfort and greater sayings. Keeps the temperature comfortable all the time

Exceptional energy-saving performance. Reduces electricity

Panasonic Inverter air conditioners are designed to give you 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 18 dB(A)

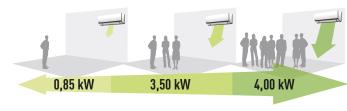
We have succeeded in making one of the most silent air conditioners on the market. Panasonic Inverter air conditioner's indoor operating noise has been reduced as the Inverter constantly varies its output power to enable more precise temperature control.



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.



Minimum Power

Compressor rotation speed: SLOW. When not required, the unit operates at low power to save energy.

Medium Power Normal Condition

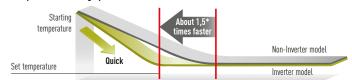
Maximum Power Compressor rotation speed: HIGH. When required, the unit operates at full power

Graph shows the 1,5HP Inverter model's wide power output range during cooling./ Graph shows the 1,5HP Inverter model's wide power output range during cooling.

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



* 1.5HP Inverter vs. non-Inverter, Outside room temperature: 35°C; setting temperature: 25°C

Comparison of Heating Speed Ouick Inverter model Set temperature Non-Inverter mode Starting temperature

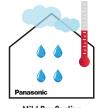
* Comparison of 1.0HP Inverter and Non-Inverter. Outside room temperature: 2°C ; Setting temperature: 25°C

Mild Dry Cooling

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







Before Cooling

Lowers room temperature while maintaining high humidity

Mild Dry Cooling

Panasonic



Heatcharge. Energy Charge System

Heating power and efficiency

- Energy Charge System. Heat storage unit which features Non-Stop heating and fast heating function
- Maximum efficiency and comfort with Econavi sunlight detection and human activity detection
- Nanoe air purifying system
- More powerful airflow to quickly reach the desired temperature

Panasonic's new full line-up of A+++ heat pumps

In response to the Kyoto Protocol, the European Union set some challenging targets for the reduction in greenhouse-gas emissions. By the year 2020, across the member states, the EU wants to have achieved the following objectives:

- A 20% cut in greenhouse gas emissions (from 1990 base levels)
- The share of renewables in the energy mix to increase by 20%
- An overall reduction of 20% in energy consumption



Powerful, reliable heating even at low ambient winter temperatures

When the air conditioner is operating, the compressor, which is the power source of the unit, generates heat. Until now, this heat was released into the atmosphere. Panasonic focused on this waste heat! Heatcharge is a unique, innovative Panasonic technology that stores this waste heat in the compressor and effectively uses it as heating energy. This lets you enjoy a new level of air conditioner heating power and efficiency.



Constant heating

Using stored heat provides stable heating with less drop in temperature.

Even when heating operation stops during defrost operation, stored heat continues to constantly warm the room. This eliminates the previous discomfort due to the temperature dropping when heating temporarily stops to ensure stable air conditioner heating.

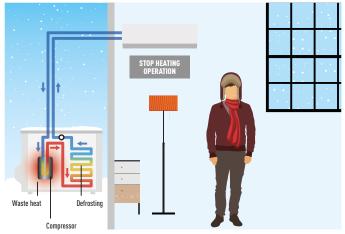




You can check the charge level with the remote control Press the Information button and the level is displayed in five stages (from 0 to 4).

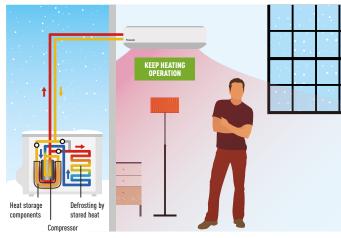
Conventional: The room gradually becomes cold

Defrost operation: About 11 to 15 min. Fall in room temperature: About 5 to 6 °C

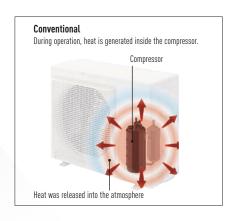


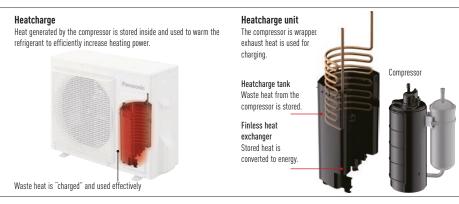
Heatcharge: The room is thoroughly warmed

Defrost operation: About 5 to 6 min. Fall in room temperature: About 1 to 2 °C



- * Defrost operation time and how low room temperature falls differ depending on the environment in which the unit is being used (how insulated and airtight and room is), operation conditions, and temperature conditions.
- * Output air temperature falls during defrost peration. How low room temperature falls differed depending on the environment in which the unit is being used (how insulated and airtight and room is), operation conditions, and temperature conditions.
- * In environments where a lot of frost accumulates, heating may stop during defrost operation.





Panasonic



Panasonic R2 Rotary Compressor

Making the world a cooler place since 1978.

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.



Why is the Panasonic R2 Rotary Compressor so efficient?

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

R2 rotary compressors utilize rolling piston technology.

The R2 compressor has been tested in extreme conditions.



R2 Compressor Value

About R2 Compressor

Built upon 36 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. The R2 Compressor delivers quality, comfort and peace of mind in homes around the world.

Panasonic's Rotary Compressors have been life tested in some of the world's most demanding environments. Proven for years many of the most demanding areas of the world, the R2 design is the compressor of choice by contractors and homeowners in these challenging climates. For the high performance that 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 million compressors 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 - DurableThe piston is made of unique high-grade steel that prevents wear and extends operation life.

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 does the Panasonic Rotary compressor support?

R2 compressors are found in air conditioning products featuring the very latest technology and offering the highest efficiency on the market today. Our R2 compressors are engineered specifically for this SEER efficiency requirement. Combined with the inherently simple design of the rotary, this results in a high desirable and impressively 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 a 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 the 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, compact size, and economical applied cost, without sacrificing the key performance requirements of high efficiency and low noise levels.

Which refrigerants can be used with Panasonic Rotary compressor?

Panasonic has R2 Rotary Compressors available for R32 and R410A applications.



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

- All Panasonic standard NKE, PKE, QKE, RKE and SKE units can be install on existing R22 pipings
- No need of additional accessories (only pipe reduces)
- Approximately 30% energy saving compare to R22 units





Panasonic are doing our part

We at Panasonic are also doing our part – recognising that all finances are under pressure at the moment. Panasonic has developed a clean and cost effective solution to enable this latest legislation to be introduced with as minimum an effect on businesses and cash reserves as possible.

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

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

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

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.

Guidance on re-using of existing R22 piping for a new R410A installation

1. Precaution

The existing R22 piping can be re-used for a R410A system installation if the following conditions are met and the piping are finally verified to be:

- Dry (no moisture remained in the piping)
- Clean (no dust remained in the piping)
- Tight (no refrigerant leak at the joining and piping)

2. Conditions

• Recover the refrigerant and oil.

Operate "force cooling" according to the recommended operation time, regardless of the piping length.

Single split: 10min.

Multi split: 30min.

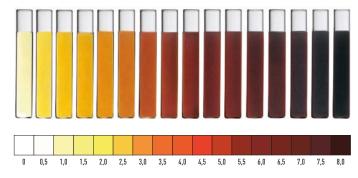
After that, carry out "pump down" to recover the refrigerant and oil from the existing R22 system

* Note: If pump down operation is not possible due to the malfunction of the system, flush and wash the existing piping to collect back the oil and dirt inside the system.

- Check the oil condition.
- If the oil contains dirt, wash the existing pipes
- Check the oil color.

After pump down, use a cotton bud to wipe the oil from the existing pipe. If the oil color is higher than ASTM3, use a new pipe as re-use of old piping is not allowed

Deterioration Criteria for Refrigerant Oil



· Check pipe thickness.

Make sure that the pipe thickness is more than 0,8mm.

If the thickness is less than 0.8mm, use a new pipe

- Rework the flare for R410A connection.

Do not reuse the old flare nuts.

Make sure to use the new flare nuts attached to the R410a system

* Note: If the existing piping size is $1/4^{\circ}$ (6,35mm) and $1/2^{\circ}$ [12,7mm), and the new R410a system is $1/4^{\circ}$ (6,35mm) and $3/8^{\circ}$ (9,52mm), use a pipe reducer connected at indoor and outdoor unit.

3. Applicable Model

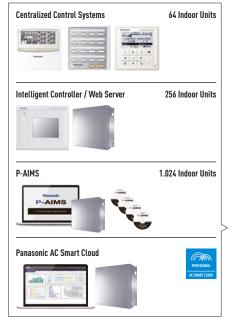
Panasonic single split room air conditioner from CS/CU-RE/UE/YE/XE/CE/NE/E*NKE and PKE series onwards.

Panasonic multi split room air conditioner from CU-2E/3E/4E/5PBE series onwards.



Control & Connectivity

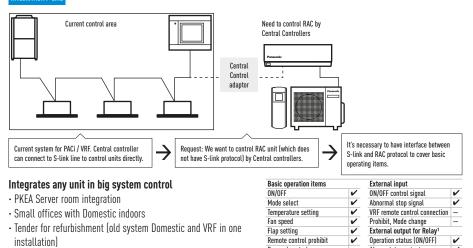
Aware of the importance of both control and connectivity in offering the best comfort at the lowest price, Panasonic offers its customers cutting-edge technology, specially designed to ensure our air conditioning systems deliver maximum performance. You can properly manage the air conditioning and perform comprehensive monitoring and control, with all of the features the remote control provides at home, from anywhere in the world thanks to the internet applications Panasonic has created for you.



INTEGRATION P-1 INE

New Domestic integration to P-Line - CZ-CAPRA1

Can connect all ranges to P-Line. Full control is now possible.



Demand control

1) Because current CN-CNT connector can not provide the power for external output relay, additional power input for external relay is necessary.

Alarm status output



Internet Control

Control your air conditioning from wherever you are. Control your comfort and efficiency with the lowest energy consumption.

Reference: PAW-IR-WIFI-1

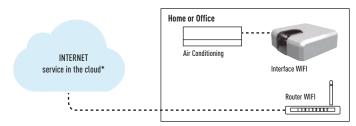
IntesisHome 🦪

IntesisHome IS-IR-WIFI-1 device is an easy to install and small device which allows connectivity with the IntesisHome application and connects with your climate system using Infrared (IR). The device enables the control of the Panasonic RAC units without CN-CNT connector (RE, UE, GFE and Free Multi lines).

Specific features: \cdot ON/OFF, mode, set point, fan speed, vanes and room temperature \cdot Easy installation (no special electrical work needed) \cdot Feedback to the IntesisHome system when changes are made from the infrared remote controller.

General IntesisHome features: • Calendar scheduler • Scenes • Control from anywhere

Several languages



* Functionalities depend on the license. The information indicated above is subject to changes and updates Reference: PA-AC-WIFI-1 For Etherea and Heatcharge, with full communication. Reference: PAW-IR-WIFI-1 by Infra red sensor, only ON/OFF and temperature setting.



Connectivity. Control by BMS

Great flexibility for integration into your IntesisHome, KNX, EnOcean, Modbus and BacNet projects allows fully bi-directional monitoring and control of all the functioning parameters.

Reference: PAW-AC-KNX-1i

- Quick installation and possibility of hidden installation
- External power not required
- Direct connection to the AC indoor unit (split unit or Multi split unit)
- Fully KNX compatible. Control and monitoring, from sensors or gateways, of the internal variables of the indoor unit and error codes and indication
- Use the air conditioner ambient temperature or the one measured by a KNX temperature sensor or Thermostat
- AC unit can be controlled simultaneously by the remote control of the AC unit and by KNX devices
- · Advanced control functions: use it as a room controller
- 4 binary inputs. They work as standard KNX binary inputs as well as being used to control the AC directly

Reference: PAW-AC-MBS-1

- Quick installation and possibility of hidden installation
- External power not required
- Direct connection to the AC indoor unit (split unit or Multi split unit)
- Fully Modbus compatible. Control and monitoring, from sensors or gateways, of the internal variables of the indoor unit and error codes and indication
- Use the air conditioner ambient temperature or the one measured by a Modbus temperature sensor or Thermostat
- AC unit can be controlled simultaneously by the remote control of the AC unit and by Modbus devices
- · Advanced control functions: use it as a room controller
- 4 binary inputs. They work as standard Modbus binary inputs as well as being used to control the AC directly

Reference: PAW-AC-ENO-1i





- External power not required
- Direct connection to the AC indoor unit (split unit)
- Fully EnOcean compatible. Control and monitoring, from sensors or gateways, of the internal variables of the indoor unit and error codes and indication
- Use the air conditioner ambient temperature or the one measured by an EnOcean temperature sensor or Thermostat
- AC unit can be controlled simultaneously by the remote control of the AC unit and by EnOcean devices
- Advanced control functions: use it as a room controller
- \cdot 4 binary inputs. They work as standard EnOcean binary inputs as well as being used to control the AC directly

Reference: PAW-AC-BAC-1



This interface allows a complete and natural integration of Panasonic air conditioners into either BACnet IP or MS/TP networks.

- Quick installation and possibility of hidden installation
- · External power not required
- · Direct connection to the AC indoor unit
- Total Control and Supervision. Real states of the AC unit's internal variables
- Allows using simultaneously the IR and wired remote controls and BACnet.

Reference: PAW-AC-DIO

Dry contact ON/OFF Interface. Panasonic has developed for hotels applications a dry contact PCB which works with Etherea, RE, UE and YE indoor units in order to control simply the unit centrally.



- ON/OFF signal by 3rd party BMS
- PCB connected to CN-RMT port on Indoor Unit PCB

Easy connectivity

CN-CNT easy to access. Previous Etherea indoor unit had to be dismantle to reach connector.

Can easier connect:

Wi-Fi accessory / KNX / Modbus / New CZ-CAPRA1 to integrate to PACi control.







Modbus°

Model name	Interface
CZ-CAPRA1	NEW Domestic with CZ-CNT port integration to PACi and ECOi (available in June 2016)
PA-AC-WIFI-1	Interface for IntesisHome for Etherea, Heatcharge and Flagship, with full communication
PAW-IR-WIFI-1	Interface for IntesisHome by Infra red sensor, only ON/OFF and temperature setting
PAW-AC-ENO-1i	Interface for En-ocean (Etherea, 4-Way 60x60 cassette and Low static pressure hide away)
PAW-AC-KNX-1i	Interface for KNX (Etherea, 4-Way 60x60 cassette and Low static pressure hide away)
PAW-AC-MBS-1	Interface for Modbus (Etherea, 4-Way 60x60 cassette and Low static pressure hide away)
PAW-AC-BAC-1	Interface for BacNet (Etherea, 4-Way 60x60 cassette and Low static pressure hide away)
PAW-AC-HEAT-1	Heating only PCB for Etherea, 4-Way 60x60 cassette and Low static pressure hide away
PAW-AC-DIO	PCB for wall mounted with dry contacts, On/Off, Error message (all QKE and RKE wall mounted
PAW-SMSCONTROL	Control of the Etherea, Flagship and Heatcharge by SMS (need additional SIM card)

Domestic Air Conditioner Range

1x1 and Multi Split Kits		2,2 kW	2,8 kW	3,2 kW
Wall Mounted Etherea Inverter+ Silver Plated • R32 GAS	NEW R32	KIT-XZ7-SKE	KIT-XZ9-SKE	KIT-XZ12-SKE
Wall Mounted Etherea Inverter+ White • R32 GAS	NEW R32	KIT-27-SKEG / KIT-27-SKEM	KIT-29-SKEG / KIT-29-SKEM	KIT-Z12-SKEG / KIT-Z12-SKEM
Wall Mounted Etherea Inverter+ Silver		KIT-XE7-OKE	KIT-XE9-QKE	KIT-XE12-QKE
Wall Mounted Etherea Inverter+ White		KIT-E7-OKE	KIT-E9-OKE	KIT-E12-QKE
Wall Mounted VZ Inverter+ • R32 GAS	NEW R32		KIT-VZ9-SKE	KIT-VZ12-SKE
Wall Mounted TZ Type Standard Inverter • R32 GAS	NEW R32		KIT-TZ9-SKE	KIT-TZ12-SKE
Wall Mounted RE Type Standard Inverter			KIT-RE9-RKE	KIT-RE12-RKE
Wall Mounted UZ Type Standard Inverter • R32 GAS	NEW R32		KIT-UZ9-SKE	KIT-UZ12-SKE
Wall Mounted UE Type Standard Inverter			KIT-UE9-RKE	KIT-UE12-RKE
Wall Mounted PZ Type Standard Inverter • R32 GAS	NEW R32		KIT-PZ9-SKE	KIT-PZ12-SKE
Wall Mounted PE Type Standard Inverter			KIT-PE9-RKE	KIT-PE12-RKE
Wall Mounted Professional Inverter -15°C			KIT-E9-PKEA	KIT-E12-PKEA
Floor Console Type Inverter+			KIT-E9-PFE	KIT-E12-PFE
4-Way 60x60 Cassette Standard Inverter			KIT-E9-PB4EA	KIT-E12-PB4EA
Low Static Pressure Hide Away Standard Inverter			KIT-E9-PD3EA	KIT-E12-QD3EA

4,5 kW	5,0 kW	6,0 kW	6,5 kW	8,0 kW
	KIT-XZ18-SKE			
- 1				
KIT-Z15-SKEG / KIT-Z15-SKEM	KIT-Z18-SKEG / KIT-Z18-SKEM			
	KIT-XE18-QKE			
KIT-E15-QKE	KIT-E18-QKE	KIT-E21-QKE	KIT-E24-QKE	KIT-E28-QKE
KIT-TZ15-SKE	KIT-TZ18-SKE		KIT-TZ24-SKE	
-	_		_	
KIT-RE15-RKE	KIT-RE18-RKE		KIT-RE24-RKE	
	_			
	KIT-UZ18-SKE			
	KIT-UE18-RKE			
	KIT-PZ18-SKE			
	=			
KIT-E15-PKEA	KIT-E18-PKEA			
	- J-			
	KIT-E18-PFE			
	KIT-E18-RB4EA	KIT-E21-RB4EA		
	KIT-E18-RD3EA			

FNFRGY SAVING



Econavi

The sensor determines the human activity level and the position in the room and adjust the air flow

orientation for maximum comfort and maximum savings, and detects changes in sunlight intensity and judges whether it is sunny or cloudy/night. It reduces unnecessary heating under more sunlight conditions.



Econavi Sunlight Detection

Detects changes in sunlight intensity and judges whether it is sunny or cloudy/night. It reduces the

heating and therefore wasted energy under more sunlight conditions.



Inverter Plus System

Inverter plus products improve on the characteristics of standard Inverter air conditioners

by over 20%. This means 20% less consumption and 20% off your electric bill. Inverter plus is also A class on cooling and heating mode.



Inverter system

The Inverter range provides greater efficiency, more comfort. Provides more precise temperature

control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels.



R2 Rotary Compressor

Panasonic R2 Rotary Compressor. Designed to withstand extreme conditions, it delivers high

performance and efficiency.



Refrigerant R32

Our heat pumps containing the new refrigerant R32 show a drastic reduction in the value of Global

Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a components refrigerant, making it easy to recycle.

HIGH PERFORMANCE AND HEALTHY AIR



Nanoe

Nanoe utilises nano-technology fine particles to purify the air in the room. It works effectively on

airborne and adhesive micro-organisms such as bacteria, viruses and mould thus ensuring a cleaner living environment. Seal of Approval of the British Allergy Foundation.



PM2.5 Filter

Particulate matter (PM2,5) can be found suspended in the air, including dust, dirt, smoke and liquid

droplets. Sized at 2,5µm, these particles are said to pose health problems as they can easily enter our lungs.



Antiallergy Properties

System is equipped with antiallergy properties



Super Quiet

Thanks to its latest generation compressor and its twin blade fan, our outdoor unit is one of the most

silent on the market. The indoor unit emits an almost imperceptible 18 dB(A).



Mild Dry Cooling

Fine control helps prevent a rapid decrease in room humidity while maintaining the set temperature.

Maintains an RH* up to 10% higher than cooling operation (*RH: Relative Humidity). Ideal when sleeping with the air conditioner on.



Aerowings

More comfort with Aerowings. Direct airflow to ceiling to create shower cooling effect by twin flap built in indoor.



Down to -10°C in cooling only mode

The air conditioner works in cooling only mode with an outdoor temperature of -10°C.



Down to -15°C in heating mode

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



Heatcharge

This innovative, newly developed technology charges heat and uses it for heating. Thanks to this

system, you can enjoy incredibly powerful, comfortable air conditioner heating.



Summer House

This innovative function keeps the house at 7/8°C to avoid freezing pipes during the winter.

This function is highly appreciated in summer house or week end houses.



R22 Renewal

The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst





R410A/R22 Renewal

The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.



Odour-removing function

Allows the exchanger to be cleaned, preventing possible odours. While this function is connected,

the fan also remains off momentarily to avoid unpleasant odours while the exchanger is being cleaned.



Removable, washable panel

The front panel is easy to keep clean. It can be removed quickly in one single step and can be

washed in water. A clean front panel ensures smoother, more efficient operation, which can save energy.



Powerful Mode

The rapid and effective powerful mode is ideal for when you come home on the hottest or coldest

days. It works at maximum power to reach the desired temperature in just 15 minutes.



Soft Dry Operation Mode

The soft dry mode eliminates excess moisture with a soft breeze and provides a sense of wellbeing without much change in temperature.



Personal Airflow Creation

Permits the air direction to be adjusted vertically and horizontally. This feature can be conveniently

selected by remote control.



Automatic Vertical Airflow Control

The flap swings up and down automatically. The flow can also be set at a fixed angle with the remote control.



Manual Horizontal Airflow Control



Auto Mode (Inverter)

Automatically changes from cooling to heating depending on the set temperature for the room.



Simple Auto Changeover

When the difference between the measured temperature and the set temperature is 3°C or

more, it automatically switches the current operation mode to heating or cooling mode necessary to keep the temperature at a constantly comfortable level.



Hot Start Mode

At the start of heating cycle and after defrost cycle, the indoor fan will start up once the indoor

heat exchanger is warm.



Real time clock with dual ON&OFF timer

This feature enables you to preset two different sets of start/stop operation timer (hour and minute)

within a 24-hour time frame.



Real time clock with single ON&OFF timer

The exact operating time (hour and minute) can be set in advance. From here on, the unit will operate

in accordance to these preset hours every day until the system is reset.



LCD Wireless Remote Controller



Automatic Restart

This function permits automatic restarting if safe mode operation has stopped for some unusual reason, such

as after a power cut. As soon as the power is back, the unit restarts with the parameters selected before it stopped.



Long Piping

Indicates the maximum length of pipe between the outdoor unit and the indoor unit(s). The distances

permitted, demonstrate the installations possible.



Top-Panel Maintenance Access

Maintenance of an outdoor unit used to be quite a tedious task. Now, with the possibility of removing

the top cover, maintenance is quick and easy.



Self-Diagnosis Function

With this function the unit carries out a process self-diagnosis when a particular function does not work correctly. This allows faster servicing.

HIGH CONNECTIVITY



CZ-CAPRA1: CZ-CNT port integration to PACi and ECOi

New Domestic integration to P-Line. Can connect ranges to P-Line. Full control is now possible.



Internet Control

Internet Control is a next generation system providing 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.



Easy control by BMS

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.



5 Years Warranty.

Panasonic guarantees the compressors in the entire range for five years.



	MODELS	WALL MOUNTED ETHEREA INVERTER+ SILVER • R32 GAS	WALL MOUNTED ETHEREA INVERTER+ WHITE • R32 GAS	WALL MOUNTED ETHEREA INVERTER+ SILVER	WALL MOUNTED ETHEREA INVERTER+ WHITE	WALL MOUNTED VZ INVERTER+ • R32 GAS	WALL MOUNTED TZ TYPE STANDARD INVERTER • R32 GAS	WALL MOUNTED RE TYPE STANDARD INVERTER	WALL MOUNTED UZ TYPE STANDARD INVERTER • R32 GAS	WALL MOUNTED UE TYPE STANDARD INVERTER	WALL MOUNTED PZ TYPE STANDARD INVERTER • R32 GAS	WALL MOUNTED PE TYPE STANDARD INVERTER	WALL MOUNTED PROFESSIONAL INVERTER -15°C	FLOOR CONSOLE TYPE INVERTER+	4-WAY 60X60 CASSETTE INVERTER	LOW STATIC PRESSURE H AWAY INVERTER
30 70	Econavi	~	V	V	~	V										
38%	Econavi Sunlight Detection			~	~	V										
_	Inverter+ system	~	~	~	~	~							~	~		
b men	Inverter system						~	~	~	~	~	~			~	~
_	R2 Rotary Compressor	~	V	V	~	V	~	V	~	V	~	V	V	V	V	~
32	Refrigerant R32	~	V			V	~		~		~					
99%	Nanoe	~	V	~	V	V										
noe	PM2,5 Filter						V		V							
	Antiallergy properties	~	~	✓ 3rd party tested	✓ 3rd party tested	·		~		~						
=	Super Quiet*	✓ 19 dB(A) for XZ7, XZ9 and XZ12	✓ 19 dB(A) for Z7, Z9 and Z12	✓ 20 dB(A) for XE7, XE9 and XE12	≥ 20 dB(A) for E7, E9 and E12	~	✓ 20 dB(A) for TZ9 and TZ12	✓ 22 dB(A) for RE9-12	✓ 20 dB(A) for UZ9 and UZ12		✓ 20 dB(A) for PZ9 and PZ12	✓ 22 dB(A)	✓ 23 dB(A) for E9	≥ 23 dB(A) for E9	✓ 23 dB(A) for E9 and E12	
CONTROL	Mild Dry Cooling	V	V	V	V					OLIZ						
<u>~</u>]	Aerowings	~	~													
IO°C	Down to -10°C in cooling only			~	~								✔ -15°C		~	~
	Down to -15°C in heating mode			~	~			~		✔ -10°C		✓ -10°C	~	✔ -20°C	✓ -10°C	✔ -10°C
HOOK	Heatcharge					~										
E.	Summer House					~										
BATION.	R22 renewal			~	~	v		~		~		~	~	~	~	~
) 9 ==	R410A/R22 Renewal	~	~				V		~		~					
\Rightarrow	Odour-removing function	~	~	V	~	~	~	V	~	~	~	V	V	V	V	~
No.	Removable, washable panel	~	~	~	~	~	~	~	~	~	~	~	~	~		
) S	Powerful mode	~	~	~	~	~							~	~	~	~
7	Soft dry operation mode	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
; •	Personal airflow creation	~	~	~	~	~	✓ For TZ18 and TZ24	For RE18 and RE24								
	Automatic vertical airflow control						For TZ9, TZ12 and TZ15	RE12 and	For UZ9 and UZ12	For UE9 and UE12	~	~		~	~	
	Manual horizontal airflow control						For TZ9, TZ12 and TZ15	RE12 and	For UZ9 and UZ12	✓ For UE9 and UE12	~	~		~		
¢	AUTO mode (Inverter)	~	~	~	~	~	~	RE15	~	~	~	~	~	~	~	~
>°	Simple Auto Changeover	~	~	~	~	~	~	~	~	~	~	~				
-	Hot start mode	~	~	~	~	V	~	~	~	~	~	~	~	~	~	V
24	Real time clock with dual ON&OFF timer	V	V	~	V	V							V			
24	Real time clock with single ON&OFF timer						V	V	V	~	V	V		V	~	~
	LCD Wireless remote controller	~	~	~	~	V	~	~	~	~	~	~	~	~	~	
→	Automatic restart	~	~	~	~	V	~	~	~	~	~	~	~	~	~	V
	Long piping	✓ 15 m 20 m (XZ18)	✓ 15 m 20 m (Z18)	✓ 15 m 20 m (XE18)	✓ 15 m 20 m (E18-21)	✓ 15 m	✓ 15 m 20 m (TZ18)	✓ 15 m 20 m (RE18)	✓ 15 m	✓ 15 m	✓ 15 m	✓ 15 m	✓ 15 m 20 m (E18)	✓ 15 m 20 m (E18)	✓ 20 m 30 m (E18-21)	✓ 20 m 30 m (E
	Top-Panel maintenance access	~	~	~	30 m (E24-28)	·	30 m (TZ24)	30 m (RE24)	~	~	~	~	~	~	~	~
	Self-diagnosis function	~	~	~	~	v	~	~	~	~	~	~	~	~	~	~
8	CZ-CAPRA1: CZ-CNT port integration to PACi and ECOi	~	~	~	~	·	~						~		~	~
ON P-LINE	Internet Control	~	~	~	~	·	~	~	~	~	~			~		
ES TROUT	Easy control by BMS	~	~	~	~	v	✓ PCB Dry Contact	✓ PCB Dry Contact	~		~		~		~	~
	Warranty on the compressor	V	V	V	V	V	v	V	V	V	V	V	V	V	V	V

WALL MOUNTED ETHEREA

INVERTER+ SILVER / WHITE

• R32 GAS







ETHEREA

Etherea with enhanced Econavi sensor and new Nanoe air-purifying system: outstanding efficiency, comfort and healthy air combined with state-of-the-art design

Econavi features an in-built human activity sensor and a new sunlight detection technology to adjust output thereby giving you the best comfort at anytime whilst saving energy. Econavi not only optimizes air flow orientation and volume according to human presence, it also reduces cooling power automatically by no/less sunshine. With Econavi, energy savings of up to 38% are possible, whilst increasing your comfort.

Furthermore, the Nanoe revolutionary air-purifying system utilises nano technology fine particles to remove and deactivate 99% of both airborne and adhesive micro-organisms like bacteria, viruses and mould.

Technical focus

- NEW! R32 gas environmental friendly
- NEW! design
- Maximum efficiency and comfort with Econavi, now with sunlight detection
- Nanoe air purifying system, 99% effective on both airborne and adhesive mould, viruses, bacteria and pollen allergen
- Optional smartphone control
- · Mild Dry Cooling: prevent a rapid decrease in room humidity
- Super Quiet! Only 19 dB(A), equivalent to night-time in the countryside (XZ7, XZ9, XZ12, Z7, Z9 and Z12)
- More powerful airflow to quickly reach the desired temperature

Kit Silver*			KIT-XZ7-SKE	KIT-XZ9-SKE	KIT-XZ12-SKE	_	KIT-XZ18-SKE
Kit White Gloss (SKEG)** / Mat	t (SKEM)*		KIT-Z7-SKEG / -SKEM	KIT-Z9-SKEG / -SKEM	KIT-Z12-SKEG / -SKEM	KIT-Z15-SKEG / -SKEM	KIT-Z18-SKEG / -SKEM
Cooling capacity	Nominal (Min - Max)	kW	2,05 (0,75 - 2,40)	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)	4,20 (0,85 - 5,00)	5,00 (0,98 - 5,60)
EER 1)	Nominal (Min - Max)	W/W	4,56 (3,13 - 4,32) A	4,76 (3,54 - 4,20) A	4,17 (3,54 - 3,77) A	3,39 (3,27 - 3,18) A	3,33 (3,50 - 3,26) A
SEER	Nominal	W/W	7,50 A++	8,50 A+++	8,50 A+++	6,90 A++	7,30 A
Pdesign (cooling)		kW	2,1	2,5	3,5	4,2	5,0
Power input cooling	Nominal (Min - Max)	kW	0,450 (0,240 - 0,555)	0,525 (0,240 - 0,715)	0,840 (0,240 - 1,060)	1,240 (0,260 - 1,570)	1,500 (0,280 - 1,720)
Annual electricity consumption (cooling) ²⁾	kWh/a	225	263	420	620	750
Heating capacity	Nominal (Min - Max)	kW	2,80 (0,70 - 4,00)	3,40 (0,80 - 5,00)	4,00 (0,80 - 5,80)	5,30 (0,80 - 6,80)	5,80 (0,98 - 7,50)
Heating capacity at -7°C	Nominal	kW	2,38	2,95	3,40	4,11	4,66
COP 1)	Nominal (Min - Max)	W/W	4,52 (3,89 - 4,04) A	4,72 (4,44 - 3,94) A	4,35 (4,44 - 3,82) A	3,68 (4,21 - 3,51) A	3,41 (2,88 - 3,19) B
SCOP	Nominal	W/W	4,70 A++	4,90 A++	4,90 A++	4,00 A+	4,40 A+
Pdesign at -10°C		kW	2,1	2,7	3,2	3,6	4,2
Power input heating	Nominal (Min - Max)	kW	0,620 (0,180 - 0,990)	0,720 (0,180 - 1,270)	0,920 (0,180 - 1,520)	1,440 (0,190 - 1,940)	1,700 (0,340 - 2,350)
Annual electricity consumption (I	neating) ²⁾	kWh/a	626	771	914	1.260	1.336
Indoor Unit Silver			CS-XZ7SKEW	CS-XZ9SKEW	CS-XZ12SKEW	-	CS-XZ18SKEW
Indoor Unit White Gloss (SKEW)) / Matt (SKEW-M)		CS-Z7SKEW / SKEW-M	CS-Z9SKEW / SKEW-M	CS-Z12SKEW / SKEW-M	CS-Z15SKEW / SKEW-M	CS-Z18SKEW / SKEW-M
Power source		V	230	230	230	230	230
Recommended fuse		Α	16	16	16	16	16
Connection indoor / outdoor		mm ²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5
Air volume	Cooling / Heating	m³/h	594 / 648	600 / 678	642 / 720	672 / 732	702 / 744
Moisture removal volume		l/h	1,3	1,5	2,0	2,4	2,8
Sound pressure level 3)	Cooling — Heating (Hi / Lo / Q-Lo)	dB(A)	37 / 24 / 19 — 38 / 25 / 19	39 / 25 / 19 — 40 / 27 / 19	42 / 28 / 19 — 42 / 33 / 19	43 / 31 / 25 — 43 / 35 / 29	44 / 37 / 34 — 44 / 37 / 34
Dimensions / Net weight	H x W x D	mm / kg	295 x 919 x 194 / 9	295 x 919 x 194 / 10			
Outdoor			CU-Z7SKE	CU-Z9SKE	CU-Z12SKE	CU-Z15SKE	CU-Z18SKE
Air volume	Cooling / Heating	m³/h	1.614 / 1.614	1.722 / 1.722	2.064 / 2.136	1.998 / 2.022	2.352/ 2.274
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	45 / 46	46 / 47	48 / 50	49 / 51	47 47
Dimensions 4) / Net weight	H x W x D	mm / kg	542 x 780 x 289 / 30	542 x 780 x 289 / 33	619 x 824 x 299 / 35	619 x 824 x 299 / 32	695 x 875 x 320 / 46
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Piping length range / Elevation d		m	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 20 / 15
Pipe length for additional gas / A	dditional gas amount	m / g/m	7,5 / 10	7,5 / 10	7,5 / 10	7,5 / 10	7,5 / 15
R32 Refrigerant amount		kg	0,76	0,85	0,91	0,87	1,03
Operating range	Cooling / Heating Min ~ Max	°C	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24

Accessories		Accessories	
PAW-AC-WIFI-1	Full bidirectional Wifi interface for Internet control	CZ-RD514C	Wired remote control for wall type
PAW-IR-WIFI-1	IR Wifi interface for Internet control	CZ-CAPRA1	H Generation interface to ECOi control integration (available in June 2016)

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 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. 4) Add 70mm for piping port. 5) When installing the outdoor unit at a higher position than the indoor unit.

* Available in June 2016. ** Available in April 2016.











































WALL MOUNTED ETHEREA INVERTER+ SILVER PLATED / WHITE





ETHEREA

Etherea with enhanced Econavi sensor and new Nanoe air-purifying system: outstanding efficiency, comfort and healthy air combined with state-of-the-art

Econavi features an in-built human activity sensor and a new sunlight detection technology to adjust output thereby giving you the best comfort at anytime whilst saving energy. Econavi not only optimizes air flow orientation and volume according to human presence, it also reduces cooling power automatically by no/less sunshine. With Econavi, energy savings of up to 38% are possible, whilst increasing your comfort.

Furthermore, the Nanoe revolutionary air-purifying system utilises nano technology fine particles to remove and deactivate 99% of both airborne and adhesive micro-organisms like bacteria, viruses and mould.

Technical focus

- This units can be installed on R22 pipings
- Maximum efficiency and comfort with Econavi, now with sunlight detection
- Nanoe air purifying system, 99 % effective on both airborne and adhesive mould, viruses, bacteria and pollen allergen
- Optional smartphone control
- Mild Dry Cooling: prevent a rapid decrease in room humidity
- Super Quiet! Only 20 dB(A), equivalent to night-time in the countryside (XE7, XE9, XE12,
- More powerful airflow to quickly reach the desired temperature

Kit Silver Plated			KIT-XE7-QKE	KIT-XE9-QKE	KIT-XE12-QKE	-
Kit White			KIT-E7-QKE	KIT-E9-QKE	KIT-E12-QKE	KIT-E15-QKE
Cooling capacity	Nominal (Min - Max)	kW	2,05 (0,75 - 2,40)	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)	4,20 (0,85 - 5,00)
EER 1)	Nominal (Min - Max)	W/W	4,46 (3,13-4,25) A	4,76 (3,47-4,20) A	4,19 (3,40-3,81) A	3,39 (3,27-3,25) A
SEER	Nominal	W/W	6,90 A++	6,90 A++	7,60 A++	6,60 A++
Pdesign (cooling)		kW	2,1	2,5	3,5	4,2
Power input cooling	Nominal (Min - Max)	kW	0,460 (0,240 - 0,565)	0,525 (0,245 - 0,715)	0,835 (0,250 - 1,050)	1,240 (0,260 - 1,540)
Annual electricity consumption	ı (cooling) ²⁾	kWh/a	107	127	161	223
Heating capacity	Nominal (Min - Max)	kW	2,80 (0,70 - 4,00)	3,40 (0,80 - 5,00)	4,00 (0,80 - 6,00)	5,30 (0,80 - 6,80)
Heating capacity at -7°C	Nominal	kW	2,38	2,95	3,45	4,11
COP 1)	Nominal (Min - Max)	W/W	4,48 (3,89-4,00) A	4,72 (4,21-3,92) A	4,76 (4,21-3,75) A	3,73 (4,21-3,54) A
SCOP	Nominal	W/W	4,40 A+	4,70 < A++	4,80 A++	4,00 A+
Pdesign at -10°C		kW	2,1	2,7	3,2	3,6
Power input heating	Nominal (Min - Max)	kW	0,625 (0,180 - 1,000)	0,720 (0,190 - 1,270)	0,840 (0,190 - 1,600)	1,420 (0,190 - 1,920)
Annual electricity consumption	(heating) 2)	kWh/a	668	804	933	1.260
Indoor Unit Silver Plated			CS-XE7QKEW	CS-XE9QKEW	CS-XE12QKEW	_
Indoor Unit White			CS-E7QKEW	CS-E9QKEW	CS-E12QKEW	CS-E15QKEW
Power source		٧	230	230	230	230
Recommended fuse		Α	16	16	16	16
Connection indoor / outdoor		mm ²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Air volume	Cooling / Heating	m³/h	726 / 738	768 / 774	804 / 822	852 / 876
Moisture removal volume		l/h	1,3	1,5	2	2,4
Sound pressure level 3)	Cooling — Heating (Hi / Lo / Q-Lo)	dB(A)	37 / 24 / 20 — 38 / 25 / 20	39 / 25 / 20 — 40 / 27 / 20	42 / 28 / 20 — 42 / 33 / 20	43 / 31 / 25 — 43 / 35 / 29
Dimensions / Net weight	H x W x D	mm / kg	295 x 870 x 255 / 10			
Outdoor Unit			CU-E7QKE	CU-E9QKE	CU-E12QKE	CU-E18QKE
Air volume	Cooling / Heating	m³/h	2.034 / 2.034	1.788 / 1.788	2.106 / 2.160	1.998 / 1.998
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	45 / 46	46 / 47	48 / 50	49 / 51
Dimensions 4) / Net weight	H x W x D	mm / kg	542 x 780 x 289 / 31	542 x 780 x 289 / 33	619 x 824 x 299 / 35	619 x 824 x 299 / 33
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) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)
Piping length range / Elevation	difference (in/out) 5)	m	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 15 / 15
Pipe length for additional gas /	Additional gas amount	m / g/m	7,5 / 20	7,5 / 20	7,5 / 20	7,5 / 20
Operating range	Cooling / Heating Min ~ Max	°C	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24

Accessories		Accessories	
PAW-AC-WIFI-1	Full bidirectional Wifi interface for Internet control	CZ-RD514C	Wired remote control for wall type
PAW-IR-WIFI-1	IR Wifi interface for Internet control	CZ-CAPRA1	H Generation interface to ECOi control integration (available in June 2016)

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 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. 4) Add 70mm for piping port. 5) When installing the outdoor unit at a higher position than the indoor unit.







CU-E12QKE



































WALL MOUNTED ETHEREA

INVERTER+ SILVER PLATED / WHITE





ETHEREA

Etherea with enhanced Econavi sensor and new Nanoe air-purifying system: outstanding efficiency, comfort and healthy air combined with state-of-the-art

Econavi features an in-built human activity sensor and a new sunlight detection technology to adjust output thereby giving you the best comfort at anytime whilst saving energy. Econavi not only optimizes air flow orientation and volume according to human presence, it also reduces cooling power automatically by no/less sunshine. With Econavi, energy savings of up to 38% are possible, whilst increasing your comfort.

Furthermore, the Nanoe revolutionary air-purifying system utilises nano technology fine particles to remove and deactivate 99% of both airborne and adhesive micro-organisms like bacteria, viruses and mould.

Technical focus

- This units can be installed on R22 pipings
- Maximum efficiency and comfort with Econavi, now with sunlight detection
- Nanoe air purifying system, 99% effective on both airborne and adhesive mould, viruses, bacteria and pollen allergen
- Optional smartphone control
- Mild Dry Cooling: prevent a rapid decrease in room humidity
- More powerful airflow to quickly reach the desired temperature

Kit Silver Plated			KIT-XE18-QKE	-	-	-
Kit White			KIT-E18-QKE	KIT-E21-QKE	KIT-E24-QKE	KIT-E28-QKE
Cooling capacity	Nominal (Min - Max)	kW	5,00 (0,98 - 6,00)	6,30 (0,98 - 7,10)	6,80 (0,98 - 8,10)	7,65 (0,98 - 8,60)
EER 1)	Nominal (Min - Max)	W/W	3,47 (3,50-3,02) A	2,89 (3,50-2,84) C	3,27 (2,58-3,06) A	3,04 (2,58-2,95) B
SEER	Nominal	W/W	6,90 A++	6,50 A++	6,10 A++	6,00 A+
Pdesign (cooling)		kW	5,0	6,3	6,8	7,7
Power input cooling	Nominal (Min - Max)	kW	1,440 (0,280 - 1,990)	2,180 (0,280 - 2,500)	2,080 (0,380 - 2,650)	2,520 (0,380 - 2,920)
Annual electricity consumption	(cooling) 2)	kWh/a	254	339	390	449
Heating capacity	Nominal (Min - Max)	kW	5,80 (0,98 - 8,00)	7,20 (0,98 - 8,50)	8,60 (0,98 - 9,90)	9,60 (0,98 - 11,00)
Heating capacity at -7°C	Nominal (Min - Max)	kW	4,98	5,24	6,13	6,77
COP 1)	Nominal (Min - Max)	W/W	3,82 (2,88-3,11) A	3,44 (2,88-3,11) B	3,33 (2,18-3,19) C	2,96 (2,18-3,01) D
SCOP	Nominal	W/W	4,20 A+	4,00 A+	3,90 A	3,80 A
Pdesign at -10°C		kW	4,4	4,6	5,5	6,0
Power input heating	Nominal (Min - Max)	kW	1,520 (0,340 - 2,570)	2,090 (0,340 - 2,730)	2,580 (0,450 - 3,100)	3,240 (0,450 - 3,650)
Annual electricity consumption	(heating) 2)	kWh/a	1.467	1.610	1.974	2.211
Indoor Unit Silver Plated			CS-XE18QKEW	_	_	_
Indoor Unit White			CS-E18QKEW	CS-E21QKEW	CS-E24QKEW	CS-E28QKES
Power source		V	230	230	230	230
Recommended fuse		Α	16	20	20	20
Connection indoor / outdoor		mm ²	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5
Air volume	Cooling / Heating	m³/h	1.074 / 1.158	1.134 / 1.200	1.188 / 1.272	1.266 / 1.314
Moisture removal volume		l/h	2,8	3,5	3,9	4,5
Sound pressure level 3)	Cooling — Heating (Hi / Lo / Q-Lo)	dB(A)	44 / 37 / 34 — 44 / 37 / 34	45 / 37 / 34 — 45 / 37 / 34	47 / 38 / 35 — 47 / 38 / 35	49 / 38 / 35 — 48 / 38 / 35
Dimensions / Net weight	H x W x D	mm / kg	295 x 1.070 x 255 / 13			
Outdoor Unit			CU-E18QKE	CU-E21QKE	CU-E24QKE	CU-E28QKE
Air volume	Cooling / Heating	m³/h	2.352 / 2.274	2.502 / 2.424	3.012 / 3.012	3.270 / 3.270
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	47 / 47	48 / 49	52 / 52	53 / 53
Dimensions 4) / Net weight	H x W x D	mm / kg	695 x 875 x 320 / 46	695 x 875 x 320 / 47	795 x 875 x 320 / 67	795 x 875 x 320 / 67
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)
Piping length range / Elevation	difference (in/out) 5)	m	3 ~ 20 / 15	3 ~ 20 / 15	3 ~ 30 / 20	3 ~ 30 / 20
Pipe length for additional gas /	Additional gas amount	m / g/m	7,5 / 20	7,5 / 20	10 / 30	10 / 30
Operating range	Cooling / Heating Min ~ Max	°C.	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24

Accessories		Accessories	
PAW-AC-WIFI-1	Full bidirectional Wifi interface for Internet control	CZ-RD514C	Wired remote control for wall type
PAW-IR-WIFI-1	IR Wifi interface for Internet control	CZ-CAPRA1	H Generation interface to ECOi control integration (available in June 2016)

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 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/066-97 specification. Q-Lo: Quiet mode. Lo: The lowest fan speed. 4) Add 70mm for piping port. 5) When installing the outdoor unit at a higher position than the indoor unit.







CU-E24QKE





































WALL MOUNTED HEATCHARGE VZ INVERTER+ • R32 GAS



heatcharge

The new Heatcharge from Panasonic has the capacity to store heat on the outdoor unit which allows heating to start quickly just after turning on the heat pump. It also ensures maximum comfort and heat in the house even during defrost operation as Heat charge also stores heat to prevent cool air during defrost.

Econavi builds-in a new Sunlight Detection technology to adjust output ideally thereby giving you the best comfort at anytime whilst saving energy.

Furthermore, the Nanoe revolutionary air-purifying system utilises nano technology fine particles to remove and deactivate 99% of both airborne and adhesive micro-organisms like bacteria, viruses and mould.

Technical focus

- · NEW! R32 gas environmental friendly
- NEW! design
- Work up to -35°C
- Energy Charge System. Heat storage unit which realizes NON-STOP heating and fast heating function
- Maximum efficiency and comfort with Econavi sunlight detection
- Nanoe air purifying system, 99% effective on both airborne and adhesive mould, viruses
- Super Quiet! Only 18 dB(A), equivalent to night-time in the country
- More powerful airflow to quickly reach the desired temperature

Kit			KIT-VZ9-SKE	KIT-VZ12-SKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,60 - 3,00)	3,50 (0,60 - 4,00)
SEER	Nominal	W/W	10,50 A+++	10,00 🗛
Pdesign (cooling)		kW	2,5	3,5
Power input cooling	Nominal (Min - Max)	kW	0,430 (0,140 - 0,610)	0,800 (0,140 - 1,010)
Annual electricity consumption (c	ooling) ²⁾	kWh/a		
Heating capacity	Nominal (Min - Max)	kW	3,60 (0,60 - 7,80)	4,20 (0,60 - 9,20)
COP 1)	Nominal	W/W	5,63 A	5,04 A
Heating capacity at -7 °C	Nominal	kW	5,00	5,60
COP 1)	Nominal (Min - Max)	W/W	2,07	2,00
SCOP	Nominal	W/W	6,20 🗛 🕶	5,90 👫
Pdesign at -10°C		kW	3,6	4,2
Power input heating	Nominal (Min - Max)	kW	0,640 (0,140 - 2,720)	0,830 (0,140 - 3,160)
Annual electricity consumption (he	eating) ²⁾	kWh/a		
Indoor Unit			CS-VZ9SKE	CS-VZ12SKE
Power source		V	230	230
Recommended fuse		Α	16	16
Connection		mm ²	4 x 1,5	4 x 1,5
Air volume	Cooling / Heating	m³/h	1.020	1.050
Sound pressure level 3)	Cooling — Heating (Hi / Lo / Q-Lo)	dB(A)	44 / 27 / 18 — 44 / 26 / 18	45 / 33 / 18 — 45 / 29 / 18
Dimensions / Net weight	H x W x D	mm / kg	295 x 890 x 375 / 14,5	295 x 890 x 375 / 14,5
Outdoor Unit			CU-VZ9SKE	CU-VZ12SKE
Air volume	Cooling / Heating	m³/h	1.980 / 1.890	2.052 / 1.890
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	49 / 49	50 / 50
Dimensions 4) / Net weight	H x W x D	mm / kg	630 x 799 x 299 / 41,5	630 x 799 x 299 / 41,5
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)
Piping length range / Elevation dif	ference (in/out)	m	3 ~ 15 / 12	3 ~ 15 / 12
Pipe length for additional gas / Ad	ditional gas amount	m / g/m	7,5 / 20	7,5 / 20
R32 Refrigerant amount		kg	1,05	1,10
Operating range	Cooling / Heating Min ~ Max	°C	-10 ~ +43 / -35 ~ +24	-10 ~ +43 / -35 ~ +24

Accessories		Accessories	
PA-AC-WIFI-1	Interface for IntesisHome	PAW-SMSCONTROL	Control by SMS (need additional SIM card)
PAW-IR-WIFI-1	IR Wifi interface for Internet control		
***************************************	THE THIRD TO THE THOUSE CONTROL		

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) Add 70mm for piping port. * Available in January 2016.





























WALL MOUNTED TZSTANDARD INVERTER • R32 GAS



New TZ Inverter models are powerful and efficient, with an outstanding energy ranking of A++/A+, unique in the market! The TZ works up to an outdoor temperature of -15°C in heating mode and -10°C up a outdoor temperature of -15°C in heating and -10 in cooling and still with a high efficiency and capacity! Furthermore, the annual energy consumption has never been so low.

Technical focus

- NEW! R32 gas environmental friendly
- NEW! New design
- Wired Controller (optional)
- Complete line-up of standard Inverter models
- · Super Quiet! Only 20 dB(A)
- High energy savings
- Long connection distance (from 15 m up to 30 m)

Kit			KIT-TZ9-SKE*	KIT-TZ12-SKE*	KIT-TZ15-SKE*	KIT-TZ18-SKE*	KIT-TZ24-SKE**
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 3,90)	4,20 (0,85 - 4,60)	5,00 (0,98 - 5,40)	6,80 (0,98 - 8,10)
EER 1)	Nominal (Min - Max)	W/W	3,73 (3,40 - 3,37) A	3,50 (3,33 - 3,28) A	3,33 (3,21 - 2,79) A	3,09 (3,44 - 3,00) B	3,24 (2,58 - 3,03) A
SEER	Nominal	W/W	6,20 A++	6,20 A	5,60 A+	6,70 A++	6,10 A++
Pdesign (cooling)		kW	2,5	3,5	4,2	5,0	6,8
Power input cooling	Nominal (Min - Max)	kW	0,670 (0,250 - 0,890)	1,000 (0,255 - 1,190)	1,260 (0,265 - 1,650)	1,620 (0,285 - 1,800)	2,100 (0,380 - 2,670)
Annual electricity consumption (co	oling) 2)	kWh/a	335	500	630	810	1.050
Heating capacity	Nominal (Min - Max)	kW	3,30 (0,80 - 4,10)	4,00 (0,80 - 5,10)	5,00 (0,80 - 6,80)	5,80 (0,98 - 7,50)	8,60 (0,98 - 9,90)
Heating capacity at -7°C	Nominal	kW	2,70	3,30	3,90	4,67	6,13
COP 1)	Nominal (Min - Max)	W/W	4,13 (4,10 - 3,63) A	3,81 (4,00 - 3,59) A	3,70 (4,00 - 3,32) A	3,30 (2,88 - 3,10) C	3,30 (2,18 - 3,16) C
SCOP	Nominal	W/W	4,20 A+	4,20 A+	3,80 A	4,10 A+	4,00 A+
Pdesign at -10°C		kW	2,4	2,8	3,6	4,0	5,5
Power input heating	Nominal (Min - Max)	kW	0,800 (0,195 - 1,130)	1,050 (0,200 - 1,420)	1,350 (0,200 - 2,050)	1,760 (0,340 - 2,420)	2,610 (0,450 - 3,130)
Annual electricity consumption (he	ating) 2)	kWh/a	800	933	1.326	1.366	1.925
Indoor Unit			CS-TZ9SKEW	CS-TZ12SKEW	CS-TZ15SKEW	CS-TZ18SKEW	CS-TZ24SKEW
Air volume	Cooling / Heating	m³/h	690 / 732	714 / 738	738 / 786	696 / 744	1.074 / 1.134
Moisture removal volume		l/h	1,5	2,0	2,4	2,8	3,9
Sound pressure level 3)	Cooling — Heating (Hi / Lo / Q-Lo)	dB(A)	40 / 26 / 20 — 40 / 27 / 24	42 / 30 / 20 — 42 / 33 / 25	44 / 31 / 29 — 44 / 35 / 28	44 / 37 / 34 — 44 / 37 / 34	47 / 38 / 35 — 47 / 38 / 35
Dimensions / Net weight	H x W x D	mm / kg	290 x 870 x 204 / 9	290 x 870 x 204 / 9	290 x 870 x 204 / 10	290 x 870 x 204 / 10	290 x 1.070 x 235 / 12
Outdoor Unit			CU-TZ9SKE	CU-TZ12SKE	CU-TZ15SKE	CU-TZ18SKE	CU-TZ24SKE
Power source		٧	230	230	230	230	230
Recommended fuse		Α	16	16	16	16	20
Connection (indoor/outdoor)		mm ²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5
Air volume	Cooling / Heating	m³/h	1.800 / 1.734	1.722 / 1.824	1.998 / 1.998	2.064 / 2.040	3.012 / 3.012
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	47 / 48	48 / 50	49 / 51	48 / 49	52 / 52
Dimensions 4) / Net weight	H x W x D	mm / kg	542 x 780 x 289 / 27	542 x 780 x 289 / 32	619 x 824 x 299 / 35	619 x 824 x 299 / 41	795 x 875 x 320 / 67
Piping connections	Liquid / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)
Piping length range / Elevation diff	erence (in/out)	m	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 20 / 15	3 ~ 30 / 20
Pipe length for additional gas / Add	ditional gas amount	m / g/m	7,5 / 10	7,5 / 10	7,5 / 10	7,5 / 15	10,0 / 25
R32 Refrigerant amount		kg	0,67	0,77	0,86	1,14	1,49
Operating range	Cooling / Heating Min ~ Max	°C	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24

Accessories		Accessories	
PAW-AC-WIFI-1	Full bidirectional Wifi interface for Internet control	CZ-RD514C	Wired remote control for wall type
PAW-IR-WIFI-1	IR Wifi interface for Internet control	CZ-CAPRA1	H Generation interface to ECOi control integration (available in June 2016)

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 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. 0-Lo: The lowest fan speed. Lo: The second lowest fan speed (the lowest fan speed for RE18/24). 4) Add 70mm for piping port.

* Available in April 2016. ** Available in May 2016.



WALL MOUNTED RE STANDARD INVERTER





CS-RE18RKEW // CS-RE24RKEW

RE Inverter models are powerful and efficient, with an outstanding energy ranking of A++/ A+, unique in the market! The RE works up to an outdoor temperature of -15°C in heating mode and -10°C up a outdoor temperature of -15°C in heating and -10 in cooling and still with a high efficiency and capacity! Furthermore, the annual energy consumption has never been so low.

Technical focus

- Wired Controller (optional)
- This units can be installed on R22 pipings
- Complete line-up of standard Inverter models
- Quieter indoor units
- · High energy savings
- Long connection distance (from 15 m up to 30 m)

Kit			KIT-RE9-RKE	KIT-RE12-RKE	KIT-RE15-RKE	KIT-RE18-RKE	KIT-RE24-RKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 3,90)	4,20 (0,85 - 4,60)	5,00 (0,98 - 6,00)	6,80 (0,98 - 8,10)
EER 1)	Nominal (Min - Max)	W/W	3,73 (3,40 - 3,16) A	3,50 (3,33 - 3,28) A	3,33 (3,21 - 2,79) A	3,40 (3,50 - 2,96) A	3,24 (2,58 - 3,03) A
SEER	Nominal	W/W	6,10 A	6,10 A++	5,60 A+	6,70 A++	6,00 A+
Pdesign (cooling)		kW	2,5	3,5	4,2	5,0	6,8
Power input cooling	Nominal (Min - Max)	kW	0,670 (0,250 - 0,950)	1,000 (0,255 - 1,190)	1,260 (0,265 - 1,650)	1,470 (0,280 - 2,030)	2,100 (0,380 - 2,670)
Annual electricity consumption	(cooling) 2)	kWh/a	143	201	263	261	397
leating capacity	Nominal (Min - Max)	kW	3,30 (0,80 - 4,10)	4,00 (0,80 - 5,10)	5,00 (0,80 - 6,80)	5,80 (0,98 - 8,00)	8,60 (0,98 - 9,90)
leating capacity at -7°C	Nominal	kW	2,70	3,30	3,90	4,98	6,13
COP 1)	Nominal (Min - Max)	W/W	4,13 (4,10 - 3,63) A	3,81 (4,00 - 3,59) A	3,70 (4,00 - 3,32) A	3,77 (2,88 - 3,08) A	3,30 (2,18 - 3,16) C
SCOP	Nominal	W/W	4,00 A+	4,00 A+	3,80 A	4,10 A+	3,80 A
Pdesign at -10°C		kW	2,4	2,8	3,6	4,4	5,5
Power input heating	Nominal (Min - Max)	kW	0,800 (0,195 - 1,130)	1,050 (0,200 - 1,420)	1,350 (0,200 - 2,050)	1,540 (0,340 - 2,600)	2,610 (0,450 - 3,130)
Annual electricity consumption	(heating) 2)	kWh/a	840	980	1.326	1.502	2.026
ndoor Unit	•		CS-RE9RKEW	CS-RE12RKEW	CS-RE15RKEW	CS-RE18RKEW	CS-RE24RKEW
Air volume	Cooling / Heating	m³/h	702 / 768	762 / 804	750 / 804	978 / 1.074	1.104 / 1.170
Moisture removal volume		l/h	1,5	2,0	2,4	2,8	3,9
Sound pressure level 3)	Cooling — Heating (Hi / Lo / Q-Lo)	dB(A)	41 / 26 / 22 — 41 / 27 / 24	42 / 30 / 22 - 42 / 33 / 25	44 / 31 / 29 — 44 / 35 / 28	44 / 37 / 34 — 44 / 37 / 34	47 / 38 / 35 — 47 / 38 /
Dimensions / Net weight	H x W x D	mm / kg	290 x 870 x 214 / 9	290 x 870 x 214 / 9	290 x 870 x 214 / 9	290 x 1.070 x 240 / 12	290 x 1.070 x 240 / 12
Silver decoration sheet			Yes	Yes	Yes	Yes	Yes
Outdoor Unit			CU-RE9RKE	CU-RE12RKE	CU-RE15RKE	CU-RE18RKE	CU-RE24RKE
Power source		٧	230	230	230	230	230
Recommended fuse		Α	16	16	16	16	16
Connection (indoor/outdoor)		mm ²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Air volume	Cooling / Heating	m³/h	1.926 / 1.872	1.998 / 1.998	1.998 / 1.998	2.352 / 2.274	3.012 / 3.012
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	47 / 48	48 / 50	49 / 51	47 47	52 / 52
Dimensions 4) / Net weight	H x W x D	mm / kg	542 x 780 x 289 / 31	619 x 824 x 299 / 34	619 x 824 x 299 / 34	695 x 875 x 320 / 46	795 x 875 x 320 / 67
Piping connections	Liquid / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)
Piping length range / Elevation	difference (in/out)	m	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 20 / 15	3 ~ 30 / 20
Pipe length for additional gas /	Additional gas amount	m / g/m	7,5 / 20	7,5 / 20	7,5 / 20	7,5 / 20	10,0 / 30
Operating range	Cooling / Heating Min ~ Max	°C	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24	-10 ~ +43 / -15 ~ +24

Accessories		Accessories	
PAW-IR-WIFI-1	IR Wifi interface for Internet control	CZ-RD514C	Wired remote control for wall type

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 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. 0-Lo: The towest fan speed. Lo: The second lowest fan speed (the lowest fan speed for RE18/24). 4) Add 70mm for piping port.



WALL MOUNTED UZ STANDARD INVERTER • R32 GAS



New UZ series inverter powerful and efficient.

Technical focus

- NEW! R32 gas environmental friendly
- NEW! New design
- Wired Controller (optional)
- Super Quiet! Only 20 dB(A)
- · High energy savings
- Long connection distance

Kit			KIT-UZ9-SKE	KIT-UZ12-SKE	KIT-UZ18-SKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,40 (0,85 - 3,90)	5,00 (0,98 - 5,40)
EER 1)	Nominal (Min - Max)	W/W	3,68 (3,40 - 3,33)	3,18 (3,33 - 3,05)	3,03 (3,44 - 2,90)
SEER	Nominal	W/W	6,20 A++	6,10 👫	6,50 👫
Pdesign (cooling)		kW	2,5	3,4	5,0
Power input cooling	Nominal (Min - Max)	kW	0,680 (0,250 - 0,900)	1,070 (0,255 - 1,280)	1,650 (0,285 - 1,860)
Annual electricity consumption	(cooling) 2)	kWh/a	340	535	825
Heating capacity	Nominal (Min - Max)	kW	3,15 (0,80 - 3,60)	3,84 (0,80 - 4,40)	5,40 (0,98 - 7,50)
Heating capacity at -7°C	Nominal	kW	2,14	2,60	4,58
COP 1)	Nominal (Min - Max)	W/W	4,04 (4,10 - 3,46)	3,66 (4,10 - 3,41)	3,42 (2,80 - 3,06)
SCOP	Nominal	W/W	3,80 A	3,80 A	3,90 A
Pdesign at -10 °C		kW	1,9	2,4	4,0
Power input heating	Nominal (Min - Max)	kW	0,780 (0,195 - 1,040)	1,050 (0,195 - 1,290)	1,580 (0,350 - 2,450)
Annual electricity consumption	(heating) 2)	kWh/a	700	884	1.436
Indoor Unit			CS-UZ9SKE	CS-UZ12SKE	CS-UZ18SKE
Power source		V	230	230	230
Recommended fuse		Α	16	16	16
Connection indoor / outdoor		mm ²	4 x 1,5	4 x 1,5	4 x 2,5
Air volume	Cooling / Heating	m³/h	618 / 660	642 / 672	678 / 720
Moisture removal volume		l/h	1,5	2,0	2,8
Sound pressure level 3)	Cooling — Heating (Hi / Lo / Q-Lo)	dB(A)	37 / 26 / 20 — 37 / 27 / 24	38 / 30 / 20 — 38 / 33 / 25	44 / 37 / 34 — 44 / 37 / 34
Dimensions / Net weight	H x W x D	mm / kg	290 x 850 x 199 / 8	290 x 850 x 199 / 8	290 x 870 x 214 / 9
Outdoor Unit			CU-UZ9SKE	CU-UZ12SKE	CU-UZ18SKE
Air volume	Cooling / Heating	m³/h	1.872 / 1.872	1.866 / 1.866	2.064 / 2.040
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	48 / 49	48 / 50	48 / 49
Dimensions 4) / Net weight	H x W x D	mm / kg	542 x 780 x 289 / 26	542 x 780 x 289 / 27	619 x 824 x 299 / 38
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)
Piping length range / Elevation	difference (in/out)	m	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 15 / 15
Pipe length for additional gas /	Additional gas amount	m / g/m	7,5 / 10	7,5 / 10	7,5 / 15
R32 Refrigerant amount		kg	0,58	0,67	1,14
Operating range	Cooling / Heating Min ~ Max	°C	+5 ~ +43 / -10 ~ +24	+5 ~ +43 / -10 ~ +24	+5 ~ +43 / -10 ~ +24

Accessories		Accessories		
PAW-IR-WIFI-1	IR Wifi interface for Internet control	CZ-RD514C	Wired remote control for wall type	

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 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. 0-Lo: The lowest fan speed. Lo: The second lowest fan speed (the lowest fan speed for UE18) 4) Add 70mm for piping port. 5) When installing the outdoor unit at a higher position than the indoor unit. * Available in March 2016.































Included





WALL MOUNTED UE STANDARD INVERTER





New UE series inverter powerful and efficient.

Technical focus

- Wired Controller (optional)
- This units can be installed on R22 pipings
- Quieter indoor units
- · High energy savings
- Long connection distance

Kit			KIT-UE9-RKE	KIT-UE12-RKE	KIT-UE18-RKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 3,90)	5,00 (0,98 - 5,60)
	Nominal (Min - Max)	W/W	3,47 (3,40 - 2,94) A	3,21 (3,33 - 3,05) A	3,25 (3,44 - 3,20) A
SEER	Nominal	W/W	5,60 A+	5,60 A+	6,50 A++
Pdesign (cooling)		kW	2,5	3,5	5,0
Power input cooling	Nominal (Min - Max)	kW	0,720 (0,250 - 1,020)	1,090 (0,255 - 1,280)	1,540 (0,285 - 1,750)
Annual electricity consumption (co	oling) ²⁾	kWh/a	156	219	269
Heating capacity	Nominal (Min - Max)	kW	3,30 (0,80 - 4,10)	4,00 (0,80 - 5,10)	5,40 (0,98 - 7,70)
Heating capacity at -7°C	Nominal	kW	2,66	3,20	4,79
COP 1)	Nominal (Min - Max)	W/W	3,84 (4,10 - 3,47) A	3,64 (4,00 - 3,47) A	3,67 (2,80 - 3,35) A
SCOP	Nominal	W/W	3,80 A	3,80 A	4,30 A+
Pdesign at -10 °C		kW	1,9	2,4	4,0
	Nominal (Min - Max)	kW	0,860 (0,195 - 1,180)	1,100 (0,200 - 1,470)	1,470 (0,350 - 2,300)
Annual electricity consumption (he	ating) ²⁾	kWh/a	700	884	1.302
Indoor Unit			CS-UE9RKE	CS-UE12RKE	CS-UE18RKE
Power source		V	230	230	230
Recommended fuse		Α	16	16	16
Connection indoor / outdoor		mm ²	4 x 1,5	4 x 1,5	4 x 1,5
	Cooling / Heating	m³/h	702 / 768	762 / 804	978 / 1.074
Moisture removal volume		l/h	1,5	2,0	2,8
		dB(A)	41 / 26 / 22 — 41 / 27 / 24	42 / 30 / 22 — 42 / 33 / 25	44 / 37 / 34 — 44 / 37 / 34
	H x W x D	mm / kg	290 x 870 x 214 / 9	290 x 870 x 214 / 9	290 x 1.070 x 240 / 12
Outdoor Unit			CU-UE9RKE	CU-UE12RKE	CU-UE18RKE
	Cooling / Heating	m³/h	1.926 / 1.872	1.860 / 1.860	2.064 / 2.040
	Cooling / Heating (Hi)	dB(A)	47 / 48	48 / 50	48 / 49
	H x W x D	mm / kg	542 x 780 x 289 / 31	542 x 780 x 289 / 33	619 x 824 x 299 / 38
	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)
Piping length range / Elevation diffe		m	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 15 / 15
Pipe length for additional gas / Add		m / g/m	7,5 / 20	7,5 / 20	7,5 / 20
Operating range	Cooling / Heating Min ~ Max	°C	+5 ~ +43 / -10 ~ +24	+5 ~ +43 / -10 ~ +24	+5 ~ +43 / -10 ~ +24

Accessories		Accessories	
PAW-IR-WIFI-1	IR Wifi interface for Internet control	CZ-RD514C	Wired remote control for wall type

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 metre in front of the main body and 0,8 m before the sound pressure tweet of the discovery and 0,8 m before the main body and 0,8 m before



































WALL MOUNTED PZSTANDARD INVERTER • R32 GAS



New PZ Inverter models are powerful and efficient.

Technical focus

- NEW! R32 gas environmental friendly
- NEW! New design
- Wired Controller (optional)
- Super Quiet! Only 20 dB(A)
- · High energy savings
- Long connection distance

Kit			KIT-PZ9-SKE	KIT-PZ12-SKE	KIT-PZ18-SKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,40 (0,85 - 3,90)	5,00 (0,98 - 5,40)
EER 1)	Nominal (Min - Max)	W/W	3,62 (3,40 - 3,30)	3,09 (3,33 - 3,00)	2,98 (3,44 - 2,86)
SEER	Nominal	W/W	5,80 A+	5,60 A+	6,00 ♠+
Pdesign (cooling)		kW	2,5	3,4	5,0
Power input cooling	Nominal (Min - Max)	kW	0,690 (0,250 - 0,910)	1,100 (0,255 - 1,300)	1,680 (0,285 - 1,890)
Annual electricity consumption	(cooling) 2)	kWh/a	345	550	840
Heating capacity	Nominal (Min - Max)	kW	3,15 (0,80 - 3,60)	3,84 (0,80 - 4,40)	5,40 (0,98 - 7,50)
Heating capacity at -7°C	Nominal	kW	2,14	2,60	4,58
COP 1)	Nominal (Min - Max)	W/W	4,04 (4,10 - 3,46)	3,66 (4,10 - 3,41)	3,42 (2,80 - 3,06)
SCOP	Nominal	W/W	3,80 A	3,80 A	3,90 ◆▲
Pdesign at -10 °C		kW	1,9	2,4	4,0
Power input heating	Nominal (Min - Max)	kW	0,780 (0,195 - 1,040)	1,050 (0,195 - 1,290)	1,580 (0,350 - 2,450)
Annual electricity consumption	(heating) 2)	kWh/a	700	884	1.436
Indoor Unit			CS-PZ9SKE	CS-PZ12SKE	CS-PZ18SKE
Power source		٧	230	230	230
Recommended fuse		Α	16	16	16
Connection indoor / outdoor		mm ²	4 x 1,5	4 x 1,5	4 x 1,5
Air volume	Cooling / Heating	m³/h	618 / 660	642 / 672	678 / 720
Moisture removal volume		l/h	1,5	2,0	2,8
Sound pressure level 3)	Cooling — Heating (Hi / Lo / Q-Lo)	dB(A)	37 / 26 / 20 — 37 / 27 / 24	38 / 30 / 20 — 38 / 33 / 25	44 / 37 / 34 — 44 / 37 / 34
Dimensions / Net weight	H x W x D	mm / kg	290 x 850 x 199 / 8	290 x 850 x 199 / 8	290 x 870 x 214 / 9
Outdoor Unit			CU-PZ9SKE	CU-PZ12SKE	CU-PZ18SKE
Air volume	Cooling / Heating	m³/h	1.872 / 1.872	1.866 / 1.866	2.064 / 2.040
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	48 / 49	48 / 50	48 / 49
Dimensions 4) / Net weight	H x W x D	mm / kg	542 x 780 x 289 / 26	542 x 780 x 289 / 27	619 x 824 x 299 / 38
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)
Piping length range / Elevation	difference (in/out)	m	3 ~ 15 / 15	3 ~ 15 / 15	3 ~ 15 / 15
Pipe length for additional gas /	Additional gas amount	m / g/m	7,5 / 10	7,5 / 10	7,5 / 15
R32 Refrigerant amount	•	kg	0,58	0,67	1,10
Operating range	Cooling / Heating Min ~ Max	°Č	+5 ~ +43 / -10 ~ +24	+5 ~ +43 / -10 ~ +24	+5 ~ +43 / -10 ~ +24

Accession		Accessive		
Accessories		Accessories		
PAW-AC-DIO	PCB for wall mounted with dry contacts, On/Off, Error message	CZ-RD514C	Wired remote control for wall type	
	, , , , , , , , , , , , , , , , , , , ,			

1] EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2] The annual energy consumption is calculated in accordance with the ErP directive. 3] The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 0-Lo: The lowest fan speed. Lo: The second lowest fan speed. 4) Add 70mm for piping port. 5) When installing the outdoor unit at a higher position than the indoor unit. * Available in March 2016.













Optional wired remote control CZ-RD514C

















WALL MOUNTED PE STANDARD INVERTER



PE Inverter models are powerful and efficient.

Technical focus

- Wired Controller (optional)
- This units can be installed on R22 pipings
- Quieter indoor units
- · High energy savings
- Long connection distance

Kit			KIT-PE9-RKE		KIT-PE12-RKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)		3,50 (0,85 - 3,90)
EER 1)	Nominal (Min - Max)	W/W	3,47 (3,42 - 2,94) A		3,21 (3,33 - 3,05) A
SEER	Nominal	W/W	5.60 A+		5,60 A+
Pdesign (cooling) kW		kW	2,5		3,5
Power input cooling	Nominal (Min - Max)	kW	0,720 (0,250 - 1,020)		1,090 (0,255 - 1,280)
Annual electricity consumption (cooling) 2)		kWh/a	156		219
		kW	3,30 (0,80 - 4,10)		4,00 (0,80 - 5,10)
Heating capacity at -7°C	Nominal	kW	2,66		3,2
COP 1)	Nominal (Min - Max)	W/W	3,84 (4,10 - 3,47) A		3,64 (4,00 - 3,47) A
SCOP	Nominal	W/W	3,80 🖪		3,80 A
Pdesign at -10 °C		kW			2,4
Power input heating	Nominal (Min - Max)	kW	0,860 (0,195 - 1,180)		1,100 (0,200 - 1,470)
Annual electricity consumption (heating) 2) kWh/a		kWh/a	700		884
Indoor Unit		CS-PE9RKE		CS-PE12RKE	
Power source V		V	230		230
Recommended fuse A		Α	16		16
onnection indoor / outdoor mm²		mm ²	4 x 1,5		4 x 1,5
ir volume	Cooling / Heating	m³/h	702 / 768		762 / 804
Noisture removal volume		l/h	1,5		2,0
Sound pressure level 3)	Cooling — Heating (Hi / Lo / Q-Lo)	dB(A)	41 / 26 / 22 - 41 / 27 / 24		42 / 30 / 22 — 42 / 33 / 25
Dimensions / Net weight	H x W x D	mm / kg	290 x 870 x 214 / 9		290 x 870 x 214 / 9
Outdoor Unit			CU-PE9RKE		CU-PE12RKE
ir volume	Cooling / Heating	m³/h	1.926 / 1.872		1.860 / 1.860
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	47 / 48		48 / 50
Dimensions 4) / Net weight	H x W x D	mm / kg	542 x 780 x 289 / 31		542 x 780 x 289 / 33
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)		1/4 (6,35) / 3/8 (9,52)
Piping length range / Elevation difference (in/out) m		3 ~ 15 / 15		3 ~ 15 / 15	
Pipe length for additional gas / Additional gas amount m / g/m		7,5 / 20		7,5 / 20	
perating range	Cooling / Heating Min ~ Max	°C	+5 ~ +43 / -10 ~ +24		+5 ~ +43 / -10 ~ +24
Accessories				Accessories	
PAW-AC-DIO PCB for wall mounted with dry contacts, On/Off, Error message			or message	CZ-RD514C	Wired remote control for wall type

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 0-Lo: The lowest fan speed. Lo: The second lowest fan speed. 4) Add 70mm for piping port. 5) When installing the outdoor unit at a higher position than the indoor unit.









Optional wired remote control CZ-RD514C

















WALL MOUNTED PROFESSIONAL

INVERTER -20°C



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

Technical focus

- This units can be installed on R22 pipings
- Designed for 24h/7d a week operation
- Highly efficient even at -20°C
- · High durability rolling bearings
- · Additional piping sensors to prevent freezing

KIT			KIT-E9-PKEA	KIT-E12-PKEA	KIT-E15-PKEA	KIT-E18-PKEA
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)	4,20 (0,98 - 5,00)	5,00 (0,98 - 6,00)
EER 1)	Nominal (Min - Max)	W/W	4,85 (4,23 - 5,00) A	4,02 (3,57 - 5,00) A	3,50 (3,50 - 3,16) A	3,47 (3,50 - 3,02) A
Cooling capacity at -10°C	Nominal	kW	2,63	3,69	5,04	6,00
EER at -10°C	Nominal	W/W	7,19	5,96	6,01	6,00
Cooling capacity at -20°C	Nominal	kW	2,61	3,66	4,06	5,82
EER at -20°C	Nominal	W/W	6,71	5,56	4,39	5,39
SEER 2)	Nominal	W/W	7,10 A++	6,70 A++	6,30 A++	6,90 A++
Pdesign	<u> </u>	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 electricity consumption	(cooling) 3)	kWh/a	123	183	233	254
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,40)	4,00 (0,85 - 6,60)	5,40 (0,98 - 7,10)	5,80 (0,98 - 8,00)
Heating capacity at -7°C 4	Nominal	kW	3,33	4,07	4,10	4,98
COP 1)	Nominal (Min - Max)	W/W	4,86 (4,12 - 5,15) A	4,35 (3,63 - 5,15) A	3,75 (2,88 - 3,24) A	3,82 (2,88 - 3,11) A
SCOP 5)	Nominal	W/W	4,40 A+	4,10 A+	3,90 A	4,20 A+
Pdesign at -10 °C	·	kW	2,8	3,6	3,6	4,4
Power input heating	Nominal (Min - Max)	kW	0,700 (0,165 - 1,310)	0,920 (0,165 - 1,820)	1,440 (0,340 - 2,190)	1,520 (0,340 - 2,570)
Annual electricity consumption	(heating) 3)	kWh/a	891	1.229	1.292	1.467
Indoor Unit	<u> </u>		CS-E9PKEA	CS-E12PKEA	CS-E15PKEA	CS-E18PKEA
Power source		٧	230	230	230	230
Recommended fuse		Α	16	16	16	16
Connection indoor / outdoor		mm	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5
Air Volume	Cooling / Heating	m³/h	798 / 876	816 / 882	846 / 900	1.074 / 1.158
Moisture removal volume		l/h	1,5	2,0	2,4	2,8
Sound pressure level 6)	Cooling — Heating (Hi / Lo / S-Lo)	dB(A)	39 / 26 / 23 — 40 / 27 / 24	42 / 29 / 26 — 42 / 33 / 29	43 / 32 / 29 — 43 / 35 / 29	44 / 37 / 34 — 44 / 37 / 34
Dimensions / Net weight	H x W x D	mm / kg	295 x 870 x 255 / 10	295 x 870 x 255 / 10	295 x 870 x 255 / 10	295 x 1.070 x 255 / 13
Outdoor Unit			CU-E9PKEA	CU-E12PKEA	CU-E15PKEA	CU-E18PKEA
Sound pressure level 6)	Cooling / Heating (Hi)	dB(A)	46 / 47	48 / 50	46 / 46	47 / 47
Dimensions 7] / Net weight	H x W x D	mm / kg	622 x 824 x 299 / 36	622 x 824 x 299 / 36	695 x 875 x 320 / 45	695 x 875 x 320 / 46
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Piping length range / Elevation	difference (in/out) 8)	m	3 ~ 15 / 5	3 ~ 15 / 5	3 ~ 15 / 15	3 ~ 20 / 15
Pipe length for additional gas /	Additional gas amount	m / g/m	7,5 / 20	7,5 / 20	7,5 / 20	7,5 / 20
Operating range	Cooling / Heating Min ~ Max	°C	-20 ~ +43 / -15 ~ +24	-20 ~ +43 / -15 ~ +24	-20 ~ +43 / -15 ~ +24	-20 ~ +43 / -15 ~ +24

Accessories		Accessories	
PAW-GRDSTD40	Outdoor elevation platform	PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-WTRAY	Tray for condenser water compatible with base ground support	PAW-SERVER-PKEA	PCB for installation in server rooms with security
		CZ-CAPRA1	H Generation interface to ECOi control integration (available in June 2016)

Rating Conditions for cooling capacity at low temperature: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 0°C DB / -10°C WB. 1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2) SEER is calculated in hase Eurovent IPIV for SBEM for U1 indoor unit SEER-a[EER/5]-b[calculated including defrost factor correction. 5) SCOP is calculated in base Eurovent IPLV for SBEM with U1 indoor unit including defrost correction factor. 6) The Sound pressure 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. 7) Add 70mm for piping port. 8) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A.

























CU-E15PKEA











FLOOR CONSOLE INVERTER+



Console designed for discreet integration on walls, and for high performance, specifically in heat mode even when the outside temperature is as low as -20°C.

Double airflow for improved comfort and temperature dispersion: through the top for an efficient cooling mode, through the bottom for quick heating.

Technical focus

- This units can be installed on R22 pipings
- More efficient than ever for improved energy consumption and higher savings
- Heating mode down to -20°C with high efficiency
- Double airflow for better efficiency
- Powerful mode for quick temperature setting
- R410A refrigerant gas

KIT			KIT-E9-PFE	KIT-E12-PFE	KIT-E18-PFE
Cooling capacity			2,50 (0,85 - 3,00)	3,50 (0,85 - 3,80)	5,00 (0,98 - 5,60)
EER 1)	Nominal	W/W	4,50 A	3,72 A	3,25 A
SEER	Nominal	W/W	6,10 👫	5,80 A+	6,20 👫
Pdesign (cooling)		kW	2,50	3,50	5,00
Power input cooling	Nominal	kW	0,560	0,940	1,540
Annual electricity consumption (c	Annual electricity consumption (cooling) 2)		143	211	282
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,00)	4,00 (0,85 - 6,00)	5,80 (0,98 - 7,10)
Heating capacity at -7°C	Nominal	kW	2,35	2,86	3,87
COP 1)	Nominal	W/W	4,20 A	4,00 A	3,63 A
SCOP	Nominal	W/W	3,80 A	3,80 A	3,90 A
Pdesign at -10°C		kW	2,7	3,2	4,4
Power input heating Nominal		kW	0,810	1,000	1,600
Annual electricity consumption (heating) 2) kV		kWh/a	995	1.179	1.579
Indoor Unit			CS-E9GFEW	CS-E12GFEW	CS-E18GFEW
Power source		V	230	230	230
Recommended fuse		Α	16	16	16
Connection		mm ²	4 x 1,5	4 x 1,5	4 x 1,5
Air volume	Cooling / Heating	m³/h	558 / 576	570 / 600	660 / 780
Moisture removal volume		l/h	1,4	2,0	2,8
Sound pressure level 3)	Cooling — Heating (Hi / Lo / S-Lo)	dB(A)	38 / 27 / 23 — 38 / 27 / 23	39 / 28 / 24 — 39 / 27 / 23	44 / 36 / 32 — 46 / 36 / 32
Dimensions / Net weight	H x W x D	mm / kg	600 x 700 x 210 / 14	600 x 700 x 210 / 14	600 x 700 x 210 / 14
Outdoor Unit			CU-E9PFE	CU-E12PFE	CU-E18PFE
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	46 / 47	48 / 50	47 / 48
Dimensions 4) / Net weight	H x W x D	mm / kg	542 x 780 x 289 / 33	619 x 824 x 299 / 34	695 x 875 x 320 / 46
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)
Piping length range / Elevation di		m	3 ~ 15 / 5	3 ~ 15 / 5	3 ~ 20 / 15
Pipe length for additional gas / A		m / g/m	7,5 / 20	7,5 / 20	7,5 / 20
Operating range	Cooling / Heating Min ~ Max	°C	+16 ~ +43 / -15 ~ +24	+16 ~ +43 / -15 ~ +24	+16 ~ +43 / -15 ~ +24

Accessories	
PAW-IR-WIFI-1	IR Wifi interface for Internet control

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 metre in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) Add 70mm for piping port.









CU-E18PFE







4 WAY 60x60 CASSETTE **INVERTER**



Specially designed for offices, retail and restaurant applications, this cassette fits perfectly into 60x60 or 70x70 ceiling grids.

Featuring the best efficiency in its category (heating and cooling up to -10°C, this new cassette in 9 and 12 kW versions can also be connected to KNX, Modbus, EnOcean interfaces for easy integration with your BMS systems. Interfaces have dry contacts (ON/ OFF, error message) to enable easy integration.

With the new Intesishome interface, you can also control the cassette from your smartphone and internet very easily!

Fit Panasonic's Cassette Type, and start to save all year round!

Technical focus

- Cassettes can be controlled by Intesishome, KNX, EnOcean and Modbus
- This units can be installed on R22 pipings
- Designed for easy installation in the standard European 60x60 ceiling grid
- Operation down to -10°C in cooling and heating modes
- Piping length up to 30 m
- Maximum elevation difference up to 20 m
- Ultra compact outdoor units for easy installation
- High pressure selector in case of high ceilings (higher than 2,7 m)
- Drain pump included (max. 750 mm high)
- · Air fresh entry available on the cassette

KIT			KIT-E9-PB4EA	KIT-E12-PB4EA	KIT-E18-RB4EA	KIT-E21-RB4EA
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,40 (0,85 - 4,00)	5,00 (0,90 - 5,80)	5,90 (0,90 - 6,30)
EER 1)	R 1) Nominal (Min - Max) W		4,55 (3,54 - 4,05) A	3,82 (3,54 - 3,33) A	3,13 (3,53 - 2,97) B	2,88 (3,53 - 2,86) C
SEER		W/W	5,80 A+	5,60 A+	5,80 <a+< td=""><td>5,60 <a+< td=""></a+<></td></a+<>	5,60 <a+< td=""></a+<>
Pdesign (cooling) kW		kW	2,50	3,40	5,00	5,90
Power input cooling	Nominal (Min - Max)	kW	0,550 (0,240 - 0,740)	0,890 (0,240 - 1,200)	1,600 (0,255 - 1,950)	2,050 (0,255 - 2,200)
Annual electricity consumption (c	cooling) ²⁾	kWh/a	151	213	302	369
Heating capacity Nominal (Min - Max)		kW	3,20 (0,85 - 4,80)	4,50 (0,85 - 5,60)	5,60 (0,90 - 7,10)	7,00 (0,90 - 8,00)
Heating capacity at -7°C	Nominal	kW	2,60	3,00		
COP 1)	Nominal (Min - Max)	W/W	4,00 (3,70 - 3,56) A	3,17 (3,7 - 2,80) D	3,01 (3,46 - 2,92) D	2,86 (3,46 - 2,84) D
SCOP	Nominal	W/W	4,00 A+	3,80 A	4,10 A+	4,10 A+
Pdesign at -10°C		kW	2,70	3,00	3,80	4,00
Power input heating	Nominal (Min - Max)	kW	0,800 (0,230 - 1,350)	1,420 (0,230 - 2,000)	1,860 (0,260 - 2,430)	2,450 (0,260 - 2,820)
Annual electricity consumption (h	nual electricity consumption (heating) 2) kWh/a			1.105	1.298	1.366
Indoor Unit			CS-E9PB4EA	CS-E12PB4EA	CS-E18RB4EAW	CS-E21RB4EAW
Power source	Power source V		230	230	230	230
Recommended fuse		Α	16	16	16	16
Connection		mm ²	4 x 1,5 to 2,5	4 x 1,5 to 2,5	4 x 1,5 to 2,5 4 x 1,5 to 2,5	
Air volume	Cooling / Heating	m³/h	630 / 648	630 / 648	690 / 708	744 / 876
Moisture removal volume		l/h	1,5	2,3	2,8	3,3
Sound pressure level 3)	Cooling — Heating (Hi / Lo / S-Lo)	dB(A)	34 / 26 / 23 — 35 / 28 / 25	34 / 26 / 23 — 35 / 28 / 25	37 / 28 / 25 — 38 / 29 / 26	42 / 33 / 30 — 43 / 34 / 31
Dimensions (H x W x D)	Indoor / Panel	mm	260 x 575 x 575 / 51 x 700 x 700	260 x 575 x 575 / 51 x 700 x 700	260 x 575 x 575 / 51 x 700 x 700	260 x 575 x 575 / 51 x 700 x 700
Net weight	Indoor / Panel	kg	18 / 2,5	18 / 2,5	18 / 2,5	18 / 2,5
Outdoor Unit	Outdoor Unit		CU-E9PB4EA	CU-E12PB4EA	CU-E18RBEA	CU-E21RBEA
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	45 / 46	45 / 47	47 / 48	49 / 50
Dimensions 4) / Net weight	H x W x D	mm / kg	622 x 824 x 299 / 36	695 x 875 x 320 / 45	695 x 875 x 320 / 47	695 x 875 x 320 / 47
Piping connections	Liquid / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Piping length range / Elevation di	fference (in/out)	m	3 ~ 20 / 15	3 ~ 20 / 15	3 ~ 30 / 20	3 ~ 30 / 20
Pipe length for additional gas / A	dditional gas amount	m / g/m	10 / 20	10 / 20	10 / 20	10 / 20
Operating range	Cooling — Heating (Min / Max)	°C	-10 ~ +43 / -10 ~ +24	-10 ~ +43 / -10 ~ +24	-10 ~ +43 / -10 ~ +24	-10 ~ +43 / -10 ~ +24

PAW-AC-WIFI-1 Full bidirectional Wifi interface for Internet control CZ-RD52CP Wired remote control for Cassette and Hide Away PAW-IP-WIFI-1 IP Wifi interface for Internet control CZ-RD52CP Wired remote control for Cassette and Hide Away CZ-CADDA1 H Generation interface to ECDi control interpration (available in June 2014)	Accessories		Accessories	
PAW-ID-WIFL-1 IP Wife interface for Internat control (2vailable in June 2016)	PAW-AC-WIFI-1	Full bidirectional Wifi interface for Internet control	CZ-RD52CP	Wired remote control for Cassette and Hide Away
TAVE IN VITE TO THE VITE TO THE VITE TO THE VITE TO THE VITE THE VITE TO THE V	PAW-IR-WIFI-1	IR Wifi interface for Internet control	CZ-CAPRA1	H Generation interface to ECOi control integration (available in June 2016)

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 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. 4) Add 70mm for piping port.













CII-F12PR4FA

CU-E18RBEA









Optional wired























LOW STATIC PRESSURE HIDE AWAY INVERTER



Designed for homes, offices, retail and restaurants, this Duct is ideal for small rooms where the air conditioning and the heating should be nicely integrated and where high comfort and

The new 9 and 12kW duct can also be connected to KNX, Modbus, EnOcean interfaces for easy integration with your BMS systems. This interfaces have dry contacts (ON/OFF, error message) for easy integration.

With the new Intesishome interface, you can control the Duct also from your smartphone and internet very easily!

Technical focus

- Duct type can be controlled by Intesishome, KNX, EnOcean and Modbus
- This units can be installed on R22 pipings
- Eco mode for 20% energy saving
- Extremely compact indoor units without losing static pressure (only 235 mm high)
- · Weekly timer, 42 settings per week
- Easy check mode for failure detection
- Drain pump included (max. 200 mm)

KIT			KIT-E9-PD3EA	KIT-E12-QD3EA	KIT-E18-RD3EA
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,40 (0,85 - 4,00)	5,10 (0,90 - 5,70)
EER 1) Nominal		W/W	4,24 (3,54 - 3,95) A	3,86 (3,54 - 3,45) A	3,19 (3,53 - 3,13) B
SEER		W/W	5,80 A+	5,60 A	5,80 A+
Pdesign (cooling) kt			2,50	3,40	5,10
Power input cooling Nominal (Min - Max)			0,590 (0,240 - 0,760)	0,880 (0,240 - 1,160)	1,600 (0,255 - 1,820)
Annual electricity consumption	(cooling) 2)	kWh/a	151	213	308
Heating capacity	Nominal (Min - Max)	kW	3,20 (0,85 - 4,60)	4,00 (0,85 - 5,10)	6,10 (0,90 - 7,10)
Heating capacity at -7°C	Nominal	kW	2,60	3,00	4,30
COP 1)	Nominal	W/W	3,72 (3,7 - 3,33) A	3,54 (3,7 - 3,29) B	3,33 (3,46 - 3,26) C
SCOP	Nominal	W/W	4,20 A+	3,80 A	3,90 A
Pdesign at -10°C		kW	2,60	2,90	4,00
Power input heating	Power input heating Nominal (Min - Max)		0,860 (0,230 - 1,380)	1,130 (0,230 - 1,550)	1,830 (0,260 - 2,180)
Annual electricity consumption (heating) 2)			867	1.068	1.436
Indoor Unit			CS-E9PD3EA	CS-E12QD3EAW	CS-E18RD3EAW
Power source '			230	230	230
Recommended fuse		Α	16	16	16
Connection		mm ²	4 x 1,5 to 2,5	4 x 1,5 to 2,5	4 x 1,5 to 2,5
External static pressure 3)	S-Hi / Hi / Me / Lo	Pa	N/A	N/A	N/A
Air volume	Cooling / Heating	m³/h	414 / 486	558 / 624	918 / 918
Moisture removal volume		l/h	1,50	2,30	2,80
Sound pressure level 4	Cooling — Heating (Hi / Lo / S-Lo)	dB(A)	33 / 27 / 24 — 35 / 28 / 25	34 / 27 / 24 — 36 / 28 / 25	41 / 30 / 27 — 41 / 32 / 29
Dimensions	H x W x D	mm	235 x 750 x 370	235 x 750 x 370	200 x 750 x 640
Net weight		kg	17	17	19
Outdoor Unit			CU-E9PD3EA	CU-E12QD3EA	CU-E18RBEA
Sound pressure level 4	Cooling / Heating (Hi)	dB(A)	47 / 47	47 / 48	47 / 48
Dimensions 5)	H x W x D	mm	622 x 824 x 299	695 x 875 x 320	695 x 875 x 320
Net weight		kg	36	45	47
Piping connections	Liquid / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)
Piping length range / Elevation		m	3 ~ 20 / 15	3 ~ 20 / 15	3 ~ 30 / 20
Pipe length for additional gas /	Additional gas amount	m	7,5 / 20	7,5 / 20	10 / 20
Operating range	Cooling / Heating Min ~ Max	°C	-10 ~ +43 / -10 ~ +24	-10 ~ +43 / -10 ~ +24	-10 ~ +43 / -10 ~ +24

Accessories		Accessories	
PAW-AC-WIFI-1	Full bidirectional Wifi interface for Internet control	CZ-RD52CP	Wired remote control for Cassette and Hide Away
PAW-IR-WIFI-1	IR Wifi interface for Internet control	CZ-CAPRA1	H Generation interface to ECOi control integration (available in June 2016)

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The 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. 4) The Sound pressure level of the units shows the value measured of a position of 1,5m below the unit with 1 m 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. 5) Add 100 mm for indoor unit or 70mm for outdoor unit for piping port.







































TZ MULTI SPLITSTANDARD INVERTER



${\sf TZ}$ Multi Inverter models are powerful and efficient and are always there when you need them.

New TZ Inverter models are powerful and efficient, with an outstanding energy ranking of A++/A+, unique in the market!

Day & Night. Ideal for 2 day and night areas. Simultaneous use possible. Simultaneous. When indoor units are most time working at same time.

Technical focus

- NEW! design
- $\boldsymbol{\cdot}$ This units can be installed on R22 pipings
- Wired Controller (optional)
- Complete line-up of standard Inverter models
- High energy savings
- · Long connection distance (from 15 m up to 30 m)

Top Sellers Kits

THE STATE OF THE S										
Rooms	Day & Night 2 Room			Day & Night 2 Rooms Day & Night 3 Rooms				Simultaneous 2 Rooms		
Kit*			KIT-2TZR99-SBE	KIT-2TZR712-SBE	KIT-2TZR912-SBE	KIT-3TZR7712-SBE	KIT-3TZR9912-SBE	KIT-2TZR99-SKE	KIT-2TZR712-SKE	KIT-2TZR912-SKE
Indoor Unit		CS-TZ9SKEW	CS-TZ12SKEW	CS-TZ12SKEW	CS-TZ12SKEW	CS-TZ12SKEW	CS-TZ9SKEW	CS-TZ12SKEW	CS-TZ12SKEW	
			CS-TZ9SKEW	CS-MTZ7SKE	CS-TZ9SKEW	CS-MTZ7SKE	CS-TZ9SKEW	CS-TZ9SKEW	CS-MTZ7SKE	CS-TZ9SKEW
						CS-MTZ7SKE	CS-TZ9SKEW			
Outdoor Unit		CU-2RE15SBE	CU-2RE15SBE	CU-2RE15SBE	CU-3RE18SBE	CU-3RE18SBE	CU-2RE18SBE	CU-2RE18SBE	CU-2RE18SBE	
Cooling capacity	Nominal (Min - Max)	kW	4,40 (1,50 - 4,80)	4,40 (1,50 - 4,80)	4,40 (1,50 - 4,80)	5,20 (1,90 - 7,20)	5,20 (1,90 - 7,20)	4,80 (1,50 - 5,00)	4,80 (1,50 - 4,90)	4,80 (1,50 - 5,00)
EER	Nominal	W/W	3,38 A	3,38 A	3,38 A	3,80 🗛	3,80 A	3,22 A	3,22 A	3,22 A
Heating capacity	Nominal (Min - Max)	kW	4,80 (1,10 - 6,50)	4,80 (1,10 - 6,50)	4,80 (1,10 - 6,50)	6,80 (1,60 - 8,30)	6,80 (1,60 - 8,30)	5,20 (1,10 - 6,70)	5,20 (1,10 - 6,70)	5,20 (1,10 - 6,70)
COP	Nominal	W/W	4,00 A	4,00 A	4,00 A	4,17 A	4,17 A	4,00 A	4,00 A	4,00 A
Indoor dimensions	H x W x D	mm	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204
Indoor net weight		kg	9	9	9	9	9	9	9	9

Other Multi Combinations TZ with Multi Standard Outdoors

Wall Mounted TZ / RE			1,6 kW	2,0 kW	2,5 kW	3,2 kW	4,0 kW	5,0 kW	7,1 kW
Indoor Unit TZ			CS-MTZ5SKE	CS-MTZ7SKE*	CS-TZ9SKEW*	CS-TZ12SKEW*	CS-TZ15SKEW*	CS-TZ18SKEW*	CS-TZ24SKEW**
Indoor Unit RE			_	CS-MRE7RKE	CS-RE9RKEW	CS-RE12RKEW	CS-RE15RKEW	CS-RE18RKEW	CS-RE24RKEW
Cooling capacity	Nominal	kW / kCal/h	1,60 / 1.380	2,00 / 1.720	2,50 / 2.150	3,20 / 2.750	4,00 / 3.440	5,00 / 4.300	7,00 / 6.580
Heating capacity	Nominal	kW / kCal/h	2,60 / 2.240	3,20 / 2.750	3,60 / 3.010	4,50 / 3.870	5,60 / 4.820	6,80 / 5.850	8,70 / 8.260
Connection		mm ²	4 x 1,5	4 x 1,5	4 x 1,5				
Sound pressure level ¹	Cooling (Hi / Lo / S-Lo)	dB(A)	_	_	40 / 26 / 20	42 / 30 / 20	44 / 31 / 29	44 / 37 / 34	47 / 38 / 35
	Heating (Hi / Lo / S-Lo)	dB(A)	_	_	40 / 27 / 24	42 / 33 / 25	44 / 35 / 28	44 / 37 / 34	47 / 38 / 35
Dimensions / Net weigh	t TZ H x W x D	mm / kg	290 x 870 x 204 / 9	290 x 870 x 204 / 9	290 x 1.070 x 235 / 1				
	RE H x W x D		_	290 x 870 x 214 / 9	290 x 1.070 x 240 / 12	290 x 1.070 x 240 /			
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) / 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)	1/4 (6.35) / 5/8 (15.4

Outdoor Unit			CU-2RE15SBE	CU-2RE18SBE	CU-3RE18SBE
Cooling capacity	Nominal (Min - Max)	kW	4,40 (1,50 - 4,80)	4,80 (1,50 - 5,00)	5,20 (1,80 - 7,30)
SEER	Nominal	W/W	6,50 A	6,50 A++	7,00 A++
Pdesign (cooling)		kW	4,4	4,8	5,2
Annual electricity consumption (coo	ling) ²	kWh/a	237	258	260
Heating capacity	Nominal (Min - Max)	kW	4,80 (1,10 - 6,50)	5,20 (1,10 - 6,70)	6,80 (1,60 - 8,30)
SCOP	Nominal	W/W	4,00 A+	4,00 A+	4,00 A+
Pdesign at -10°C		kW	3,6	3,8	4,8
Annual electricity consumption (heating) ²		kWh/a	1.260	1.330	1.680
Sound pressure level ¹	Cooling / Heating (Hi)	dB(A)	47 / 49	49 / 51	46 / 47
Dimensions ³ / Net weight	H x W x D	mm / kg	619 x 824 x 299 / 39	619 x 824 x 299 / 39	795 x 875 x 320 / 71
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) / 3/8 (9,52)
Elevation difference (in/out)		m	10	10	15
Piping length total / to one unit Min ~ Max m		m	- ~ 30 / 3 ~ 20	- ~ 30 / 3 ~ 20	- ~ 50 / 3 ~ 25
Pipe length for additional gas / Addi	tional gas amount	m / g/m	20 / 15	20 / 15	30 / 20
Operating range	Cooling / Heating Min ~ Max	°C	+16 ~ +43 / -10 ~ +24	+16 ~ +43 / -10 ~ +24	+16 ~ +43 / -10 ~ +24

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. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) Add 70 or 95 mm for piping port. Minimum quantity of connection: 2 indoor units. * Available in April 2016. ** Available in May 2016.





















CU-3RE18SBE

ETHEREA MULTI SPLIT INVERTER+



Etherea with enhanced Econavi sensor and new Nanoe air-purifying system: outstanding efficiency, comfort and healthy air combined with state-of-the-art

Using a Multi Split Inverter+ system you reduce consumption and thus save more! Up to 34%! Furthermore, using a Multi Split system, you save space on the outdoor unit, making it easier to install in small spaces.

Technical focus

- NEW! design
- This units can be installed on R22 pipings
- Maximum efficiency and comfort with Econavi, now with sunlight detection
- Nanoe air purifying system, 99% effective on both airborne and adhesive mould, viruses and bacteria
- Optional smartphone control
- More powerful airflow to quickly reach the desired temperature

Top Sellers Kits

Rooms			Day & Night 2 Ro	oms		Day & Night 3 Ro		Simultaneous 2	Rooms		Simultaneous 3	Rooms
Kit Silver Plated			KIT-2E99-SBE	KIT-2E712-SBE	KIT-2E912-SBE	KIT-3E7712-SBE	KIT-3E9912-SBE	KIT-2E99-SKE	KIT-2E712-SKE	KIT-2E912-SKE	KIT-3E7712-SKE	KIT-3E9912-SKE
Indoor Unit Silver P	lated		CS-XZ9SKEW	CS-XZ12SKEW	CS-XZ12SKEW	CS-XZ12SKEW	CS-XZ12SKEW	CS-XZ9SKEW	CS-XZ12SKEW	CS-XZ12SKEW	CS-XZ12SKEW	CS-XZ12SKEW
			CS-XZ9SKEW	CS-XZ7SKEW	CS-XZ9SKEW	CS-XZ7SKEW	CS-XZ9SKEW	CS-XZ9SKEW	CS-XZ7SKEW	CS-XZ9SKEW	CS-XZ7SKEW	CS-XZ9SKEW
						CS-XZ7SKEW	CS-XZ9SKEW				CS-XZ7SKEW	CS-XZ9SKEW
Kit White Gloss			KIT-2E99-SBEG	KIT-2E712-SBEG	KIT-2E912-SBEG	KIT-3E7712-SBEG	KIT-3E9912-SBEG	KIT-2E99-SKEG	KIT-2E712-SKEG	KIT-2E912-SKEG	KIT-3E7712-SKEG	KIT-3E9912-SKEG
Indoor Unit White G	iloss		CS-Z9SKEW	CS-Z12SKEW	CS-Z12SKEW	CS-Z12SKEW	CS-Z12SKEW	CS-Z9SKEW	CS-Z12SKEW	CS-Z12SKEW	CS-Z12SKEW	CS-Z12SKEW
			CS-Z9SKEW	CS-Z7SKEW	CS-Z9SKEW	CS-Z7SKEW	CS-Z9SKEW	CS-Z9SKEW	CS-Z7SKEW	CS-Z9SKEW	CS-Z7SKEW	CS-Z9SKEW
						CS-Z7SKEW	CS-Z9SKEW				CS-Z7SKEW	CS-Z9SKEW
Kit White Matt			KIT-2E99-SBEM	KIT-2E712-SBEM	KIT-2E912-SBEM	KIT-3E7712-SBEM	KIT-3E9912-SBEM	KIT-2E99-SKEM	KIT-2E712-SKEM	KIT-2E912-SKEM	KIT-3E7712-SKEM	KIT-3E9912-SKEM
Indoor Unit White N	1att		CS-Z9SKEW-M	CS-Z12SKEW-M	CS-Z12SKEW-M	CS-Z12SKEW-M	CS-Z12SKEW-M	CS-Z9SKEW-M	CS-Z12SKEW-M	CS-Z12SKEW-M	CS-Z12SKEW-M	CS-Z12SKEW-M
			CS-Z9SKEW-M	CS-Z7SKEW-M	CS-Z9SKEW-M	CS-Z7SKEW-M	CS-Z9SKEW-M	CS-Z9SKEW-M	CS-Z7SKEW-M	CS-Z9SKEW-M	CS-Z7SKEW-M	CS-Z9SKEW-M
						CS-Z7SKEW-M	CS-Z9SKEW-M				CS-Z7SKEW-M	CS-Z9SKEW-M
Outdoor Unit			CU-2E15SBE	CU-2E15SBE	CU-2E15SBE	CU-3E18PBE	CU-3E18PBE	CU-2E18SBE	CU-2E18SBE	CU-2E18SBE	CU-3E23SBE	CU-3E23SBE
Cooling capacity	Nominal (Min - Max)	kW	4,50 (1,50 - 5,20)	4,50 (1,50 - 5,20)	4,50 (1,50 - 5,20)	5,20 (1,90 - 7,20)	5,20 (1,90 - 7,20)	5,00 (1,50 - 5,20)	5,20 (1,50 - 5,40)	5,20 (1,50 - 5,40)	6,80 (1,90 - 8,00)	6,80 (1,90 - 8,00)
EER	Nominal	W/W	3,66 A	3,66 A	3,66 A	4,48 A	4,48 A	3,47 A	3,42 A	3,42 A	3,56 A	3,56 A
Heating capacity	Nominal (Min - Max)	kW	5,40 (1,10 - 7,00)	5,40 (1,10 - 7,00)	5,40 (1,10 - 7,00)	6,80 (1,60 - 8,30)	6,80 (1,60 - 8,30)	5,60 (1,10 - 7,20)	5,60 (1,10 - 7,20)	5,60 (1,10 - 7,20)	8,50 (3,30 - 10,40)	8,50 (3,30 - 10,40)
COP	Nominal	W/W	4,62 A	4,62 A	4,62 A	4,79 A	4,79 A	4,63 A	4,63 A	4,63 A	4,09 A	4,09 A
Indoor dimensions	H x W x D	mm	295 x 870 x 255	295 x 870 x 255								
Indoor net weight		kg	10	10	10	10	10	10	10	10	10	10

^{*} Available in April 2016.





















FREE MULTI SYSTEM



Up to 5 indoor units with a single outdoor unit

Connect up to five different rooms with a single outdoor unit using the Free Multi system. With Free Multi you can take care of 2, 3, 4 or 5 rooms with a single outdoor unit. With the Free Multi range, your clients will be able to save space at the time of installing the outdoor unit, and they will have more energy efficiency than with conventional 1x1 systems. They will be able to achieve energy savings of up to 30%.

Choose the indoor units according to the individual requirements of each of your client's rooms, and calculate which outdoor unit best adapts itself to the combinations of indoor

The combination table will help you to select the best option.



CZ-MA1P is to be used to reduce the connection size on the indoor unit from 1/2" to 3/8".
CZ-MA2P is to be used to increase the connection size on the outdoor unit from 3/8" to 1/2".
CZ-MA3P is to be used to reduce the connection size on the indoor unit from 5/8" to 1/2".

Possible outdoor/indoor units combinations		System Capacity (Min - Max)	Indoor Unit capacity	Etherea	Wall Mounted TZ and RE	Floor Console	Low Static Pressure Hide Away	4 Way 60x60 Casset
					-			
CU-2E12SBE		3,2kW	5 - 1,6kW	CS-MZ5SKE / CS-MZ5SKE-M / CS-ME5PKE	CS-MTZ5SKE			
2 Rooms)	MA =		7 - 2,0kW	CS-XZ7SKEW / CS-Z7SKEW / CS-Z7SKEW-M / CS-XE7QKEW / CS-E7QKEW	CS-MTZ7SKE / CS-MRE7RKE			
		5,7kW	9/10 - 2,5kW1	CS-XZ9SKEW / CS-Z9SKEW / CS-Z9SKEW-M / CS-XE9QKEW / CS-E9QKEW	CS-TZ9SKEW / CS-RE9RKEW	CS-E9GFEW	CS-E9PD3EA	CS-E9PB4EA
	4000		12 - 3,2kW	CS-XZ12SKEW / CS-Z12SKEW / CS-Z12SKEW-M / CS-XE12QKEW / CS-E12QKEW	CS-TZ12SKEW / CS-RE12RKEW	CS-E12GFEW	CS-E12QD3EAW2	CS-E12PB4EA2
U-2E15SBE		3,2kW	5 - 1,6kW	CS-MZ5SKE / CS-MZ5SKE-M / CS-ME5PKE	CS-MTZ5SKE			
2 Rooms)	MB =	-	7 - 2,0kW	CS-XZ7SKEW / CS-Z7SKEW / CS-Z7SKEW-M / CS-XE7QKEW / CS-E7QKEW	CS-MTZ7SKE / CS-MRE7RKE			
		5,7kW	9/10 - 2,5kW1	CS-XZ9SKEW / CS-Z9SKEW / CS-Z9SKEW-M / CS-XE9QKEW / CS-E9QKEW	CS-TZ9SKEW / CS-RE9RKEW	CS-E9GFEW	CS-E9PD3EA	CS-E9PB4EA
	Allin,		12 - 3,2kW	CS-XZ12SKEW / CS-Z12SKEW / CS-Z12SKEW-M / CS-XE12QKEW / CS-E12QKEW	CS-TZ12SKEW / CS-RE12RKEW	CS-E12GFEW	CS-E12QD3EAW2	CS-E12PB4EA2
U-2E18SBE		3,2kW	5 - 1,6kW	CS-MZ5SKE / CS-MZ5SKE-M / CS-ME5PKE	CS-MTZ5SKE			
Rooms)			7 - 2.0kW	CS-XZ7SKEW / CS-Z7SKEW / CS-Z7SKEW-M / CS-XE7QKEW / CS-E7QKEW	CS-MTZ7SKE / CS-MRE7RKE			
		7,5kW	9/10 - 2,5kW1	CS-XZ9SKEW / CS-Z9SKEW / CS-Z9SKEW-M / CS-XE9QKEW / CS-E9QKEW	CS-TZ9SKEW / CS-RE9RKEW	CS-E9GFEW	CS-E9PD3EA	CS-E9PB4EA
	MA -		12 - 3,2kW	CS-XZ12SKEW / CS-Z12SKEW / CS-Z12SKEW-M / CS-XE12QKEW / CS-E12QKEW	CS-TZ12SKEW / CS-RE12RKEW	CS-E12GFEW	CS-E12QD3EAW ²	CS-E12PB4EA2
			15 - 4.0kW	CS-Z15SKEW / CS-Z15SKEW-M ² / CS-E15QKEW ²	CS-TZ15SKEW / CS-RE15RKEW			
	-		18 - 5,0kW	CS-XZ18SKEW ² / CS-Z18SKEW / CS-Z18SKEW-M ² / CS-XE18QKEW ² / CS-E18QKEW ²	CS-TZ18SKEW / CS-RE18RKEW	CS-E18GFEW ²	CS-E18RD3EAW	CS-E18RB4EAW
U-3E18PBE		4,5kW	5 - 1,6kW	CS-MZ5SKE / CS-MZ5SKE-M / CS-ME5PKE	CS-MTZ5SKE			
3 Rooms)			7 - 2,0kW	CS-XZ7SKEW / CS-Z7SKEW / CS-Z7SKEW-M / CS-XE7QKEW / CS-E7QKEW	CS-MTZ7SKE / CS-MRE7RKE			
	-	9,0kW		CS-XZ9SKEW / CS-Z9SKEW / CS-Z9SKEW-M / CS-XE9QKEW / CS-E9QKEW	CS-TZ9SKEW / CS-RE9RKEW	CS-E9GFEW	CS-E9PD3EA	CS-E9PB4EA
			12 - 3.2kW	CS-XZ12SKEW / CS-Z12SKEW / CS-Z12SKEW-M / CS-XE12QKEW / CS-E12QKEW	CS-TZ12SKEW / CS-RE12RKEW	CS-E12GFEW	CS-E12QD3EAW ²	CS-E12PB4EA2
100		15 - 4,0kW	CS-Z15SKEW / CS-Z15SKEW-M ² / CS-E15QKEW ²	CS-TZ15SKEW / CS-RE15RKEW				
	11		18 - 5,0kW	CS-XZ18SKEW ² / CS-Z18SKEW / CS-Z18SKEW-M ² / CS-XE18QKEW ² / CS-E18QKEW ²	CS-TZ18SKEW / CS-RE18RKEW	CS-E18GFEW ²	CS-E18RD3EAW	CS-E18RB4EAW
U-3E23SBE		4,5kW	5 - 1,6kW	CS-MZ5SKE / CS-MZ5SKE-M / CS-ME5PKE	CS-MTZ5SKE			
3 Rooms)		-	7 - 2,0kW	CS-XZ7SKEW / CS-Z7SKEW / CS-Z7SKEW-M / CS-XE7QKEW / CS-E7QKEW	CS-MTZ7SKE / CS-MRE7RKE			
		11,0kW		CS-XZ9SKEW / CS-Z9SKEW / CS-Z9SKEW-M / CS-XE9QKEW / CS-E9QKEW	CS-TZ9SKEW / CS-RE9RKEW	CS-E9GFEW	CS-E9PD3EA	CS-E9PB4EA
	-		12 - 3.2kW	CS-XZ12SKEW / CS-Z12SKEW / CS-Z12SKEW-M / CS-XE12QKEW / CS-E12QKEW	CS-TZ12SKEW / CS-RE12RKEW	CS-E12GFEW	CS-E12QD3EAW ²	CS-E12PB4EA ²
			15 - 4.0kW	CS-Z15SKEW / CS-Z15SKEW-M ² / CS-E15QKEW ²	CS-TZ15SKEW / CS-RE15RKEW	00 21201211	OU ETEMBOLIST	00 2121 0121
	N. F.		18 - 5,0kW	CS-XZ18SKEW ² / CS-Z18SKEW / CS-Z18SKEW-M ² / CS-XE18QKEW ² / CS-E18QKEW ²	CS-TZ18SKEW / CS-RE18RKEW	CS-E18GFEW ²	CS-E18RD3EAW	CS-E18RB4EAW
	11		21 - 6,8kW	CS-E21QKEW ²	do retolitery do retoliter	00 21001211	OU ETUNDOETHY	CS-E21RB4EAW
U-4E23PBE		4,5kW	5 - 1,6kW	CS-MZ5SKE / CS-MZ5SKE-M / CS-ME5PKE	CS-MTZ5SKE			OU CETTIONES
4 Rooms)			7 - 2,0kW	CS-XZ7SKEW / CS-Z7SKEW / CS-Z7SKEW-M / CS-XE7QKEW / CS-E7QKEW	CS-MTZ7SKE / CS-MRE7RKE			
,		11,0kW		CS-XZ9SKEW / CS-Z9SKEW / CS-Z9SKEW-M / CS-XE9QKEW / CS-E9QKEW	CS-TZ9SKEW / CS-RE9RKEW	CS-E9GFEW	CS-E9PD3EA	CS-E9PB4EA
	-	,	12 - 3,2kW	CS-XZ12SKEW / CS-Z12SKEW / CS-Z12SKEW-M / CS-XE12QKEW / CS-E12QKEW	CS-TZ12SKEW / CS-RE12RKEW	CS-E12GFEW	CS-E12QD3EAW2	CS-E12PB4EA2
	-		15 - 4.0kW	CS-Z15SKEW / CS-Z15SKEW-M ² / CS-E15QKEW ²	CS-TZ15SKEW / CS-RE15RKEW			
	1		18 - 5,0kW	CS-XZ18SKEW ² / CS-Z18SKEW / CS-Z18SKEW-M ² / CS-XE18QKEW ² / CS-E18QKEW ²	CS-TZ18SKEW / CS-RE18RKEW	CS-E18GFEW ²	CS-E18RD3EAW	CS-E18RB4EAW
	11		21 - 6,8kW	CS-E21QKEW ²	CO TETODIETT / CO TETOTICET	00 21001211	OU ETUNDOETHY	CS-E21RB4EAW
U-4E27PBE		4,5kW	5 - 1,6kW	CS-MZ5SKE / CS-MZ5SKE-M / CS-ME5PKE	CS-MTZ5SKE			
4 Rooms)		-	7 - 2.0kW	CS-XZ7SKEW / CS-Z7SKEW / CS-Z7SKEW-M / CS-XE7QKEW / CS-E7QKEW	CS-MTZ7SKE / CS-MRE7RKE			
		13,6kW		CS-XZ9SKEW / CS-Z9SKEW / CS-Z9SKEW-M / CS-XE9QKEW / CS-E9QKEW	CS-TZ9SKEW / CS-RE9RKEW	CS-E9GFEW	CS-E9PD3EA	CS-E9PB4EA
	_		12 - 3,2kW	CS-XZ12SKEW / CS-Z12SKEW / CS-Z12SKEW-M / CS-XE12QKEW / CS-E12QKEW	CS-TZ12SKEW / CS-RE12RKEW	CS-E12GFEW	CS-E12QD3EAW ²	CS-E12PB4EA2
	-		15 - 4,0kW	CS-Z15SKEW / CS-Z15SKEW-M ² / CS-E15QKEW ²	CS-TZ15SKEW / CS-RE15RKEW			
	- CES		18 - 5,0kW	CS-XZ18SKEW ² / CS-Z18SKEW / CS-Z18SKEW-M ² / CS-XE18QKEW ² / CS-E18QKEW ²	CS-TZ18SKEW / CS-RE18RKEW	CS-E18GFEW ²	CS-E18RD3EAW	CS-E18RB4EAW
			21 - 6,8kW	CS-E21QKEW ²				CS-E21RB4EAW
			24 - 7,1kW	CS-E24QKEW ²				
U-5E34PBE		4,5kW	5 - 1,6kW	CS-MZ5SKE / CS-MZ5SKE-M / CS-ME5PKE	CS-MTZ5SKE			
5 Rooms)		-	7 - 2,0kW	CS-XZ7SKEW / CS-Z7SKEW / CS-Z7SKEW-M / CS-XE7QKEW / CS-E7QKEW	CS-MTZ7SKE / CS-MRE7RKE			
		17,5kW		CS-XZ9SKEW / CS-Z9SKEW / CS-Z9SKEW-M / CS-XE9QKEW / CS-E9QKEW	CS-TZ9SKEW / CS-RE9RKEW	CS-E9GFEW	CS-E9PD3EA	CS-E9PB4EA
		,	12 - 3,2kW	CS-XZ12SKEW / CS-Z12SKEW / CS-Z12SKEW-M / CS-XE12QKEW / CS-E12QKEW	CS-TZ12SKEW / CS-RE12RKEW	CS-E12GFEW	CS-E12QD3EAW2	CS-E12PB4EA ²
			15 - 4,0kW	CS-Z15SKEW / CS-Z15SKEW-M² / CS-E15QKEW²	CS-TZ15SKEW / CS-RE15RKEW			
	4		18 - 5.0kW	CS-XZ18SKEW ² / CS-Z18SKEW / CS-Z18SKEW-M ² / CS-XE18QKEW ² / CS-E18QKEW ²	CS-TZ18SKEW / CS-RE18RKEW	CS-E18GFEW ²	CS-E18RD3EAW	CS-E18RB4EAW
			21 - 6,8kW	CS-E21QKEW ²		00 27007277		CS-E21RB4EAW
			24 - 7,1kW	CS-E240KEW ²	1			























Etherea			1,6 kW	2,0 kW	2,5 kW	3,2 kW	4,0 kW	5,0 kW
Indoor Unit Silver Plated*			_	CS-XZ7SKEW	CS-XZ9SKEW	CS-XZ12SKEW	_	CS-XZ18SKEW
Indoor Unit White Gloss (SKEW)** / Matt (SKEW-M)*			CS-MZ5SKE / SKE-M	CS-Z7SKEW / SKEW-M	CS-Z9SKEW / SKEW-M	CS-Z12SKEW / SKEW-M	CS-Z15SKEW / SKEW-M	CS-Z18SKEW / SKEW-M
Cooling capacity	Nominal	kW / kCal/h	1,60 / 1.380	2,00 / 1.720	2,50 / 2.150	3,20 / 2.750	4,00 / 3.440	5,00 / 4.300
Heating capacity	Nominal	kW / kCal/h	2,60 / 2.240	3,20 / 2.750	3,60 / 3.010	4,50 / 3.870	5,60 / 4.820	6,80 / 5.850
Connection		mm ²	4 x 1,5	4 x 1,5				
Sound pressure level ¹	Cooling (Hi / Lo / S-Lo)	dB(A)	39 / 29 / 23	40 / 26 / 23	40 / 26 / 23	44 / 32 / 26	44 / 32 / 26	46 / 33 / 30
	Heating (Hi / Lo / S-Lo)	dB(A)	39 / 29 / 23	40 / 26 / 23	40 / 26 / 23	44 / 32 / 26	44 / 33 / 32	46 / 35 / 32
Dimensions / Net weight	t H x W x D	mm / kg	295 x 870 x 255 / 9	290 x 1.070 x 255 / 12				
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) / 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)

^{*} Available in June 2016. ** Available in April 2016.

Etherea		1,6 kW	2,0 kW	2,5 kW	3,2 kW	4,0 kW	5,0 kW	6,0 kW	7,1 kW	
Indoor Unit Silver Plate	ed	_	CS-XE7QKEW	CS-XE9QKEW	CS-XE12QKEW	_	CS-XE18QKEW	_	_	
Indoor Unit White			CS-ME5PKE	CS-E7QKEW	CS-E9QKEW	CS-E12QKEW	CS-E15QKEW	CS-E18QKEW	CS-E21QKEW	CS-E24QKEW
Cooling capacity	Nominal	kW / kCal/h	1,60 / 1.380	2,00 / 1.720	2,50 / 2.150	3,20 / 2.750	4,00 / 3.440	5,00 / 4.300	6,00 / 5.160	7,00 / 6.580
Heating capacity	Nominal	kW / kCal/h	2,60 / 2.240	3,20 / 2.750	3,60 / 3.010	4,50 / 3.870	5,60 / 4.820	6,80 / 5.850	8,50 / 7.310	8,70 / 8.260
Connection		mm ²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5				
Sound pressure level ³	Cooling (Hi / Lo / S-Lo)	dB(A)	39 / 29 / 23	40 / 26 / 23	40 / 26 / 23	44 / 32 / 26	44 / 32 / 26	46 / 33 / 30	46 / 33 / 30	49 / 38 / 35
	Heating (Hi / Lo / S-Lo)	dB(A)	39 / 29 / 23	40 / 26 / 23	40 / 26 / 23	44 / 32 / 26	44 / 33 / 32	46 / 35 / 32	46 / 35 / 32	48 / 38 / 35
Dimensions / Net weight	t H x W x D	mm / kg	295 x 870 x 255 / 9	290 x 1.070 x 255 / 12	290 x 1.070 x 255 / 12	290 x 1.070 x 255 / 12				
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) / 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)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)

Wall Mounted TZ / RE			1,6 kW	2,0 kW	2,5 kW	3,2 kW	4,0 kW	5,0 kW	7,1 kW
Indoor Unit TZ			CS-MTZ5SKE	CS-MTZ7SKE*	CS-TZ9SKEW*	CS-TZ12SKEW*	CS-TZ15SKEW*	CS-TZ18SKEW*	CS-TZ24SKEW**
Indoor Unit RE			_	CS-MRE7RKE	CS-RE9RKEW	CS-RE12RKEW	CS-RE15RKEW	CS-RE18RKEW	CS-RE24RKEW
Cooling capacity	Nominal	kW / kCal/h	1,60 / 1.380	2,00 / 1.720	2,50 / 2.150	3,20 / 2.750	4,00 / 3.440	5,00 / 4.300	7,00 / 6.580
Heating capacity	Nominal	kW / kCal/h	2,60 / 2.240	3,20 / 2.750	3,60 / 3.010	4,50 / 3.870	5,60 / 4.820	6,80 / 5.850	8,70 / 8.260
Connection		mm ²	4 x 1,5	4 x 1,5	4 x 1,5				
Sound pressure level ¹	Cooling (Hi / Lo / S-Lo)	dB(A)	_	_	40 / 26 / 20	42 / 30 / 20	44 / 31 / 29	44 / 37 / 34	47 / 38 / 35
	Heating (Hi / Lo / S-Lo)	dB(A)	_	_	40 / 27 / 24	42 / 33 / 25	44 / 35 / 28	44 / 37 / 34	47 / 38 / 35
Dimensions / Net weight	t TZ H x W x D	mm / kg	290 x 870 x 204 / 9	290 x 870 x 204 / 9	290 x 1.070 x 235 / 12				
	RE H x W x D		_	290 x 870 x 214 / 9	290 x 1.070 x 240 / 12	290 x 1.070 x 240 / 12			
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) / 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)	1/4 (6,35) / 5/8 (15,88)

^{*} Available in April 2016. ** Available in May 2016.

			Floor Console			Low Static Pressure Hide Away			
			2,8 kW	3,2 kW	5,0 kW	2,5 kW	3,2 kW	5,0 kW	
Indoor			CS-E9GFEW	CS-E12GFEW	CS-E18GFEW	CS-E9PD3EA	CS-E12QD3EAW	CS-E18RD3EAW	
Cooling capacity	Nominal	kW / kCal/h	2,80 / 2.410	3,20 / 2.750	5,00 / 4.300	2,50 / 2.150	3,40 / 2.920	5,10	
Heating capacity	Nominal	kW / kCal/h	4,00 / 3.440	4,50 / 3.870	6,80 / 5.850	3,20 / 2.752	4,00 / 3.440	6,10	
Connection		mm ²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5 to 2,5	4 x 1,5 to 2,5	4 x 1,5 to 2,5	
Sound pressure level ³	Cooling (Hi / Lo / S-Lo)	dB(A)	38 / 27 / 23	39 / 28 / 24	44 / 36 / 32	33 / 27 / 24	34 / 27 / 24	41 / 30 / 27	
	Heating (Hi / Lo / S-Lo)	dB(A)	38 / 27 / 23	39 / 27 / 23	46 / 36 / 32	35 / 28 / 25	36 / 28 / 25	41 / 32 / 29	
Dimensions / Net weight	t H x W x D	mm / kg	600 x 700 x 210 / 14	600 x 700 x 210 / 14	600 x 700 x 210 / 14	235 x 750 x 370 / 17	235 x 750 x 370 / 17	200 x 750 x 640 / 19	
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) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	

4 Way 60x60 Cassette			2,5 kW	3,2 kW	5,0 kW	6,0 kW
Indoor / Panel			CS-E9PB4EA / CZ-BT20E	CS-E12PB4EA / CZ-BT20E	CS-E18RB4EAW / CZ-BT20E	CS-E21RB4EAW / CZ-BT20E
Cooling capacity	Nominal	kW / kCal/h	2,50 / 2.150	3,40 / 2.920	5,00 / 4.300	5,90 / 5.070
Heating capacity	Nominal	kW / kCal/h	3,20 / 2.752	4,50 / 3.870	5,60 / 4.820	7,00 / 6.020
Connection		mm ²	4 x 1,5 to 2,5			
Sound pressure level ³	Cooling (Hi / Lo / S-Lo)	dB(A)	34 / 26 / 23	34 / 26 / 23	37 / 28 / 25	42 / 33 / 30
	Heating (Hi / Lo / S-Lo)	dB(A)	35 / 28 / 25	35 / 28 / 25	38 / 29 / 26	43 / 34 / 31
Dimensions / Net weight	Indoor (Panel) H x W x D	mm / kg	260 x 575 x 575 / 18 (51 x 700 x 700 / 2,5)	260 x 575 x 575 / 18 (51 x 700 x 700 / 2,5)	260 x 575 x 575 / 18 (51 x 700 x 700 / 2,5)	260 x 575 x 575 / 18 (51 x 700 x 700 / 2,5)
Piping connections	Liquid pipe / Gas pipe	Inch (mm)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)

			1							
Outdoor Unit				3,2 to 5,7 kW	3,2 to 7,5 kW	4,5 to 9,0 kW	4,5 to 11,0 kW	4,5 to 11,0 kW	4,5 to 13,6 kW	4,5 to 17,5 kW
Unit				CU-2E15SBE*	CU-2E18SBE*	CU-3E18PBE	CU-3E23SBE*	CU-4E23PBE	CU-4E27PBE	CU-5E34PBE
Cooling capacity		kW	3,60 (1,50 - 4,50)	4,50 (1,50 - 5,20)	5,20 (1,50 - 5,40)	5,20 (1,80 - 7,30)	6,80 (1,90 - 8,00)		8,00 (3,00 - 9,20)	10,00 (2,90 - 11,5)0
EER 1)	Nominal	W/W	4,50 (6,00 - 4,09)	3,66 (6,00 - 3,42)	3,42 (6,00 - 3,42)	4,33 (5,00 - 3,24)	3,56 (7,04 - 3,38)	3,21 (5,59 - 2,63)	4,04 (5,66 - 3,21) A	3,5 (5,27 - 2,98) A
SEER	Nominal	W/W	6,50 A++	6,50 A++	6,50 A++	5,60 A+	7,00 A++	5,60 A+	7,00 A++	6,50 A++
Pdesign (cooling)		kW	3,6	4,5	5,2	5,2	6,8	6,8	8,0	10,0
Power input cooling	Nominal (Min - Max)	kW	0,800 (0,250 - 1,100)	1,230 (0,250 - 1,520)	1,520 (0,250 - 1,580)	1,270 (0,360 - 2,250)	1,910 (0,270 - 2,370)	2,120 (0,340 - 3,040)	1,980 (0,530 - 2,870)	2,860 (0,550 - 3,860)
Annual electricity cons	umption (cooling) 2)	kWh/a	194	242	280	260	955	340	400	538
Heating capacity	Nominal (Min - Max)	kW	4,40 (1,10 - 5,60)	5,40 (1,10 - 7,00)	5,60 (1,10 - 7,20)	6,80 (1,60 - 8,30)	8,50 (3,30 - 10,40)	8,50 (3,00 - 10,40)	9,40 (4,20 - 10,60)	12,00 (3,40 - 14,50)
Heating capacity at -7°	C Nominal	kW	3,54	3,54	3,65	4,90	6,05	6,05	7,08	8,85
COP 1)	Nominal	W/W	4,63 (5,24 - 4,41)	4,62 (5,24 - 4,19)	4,63 (5,24 - 4,24)	4,47 (5,00 - 3,81)	4,07 (5,32 - 3,74)	3,66 (5,17 - 3,54)	4,52 (6,00 - 3,46) A	4,20 (6,42 - 3,42) A
SCOP	Nominal	W/W	4,00 A+	4,00 A+	4,00 A+	3,80 A	4,00 A+	4,00 A+	4,00 A+	4,00 A+
Pdesign at -10°C		kW	4,0	4,0	4,2	4,8	5,2	5,2	8,0	10,0
Power input heating	Nominal (Min - Max)	kW	0,950 (0,210 - 1,270)	1,170 (0,210 - 1,670)	1,210 (0,210 - 1,700)	1,520 (0,320 - 2,180)	2,090 (0,620 - 2,780)	2,320 (0,580 - 2,940)	2,080 (0,700 - 3,060)	2,860 (0,530 - 4,240)
Annual electricity cons	umption (heating) 2)	kWh/a	1.400	1.400	1.470	1.680	1.820	1.925	2.800	3.500
Current	Cooling / Heating	Α	3,75 / 4,20	5,75 / 5,20	7,10 / 5,35	5,30 / 6,70	8,40 / 9,60	7,50 / 8,80	9,40 / 9,80	13,20 / 13,40
Power source		٧	230	230	230	230	230	230	230	230
Recommended fuse		Α	16	16	16	16	16	20	20	25
Recommended power of	able section	mm ²	2,5	2,5	2,5	2,5	2,5	2,5	2,5	3,5
Sound pressure level 3)	Cooling / Heating (Hi)	dB(A)	47 / 49	47 / 49	49 / 51	46 / 47	50 / 51	50 / 51	51 / 52	53 / 54
Dimensions 4) / Net weigh	t H x W x D	mm / kg	619 x 824 x 299 / 39	619 x 824 x 299 / 39	619 x 824 x 229 / 39	795 x 875 x 320 / 71	795 x 875 x 320 / 71	795 x 875 x 320 / 72	999 x 940 x 340 / 80	999 x 940 x 340 / 81
Piping connections	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas 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)	3/8 (9,52)
Elevation difference (in	/out)	m	10	10	10	15	15	15	15	15
Piping length total	Min ~ Max	m	3 ~ 30	3 ~ 30	3 ~ 30	3 ~ 50	- ~ 60	- ~ 60	- ~ 80	- ~ 80
Piping length to one un	it Min ~ Max	m	3 ~ 20	3 ~ 20	3 ~ 20	3 ~ 25	3 ~ 25	3 ~ 25	3 ~ 25	3 ~ 25
	gas / Additional gas amount	m/g/m	20 / 15	20 / 15	20 / 15	30 / 20	30 / 20	30 / 20	45 / 20	45 / 20
Operating range	Cooling Min ~ Max	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heating Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24