



ETHEREA

NEW ETHEREA RANGE
MORE EFFICIENCY
MORE SAVINGS



Panasonic

ideas for life



'ECO IDEAS' FOR LIFESTYLES: WE WILL PROMOTE LIFESTYLES WITH VIRTUALLY ZERO CO₂ EMISSIONS THROUGHOUT THE WORLD. SPECIFICALLY:

- 30% of total sales will be achieved through "eco labeled" products. This includes both external labels such as EU eco flower, Blue Angel or Nordic Swan, and our internal 'eco ideas' label, which is given to products which achieve industry-leading environmental performance.¹⁾
- 3,500,000t of contribution in reducing CO₂ emissions with energy solution products (such as Solar Panels, Fuel Cells, Heat Pumps, Energy Recovering Ventilation, LED and Energy Saving Lamps).²⁾
- Educate 100,000 children on eco related topics through the 'kids school – eco learning' programme.

'ECO IDEAS' FOR BUSINESS-STYLES: WE WILL CREATE AND PURSUE BUSINESS-STYLES THAT MAKE THE BEST USE OF RESOURCES AND ENERGY:

- 99% of waste materials generated in European production will be recycled³⁾, meaning less than 1% will be allowed to go to landfill.
- 1,000t of reduction in CO₂ emissions from Panasonic's offices across Europe.⁴⁾
- 7,000t of contribution in reducing CO₂ emissions from production activities.⁵⁾

1) Products awarded the 'eco ideas' label include those whose environmental performance is greater than the industry's No.2 model by 10% or more at the time of release, and those which achieve the highest rank in the market by external environmental labels in accordance to environmental performance.

2) An amount of CO₂ reduction compared to the estimated figure assuming no improvement. Measures were taken after March 31, 2006.

3) Includes all Panasonic Group's European factories with the exception of IPS-Alpha and Panasonic

4) Based on offices with 100 employees or more, based on FY 2009.

5) An amount of CO₂ reduction compared to the estimated figure assuming no improvement. Measures were taken after March 31, 2006.

PANASONIC GLOBAL VISION

The Panasonic Group strives to be a green innovation company with a global perspective. Its aim is to be the leading green company in the electronics sector by 2018 - the year that Panasonic celebrates its centenary.

HEATING & COOLING

Panasonic Home Appliances is the European leader in heating and cooling solutions for the home. When it comes to market share, Panasonic is the No. 1 company for home solutions in Europe, the No. 1 company for domestic cooling & heating solutions in Spain, and the No. 1 company for heating systems in the Nordic countries.

Panasonic invests significantly in Research & Development, with a strong network of design, manufacturing and training centres throughout Europe. As part of Panasonic's continued programme of growth, a new R&D facility is open in Langen, Germany. The centre is focused on developing products to meet the needs of European customers, as well as European legislation.

ECO IDEAS FOR LIFESTYLES

Panasonic is making the environment central to all of its business activities. It will become the No 1 green innovation company in the electronics sector through its eco ideas initiative: eco ideas for lifestyles to change people's lives and eco ideas for business to bring forth green innovation in Panasonic's own global business operations.

Panasonic always strives to offer better living, with a sense of joy, security and comfort, as well as with virtually zero CO₂ emissions in the entire house or building.

ECO IDEAS FOR BUSINESS

Panasonic will create and pursue a business-style which makes the best use of resources and energy. As well as making eco-conscious products and delivering them to customers, Panasonic aims to reduce waste of energy and resources during the manufacturing process. As well as tackling its own business, Panasonic will take a leading role for sharing and working on environmental challenges in entire societies.

**SUMMARY**

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PANASONIC – LEADING THE WAY IN HEATING & COOLING

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

HISTORY OF AIR CONDITIONING GROUP

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



1936

First electric Fan with Automatic Oscillation (36 cm table top model).



1958

First room air conditioner launched for domestic installation. Prior to this date, air conditioners were large and only for commercial use. Panasonic developed the first compact air conditioner for windows; it was lightweight and easy to install, improving the quality of life in Japanese homes. 1,100 units were sold in Japan in the first year, and just two years later, in 1960, this figure rose to 230,000.



1973

Panasonic launches the first highly efficient air-to-water heat pump in Japan.



1975

Panasonic becomes the first Japanese air conditioner manufacturer in Europe.



PANASONIC EUROPE

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



PANASONIC FACTORIES AND R&D DEPARTMENT

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

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



2002

The Ion and Oxygen Generator — two of the most important contributions to air conditioning systems.



2008

Etherea new concept of air conditioning systems: high efficiency and high performances with a great design. Etherea also includes a very innovative air quality sensor and air purifier in order to enjoy healthy air at home at all times.



2010

New Aquarea
Panasonic has created Aquarea, an innovative new, low-energy system, designed to help you enjoy ideal temperatures and hot water in your home, even with extreme outdoor temperatures. Aquarea cools or heats to ensure maximum comfort. Aquarea is far cleaner, safer, cheaper and environmentally friendly than alternatives using gas, oil and other electrical systems.



2011

New Eco i VRF solution
The new Panasonic VRF solution for big buildings is the most efficient in the industry in more than 74% of combinations. ECO i satisfies the most demanding standards required by design offices, architects, owners and installers.



2012

New GHP units
Panasonic's gas-driven VRF systems are ideal for projects where power restrictions apply. In 2012, Panasonic extends the Gas Heat Pump range with a new GHP line-up, new GHP G Power (electricity production) and the new Chiller Units.

LIVING ECO-FRIENDLY

Panasonic is globally committed to developing environmentally-conscious products in the following three aspects: global warming prevention, effective resources utilisation and chemical substances management. In particular, we have been striving to increase a rate of products with industry-leading energy efficiency and phase out those with low performance, with the aim of contributing to the prevention of global warming. In the 'eco ideas' House, which embodies a lifestyle with virtually zero CO₂ emissions and that will be realised in three to five years into the future, we are proposing wide-ranging ideas that create comfortable lifestyles with minimum energy consumption, as well as presenting products and services that make full use of our original environmental technologies. Furthermore, to face the challenge of stepping up to the new field from the enhancement of products' energy efficiency, Panasonic is promoting the development of energy-saving equipment such as heat pumps, fuel cells and solar power generators as well as energy-storing devices.

eco
ideas!q692
6CO

Ideas for a Cleaner Future

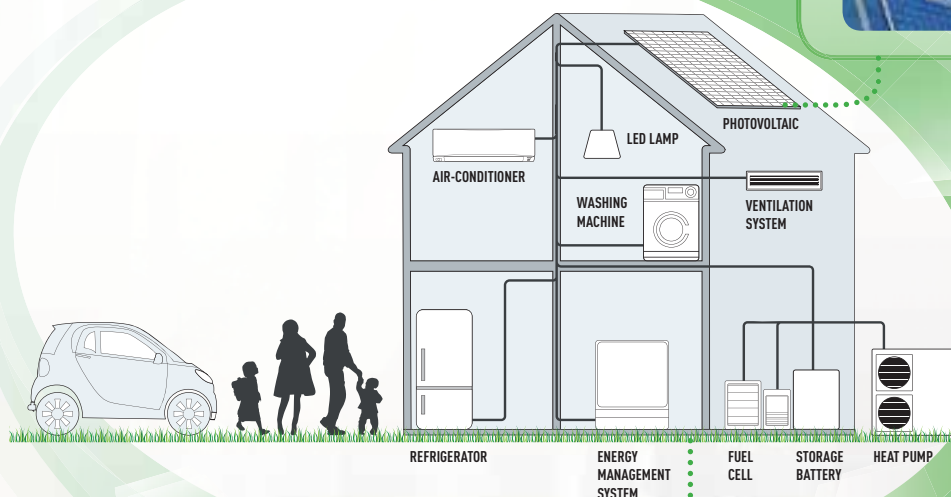
Panasonic is committed to developing environmentally-conscious products from three aspects, such as prevention of global warming, effective utilisation of resources and chemical substances management.

ENERGY MANAGEMENT

The SEG (Smart Energy Gateway) connects residential energy sources with smart appliances with a wireless network and a server.

CREATE ENERGY

Solar Cells and Fuel Cells to create energy more cleanly and efficiently



STORE ENERGY

Residential lithium-ion batteries for a stable energy supply



SAVE ENERGY

From top resource savings to efficient heating – Panasonic offers many eco-friendly appliances: LED/ESL, ERV, Air Conditioner, Washing Machine, Fridge, Heat Pump



In an era when the world is tackling the reduction of CO₂ emissions, Panasonic proposes a lifestyle with virtually zero CO₂ emissions throughout the entire home. CO₂ emissions are thoroughly reduced by enhancing energy-saving performance of home appliances and utilising building materials with high insulation performance. And energy required will be supplied by creating and storing energy by a combination of solar power generators, fuel cells and storage batteries. The Panasonic energy management system realises a lifestyle with virtually zero CO₂ emissions by linking these benefits together and smartly controlling all energy use. Meanwhile, intelligent use will also be made of natural elements such as air, light, water and heat to realise a more comfortable lifestyle. Experience an ecological and comfortable lifestyle that only Panasonic can present.



REALISING ECO-CONSCIOUS SOLUTIONS IN ENTIRE TOWNS

TIANJIN ECO-CITY

Panasonic is taking part in a pioneering project by China and Singapore to create the Tianjin Eco-City, some 40 km from Tianjin city centre and 150 km from Beijing. Designed to be practical, replicable and scalable, the Tianjin Eco-city will demonstrate the determination of both countries in tackling environmental protection, resource and energy conservation, and sustainable development, and serve as a model for sustainable development for other cities in China. By 2020, there will be around 30 square kilometres of city capable of accommodating a population of around 400,000.



HOME ENERGY MANAGEMENT SYSTEM

Panasonic is supplying each of the houses built in Tianjin Eco-City with a mini-VRF air conditioning system with Home Energy Management System (HEMS). The HEMS will be central to saving energy in homes. By linking a

whole range of domestic appliances, solar power generation equipment, electric vehicle chargers, storage batteries and other devices, the HEMS shows the amount of energy being used in the home. The system will indicate whether or not energy-saving goals are being achieved and will display advice on where further savings could be made.

By using easily-read displays on all screens throughout the home, homeowners will become more conscious of energy-saving activities and adopt a more natural and eco-friendly lifestyle.



FUJISAWA SUSTAINABLE SMART TOWN

Panasonic is converting its former factory site in Fujisawa City in Japan, 50 km west of Tokyo, into a smart town deploying services and energy systems based on Panasonic's eco ideas for green lifestyles. Panasonic is working in partnership with eight other companies and Fujisawa City to build an innovative smart town. The developers, manufacturers and service providers will work closely together throughout every phase of the project, from the master planning stage to actual operation of the town that will have about 1,000 households spread over 19 hectares.

Homes will employ the full range of Panasonic's most advanced systems for energy production, storage and management. Houses will be fully self-sufficient by generating power from efficient solar modules and fuel cell systems, with energy stored in powerful lithium-ion batteries. Low energy lighting, air conditioning and household appliances will be interconnected via a computer system, and televisions and PCs will be used to display energy consumption and tips on savings.

PANASONIC PROFESSIONAL

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

SOFTWARE

Panasonic provides bespoke software helping system designers, installers and dealers to very quickly design and size systems, create wiring diagrams and issue bills of quantities at the push of a button.



ECOI VRF DESIGNER

The VRF Designer Software is very easy to use. By using it, engineers can develop projects quickly, by either using the drag and drop icons or the project wizard. It

comes fully loaded with all appropriate Panasonic product details and is designed with flexibility in mind so that several different system designs can be created within one project.

The program will check system designs and correction factors are automatically applied to indoor unit capacities, depending on height differences, piping lengths, indoor/outdoor capacity ratio and design conditions. VRF Designer will also calculate any additional amounts of refrigerant that may be required, based on configuration and piping lengths.

Existing projects can easily be modified or even extended at a later stage. Reports can be exported and printed showing piping and wiring diagrams, power supply diagrams as well as bill of quantities.



AQUAREA DESIGNER

This program allows HVAC designers, installers and distributors to identify the correct heat pump for a particular application from Panasonic's Aquarea range, calculate the savings compared to other heat sources and very quickly calculate CO₂ emissions.

Using Panasonic's Aquarea Designer, projects can be developed simply and easily, by either using the Quick Design or Expert Design options. Each allows the user to build up the project data in a simple step-by-step process and choose to output reports (in either Quick or Large formats) as HTML files or as print outs.

Aquarea Designer will calculate the project's energy costs in terms of hot water, heating and pumping. It will show the equipment running times and calculate the COP (coefficient of performance). It then allows the designer to show clients a comparison with other equipment options such as heating by conventional gas-fired boilers, oil systems, wood, standard electric heating and electric night storage heaters. This compares running costs, initial investment costs and maintenance costs. The comparison can also be made for CO₂ emissions and savings.

iPAD APP

For a quick and easy introduction to the Aquarea Heat Pump range, the iPad app can be used to show clients the benefits of this energy-efficient heating and hot water system.



**NEW
PRO CLUB**



Panasonic

PRO Club 

PANASONIC PRO CLUB

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

The website contains a wealth of information from the latest versions of Panasonic's Aquarea and Etherea Design Software, to Technical Documentation, Catalogues and Images for the company's wide range of heating and cooling systems - all in an easy to navigate and use website.

Also, registered users will be able to access news regarding special promotions and take advantage of these offers, as well as access helpful business advice such as ideas and guidelines for showroom decoration or van livery featuring Panasonic logos and display material.

www.panasonicproclub.com

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



Panasonic

PRO Academy 

THE PANASONIC PRO-ACADEMY OPENS ITS DOORS

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

NEW TRAINING COURSES COVER THREE LEVELS

Design, installation, and commissioning & trouble-shooting

Training courses include:

- VRF ECOi
- Aquarea air source heat pumps (MCS accredited)
- GHP (2012)

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



ETHEREA

INTELLIGENT ECO SENSORS

ECONAVI

nanoe-G

WELCOME TO NEW DOMESTIC RANGE

MORE THAN EVER BEFORE, PANASONIC HAS DEVELOPED A RANGE OF PRODUCTS DESIGNED FOR YOU

With its innovative design, high efficiency and incomparable purification system, the Etherea range has been designed with your clients in mind. Above all, it is also a range for air conditioning professionals, such as yourself, thanks to its broad range of products which are capable of conditioning rooms of all sizes – always with optimal efficiency and incomparable ease of installation. The Etherea range guarantees that you are offering your clients the very best.



HEALTHY AIR

nano
technology
air cleaner

nanoe-G

Nanoe-G 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.

perfect
humidity
control

MILD DRY

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

ENERGY SAVING

A class
energy
saving

INVERTER+

The A Inverter system provides energy savings of up to 50%. You win and nature wins.

35%
savings

ECONAVI

Econavi features intelligent Human Activity Sensor and new Sunlight Sensor technologies that can detect and reduce waste by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy efficiently with uninterrupted cooling, comfort and convenience.

improved
comfort

AUTOCOMFORT

The Autocomfort system detects conditions in the room and switches to energy saving operation when nobody is on the room.

silent
air
20 dB

SUPER QUIET

With Super Quiet technology our devices are as quiet as a library.

5 year
compressor
warranty

5 YEARS
Warranty on the compressor.



INTELLIGENT ECO SENSORS
ECONAVI

nanoe-G

THE NEW ETHEREA RANGE PURE EFFICIENCY WITH ECONAVI

Living an eco lifestyle doesn't mean you need to compromise on comfort. With inverter control, you can still enjoy refreshingly cool air while reducing energy consumption by half. To further detect and reduce waste, now there is Econavi to give you even more energy savings. And, for a cleaner living environment, the new Nanoe-G helps purify the air as well as our 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.

*1 Comparison of 1.5HP Inverter model with ECONAVI dual sensor ON and OFF (Cooling) // ECONAVI dual sensor 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. ECONAVI dual sensor 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 1 hour 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.



ECONAVI WITH INTELLIGENT ECO SENSORS

35%
savings

ECONAVI

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

ECONAVI with intelligent eco sensors now has 4 settings to detect and reduce energy waste. You can now enjoy higher maximum energy savings of up to 35%*¹ on cooling mode and up to 45%*² on heating mode.

NEW
2012

SUNLIGHT DETECTION

ECONAVI detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night and reduces energy consumption by adjusting cooling requirements under less sunny conditions



SUNNY



CLOUDY/NIGHT

HUMAN ACTIVITY DETECTION

One-touch ECONAVI reduces waste in three simple steps:



AREA SEARCH

ECONAVI detects human movements and reduces waste energy by not cooling unoccupied areas.



ACTIVITY DETECTION

ECONAVI detects changes in activity levels and reduces energy wasted by cooling or heating when not needed..



ABSENCE DETECTION

ECONAVI detects human absence in the room and reduces energy wasted by cooling an empty room.

ENERGY SAVING EFFECT FOR HEATING BY ECONAVI DUAL SENSOR + SUNLIGHT SENSOR : 45%*²

*²Comparison of 1.5HP Inverter model between with ECONAVI dual sensor ON and OFF

ECONAVI dual sensor ON Outside temperature: 2°C/1°C, Remote setting temperature: 26°C with Fan Speed (High) // Vertical Airflow direction: Auto, Horizontal Airflow direction: ECONAVI Mode

Setting temperature goes down 3°C in total, 2°C controlled by ECONAVI activity level detection and another 1°C controlled by ECONAVI light intensity detection.

ECONAVI dual sensor OFF Outside temperature: 2°C/1°C, Remote setting temperature: 26°C with Fan Speed (High) // Vertical Airflow direction: Auto, Horizontal Airflow direction: Front

Total power consumption amount are measured for 1 hour in stable condition. At Panasonic Amenity Room (size:16.6M²)

This is the maximum energy saving value, and the effect differs according to conditions in installation and usage.



NEW
2012

ECONAVI SUNLIGHT SENSOR

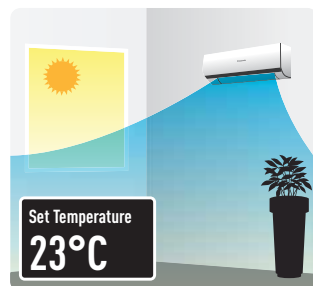


NEW SUNLIGHT DETECTION (ON COOLING MODE)

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.

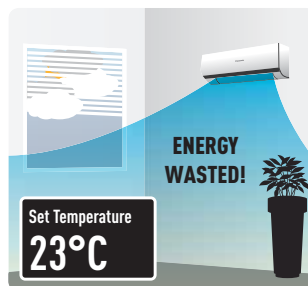
When weather changes from sunny to cloudy/night, ECONAVI detects less sunlight intensity and determines less cooling power is required. If cooling power remains the same, energy will be wasted. ECONAVI detects this waste and reduces cooling power by an amount equivalent to increasing the set temperature by 1 degree Celsius.

SUNNY



ECONAVI is switched on when it is SUNNY.

DETECT



ECONAVI detects less cooling power is required.

REDUCE WASTE



Reduces cooling power by an amount equivalent to increasing the set temperature by 1 degree Celsius.

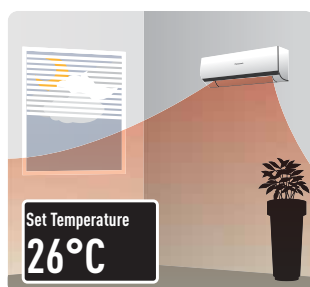


NEW SUNLIGHT DETECTION (ON HEATING MODE)

ECONAVI detects changes in sunlight intensity in the room and judges whether it is sunny or cloudy/night. It reduces the waste of heating under more sunlight 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 degree Celsius.

SUNNY



ECONAVI is switched on when it is CLOUDY/NIGHT.

DETECT



ECONAVI detects less heating power is required.

REDUCE WASTE



Reduces heating power by an amount equivalent to decreasing the set temperature by 1 degree Celsius.



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 with uninterrupted cooling comfort and convenience.

SUNLIGHT SENSOR

Detects changes in Sunlight Intensity



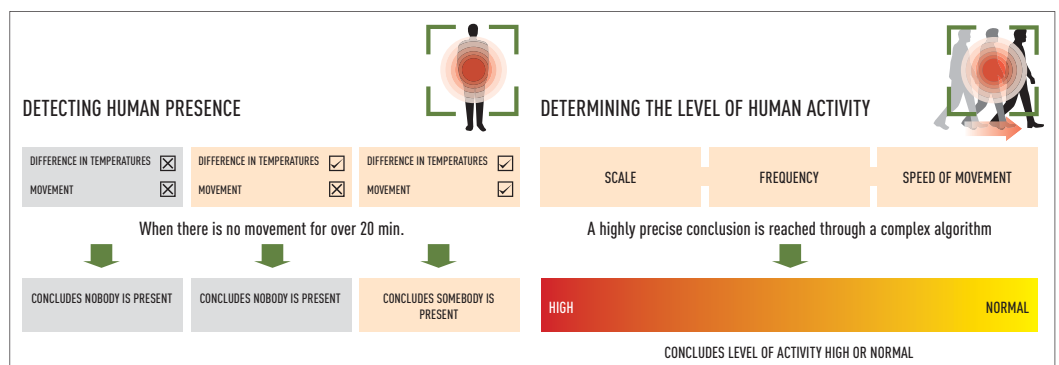
HUMAN ACTIVITY SENSOR

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







HIGH-PRECISION SENSING

All objects emit infrared rays which, although invisible, can be detected as heat by ECONAVI's Human Activity Sensor 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.



DIFFERENTIATING OBJECTS

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

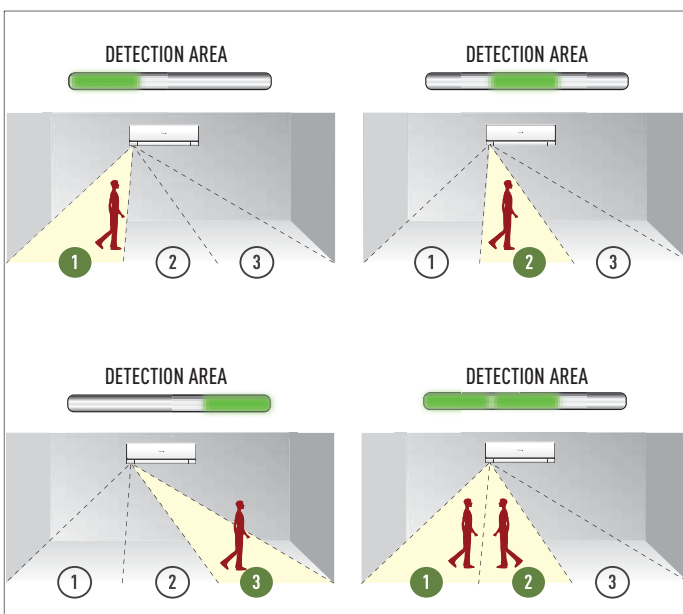
| | |
|---|--|
| <p>ELECTRICAL PRODUCTS</p>  <p>Difference in temperatures + Movement <input checked="" type="checkbox"/> <input checked="" type="checkbox"/></p> <p>CONCLUDES IT IS NOT HUMAN</p> | <p>A ROLLING BALL</p>  <p>Difference in temperatures + Movement <input checked="" type="checkbox"/> <input checked="" type="checkbox"/></p> <p>CONCLUDES IT IS NOT HUMAN</p> |
| <p>SMALL INSECTS</p>  <p>Difference in temperatures + Movement <input checked="" type="checkbox"/> <input checked="" type="checkbox"/></p> <p>CONCLUDES IT IS NOT HUMAN</p> | <p>PETS</p>  <p>Difference in temperatures + Movement <input checked="" type="checkbox"/> <input checked="" type="checkbox"/></p> <p>CONCLUDES IT IS NOT HUMAN</p> |

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.

SENSOR DETECTION PRINCIPLE

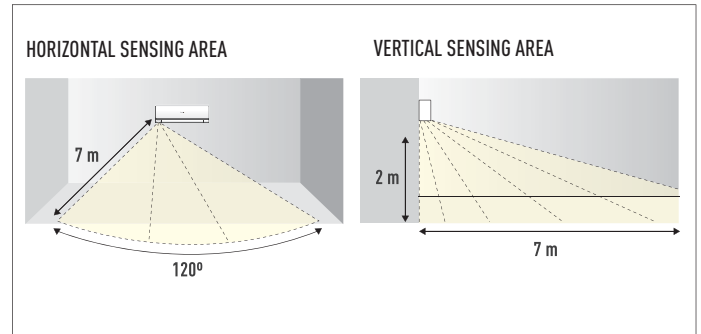
Human Activity Sensor detects human activity level and directs airflow to occupied or high activity zone. Led indicators indicating ECONAVI is detecting and functioning.



Remark: When detecting any change in movements, there will be a time delay between the LED indicator lighting up and a change of airflow direction. This is to avoid over-sensitive louver movements which will not contribute to energy savings

COVERAGE CAPABILITIES

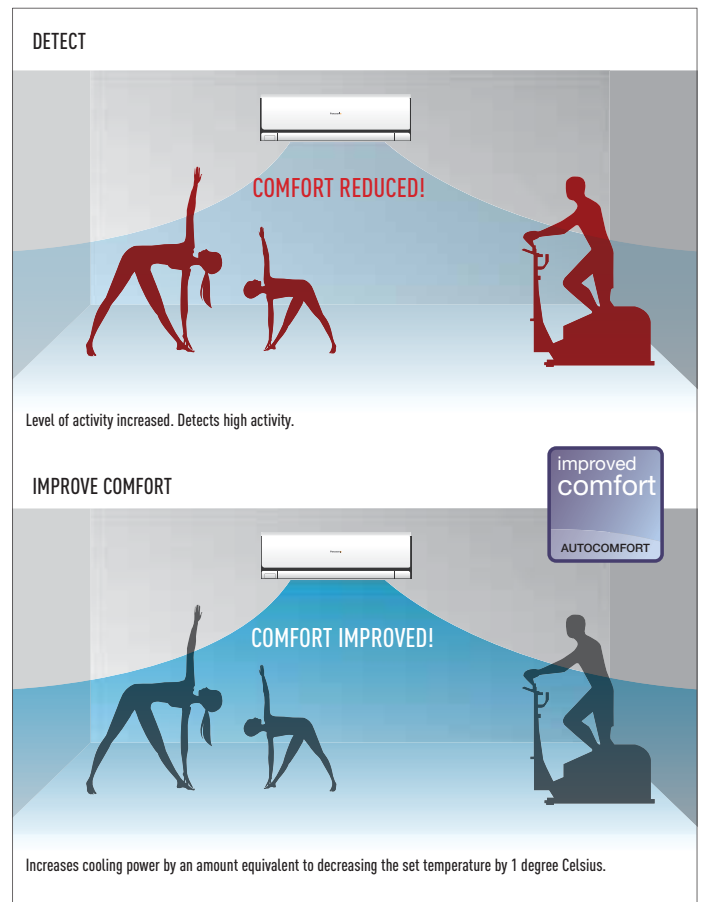
Human Activity Sensor covers a wider area due to its improved area detection function. The entire room is divided into 3 detection areas. Remark: Applicable for dual sensor.



AUTOCOMFORT DUAL SENSOR PROVIDES COMFORT

Autocomfort dual sensor is used to provide comfort. High Activity Detection detects when the level of activity increases, and automatically increases cooling power by an amount equivalent to decreasing the set temperature by 1 degree Celsius to improve comfort. This is explained in the following scenario:

High Activity Detection: ECONAVI High Activity Detection can detect changes in activity levels to adjust cooling power to improve comfort.



DETECT

COMFORT REDUCED!

Level of activity increased. Detects high activity.

IMPROVE COMFORT

COMFORT IMPROVED!

increased comfort
AUTOCOMFORT

Increases cooling power by an amount equivalent to decreasing the set temperature by 1 degree Celsius.



NANOE-G AIR PURIFYING SYSTEM

Panasonic air conditioners now come with a new air purifying system called Nanoe-G which utilises nano technology consisting of ions and radicals 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.

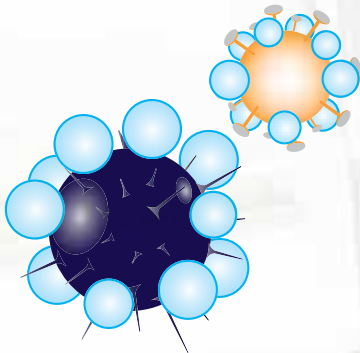


NEW
2012



AIRBORNE

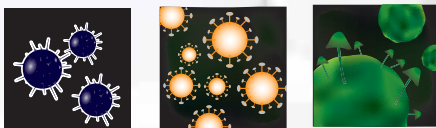
Nanoe-G is able to remove 99%*2 of bacteria, viruses and mould in the air.



THE EFFECTIVENESS OF NANOE-G

*2 Airborne Removal was certified by Kitasato Research Center for Environmental Science
 - KRCEs-Bio. Test Report number : 23_0182. Bacteria : Staphylococcus aureus (NBRC 12732)
 - KRCEs-Env. Test Report number : 22_0008. Virus : Escherichia coli phage (oX-174 ATCC 13706-B1) : Influenza (H1N1) 2009 virus
 - KRCEs-Env. Test Report number : 23_0140. Mould : Penicillium pinophilum (NBRC 6345)
 All results are based on specific testing conditions.
 All tests are not demonstrated under actual usage situation.

HARMFUL MICRO-ORGANISMS



Bacteria, viruses and mould.

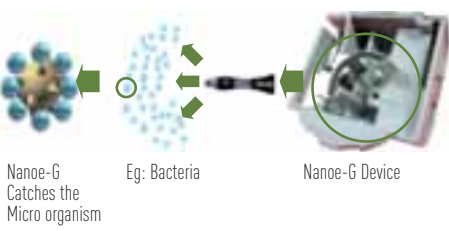
3. Nanoe-G brings micro-organisms back into the filter.

2. Nanoe-G catches micro-organisms.

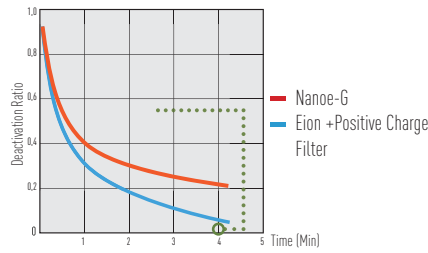
TESTING INSTITUTE: KITASATO RESEARCH CENTER FOR ENVIRONMENTAL SCIENCE

| CATEGORY | TARGET SUBSTANCE | SUBSTANCE NAME | EFFECTIVENESS | TEST REPORT NO | METHOD | RESULT |
|----------|------------------|---|---------------|------------------------------------|---|---|
| AIRBORNE | Bacteria | Staphylococcus aureus (NBRC 12732) | 99% | KRCEs-Bio. Test Report No. 23_0182 | The AC with nanoe-G was operated in a test room (25m ³) and aerosol was collected and bacterial count was calculated. | 99% removal from the air after 150 minutes of operation |
| | Virus | Escherichia coli phage (oX-174 ATCC 13706-B1) | 99% | KRCEs-Env. Test Report No. 22_0008 | The AC with nanoe-G was operated in a test room (25m ³) and airborne phages were collected and phage count of the collected air was calculated. | 99% removal from the air after 120 minutes of operation |
| | | | 99% | KRCEs-Env. Test Report No. 22_0008 | nanoe-G was operated in a test chamber (200 Litre) and the phages were collected and phage count of the collected air was calculated. | 99% removal from the air after 5 minutes of operation |
| | | Influenza (H1N1) 2009 virus | 99% | KRCEs-Env. Test Report No. 22_0008 | nanoe-G was operated in a test chamber (200 Litre) and the influenza viruses were collected and the virus titers were calculated by the Reed and Muench method. | 99% removal from the air after 5 minutes of operation |
| | Mould | Penicillium pinophilum (NBRC 6345) | 99% | KRCEs-Bio. Test Report No. 23_0140 | In view of health hazard associated with spatial distribution of Influenza (H1N1) 2009 virus, nanoe-G removal effectiveness cannot be tested in large test room (25m ³). When tested in 200 Litre chamber, nanoe-G was able to decrease Influenza (H1N1) 2009 virus (99%) when it was operated for 5 minutes. Additionally when tested in larger test room (25m ³), nanoe-G can remove 99.5% of Coli phage virus when operated for 120 minutes. It was validated that evaluation on the influenza virus could be speculated from the results on the phage according to the test results in a 200 Litre test chamber. It appeared that the air-conditioners in a larger test room (25m ³) would be able to remove the influenza virus as effectively as the phage. | The AC with nanoe-G was operated in a test room (25m ³) and aerosol was collected and fungal spores count was calculated. |

NANO-E-G DEVICE
 Nano-e is a fine particle with an electric charge(-ive Charge)

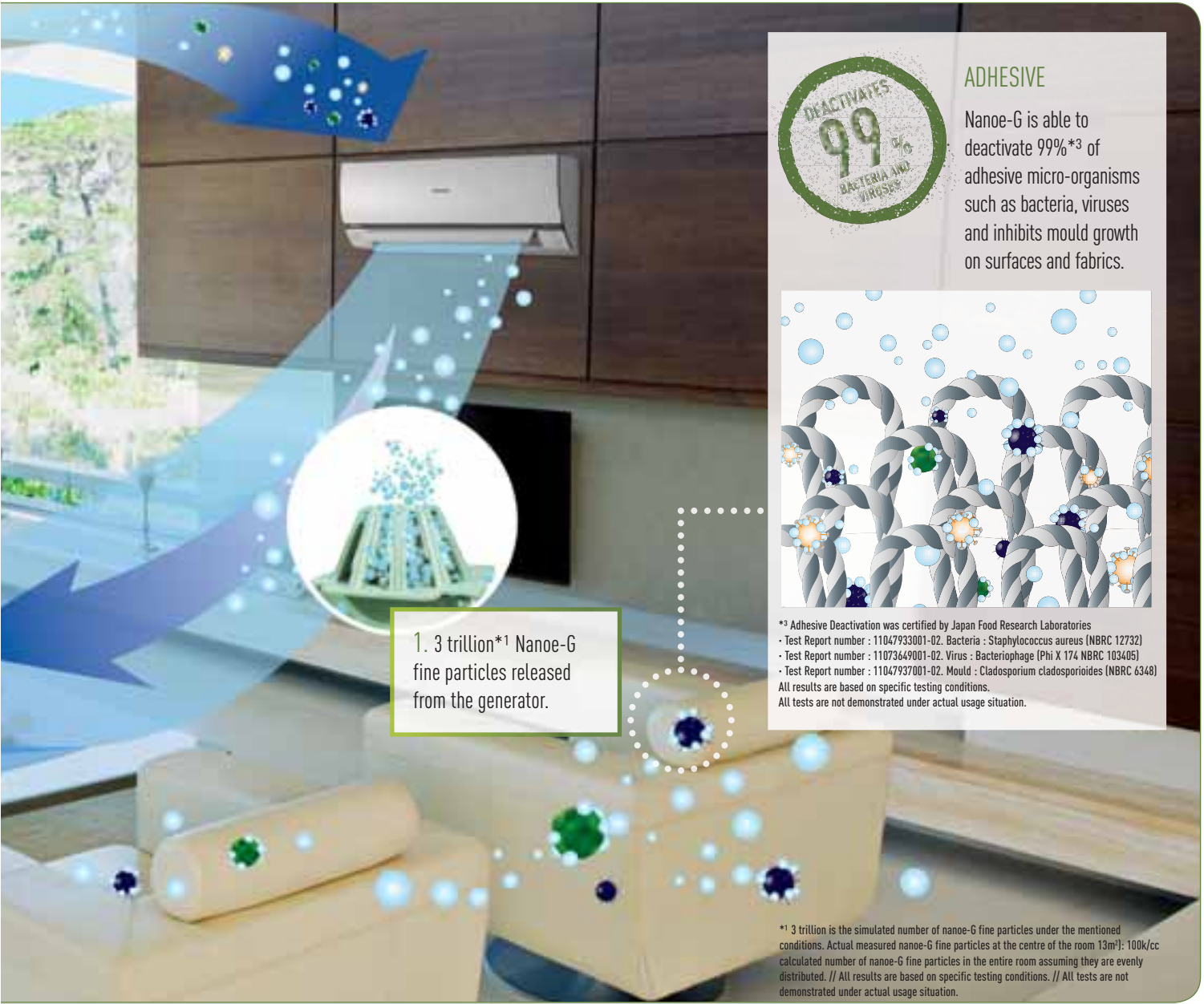
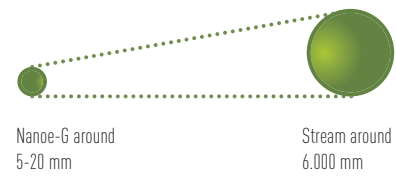


Nano-e-G Deactivates 99% of Micro Organism much faster



Microscopic Scale

Nano-e particles are much smaller that can deeply penetrate into cloth fabrics .

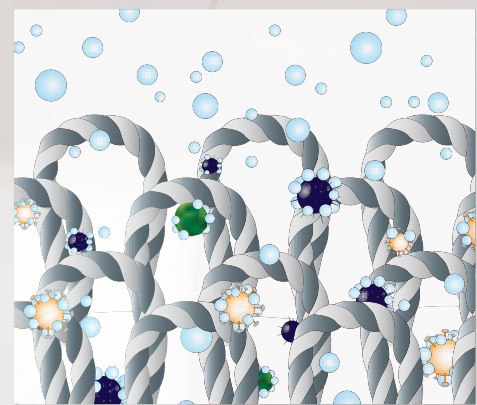


1. 3 trillion*1 Nano-e-G fine particles released from the generator.



ADHESIVE

Nano-e-G is able to deactivate 99%*3 of adhesive micro-organisms such as bacteria, viruses and inhibits mould growth on surfaces and fabrics.



*3 Adhesive Deactivation was certified by Japan Food Research Laboratories
 • Test Report number : 11047933001-02. Bacteria : Staphylococcus aureus (NBRC 12732)
 • Test Report number : 11073649001-02. Virus : Bacteriophage (Phi X 174 NBRC 103405)
 • Test Report number : 11047937001-02. Mould : Cladosporium cladosporioides (NBRC 6348)
 All results are based on specific testing conditions.
 All tests are not demonstrated under actual usage situation.

*1 3 trillion is the simulated number of nano-e-G fine particles under the mentioned conditions. Actual measured nano-e-G fine particles at the centre of the room (13m³): 100k/cc calculated number of nano-e-G fine particles in the entire room assuming they are evenly distributed. // All results are based on specific testing conditions. // All tests are not demonstrated under actual usage situation.

TESTING INSTITUTE: JAPAN FOOD RESEARCH LABORATORIES

| CATEGORY | TARGET SUBSTANCE | SUBSTANCE NAME | EFFECTIVENESS | TEST REPORT NO | METHOD | RESULT |
|----------|------------------|--|---------------|--------------------------------|---|---|
| ADHESIVE | Bacteria | Staphylococcus aureus (NBRC 12732) | 99% | Test Report No. 11047933001-02 | The AC with nano-e-G was operated in a test space (10m ³) and viable cells were counted by pour plate method. | 99% removal from the air after 150 minutes of operation |
| | Virus | Bacteriophage (Phi X 174 NBRC 103405) | 99% | Test Report No. 11073649001-02 | nano-e-G was operated in a test box (90 Litre) and phage infectivity titer was determined by plaque technique. | 99% removal from the air after 120 minutes of operation |
| | Mould | Cladosporium cladosporioides (NBRC 6348) | 99% | Test Report No. 11047937001-02 | nano-e-G was operated in a test box (1m ³) and colonies on the plate were counted. | 99% removal from the air after 5 minutes of operation |

Remark: All results are based on specific testing conditions. All tests are not demonstrated under actual usage situation.

THE EFFECTIVENESS

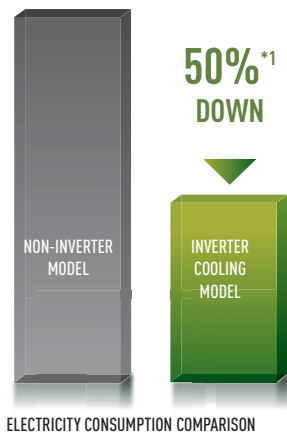
Why Nano-e-G is better than e-ion?
 • Nano-e-G works on "Airborne" and "Adhesive"
 • E-ion only works of "Airborne"

| AIRBORNE | ADHESIVE |
|---|--------------------------|
| Removes 99% BACTERIA, VIRUSES AND MOULD | Deactivates 99% VIRUSES |
| | Deactivates 99% BACTERIA |
| | Restrain mould growth |



INVERTER

INVERTER TECHNOLOGY EXCEPTIONAL ENERGY-SAVING PERFORMANCE

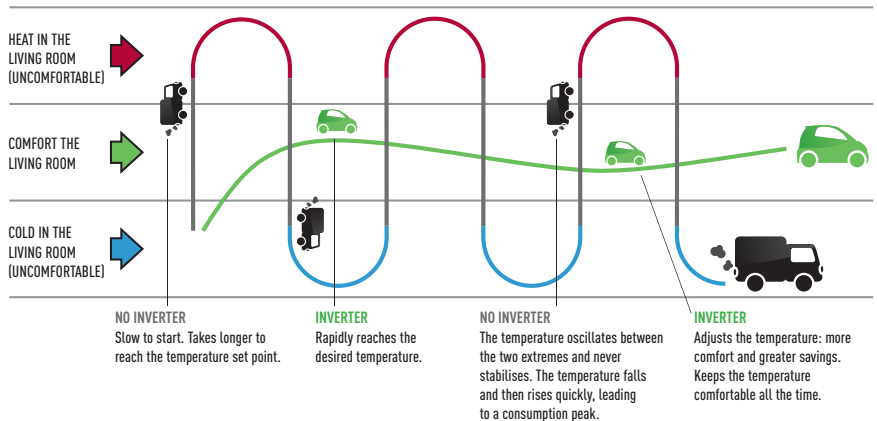


Reduces Electricity Consumption

Panasonic Inverter air conditioners are designed to give you exceptional energy savings and performance, whilst also ensuring you stay comfortable at all times. At the start up of an air conditioner's operation, powerful operation is required to reach the set temperature. After the set temperature is reached, less power is required to maintain it. A conventional non-Inverter air conditioner can only operate at a constant speed which is too powerful to maintain the set temperature. Thus, in attempting to achieve this, it switches the compressor ON and OFF repeatedly. This results in wider temperature fluctuations leading to wasteful consumption of energy. The Panasonic Inverter air conditioner varies the rotation speed of the compressor. This provides a highly precise method of maintaining the set temperature.

Unlike a conventional non-Inverter air conditioner which consumes a lot of energy, Panasonic Inverter air conditioner reduces wasteful operation - giving you energy savings of up to 50%*1 on cooling mode.

The advantages of inverter air conditioners. Comparing Inverter and non-Inverter air conditioners.



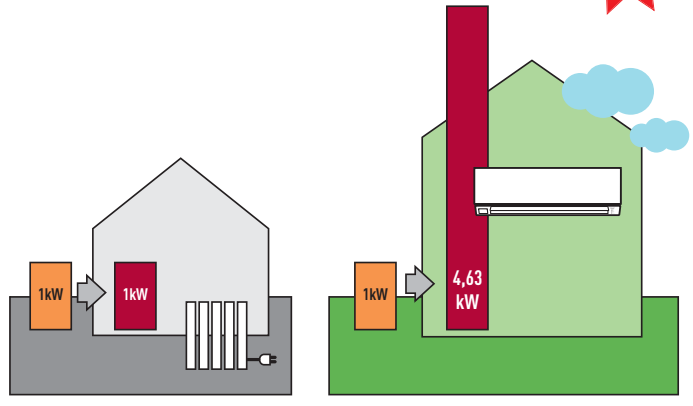
DURING COOLING UP TO 50%*1 ENERGY SAVINGS

*1 Comparison of 1.5HP Inverter model and 1.5HP Non-Inverter model (Cooling) Outside temperature: 35°C/24°C, Remote setting temperature: 25°C with Fan speed (High) Vertical Airflow direction: Auto, Horizontal Airflow direction: Front.

Total power consumption amount are measured for 8 hours from starting. 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.

ECONOMICAL, ENVIRONMENT-FRIENDLY OPERATION HIGH COP (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.



* On heating mode, XE/E9-NKE compared with electrical heaters at +7°C

2012 ENERGY LABELING

Our new models have obtained the highest energy performance classification, Class A, which puts them in the highest energy saving class. This means you can use these models every day, without having to worry about the electric bill.

Energy efficiency classifications

A European Community directive requiring energy labelling of domestic appliances came into effect in 2005. Since then, all manufacturers have been required to label each product with an efficiency level represented by a letter from A to G. This means that a class B domestic appliance consumes approximately 10% more than an A, a C 20% more than an A, etc.



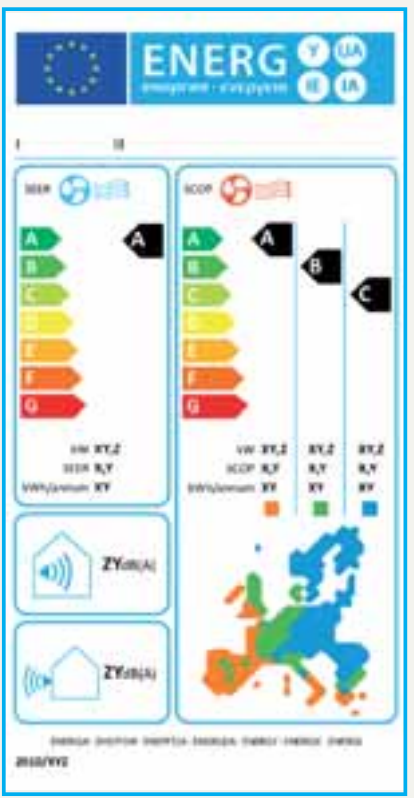
2012 ENERGY LABELING

| | | | |
|---|-----------------------------------|-----------------|--|
| Energy | | Air-Conditioner | Product |
| Manufacturer | Panasonic | | |
| Outdoor units | CU-.... | | Model number |
| Indoor unit | CS-.... | | |
| More efficient | | A | Class |
| A | | | Energy efficiency classification in seven classes, from A to G. |
| B | | | |
| C | | | |
| D | | | |
| E | | | |
| F | | | |
| G | | | |
| Less efficient | | | |
| Annual energy consumption, kWh in cooling mode | | *** | Annual energy consumption |
| Actual consumption will depend on how the appliance is used and climate | | | Annual energy consumption is calculated by multiplying the total power input by an average of 500 hours per year in cooling mode at full load. |
| Total cooling output | kW | *** | Energy efficiency ratio |
| Percentage cooling efficiency | Full load (the higher the better) | *** | The higher the EER, the higher the energy efficiency. |
| Type | Cooling only | — | Type of air conditioner |
| | Cooling + Heating | ← | |
| | Air cooled | ← | |
| | Water cooled | — | |
| Heat output | kW | *** | Noise |
| Heating performance | G: lower | A | |
| Noise | (dB(A) re 1 µW) | ** | Indoor unit |
| | | ** | Outdoor unit |
| Further information is contained in product brochures | | | |
| Air-Conditioner Energy Label Directive 2002/31/EC | | | |

NEW 2013 ENERGY LABELING, FOR MORE TRANSPARENCY AND RELIABILITY.

From 1 of January 2013, The energy performance calculation will change from COP to SCOP and EER to SEER.

The "S" integrates the seasonal performance of the heat pump. The new energy-related products directive (ErP) will integrate 4 points of measurement on cooling mode and 5 points of measurement on heating mode with different compressor load. This new Seasonal energy performance calculation will give to the user for a better understanding on the real efficiency of his heat pump through out the year and in function of his region. Of course EER (COP) and SEER (SCOP) values are totally different and can not be compared. Also, SCOP and SEER must be calculated by the norm ErP lot10 effective from 1 of January 2013.



| ENERGY EFFICIENCY CLASS | SEER | SCOP |
|-------------------------|--------------------|--------------------|
| A+++ | SEER > 7.00 | SCOP > 5.10 |
| A++ | 6.10 < SEER < 7.00 | 4.60 < SCOP < 5.10 |
| A+ | 5.60 < SEER < 6.10 | 4.00 < SCOP < 4.60 |
| A | 5.10 < SEER < 5.60 | 3.40 < SCOP < 4.00 |
| B | 4.60 < SEER < 5.10 | 3.10 < SCOP < 3.40 |
| C | 4.10 < SEER < 4.60 | 2.80 < SCOP < 3.10 |
| D | 3.60 < SEER < 4.10 | 2.50 < SCOP < 2.80 |
| E | 3.10 < SEER < 3.60 | 2.20 < SCOP < 2.50 |
| F | 2.60 < SEER < 3.10 | 1.90 < SCOP < 2.20 |
| G | SEER < 2.60 | SCOP < 1.90 |

Unit energy efficiency class in cooling mode

| | |
|----------|-------------------|
| A | 3.20 < EER |
| B | 3.20 ≥ EER > 3.00 |
| C | 3.00 ≥ EER > 2.80 |
| D | 2.80 ≥ EER > 2.60 |
| E | 2.60 ≥ EER > 2.40 |
| F | 2.40 ≥ EER > 2.20 |
| G | 2.20 ≥ EER |

Unit energy efficiency class in heating mode

| | |
|----------|-------------------|
| A | 3.60 < COP |
| B | 3.60 ≥ COP > 3.40 |
| C | 3.40 ≥ COP > 3.20 |
| D | 3.20 ≥ COP > 2.80 |
| E | 2.80 ≥ COP > 2.60 |
| F | 2.60 ≥ COP > 2.40 |
| G | 2.40 ≥ COP |

These classifications are for split and multi split air conditioning units.



silent
air
20 dB

SUPER QUIET

PANASONIC TECHNOLOGY FOR COMFORT

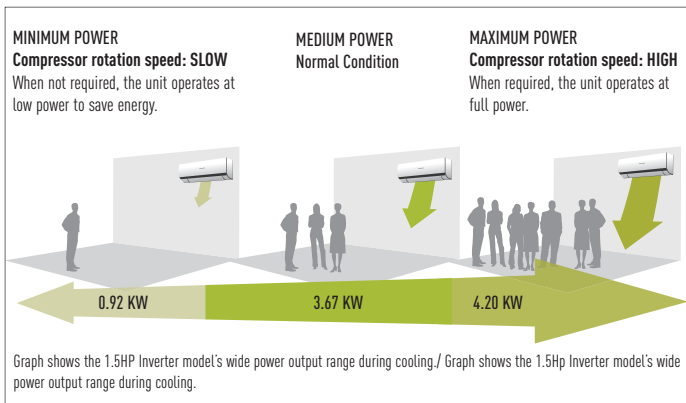
Extremely quiet. We have succeeded in making one of the most silent air conditioners on the market. The indoor unit runs silently with a slow fan speed. When you press the Quiet Mode button on the remote control, the operating sound level reduces even further, down to 20 dB. At 20 dB technology our devices are as quiet as a library! We produce discreet air conditioners which do not disturb you, even when the room is at its quietest.



OTHER ADVANTAGES OF INVERTER AIR CONDITIONERS

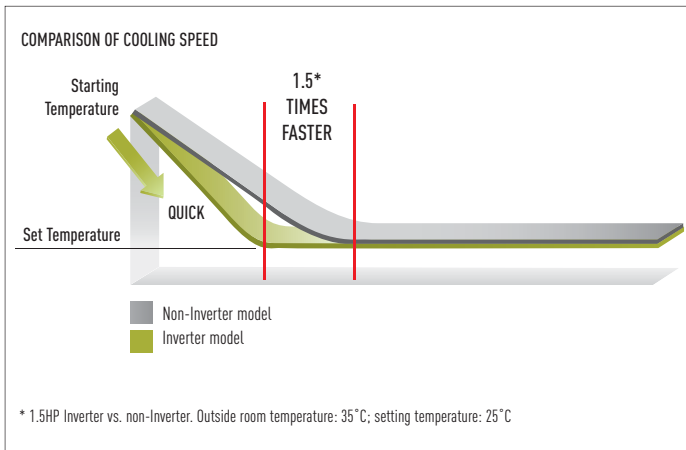
CONSTANT COMFORT

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



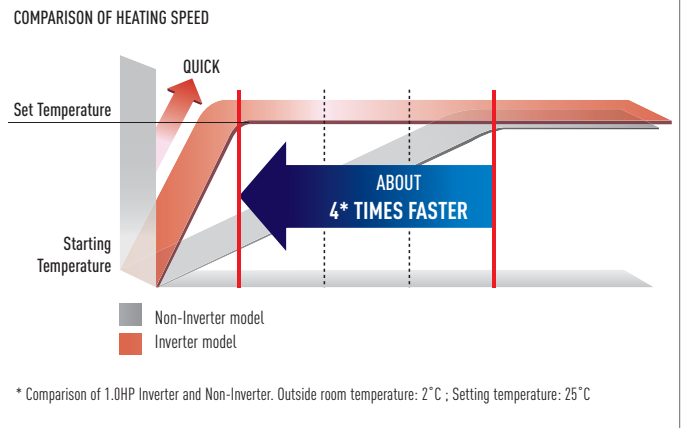
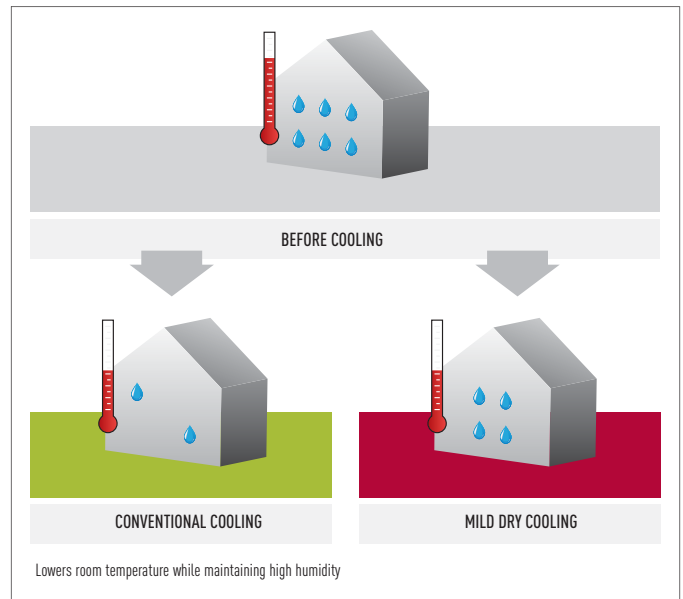
QUICK COMFORT

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



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 dry throat.





NEW
 IPHONE & ANDROID
 READY



CONTROL YOUR HEAT PUMP WITH THE IntesisHome® SMART DEVICE VIA SMARTPHONES & INTERNET

INTERNET
 VIA SMARTPHONES &
 SMART DEVICE

IntesisHome®
 PUMP WITH THE
 CONTROL YOUR HEAT

IntesisHome®  By Intesis (www.intesis.com)

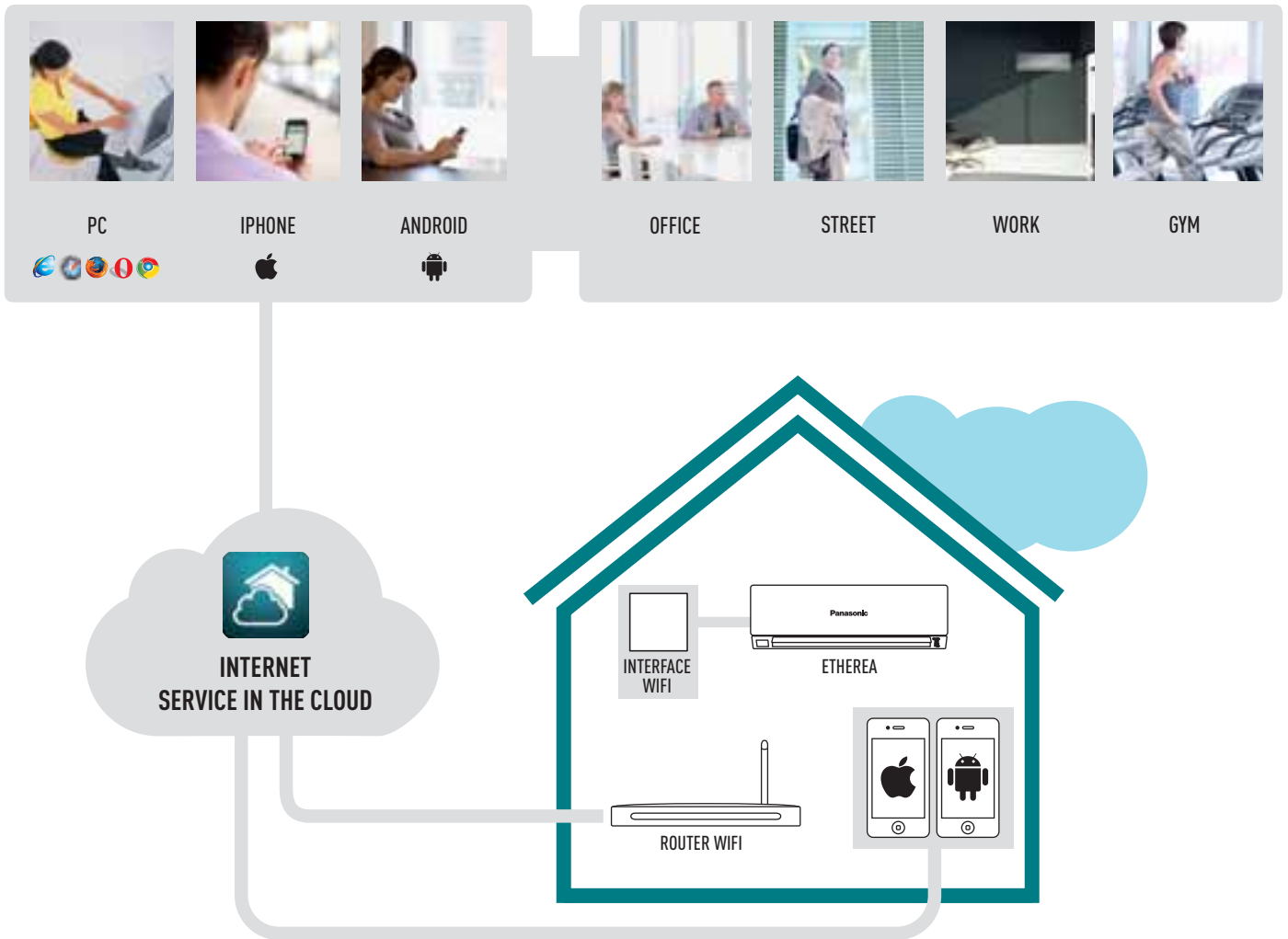
CONTROL YOUR AIR CONDITIONER WITH YOUR SMART DEVICE -SMARTPHONE & INTERNET-

Panasonic has always offered its customers the most efficient Heat Pumps and Air Conditioners. Now it has taken a step forward and presents with the partnership of Intesis the IntesisHome, the most advanced service taking advantage of the latest Cloud Technology to manage your climate system from anywhere in the world.

Control your environment from your iPad, iPhone, any Android device or from a PC with Internet access using IntesisHome®. Offering the same functions as if you were at home: start/stop, Mode Operation, Set Temperature, Room Temperature etc. Experience the new, advanced functionality provided by IntesisHome® to achieve the best comfort and efficiency with the lowest energy consumption.



TAKE CONTROL FROM WHEREVER YOU ARE!



IntesisHome[®]

ADVANCED SERVICE HOSTED IN THE CLOUD THAT PROVIDES ACCESS FROM EVERYWHERE TO YOUR AC SYSTEM.

FUNCTIONALITY

- Remote control: On/Off, Mode, Temp. Setting, etc.
- Scheduler calendar, Energy Saving functions, Preset configuration features
- Maintenance functions:
 - Dirty Air Filter alerts
 - Technical Service network
 - Error list
- ECO advices.
- Multi-lingual application

INSTALLATION

- Easy installation.
- Videos and Manuals from www.intesishome.com
- Helpline (Phone & Internet).
- Automatic updates.

REFERENCE

CZ-HI-Etherea, IntesisHome for Etherea



CONNECTIVITY

GREAT FLEXIBILITY FOR INTEGRATION INTO YOUR KNX / ENOCEAN / MODBUS PROJECTS ALLOWS FULLY BI-DIRECTIONAL MONITORING AND CONTROL OF ALL THE FUNCTIONING PARAMETERS

The Intesis interface has been designed specifically for Panasonic and provides complete monitoring, control and full functionality of the entire Aquarea line-up from KNX, EnOcean and Modbus installations.

Interfaces must be purchased at Intesis.
More information on www.intesis.com

To know more about compatibility of Panasonic Heat pumps with Intesis interfaces:
http://www.intesis.com/pdf/IntesisBox_PA-AC-xxx-1_AC_Compatibility.pdf

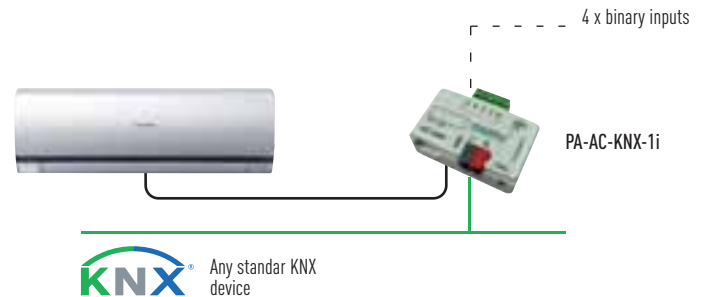


INTERFACE TO CONNECT ETHEREA TO KNX

INTESIS PART N°: PA-AW-KNX-1i

Intesis new Ethera-KNX interface allows monitoring and control, fully bi-directionally, all the functioning parameters of Ethera control from KNX installations. Small dimensions.

- 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 EnOcean 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.

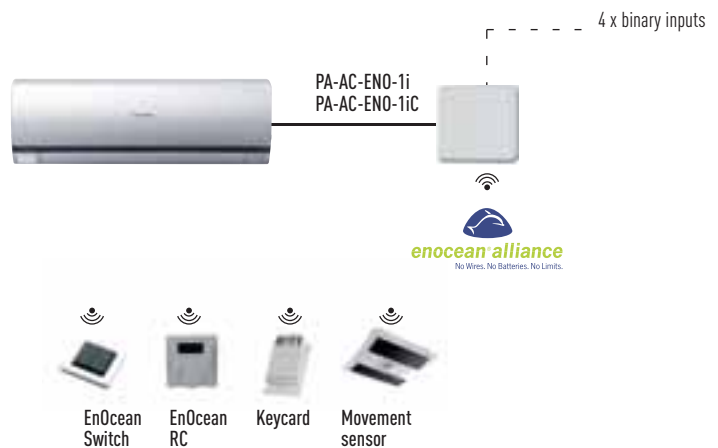


INTERFACE TO CONNECT ETHEREA TO EN-OCEAN

INTESIS PART N°: PA-AC-ENO-1i // PA-AC-ENO-1iC

Intesis new Ethera-EnOcean interface PA-AC-ENO-1i allows monitoring and control, fully bi-directionally, all the functioning parameters of the Ethera control from EnOcean installations. Small dimensions.

























- Quick installation and possibility of hidden installation.
- 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.
- 4 binary inputs. They work as standard EnOcean binary inputs as well as being used to control the AC directly.



DOMESTIC AIR CONDITIONER RANGE

| INDOOR UNITS | 2.2 kW | 2.8 kW | 3.2 kW |
|---|--|---|---|
| WALL MOUNTED ETHEREA // INVERTER+ // SILVER  |  KIT-XE7-NKE-3 |  KIT-XE9-NKE-3 |  KIT-XE12-NKE-3 |
| WALL MOUNTED ETHEREA // INVERTER+ // WHITE  |  KIT-E7-NKE-3 |  KIT-E9-NKE-3 |  KIT-E12-NKE-3 |
| WALL MOUNTED RE TYPE // STANDARD INVERTER  | |  KIT-RE9-NKX |  KIT-RE12-NKX |
| WALL MOUNTED YE TYPE // STANDARD INVERTER | |  KIT-YE9-MKX |  KIT-YE12-MKX |
| WALL MOUNTED TYPE // INVERTER+ // -15°C | |  KIT-E9-HKEA |  KIT-E12-HKEA |
| WALL-MOUNTED TYPE // STANDARD HEAT PUMP | |  KIT-PW9-GKX |  KIT-PW12-GKX |
| WALL MOUNTED UW TYPE // STANDARD INVERTER | |  KIT-UW9-GKE |  KIT-UW12-GKE |
| FLOOR CONSOLE TYPE // INVERTER+ | |  KIT-E9-GFEW-1 |  KIT-E12-GFEW-1 |
| SINGLE SPLIT FLOOR OR CEILING TYPE // INVERTER | | | |
| ETHEREA MULTI SPLIT 2X1 // INVERTER+  | | | |
| ETHEREA MULTI SPLIT 3X1 // INVERTER+  | | | |
| ETHEREA MULTI SPLIT 4X1 // INVERTER+  | | | |
| MULTI 5x1 // INVERTER+  | | | |



| 4.5 kW | 5.0 kW | 6.0 kW | 6.5 kW | 8.0 kW |
|--|--|---|--|--|
|  KIT-XE15-NKE-3 |  KIT-XE18-NKE |  KIT-XE21-NKE | | |
|  KIT-E15-NKE-3 |  KIT-E18-NKE |  KIT-E21-NKE |  KIT-E24-NKE |  KIT-E28-NKE |
|  KIT-RE15-NKX |  KIT-RE18-NKX | |  KIT-RE24-NKX | |
|  KIT-YE18-MKX | | | | |
|  KIT-E15-HKEA |  KIT-E18-HKEA |  KIT-E21-HKEA | | |
| |  KIT-PW18-GKX | |  KIT-PW24-JKE | |
| | | | | |
| |  KIT-E18-GFEW-1 | | | |
|  KIT-E15-DTE |  KIT-E18-DTE |  KIT-E21-DTE | | |
|  KIT-2XE/E77-NBE // KIT-2XE/E79-NBE // KIT-2XE/E712-NBE // KIT-2XE/E99-NBE |  KIT-2XE/E99-NKE // KIT-2XE/E912-NKE // KIT-2XE/E1212-NKE | | | |
| | |  KIT-3XE/E7712-NBE // KIT-3XE/E7715-NBE | | |
| | | | |  KIT-4XE/E77712 / 4XE/E77715-NBE // KIT-4XE/E77712 / 4XE/E77715-NKE |
| | | | |  CU-5E34NBE |

FEATURE EXPLANATIONS

Healthy Air Quality

nano technology air cleaner
NANO-E-G
NANO-E-G 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.

perfect humidity control
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.

relaxing breeze effect
SOFT BREEZE
The Soft Breeze mode eliminates excess humidity with a soft breeze and gives you the feeling of well-being without significant temperature changes.

ion generator
ION BENEFIT
Negative ions, found in the air near waterfalls and forests, generally produce a great sense of wellbeing. Panasonic brings all the benefits to your home, at the push of a button.

prevention allergy filter
ANTI BACTERIAL FILTER
The Anti Bacterial Filter eliminates the allergens it captures. It combines three functions in one (anti-allergen, anti-virus and anti-bacteria) to keep room air clean and healthy.

ONE-TOUCH ANTI-MOULD AIR FILTER

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.

Comfort

A class energy saving
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. A Inverter plus is also A class on cooling and heating mode.

A class energy saving
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.

35% savings
ECONAVI
ECONAVI sensor determines the human activity level and the position in the room and adjust the air flow orientation for maximum comfort and maximum savings. With ECONAVI, you can save up to 30%.

improved comfort
AUTOCOMFORT
The Autocomfort system detects conditions in the room and switches to energy saving operation when nobody is in the room. However, priority is given to comfort, so cooling power is increased when there's a lot of human activity. This function provides both comfort and energy saving.

silent air 20 dB
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 20 dB.

down to -15°C in cooling mode
DOWN TO -15°C IN COOLING ONLY MODE
The air conditioner works in cooling only mode with an outdoor temperature of -15°C.

down to -15°C in heating mode
DOWN TO -15°C IN HEATING MODE
The air conditioner works in heat pump mode with an outdoor temperature as low as -15°C.

POWERFUL MODE
High power for immediate air conditioning. 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 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.

WIDE & LONG AIRFLOW VANE
This vane has been designed so that the air goes further. It sends air to every corner of the room to keep the whole room in the comfort zone.

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, making a vertical sweep which spreads the flow throughout the room. The flow can also be set a fixed angle with the remote control.

MANUAL HORIZONTAL AIRFLOW CONTROL

AUTO MODE (INVERTER)
Change automatically from cooling to heating in function of the temperature of the room.

SIMPLE AUTO CHANGEOVER
When the difference between the measured temperature and the set temperature is 3°C or more, it automatically switches over the current operation mode to heating or cooling mode necessary to keep the temperature at a constantly comfortable level.

HOT START MODE
On the start of heating cycle and after defrost cycle, the indoor fan will start up once the indoor heat exchanger is warm.

Use

12-HOUR ON&OFF TIMER

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

Reliability

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
This is a figure which indicates the maximum length of pipe between the outdoor unit and the indoor unit(s). The long distances permitted are demonstration of the many 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.

5 year compressor warranty
5 YEARS
Warranty on the compressor.



FEATURE COMPARISON

| MODELS | KIT-XE/E7-NKE-3 KIT-XE/E9-NKE-3 KIT-XE/E15-NKE-3 KIT-XE/E18-NKE-3 KIT-XE/E21-NKE KIT-E24-NKE KIT-E28-NKE | KIT-RE9-NX KIT-RE12-NX KIT-RE15-NX KIT-RE18-NX KIT-RE24-NX | KIT-YE9-MX KIT-YE12-MX KIT-YE18-MX | KIT-E9-HKEA KIT-E12-HKEA KIT-E15-HKEA KIT-E18-HKEA KIT-E21-HKEA | KIT-PW9-GKX KIT-PW12-GKX KIT-PW18-GKX KIT-PW24-JKE | KIT-UW9-GKE KIT-UW12-GKE | KIT-E9-GFEW-1 KIT-E12-GFEW-1 KIT-E18-GFEW-1 | KIT-E15-DTE KIT-E18-DTE KIT-E21-DTE | KIT-2MRE77-MBE KIT-2MRE79-MBE KIT-2MRE912-MBE KIT-2MRE77-MKE KIT-2MRE79-MKE KIT-2MRE912-MKE KIT-2MRE912-MKE | KIT-2XE/E77-NBE KIT-2XE/E79-NBE KIT-2XE/E99-NBE KIT-2XE/E99-NKE KIT-2XE/E1212-NKE | KIT-3XE/E7712-NBE KIT-3XE/E7715-NBE | KIT-4XE/E77712-NBE KIT-4XE/E77715-NBE KIT-4XE/E77712-NKE KIT-4XE/E77715-NKE | CU-SE34NBE |
|--|--|--|--|---|---|-----------------------------|---|---|---|---|--|--|-------------|
| NanoE-G air purifying system | ✗ | | | | | | | | | ✗ | ✗ | ✗ | |
| Mild Dry Cooling | ✗ | | | | | | | | | | | | |
| Soft Breeze | | ✗ For RE9, RE12 and RE15 | | | | | | | ✗ | | | | |
| Ion Benefit | | | | ✗ | | | | | | | | | |
| Anti Bacterial Filter | | ✗ 10 years | | ✗ | ✗ Optional | ✗ Optional | | ✗ Optional | ✗ | | | | |
| One-Touch anti-mould air filter | | ✗ | ✗ | | | | ✗ | ✗ | | | | | |
| Odour-removing function | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |
| Removable, washable panel | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | | ✗ | ✗ | ✗ | ✗ | ✗ |
| Inverter+ system | ✗ | | | ✗ | | | ✗ | | | ✗ | ✗ | ✗ | ✗ |
| Inverter system | | ✗ | | | | | | ✗ | ✗ | | | | |
| ECONAVI | ✗ | | | | | | | | | ✗ | ✗ | ✗ | |
| AUTOCOMFORT | ✗ | | | | | | | | | ✗ | ✗ | ✗ | |
| Super Quiet mode | ✗ For XE/E7, XE/E9 and XE/E12 | ✗ For RE9, RE12 and RE15 | ✗ | ✗ | | | ✗ | ✗ | | | | | |
| Down to -15°C in cooling only | | | | ✗ | | | | | | | | | |
| Down to -15°C in heat mode | ✗ | | | ✗ | | | ✗ | | ✗ | ✗ | ✗ | ✗ | |
| Powerful mode | ✗ | ✗ For RE9, RE12 and RE15 | ✗ | ✗ | | | ✗ | ✗ | | ✗ | ✗ | ✗ | ✗ |
| Soft dry operation mode | ✗ | ✗ | | ✗ | ✗ | | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Wide & long airflow vane | ✗ | | | | | | | | ✗ | ✗ | ✗ | ✗ | |
| Personal airflow creation | ✗ For XE/E18 and XE/E21 | ✗ For RE18 and RE24 | | ✗ | | | | | | | | | |
| Automatic vertical airflow control | ✗ | ✗ For RE9, RE12 and RE15 | | | ✗ | | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |
| Manual horizontal airflow control | ✗ For XE7, XE9, XE12 and XE15 | ✗ For RE9, RE12 and RE15 | | | | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |
| AUTO mode (Inverter) | ✗ | ✗ | | ✗ | | | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |
| Simple Auto Changeover | ✗ | ✗ | | | | | | | | | | | |
| Hot start mode | ✗ | ✗ | | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | | ✗ | |
| 12-hour ON&OFF timer | | ✗ For RE9, RE12 and RE15 | ✗ | | ✗ For PW9 and PW12 | ✗ | | | | | | | |
| Real time clock with dual ON&OFF timer | ✗ | | | | | | | | ✗ | | ✗ | ✗ | ✗ |
| Real time clock with single ON&OFF timer | | ✗ For RE18 and RE24 | | ✗ | ✗ For PW18 and PW24 | | ✗ | | | | | | |
| LCD Wireless remote controller | ✗ | ✗ | | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Automatic restart | ✗ | ✗ | | ✗ | ✗ | | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Long piping | ✗ 15 m (XE/E7 to XE/E15), 20 m (XE/E18/XE/E21) 30 m (E24/E28) | ✗ 15 m (RE9/RE12/RE15) 20 m (RE18) 30 m (RE24) | ✗ 15 m | ✗ 15 m 20 m (E18/E21) | ✗ 10 m (PW9) 15 m (PW12) 25 m (PW18/PW24) | ✗ 10 m | ✗ 15 m 20 m (E18) | ✗ 20 m | ✗ Max. 30 m | ✗ Max. 30 m | ✗ Max. 50 m | ✗ Max. 70 m | ✗ Max. 80 m |
| Top-Panel maintenance access | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Self-diagnosis function | ✗ | ✗ | | ✗ | | | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | |
| Warranty on the compressor | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |



WALL MOUNTED ETHEREA // INVERTER+ // SILVER

ETHEREA WITH ENHANCED ECONAVI SENSOR AND NEW NANO-E-G AIR-PURIFYING SYSTEM: OUTSTANDING EFFICIENCY, COMFORT AND HEALTHY AIR COMBINED WITH STATE-OF-THE-ART DESIGN

Econavi builds-in a Human Activity sensor and a new Sunlight Detection technology to adjust output ideally 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, you will achieve up to 35% energy savings whilst increasing your comfort.

Furthermore, the NANO-E-G 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.

Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with Econavi. More efficiency for bigger savings!



OPTIONAL



Maintains a Relative Humidity up to 10% higher than cooling operation. Ideal when sleeping with the air conditioner on.
FOR XE7, XE9, XE12, E7, E9 AND E12

| KIT | | | KIT-XE7-NKE-3 | KIT-XE9-NKE-3 | KIT-XE12-NKE-3 | KIT-XE15-NKE-3 |
|---|---|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| KIT WITH SMARTPHONE CONTROL | | | KIT-XE7-NKE-3-WIFI | KIT-XE9-NKE-3-WIFI | KIT-XE12-NKE-3-WIFI | KIT-XE15-NKE-3-WIFI |
| Indoor | | | CS-XE7NKEW | CS-XE9NKEW | CS-XE12NKEW | CS-XE15NKE-3 |
| Outdoor | | | CU-E7NKE-3 | CU-E9NKE-3 | CU-E12NKE-3 | CU-E15NKE-3 |
| 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 (0.98-5.00) |
| | Nominal (Min - Max) | kCal/h | 1,760 (650-2,060) | 2,150 (730-2,580) | 3,010 (730-3,440) | 3,610 (840-4,300) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.36 (3.13-4.14) ◀A | 4.67 (3.47-4.11) ◀A | 3.87 (3.40-3.39) ◀A | 3.44 (3.50-3.13) ◀A |
| Power input Cooling | Nominal (Min - Max) | kW | 0.47 (0.24-0.58) | 0.535 (0.245-0.730) | 0.905 (0.250-1.180) | 1.22 (0.28-1.60) |
| | Nominal (Min - Max) | kCal/h | 2,410 (650-3,440) | 2,920 (730-4,300) | 3,780 (730-5,760) | 4,640 (840-6,110) |
| Heating capacity | Nominal (Min - Max) | kW | 2.80 (0.75-4.00) | 3.40 (0.85-5.00) | 4.40 (0.85-6.70) | 5.40 (0.98-7.10) |
| | Nominal (Min - Max) | kCal/h | 2,410 (650-3,440) | 2,920 (730-4,300) | 3,780 (730-5,760) | 4,640 (840-6,110) |
| Heating capacity at -7°C | Nominal | kW | 2.35 | 2.88 | 3.75 | 4.1 |
| | Nominal (Min - Max) | Energy Saving | 4.41 (3.26-3.92) ◀A | 4.63 (3.54-3.85) ◀A | 4.04 (3.47-3.47) ◀A | 3.70 (2.88-3.21) ◀A |
| Power input Heating | Nominal (Min - Max) | kW | 0.635 (0.23-1.02) | 0.735 (0.240-1.30) | 1.09 (0.245-1.93) | 1.46 (0.340-2.210) |
| | Annual Energy Consumption ²⁾ | kWh | 235 | 268 | 453 | 610 |
| INDOOR UNIT | | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 654 / 684 | 678 / 702 | 750 / 768 | 750 / 804 |
| Moisture removal volume | | l/h | 1.3 | 1.5 | 2 | 2.4 |
| Sound pressure Level ³⁾ | Cool - Heat (Hi/L0/S-Lo) | dB(A) | 37 / 24 / 20 - 38 / 25 / 20 | 39 / 25 / 20 - 40 / 27 / 20 | 42 / 28 / 20 - 42 / 33 / 20 | 43 / 32 / 29 - 43 / 35 / 29 |
| Sound power Level | Cooling / Heating (Hi) | dB | 53 / 54 | 55 / 56 | 58 / 58 | 59 / 59 |
| Dimensions | H x W x D | mm | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 |
| Net weight | | Kg | 9 | 9 | 9 | 9 |
| Air purifier filter | | | Nanoe-G | Nanoe-G | Nanoe-G | Nanoe-G |
| OUTDOOR UNIT | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Current (Nominal) | Cooling / Heating | A | 2.2 / 3.0 | 2.5 / 3.4 | 4.1 / 5.1 | 5.5 / 6.6 |
| | Max. current | A | 4.7 | 5.8 | 8.9 | 9.7 |
| Air Volume | Cooling / Heating | m ³ /h | 2,034 / 2,034 | 1,788 / 1,788 | 1,860 / 1,860 | 2,052 / 1,980 |
| Sound pressure Level ³⁾ | Cooling / Heating (Hi) | dB(A) | 45 / 46 | 46 / 47 | 48 / 50 | 46 / 46 |
| Sound power Level | Cooling / Heating (Hi) | dB | 60 / 61 | 61 / 62 | 63 / 65 | 61 / 61 |
| Dimensions ⁴⁾ | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 542 x 780 x 289 | 695 x 875 x 320 |
| Net weight | | Kg | 32 | 35 | 35 | 45 |
| 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) |
| Refrigerant Loading | R410A | Kg | 0.830 | 0.950 | 0.970 | 1.040 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 15 | 15 | 15 | 15 |
| Piping length | Min / Max | m | 3-15 | 3-15 | 3-15 | 3-15 |
| Piping length without refrigerant increase | Max | m | 7.5 | 7.5 | 7.5 | 7.5 |
| Additional gas | | g/m | 20 | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | +5 / +43 | +5 / +43 | +5 / +43 | +5 / +43 |
| | Heating Min / Max | °C | -15 / +24 | -15 / +24 | -15 / +24 | -15 / +24 |

Specifications subject to change without notice



NEW
2012

ETHEREA



INCLUDED WITH
THE INDOOR UNIT



OPTIONAL
WIRED REMOTE CONTROL
CZ-RD514C

TECHNICAL FOCUS

- **NEW!** MAXIMUM EFFICIENCY AND COMFORT WITH ECONAVI, NOW WITH SUNLIGHT DETECTION
- EXCLUSIVE SILVER DESIGN
- **NEW!** NANO-E-G AIR PURIFYING SYSTEM, 99% EFFECTIVE ON BOTH AIRBORNE AND ADHESIVE MOULD, VIRUSES AND BACTERIA
- **NEW!** OPTIONAL SMARTPHONE CONTROL WITH INTENSISHOME DEVICE
- MILD DRY COOLING: PREVENT A RAPID DECREASE IN ROOM HUMIDITY
- SUPER QUIET! ONLY 20 dB, EQUIVALENT TO NIGHT-TIME IN THE COUNTRY (XE7, XE9 AND XE12)
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE



eco ideas
Energy-Efficiency
Classification
Most efficient level: A
(CS-XE9NKEW
EER/COP: 4.2/4.63)

KIT-XE7-NKE-3 // KIT-XE9-NKE-3 // KIT-XE12-NKE-3 // KIT-XE15-NKE-3

HEALTHY AIR

- **NEW!** NANO-E-G air purifying system
- Mild Dry Cooling operation mode for increased comfort and prevention of skin moisture loss

ENERGY EFFICIENCY AND ECOLOGY

- Maximum efficiency Inverter system, for bigger savings
- **NEW!** -30% consumption with Econavi on heat pump, and -35% on cooling mode
- R410A refrigerant gas

COMFORT

- Super Quiet mode (from 20 dB)
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE

- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)
- **NEW!** Optional Smartphone control with IntensisHome device

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- 15 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function



CU-E7NKE-3
CU-E9NKE-3



CU-E15NKE-3

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with NKE units.

- 1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.



WALL MOUNTED ETHEREA // INVERTER+ // SILVER

ETHEREA WITH ENHANCED ECONAVI SENSOR AND NEW NANO-E-G AIR-PURIFYING SYSTEM: OUTSTANDING EFFICIENCY, COMFORT AND HEALTHY AIR COMBINED WITH STATE-OF-THE-ART DESIGN

Econavi builds-in a Human Activity sensor and a new Sunlight Detection technology to adjust output ideally 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, you will achieve up to 35% energy savings whilst increasing your comfort.

Furthermore, the NANO-E-G 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.

Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with Econavi. More efficiency for bigger savings!



OPTIONAL



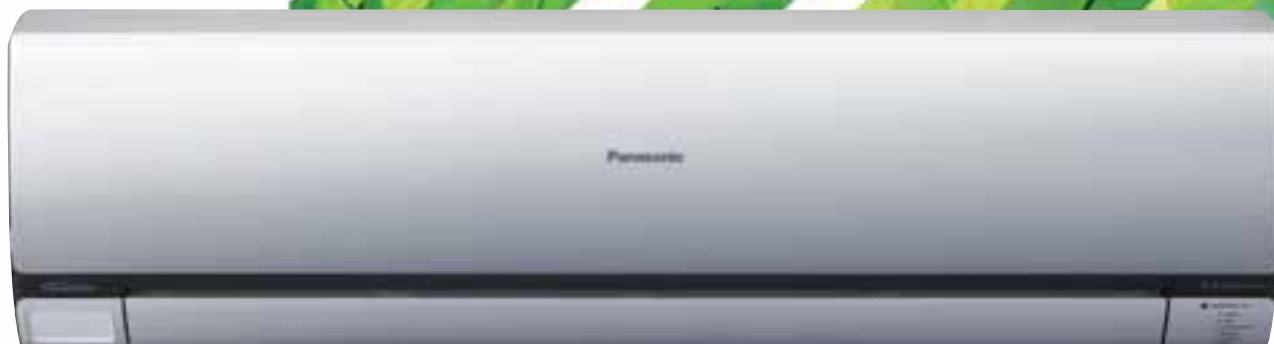
Maintains a Relative Humidity up to 10% higher than cooling operation. Ideal when sleeping with the air conditioner on.

| KIT | | | KIT-XE18-NKE | KIT-XE21-NKE |
|---|--------------------------|-------------------|----------------------------|----------------------------|
| KIT WITH SMARTPHONE CONTROL | | | KIT-XE18-NKE-WIFI | KIT-XE21-NKE-WIFI |
| Indoor | | | CS-XE18NKEW | CS-XE21NKEW |
| Outdoor | | | CU-E18NKE | CU-E21NKE |
| Cooling capacity | Nominal (Min - Max) | kW | 5.00 (0.98-6.00) | 6.30 (0.98-7.10) |
| | Nominal (Min - Max) | kCal/h | 4,300 (840-5,160) | 5,420 (840-6,110) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.40 (3.50-2.96) ◀A | 2.85 (3.50-2.80) ◀A |
| | Nominal (Min - Max) | | | |
| Power input Cooling | Nominal (Min - Max) | kW | 1.47 (0.28-2.03) | 2.21 (0.28-2.54) |
| Heating capacity | Nominal (Min - Max) | kW | 5.80 (0.98-8.00) | 7.20 (0.98-8.50) |
| | Nominal (Min - Max) | kCal/h | 4,990 (840-6,880) | 6,190 (840-7,310) |
| Heating capacity at -7°C | Nominal | kW | 4.98 | 5.24 |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.77 (2.88-3.08) ◀A | 3.43 (2.88-3.09) ◀A |
| | Nominal (Min - Max) | | | |
| Power input Heating | Nominal (Min - Max) | kW | 1.54 (0.34-2.60) | 2.10 (0.34-2.75) |
| Annual Energy Consumption ²⁾ | | kWh | 735 | 1,105 |
| INDOOR UNIT | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 978 / 1,074 | 1,038 / 1,110 |
| Moisture removal volume | | l/h | 2.8 | 3.5 |
| Sound pressure Level ³⁾ | Cooling (Hi / Lo / S-Lo) | dB(A) | 44 / 37 / 34 | 45 / 37 / 34 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 44 / 37 / 34 | 45 / 37 / 34 |
| Sound power Level | Cooling (Hi) | dB | 60 | 61 |
| | Heating (Hi) | dB | 60 | 61 |
| Dimensions | H x W x D | mm | 290 x 1,070 x 240 | 290 x 1,070 x 240 |
| Net weight | | Kg | 12 | 12 |
| Air purifier filter | | | NANO-E-G | NANO-E-G |
| OUTDOOR UNIT | | | | |
| Power source | | V | 230 | 230 |
| Connection | | mm ² | 4 x 2.5 | 4 x 2.5 |
| Current (Nominal) | Cooling / Heating | A | 6.6 / 6.9 | 9.9 / 9.4 |
| Max. current | | A | 11.4 | 12.1 |
| Air Volume | Cooling / Heating | m ³ /h | 2,352 / 2,274 | 2,502 / 2,424 |
| Sound pressure Level ³⁾ | Cooling (Hi) | dB(A) | 47 | 48 |
| | Heating (Hi) | dB(A) | 47 | 49 |
| Sound power Level | Cooling (Hi) | dB | 61 | 62 |
| | Heating (Hi) | dB | 61 | 63 |
| Dimensions ⁴⁾ | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 |
| Net weight | | Kg | 46 | 47 |
| Piping connections | Liquid pipe / Gas pipe | inch (mm) | 1/4" (6.35) / 1/2" (12.70) | 1/4" (6.35) / 1/2" (12.70) |
| Refrigerant Loading | R410A | Kg | 1.22 | 1.28 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 15 | 15 |
| Piping length | Min / Max | m | 3-20 | 3-20 |
| Piping length without refrigerant increase | Max | m | 7.5 | 7.5 |
| Additional gas | | g/m | 20 | 20 |
| Operating range | Cooling Min / Max | °C | +5 / +43 | +5 / +43 |
| | Heating Min / Max | °C | -5 / +24 | -5 / +24 |



NEW
2012

ETHEREA



INCLUDED WITH
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OPTIONAL
WIRED REMOTE CONTROL
CZ-RD514C

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- **NEW!** NANO-E-G AIR PURIFYING SYSTEM, 99% EFFECTIVE ON BOTH AIRBORNE AND ADHESIVE MOULD, VIRUSES AND BACTERIA
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- MILD DRY COOLING: PREVENT A RAPID DECREASE IN ROOM HUMIDITY
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE



KIT-XE18-NKE // KIT-XE21-NKE

HEALTHY AIR

- **NEW!** NANO-E-G air purifying system
- Mild Dry Cooling operation mode for increased comfort and prevention of skin moisture loss

ENERGY EFFICIENCY AND ECOLOGY

- Maximum efficiency Inverter system, for bigger savings
- **NEW!** -30% consumption with Econavi on heat pump, and -35% on cooling mode
- R410A refrigerant gas

COMFORT

- Super Quiet mode (from 20 dB)
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE

- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)
- **NEW!** Optional Smartphone control with IntensisHome device

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- 15 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|-------------------------|------------------------|-------------------|---------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB | |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with NKE units.

- 1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.



CJ-E18NKE
CJ-E21NKE



WALL MOUNTED ETHEREA // INVERTER+ // WHITE

ETHEREA WITH ENHANCED ECONAVI SENSOR AND NEW NANO-E-G AIR-PURIFYING SYSTEM: OUTSTANDING EFFICIENCY, COMFORT AND HEALTHY AIR COMBINED WITH STATE-OF-THE-ART DESIGN

Econavi builds-in a Human Activity sensor and a new Sunlight Detection technology to adjust output ideally 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, you will achieve up to 35% energy savings whilst increasing your comfort.

Furthermore, the NANO-E-G 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.

Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with Econavi. More efficiency for bigger savings!



OPTIONAL



Maintains a Relative Humidity up to 10% higher than cooling operation. Ideal when sleeping with the air conditioner on.
FOR XE7, XE9, XE12, E7, E9 AND E12

| KIT | | | KIT-E7-NKE-3 | KIT-E9-NKE-3 | KIT-E12-NKE-3 | KIT-E15-NKE-3 |
|---|--------------------------|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| KIT WITH SMARTPHONE CONTROL | | | KIT-E7-NKE-3-WIFI | KIT-E9-NKE-3-WIFI | KIT-E12-NKE-3-WIFI | KIT-E15-NKE-3-WIFI |
| Indoor | | | CS-E7NKEW | CS-E9NKEW | CS-E12NKEW | CS-E15NKEW-3 |
| Outdoor | | | CU-E7NKE-3 | CU-E9NKE-3 | CU-E12NKE-3 | CU-E15NKE-3 |
| 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 (0.98-5.00) |
| | Nominal (Min - Max) | kCal/h | 1,760 (650-2,060) | 2,150 (730-2,580) | 3,010 (730-3,440) | 3,610 (840-4,300) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.36 (3.13-4.14) ◀A | 4.67 (3.47-4.11) ◀A | 3.87 (3.40-3.39) ◀A | 3.44 (3.50-3.13) ◀A |
| Power input Cooling | Nominal (Min - Max) | kW | 0.47 (0.24-0.58) | 0.535 (0.245-0.730) | 0.905 (0.250-1.180) | 1.22 (0.28-1.60) |
| Heating capacity | Nominal (Min - Max) | kW | 2.80 (0.75-4.00) | 3.40 (0.85-5.00) | 4.40 (0.85-6.70) | 5.40 (0.98-7.10) |
| | Nominal (Min - Max) | kCal/h | 2,410 (650-3,440) | 2,920 (730-4,300) | 3,780 (730-5,760) | 4,640 (840-6,110) |
| Heating capacity at -7°C | Nominal | kW | 2.35 | 2.88 | 3.75 | 4.1 |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.41 (3.26-3.92) ◀A | 4.63 (3.54-3.85) ◀A | 4.04 (3.47-3.47) ◀A | 3.70 (2.88-3.21) ◀A |
| Power input Heating | Nominal (Min - Max) | kW | 0.635 (0.23-1.02) | 0.735 (0.240-1.30) | 1.09 (0.245-1.93) | 1.46 (0.340-2.210) |
| Annual Energy Consumption ²⁾ | | kWh | 235 | 268 | 453 | 610 |
| INDOOR UNIT | | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 654 / 684 | 678 / 702 | 750 / 768 | 750 / 804 |
| Moisture removal volume | | l/h | 1.3 | 1.5 | 2 | 2.4 |
| Sound pressure Level ³⁾ | Cool - Heat (Hi/L0/S-Lo) | dB(A) | 37 / 24 / 20 - 38 / 25 / 20 | 39 / 25 / 20 - 40 / 27 / 20 | 42 / 28 / 20 - 42 / 33 / 20 | 43 / 32 / 29 - 43 / 35 / 29 |
| Sound power Level | Cooling / Heating (Hi) | dB | 53 / 54 | 55 / 56 | 58 / 58 | 59 / 59 |
| Dimensions | H x W x D | mm | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 |
| Net weight | | Kg | 9 | 9 | 9 | 9 |
| Air purifier filter | | | Nanoe-G | Nanoe-G | Nanoe-G | Nanoe-G |
| OUTDOOR UNIT | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Current (Nominal) | Cooling / Heating | A | 2.2 / 3.0 | 2.5 / 3.4 | 4.1 / 5.1 | 5.5 / 6.6 |
| Max. current | | A | 4.7 | 5.8 | 8.9 | 9.7 |
| Air Volume | Cooling / Heating | m ³ /h | 2,034 / 2,034 | 1,788 / 1,788 | 1,860 / 1,860 | 2,052 / 1,980 |
| Sound pressure Level ³⁾ | Cooling / Heating (Hi) | dB(A) | 45 / 46 | 46 / 47 | 48 / 50 | 46 / 46 |
| Sound power Level | Cooling / Heating (Hi) | dB | 60 / 61 | 61 / 62 | 63 / 65 | 61 / 61 |
| Dimensions ⁴⁾ | H x W x D | mm | 542 x 780 x 289 | 542 x 780 x 289 | 542 x 780 x 289 | 695 x 875 x 320 |
| Net weight | | Kg | 32 | 35 | 35 | 45 |
| 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) |
| Refrigerant Loading | R410A | Kg | 0.830 | 0.950 | 0.970 | 1.040 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 15 | 15 | 15 | 15 |
| Piping length | Min / Max | m | 3-15 | 3-15 | 3-15 | 3-15 |
| Piping length without refrigerant increase | Max | m | 7.5 | 7.5 | 7.5 | 7.5 |
| Additional gas | | g/m | 20 | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | +5 / +43 | +5 / +43 | +5 / +43 | +5 / +43 |
| | Heating Min / Max | °C | -15 / +24 | -15 / +24 | -15 / +24 | -15 / +24 |

Specifications subject to change without notice



NEW
2012

ETHEREA



INCLUDED WITH
THE INDOOR UNIT



OPTIONAL
WIRED REMOTE CONTROL
CZ-RD514C

TECHNICAL FOCUS

- **NEW!** MAXIMUM EFFICIENCY AND COMFORT WITH ECONAVI, NOW WITH SUNLIGHT DETECTION
- EXCLUSIVE WHITE DESIGN
- **NEW!** NANO-E-G AIR PURIFYING SYSTEM, 99% EFFECTIVE ON BOTH AIRBORNE AND ADHESIVE MOULD, VIRUSES AND BACTERIA
- **NEW!** OPTIONAL SMARTPHONE CONTROL WITH INTENSISHOME DEVICE
- MILD DRY COOLING: PREVENT A RAPID DECREASE IN ROOM HUMIDITY
- SUPER QUIET! ONLY 20 dB, EQUIVALENT TO NIGHT-TIME IN THE COUNTRY (E7, E9 AND E12)
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE



Energy-Efficiency
Classification
Most efficient level: A
(CS-E9NKEW
EER/COP: 4.6/4.63)

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with NKE units.

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- 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 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-E7-NKE-3 // KIT-E9-NKE-3 // KIT-E12-NKE-3 // KIT-E15-NKE-3

HEALTHY AIR

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ENERGY EFFICIENCY AND ECOLOGY

- Maximum efficiency Inverter system, for bigger savings
- **NEW!** -30% consumption with Econavi on heat pump, and -35% on cooling mode
- R410A refrigerant gas

COMFORT

- Super Quiet mode (from 20 dB)
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
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EASE OF USE

- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)
- **NEW!** Optional Smartphone control with IntensisHome device

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- 15 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function



CU-E7NKE-3
CU-E9NKE-3



CU-E15NKE-3



WALL MOUNTED ETHEREA // INVERTER+ // WHITE

ETHEREA WITH ENHANCED ECONAVI SENSOR AND NEW NANO-E-G AIR-PURIFYING SYSTEM: OUTSTANDING EFFICIENCY, COMFORT AND HEALTHY AIR COMBINED WITH STATE-OF-THE-ART DESIGN

Econavi builds-in a Human Activity sensor and a new Sunlight Detection technology to adjust output ideally 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, you will achieve up to 35% energy savings whilst increasing your comfort.

Furthermore, the NANO-E-G 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.

Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with Econavi. More efficiency for bigger savings!



OPTIONAL



Maintains a Relative Humidity up to 10% higher than cooling operation. Ideal when sleeping with the air conditioner on.

| KIT | | | KIT-E18-NKE | KIT-E21-NKE | KIT-E24-NKE | KIT-E28-NKE |
|---|--------------------------|-------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| KIT WITH SMARTPHONE CONTROL | | | KIT-E18-NKE-WIFI | KIT-E21-NKE-WIFI | KIT-E24-NKE-WIFI | KIT-E28-NKE-WIFI |
| Indoor | | | CS-E18NKEW | CS-E21NKEW | CS-E24NKEW | CS-E28NKEW |
| Outdoor | | | CU-E18NKE | CU-E21NKE | CU-E24NKE | CU-E28NKE |
| 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) |
| | Nominal (Min - Max) | kCal/h | 4,300 (840-5,160) | 5,420 (840-6,110) | 5,850 (840-6,970) | 6,580 (840-7,400) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.40 (3.50-2.96) ◀A | 2.85 (3.50-2.80) ◀A | 3.21 (2.58-3.00) ◀A | 3.01 (2.58-2.92) ◀A |
| Power input Cooling | Nominal (Min - Max) | kW | 1.47 (0.28-2.03) | 2.21 (0.28-2.54) | 2.12 (0.38-2.7) | 2.54 (0.38-2.95) |
| 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) |
| | Nominal (Min - Max) | kCal/h | 4,990 (840-6,880) | 6,190 (840-7,310) | 7,400 (840-8,510) | 8,260 (840-9,460) |
| Heating capacity at -7°C | Nominal | kW | 4.98 | 5.24 | 6.13 | 6.77 |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.77 (2.88-3.08) ◀A | 3.43 (2.88-3.09) ◀A | 3.23 (2.18-3.09) ◀A | 2.91 (2.18-2.93) ◀A |
| Power input Heating | Nominal (Min - Max) | kW | 1.54 (0.34-2.60) | 2.10 (0.34-2.75) | 2.66 (0.45-3.20) | 3.30 (0.45-3.75) |
| Annual Energy Consumption ²⁾ | | kWh | 735 | 1,105 | 1,060 | 1,270 |
| INDOOR UNIT | | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 978 / 1,074 | 1,038 / 1,110 | 1,104 / 1,170 | 1,158 / 1,206 |
| Moisture removal volume | | l/h | 2.8 | 3.5 | 3.9 | 4.5 |
| Sound pressure Level ³⁾ | Cooling (Hi / Lo / S-Lo) | dB(A) | 44 / 37 / 34 | 45 / 37 / 34 | 47 / 38 / 35 | 49 / 38 / 35 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 44 / 37 / 34 | 45 / 37 / 34 | 47 / 38 / 35 | 48 / 38 / 35 |
| Sound power Level | Cooling (Hi) | dB | 60 | 61 | 63 | 65 |
| | Heating (Hi) | dB | 60 | 61 | 63 | 64 |
| Dimensions | H x W x D | mm | 290 x 1,070 x 240 | 290 x 1,070 x 240 | 290 x 1,070 x 240 | 290 x 1,070 x 240 |
| Net weight | | Kg | 12 | 12 | 12 | 12 |
| Air purifier filter | | | NANO-E-G | NANO-E-G | NANO-E-G | NANO-E-G |
| OUTDOOR UNIT | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 2.5 | 4 x 2.5 | 4 x 2.5 | 4 x 2.5 |
| Current (Nominal) | Cooling / Heating | A | 6.6 / 6.9 | 9.9 / 9.4 | 9.7 / 12.1 | 11.5 / 15.0 |
| Max. current | | A | 11.4 | 12.1 | 14.6 | 15.6 |
| Air Volume | Cooling / Heating | m ³ /h | 2,352 / 2,274 | 2,502 / 2,424 | 3,012 / 3,012 | 3,270 / 3,270 |
| Sound pressure Level ³⁾ | Cooling (Hi) | dB(A) | 47 | 48 | 52 | 53 |
| | Heating (Hi) | dB(A) | 47 | 49 | 52 | 53 |
| Sound power Level | Cooling (Hi) | dB | 61 | 62 | 66 | 67 |
| | Heating (Hi) | dB | 61 | 63 | 66 | 67 |
| Dimensions ⁴⁾ | H x W x D | mm | 695 x 875 x 320 | 695 x 875 x 320 | 795 x 875 x 320 | 795 x 875 x 320 |
| Net weight | | Kg | 46 | 47 | 65 | 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) |
| Refrigerant Loading | R410A | Kg | 1.22 | 1.28 | 1.70 | 1.80 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 15 | 15 | 20 | 20 |
| Piping length | Min / Max | m | 3-20 | 3-20 | 3-30 | 3-30 |
| Piping length without refrigerant increase | Max | m | 7.5 | 7.5 | 10 | 10 |
| Additional gas | | g/m | 20 | 20 | 30 | 30 |
| Operating range | Cooling Min / Max | °C | +5 / +43 | +5 / +43 | +16 / +43 | +16 / +43 |
| | Heating Min / Max | °C | -5 / +24 | -5 / +24 | -5 / +24 | -5 / +24 |



NEW
2012

ETHEREA



INCLUDED WITH
THE INDOOR UNIT



OPTIONAL
WIRED REMOTE CONTROL
CZ-RD514C

TECHNICAL FOCUS

- **NEW!** MAXIMUM EFFICIENCY AND COMFORT WITH ECONAVI, NOW WITH SUNLIGHT DETECTION
- EXCLUSIVE WHITE DESIGN
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- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE



KIT-E18-NKE // KIT-E21-NKE // KIT-E24-NKE // KIT-E28-NKE

HEALTHY AIR

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ENERGY EFFICIENCY AND ECOLOGY

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- **NEW!** -30% consumption with Econavi on heat pump, and -35% on cooling mode
- R410A refrigerant gas

COMFORT

- Super Quiet mode (from 20 dB)
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
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- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)
- **NEW!** Optional Smartphone control with IntensisHome device

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- 15 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with NKE units.

- 1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.



CU-E18NKE
CU-E21NKE



CU-E24NKE
CU-E28NKE



WALL MOUNTED RE TYPE // STANDARD INVERTER

RE: Inverter models are powerful and efficient and are always there when you need them. Furthermore, with the Anti Bacterial Filter, you can always enjoy the best quality air, without viruses, moulds and bacteria.

prevention
allergy
filter

ANTI BACTERIAL
FILTER

relaxing
breeze
effect

SOFT BREEZE

silent
air
22 dB

SUPER QUIET

FOR RE9 AND RE12

| KIT | | | KIT-RE9-NKX | KIT-RE12-NKX | KIT-RE15-NKX | KIT-RE18-NKX | KIT-RE24-NKX |
|---|--------------------------|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Indoor | | | CS-RE9NKX | CS-RE12NKX | CS-RE15NKX | CS-RE18NKX | CS-RE24NKX |
| Outdoor | | | CU-RE9NKX | CU-RE12NKX | CU-RE15NKX | CU-RE18NKX | CU-RE24NKX |
| Cooling capacity | Nominal (Min - Max) | kW | 2.50 (0.90-3.00) | 3.50 (0.90-3.90) | 4.20 (1.00-4.60) | 5.00 (0.98-6.00) | 6.80 (0.98-8.10) |
| | Nominal (Min - Max) | kCal/h | 2,150 (770-2,580) | 3,010 (770-3,350) | 3,610 (860-3960) | 4,300 (840-5,160) | 5,850 (840-6,970) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.57 (4.74-3.00) ◀A | 3.47 (5.29-3.25) ◀A | 3.33 (4.76-2.78) ◀A | 3.40 (3.50-2.96) ◀A | 3.21 (2.58-3.00) ◀A |
| | Nominal (Min - Max) | kW | 0.70 (0.19-1.00) | 1.01 (0.17-1.2) | 1.26 (0.21-1.65) | 1.47 (0.28-2.03) | 2.12 (0.38-2.70) |
| Power input Cooling | Nominal (Min - Max) | kW | 3.30 (0.90-4.10) | 4.25 (0.90-5.10) | 5.00 (0.90-6.80) | 5.80 (0.98-8.00) | 8.60 (0.98-9.90) |
| | Nominal (Min - Max) | kCal/h | 2,840 (770-3,520) | 3,660 (770-4,390) | 4,300 (770-5848) | 4,990 (840-6,880) | 7,400 (840-8,510) |
| Heating capacity | Nominal (Min - Max) | Energy Saving | 4.02 (5.29-3.57) ◀A | 3.79 (6.00-3.49) ◀A | 3.61 (4.28-2.98) ◀A | 3.77 (2.88-3.08) ◀A | 3.23 (2.18-3.09) ◀A |
| | Nominal (Min - Max) | kW | 0.82 (0.17-1.15) | 1.12 (0.15-1.46) | 1.385(0.21-2.280) | 1.54 (0.34-2.60) | 2.66 (0.45-3.20) |
| COP ¹⁾ | Nominal (Min - Max) | kW | 0.82 (0.17-1.15) | 1.12 (0.15-1.46) | 1.385(0.21-2.280) | 1.54 (0.34-2.60) | 2.66 (0.45-3.20) |
| | Nominal (Min - Max) | kWh | 350 | 505 | 630 | 735 | 1,060 |
| Annual Energy Consumption ²⁾ | | | | | | | |
| INDOOR UNIT | | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 2.5 | 4 x 2.5 |
| Current Cooling | Nominal | A | 3.3 | 4.7 | 6 | 6.6 | 9.7 |
| | Max. current | A | 5.1 | 6.8 | 10.5 | 11.4 | 14.6 |
| Current Heating | Nominal | A | 3.8 | 5.2 | 6.3 | 6.9 | 12.1 |
| | Max. current | A | 5.1 | 6.8 | 10.5 | 11.4 | 14.6 |
| Air Volume | Cooling / Heating | m ³ /h | 750 / 750 | 756 / 798 | 840 / 936 | 978 / 1,074 | 1,104 / 1,170 |
| | Moisture removal volume | l/h | 1.4 | 2.0 | 2.4 | 2.8 | 3.9 |
| Sound pressure Level ³⁾ | Cooling (Hi / Lo / S-Lo) | dB(A) | 42 / 27 / 22 | 42 / 30 / 22 | 46 / 31 / 29 | 44 / 37 | 47 / 38 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 42 / 27 / 25 | 42 / 33 / 25 | 46 / 34 / 28 | 44 / 37 | 47 / 38 |
| Sound power Level | Cooling (Hi) | dB | 58 | 58 | 62 | 60 | 63 |
| | Heating (Hi) | dB | 58 | 58 | 62 | 60 | 63 |
| Dimensions | H x W x D | mm | 290 x 848 x 204 | 290 x 848 x 204 | 290 x 848 x 204 | 290 x 1,070 x 240 | 290 x 1,070 x 240 |
| Net weight | | Kg | 9 | 9 | 9 | 12 | 12 |
| Air purifier filter | | | Alleru-buster filter | Alleru-buster filter | Alleru-buster filter | Alleru-buster filter | Alleru-buster filter |
| OUTDOOR UNIT | | | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 1,734 / 1,734 | 1,830 / 1,830 | 1,872 / 1,794 | 2,352 / 2,274 | 3,012 / 3,012 |
| Sound pressure Level ³⁾ | Cooling (Hi) | dB(A) | 47 | 48 | 50 | 47 | 52 |
| | Heating (Hi) | dB(A) | 48 | 50 | 51 | 47 | 52 |
| Sound power Level | Cooling (Hi) | dB | 63 | 64 | 66 | 61 | 66 |
| | Heating (Hi) | dB | 64 | 66 | 67 | 61 | 66 |
| Dimensions ⁴⁾ | H x W x D | mm | 540 x 780 x 289 | 540 x 780 x 289 | 540 x 780 x 289 | 695 x 875 x 320 | 795 x 875 x 320 |
| Net weight | | Kg | 24 | 28 | 36 | 46 | 65 |
| 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) |
| | Gas pipe | inch (mm) | 3/8" (9.52) | 3/8" (9.52) | 1/2" (12.70) | 1/2" (12.70) | 5/8" (15.88) |
| Refrigerant Loading | R410A | Kg | 0.85 | 0.97 | 1.00 | 1.22 | 1.70 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 5 | 5 | 5 | 15 | 20 |
| | Min / Max | m | 3-15 | 3-15 | 3-15 | 3-20 | 3-30 |
| Piping length without refrigerant increase | Min / Max | m | 3-15 | 3-15 | 3-15 | 3-20 | 3-30 |
| | Max | m | 7.5 | 7.5 | 7.5 | 7.5 | 10 |
| Additional gas | | g/m | 20 | 20 | 20 | 20 | 30 |
| Operating range | Cooling Min / Max | °C | 16 / 43 | 16 / 43 | 16 / 43 | 16 / 43 | 16 / 43 |
| | Heating Min / Max | °C | -5 ^{d)} / 24 | -5 ^{d)} / 24 | -5 ^{d)} / 24 | -5 ^{d)} / 24 | -5 ^{d)} / 24 |

Specifications subject to change without notice



CS-RE9NKX // CS-RE12NKX // CS-RE15NKX



FOR RE9, RE12
AND RE15.
INCLUDED WITH
THE INDOOR UNIT



FOR RE18 AND
RE24. INCLUDED
WITH THE
INDOOR UNIT

TECHNICAL FOCUS

- COMPLETE LINE-UP OF STANDARD INVERTER MODELS
- QUIETER INDOOR UNITS
- HIGH ENERGY SAVINGS
- REFRESHING AIRFLOW WITH RELAXING BREEZE EFFECT
- LONG CONNECTION DISTANCE (FROM 15 m UP TO 30 m)



CS-RE18NKX // CS-RE24NKX

KIT-RE9-NKX // KIT-RE12-NKX // KIT-RE15-NKX // KIT-RE18-NKX // KIT-RE24-NKX

HEALTHY AIR

- New generation Anti Bacterial Filter
- Odour-removing function
- Anti-mould filter

ENERGY, EFFICIENCY AND ECOLOGY

- Inverter system
- R410A refrigerant gas

COMFORT

- Refreshing airflow with relaxing breeze effect (only for RE9, RE12 and RE15)
- Super Quiet mode (only for RE9, RE12 and RE15)
- Powerful mode (only for RE9 and RE12 and RE15)
- Automatic vertical airflow control
- Hot start mode
- Automatic restart
- Simple change over

EASE OF USE

- 12-hr timer (only for RE9, RE12 and RE15)
- 24-hr timer (only for RE18 and RE24)
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE

- 15 m maximum connection distance (20 m for RE18 and 30 m for RE24)
- Removable, washable panel
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|-------------------------|------------------------|-------------------|---------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB | |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with NKX units.

- 1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 h per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured at a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.
- 6) Operation possible on heating mode up to -15 °C. Performance guaranty on heating mode up to -5 °C. This product can not be used on 24 h operation on areas where the weather is extreme. When the temperature is lower of -5 °C, the efficiency will drop significantly and the machine may stop for protection.

CU-RE9NKX
CU-RE12NKX

CU-RE18NKX



CU-RE24NKX



WALL MOUNTED YE TYPE // STANDARD INVERTER

ECONOMICAL, ENVIRONMENT-FRIENDLY OPERATION WITH HIGH COP (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.
 YE Inverter models are powerful and efficient.



| KIT | | | KIT-YE9-MKX | KIT-YE12-MKX | KIT-YE18-MKX |
|---|--------------------------|-------------------|----------------------|----------------------|---------------------|
| INDOOR | | | CS-YE9MKX | CS-YE12MKX | CS-YE18MKX |
| Outdoor | | | CU-YE9MKX | CU-YE12MKX | CU-YE18MKX |
| Cooling capacity | Nominal (Min - Max) | kW | 2.50 (0.90-3.00) | 3.30 (0.90-3.90) | 5.00 (0.90-5.30) |
| | Nominal (Min - Max) | kCal/h | 2,150 (770-2,580) | 2,840 (770-3350) | 4,300 (860-4560) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.28 (4.73 -3.00) ◀A | 3.23 A (4.5-3.00) ◀A | 3.01 (4.16-2.71) ◀B |
| | Nominal (Min - Max) | kW | 0.76 (0.19-1.00) | 1.02 (0.20-1.3) | 1.66 (0.24-1.95) |
| Power input Cooling | Nominal (Min - Max) | kW | 3.20 (0.90-4.20) | 4.00 (0.90-5.00) | 5.50 (0.90-6.80) |
| | Nominal (Min - Max) | kCal/h | 2,750 (770-3,610) | 3,440 (770-4,300) | 4,730 (770-5850) |
| Heating capacity | Nominal (Min - Max) | kW | 3.00 | 3.61 | 4.95 |
| | Nominal (Min - Max) | kCal/h | 3.00 | 3.61 | 4.95 |
| Heating capacity at +2°C | Nominal | kW | 3.00 | 3.61 | 4.95 |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.63 (4.73-3.50) ◀A | 3.61 (4.50-3.52) ◀A | 3.40 (4.28-2.89) ◀B |
| | Nominal (Min - Max) | kW | 0.88 (0.19-1.20) | 1.11 (0.20-1.42) | 1.62 (0.21-2.35) |
| Power input Heating | Nominal (Min - Max) | kW | 0.88 (0.19-1.20) | 1.11 (0.20-1.42) | 1.62 (0.21-2.35) |
| Annual Energy Consumption ²⁾ | | kWh | 380 | 510 | 830 |
| INDOOR UNIT | | | | | |
| Power source | | V | 230 (Via outdoor) | 230 (Via outdoor) | 230 (Via outdoor) |
| Connection | | mm ² | 4 x 2.5 | 4 x 2.5 | 4 x 2.5 |
| Current (Nominal) | Cooling / Heating | A | 3.6 / 4.1 | 4.9 / 5.2 | 7.9 / 7.7 |
| Max. current | | A | 5.80 | 8.80 | 10.5 |
| Air Volume | Cooling / Heating | m ³ /h | 750 / 780 | 810 / 834 | 876 / 918 |
| Moisture removal volume | | l/h | 1.4 | 1.9 | 2.8 |
| Sound pressure Level ³⁾ | Cooling (Hi / Lo / S-Lo) | dB(A) | 40 / 27 / 22 | 42 / 30 / 22 | 46 / 31 / 29 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 40 / 27 / 23 | 42 / 33 / 25 | 46 / 30 / 27 |
| Sound power Level | Cooling / Heating (Hi) | dB | 56 / 56 | 58 / 58 | 62 / 62 |
| Dimensions | H x W x D | mm | 283 x 803 x 214 | 283 x 803 x 214 | 283 x 803 x 214 |
| Net weight | | Kg | 8 | 8 | 7.5 |
| OUTDOOR UNIT | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 1,980 / 1,980 | 2,070 / 2,070 | 2,160 / 2,160 |
| Sound pressure Level ³⁾ | Cooling / Heating (Hi) | dB(A) | 47 / 48 | 48 / 50 | 50 / 52 |
| Sound power Level | Cooling / Heating (Hi) | dB | 63 / 64 | 64 / 66 | 66 / 68 |
| Dimensions ⁴⁾ | H x W x D | mm | 540 x 780 x 289 | 540 x 780 x 289 | 540 x 780 x 289 |
| Net weight | | Kg | 22 | 26.5 | 31.5 |
| Piping connections | Liquid pipe | inch (mm) | 1/4" (6.35) | 1/4" (6.35) | 1/4" (6.35) |
| | Gas pipe | inch (mm) | 3/8" (9.52) | 3/8" (9.52) | 1/2" (12.70) |
| Refrigerant Loading | R410A | Kg | 0.78 | 0.880 | 1.15 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 5 | 5 | 5 |
| Piping length | Min / Max | m | 3 / 15 | 3 / 15 | 3 / 15 |
| Piping length without refrigerant increase | Max | m | 7.5 | 7.5 | 7.5 |
| Additional gas | | g/m | 20 | 20 | 20 |
| Operating range ³⁾ | Cooling Min / Max | °C | +5 / +43 | +5 / +43 | +5 / +43 |
| | Heating Min / Max | °C | -5 / +24 | -5 / +24 | -5 / +24 |

Specifications subject to change without notice



INCLUDED WITH
THE INDOOR UNIT

TECHNICAL FOCUS

- QUIETER INDOOR UNITS
- HIGH ENERGY SAVINGS
- 12-HR REMOTE CONTROL TIMER
- LONG CONNECTION DISTANCE

KIT-YE9-MKX // KIT-YE12-MKX // KIT-YE18-MKX

HEALTHY AIR

- Odour-removing function
- One-Touch Air Filter

ENERGY, EFFICIENCY AND ECOLOGY

- Inverter system
- R410A refrigerant gas

COMFORT

- Super Quiet mode. Only 22 dB(A)
- Powerful mode

EASE OF USE

- 12-hr timer
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE

- Maximum connection distance 15 m
- Removable, washable panel

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation)

- 1) EER classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.



CU-YE9MKX
CU-YE12MKX CU-YE18MKX



WALL MOUNTED TYPE // INVERTER+ // -15°C

Complete line-up of air purifying systems with high efficiency even at -15°C! This wall-mounted air conditioner is especially designed for professional applications such as computer rooms where cooling inside the room is necessary even when the outside temperature is low. Furthermore this air conditioner has an automatic changeover system, in order to maintain the inside temperature even when sharp outside temperature changes occur.

ion generator
ion

prevention allergy filter
ANTI BACTERIAL FILTER

silent air 23 dB
SUPER QUIET

down to -15°C in heating mode
OUTDOOR TEMPERATURE

down to -15°C in cooling mode
OUTDOOR TEMPERATURE

FOR E9

| KIT | | | KIT-E9-HKEA | KIT-E12-HKEA | KIT-E15-HKEA | KIT-E18-HKEA | KIT-E21-HKEA |
|---|--------------------------|-------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Indoor | | | CS-E9HKEA | CS-E12HKEA | CS-E15HKEA | CS-E18HKEA | CS-E21HKEA |
| Outdoor | | | CU-E9HKEA | CU-E12HKEA | CU-E15HKEA | CU-E18HKEA | CU-E21HKEA |
| Cooling capacity | Nominal (Min - Max) | kW | 2.60 (0.60-3.00) | 3.50 (0.60-4.00) | 4.40 (0.90-5.00) | 5.30 (0.90-6.00) | 6.30 (0.90-7.10) |
| | Nominal (Min - Max) | kCal/h | 2,240 (690-2,580) | 3,010 (690-3,440) | 3,780 (690-4,300) | 4,560 (770-5,160) | 5,420 (770-6,110) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.41 (5.00-4.00) ◀A | 3.80 (5.00-3.39) ◀A | 3.21 (4.19-3.13) ◀A | 3.21 (4.19-2.93) ◀A | 2.85 (4.19-2.8) ◀C |
| Power input Cooling | Nominal (Min - Max) | kW | 0.59 (0.12-0.75) | 0.92 (0.12-1.18) | 1.37 (0.215-1.6) | 1.65 (0.215-2.05) | 2.21 (0.215-2.54) |
| Heating capacity | Nominal (Min - Max) | kW | 3.60 (0.60-5.40) | 4.80 (0.60-6.60) | 5.50 (0.90-7.10) | 6.60 (0.90-8.00) | 7.20 (0.90-8.50) |
| | Nominal (Min - Max) | kCal/h | 3,100 (520-4,640) | 4,130 (520-5,680) | 4,730 (770-6,110) | 5,680 (770-6,880) | 6,190 (770-7,310) |
| Heating capacity at -7°C | Nominal | kW | 3.13 | 3.86 | 3.98 | 4.98 | 5.24 |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.26 (5.22-3.97) ◀A | 3.81 (5.22-3.57) ◀A | 3.50 (3.67-3.16) ◀B | 3.69 (3.67-3.02) ◀A | 3.43 (3.67-3.09) ◀B |
| Power input Heating | Nominal (Min - Max) | kW | 0.845 (0.115-1.36) | 1.26 (0.115-1.85) | 1.57 (0.245-2.25) | 1.79 (0.245-2.65) | 2.10 (0.245-2.75) |
| Annual Energy Consumption ²⁾ | | kWh | 295 | 460 | 685 | 825 | 1,105 |
| INDOOR UNIT | | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 2.5 | 4 x 2.5 |
| Current (Nominal) | Cooling / Heating | A | 2.9 / 4.0 | 4.3 / 5.8 | 6.3 / 7.1 | 7.5 / 8.1 | 9.9 / 9.3 |
| Max. current | | A | 6.4 | 8.4 | 10.2 | 11.9 | 12.6 |
| Air Volume | Cooling / Heating | m ³ /h | 576 / 630 | 642 / 672 | 660 / 708 | 912 / 1,002 | 972 / 1,038 |
| Moisture removal volume | | l/h | 1.6 | 2.0 | 2.4 | 2.9 | 3.5 |
| Sound pressure Level ³⁾ | Cooling (Hi / Lo / S-Lo) | dB(A) | 39 / 26 / 23 | 42 / 29 / 26 | 43 / 32 / 29 | 44 / 37 / 34 | 45 / 37 / 34 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 40 / 27 / 24 | 42 / 33 / 30 | 43 / 35 / 32 | 44 / 37 / 34 | 45 / 37 / 34 |
| Sound power Level | Cooling (Hi) | dB | 50 | 53 | 54 | 57 | 58 |
| | Heating (Hi) | dB | 51 | 53 | 54 | 57 | 58 |
| Dimensions | H x W x D | mm | 280 x 799 x 183 | 280 x 799 x 183 | 280 x 799 x 183 | 275 x 998 x 230 | 275 x 998 x 230 |
| Net weight | | Kg | 9 | 9 | 9 | 11 | 11 |
| Air purifier filter | | | Alleru-buster filter + Ion | Alleru-buster filter + Ion | Alleru-buster filter + Ion | Alleru-buster filter + Ion | Alleru-buster filter + Ion |
| OUTDOOR UNIT | | | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 1,788 / 1,788 | 1,860 / 1,860 | 2,910 / 2,808 | 2,400 / 2,400 | 2,568 / 2,490 |
| Sound pressure Level ³⁾ | Cooling (Hi) | dB(A) | 46 | 48 | 46 | 47 | 48 |
| | Heating (Hi) | dB(A) | 47 | 50 | 46 | 47 | 49 |
| Sound power Level | Cooling (Hi) | dB | 59 | 61 | 59 | 60 | 61 |
| | Heating (Hi) | dB | 60 | 63 | 59 | 60 | 62 |
| Dimensions ⁴⁾ | H x W x D | mm | 540 x 780 x 289 | 540 x 780 x 289 | 750 x 875 x 345 | 750 x 875 x 345 | 750 x 875 x 345 |
| Net weight | | Kg | 35 | 35 | 48 | 49 | 51 |
| 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) |
| | Gas pipe | inch (mm) | 3/8" (9.52) | 1/2" (12.70) | 1/2" (12.70) | 1/2" (12.70) | 1/2" (12.70) |
| Refrigerant Loading | R410A | Kg | 0.930 | 0.970 | 1.060 | 1.18 | 1.29 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 5 | 5 | 5 | 15 | 15 |
| Piping length | Min / Max | m | 3-15 | 3-15 | 3-15 | 3-20 | 3-20 |
| Piping length without refrigerant increase | Max | m | 7.5 | 7.5 | 7.5 | 10 | 10 |
| Additional gas | | g/m | 20 | 20 | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | -15 / +43 | -15 / +43 | -15 / +43 | -15 / +43 | -15 / +43 |
| | Heating Min / Max | °C | -10 / +24 | -10 / +24 | -15 / +24 | -15 / +24 | -15 / +24 |



CS-E9HKEA // CS-E12HKEA // CS-E15HKEA

INCLUDED WITH
THE INDOOR UNIT

TECHNICAL FOCUS

- HIGHLY EFFICIENT HEAT PUMP AND COOLING EVEN AT -15°C
- SUPERSONIC AIR PURIFYING SYSTEM WITH ANTI BACTERIAL FILTER
- SUPER QUIET! ONLY 23DB (ONLY FOR E9)
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE
- MAXIMUM CONNECTION DISTANCE 15 M (E9, 12, 15), 20M (E18, 21)



CS-E18HKEA // CS-E21HKEA

KIT-E9-HKEA // KIT-E12-HKEA // KIT-E15-HKEA // KIT-E18-HKEA // KIT-E21-HKEA

HEALTHY AIR

- Refreshing ion generator boosts well-being
- Anti Bacterial Filter
- Soft dry operation mode

ENERGY EFFICIENCY AND ECOLOGY

- Maximum efficiency Inverter system
- R410A refrigerant gas

COMFORT

- Operates in cold/hot mode in temperatures as low as -15°C (E9, 12: -10 °C)
- Automatically changes from cold to hot depending on inside temperature
- Super Quiet mode
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical and horizontal airflow control
- Hot start mode
- Automatic restart

EASE OF USE

- 24-hr timer
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- Maximum connection distance 15 m (E9, 12, 15), 20m (E18, 21)
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function
- Soft dry operation mode

CU-E9HKEA
CU-E12HKEACU-E15HKEA
CU-E18HKEA
CU-E21HKEA

| GLOBAL REMARKS | Rating conditions | |
|-------------------------|------------------------|-------------------|
| | Cooling | Heating |
| | Inside air temperature | 27°C DB / 19°C WB |
| Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with NKE units.

- 1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.

prevention
allergy
filter

ANTI BACTERIAL
FILTER

БІГЛЕВ
АІЛІ ВАСЛЕВІЛГ

WALL-MOUNTED TYPE // STANDARD HEAT PUMP

Powerful heat pump non-Inverter air conditioning. A class efficiency for high savings.

| KIT | | | KIT-PW9-GKX | KIT-PW12-GKX | KIT-PW18-GKX | KIT-PW24-JKE |
|---|--------------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Indoor | | | CS-PW9GKX | CS-PW12GKX | CS-PW18GKX | CS-PW24JKE |
| Outdoor | | | CU-PW9GKX | CU-PW12GKX | CU-PW18GKX | CU-PW24JKE |
| Cooling capacity | Nominal | kW | 2.65 | 3.4 | 5.10 | 7.03 |
| | | kCal/h | 2,280 | 2,920 | 4,386 | 6,046 |
| EER ¹⁾ | Nominal | Energy Saving | 3.21 A | 3.22 A | 2.91 C | 2.53 E |
| | | kW | 0.825 | 1.055 | 1.75 | 2.78 |
| Heating capacity | Nominal | kW | 2.85 | 3.8 | 5.30 | 7.50 |
| | | kCal/h | 2,450 | 3,260 | 4,560 | 6,450 |
| COP ¹⁾ | Nominal | Energy Saving | 3.63 A | 3.61 A | 3.35 C | 2.87 D |
| | | kW | 0.785 | 1.05 | 1.58 | 2.61 |
| Annual Energy Consumption ²⁾ | | kWh | 413 | 528 | 875 | 1,390 |
| INDOOR UNIT | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 2.5 |
| Current Cooling | Nominal | A | 3.9 | 5.0 | 7.7 | 13.1 |
| | | A | 3.7 | 4.9 | 6.9 | 12.5 |
| Air Volume | Cooling / Heating | m ³ /h | 618 / 618 | 540 / 552 | 972 / 984 | 1,044 / 1,092 |
| Moisture removal volume | | l/h | 1.6 | 1.9 | 2.9 | 4.0 |
| Sound pressure level ³⁾ | Cooling (Hi / Lo / S-Lo) | dB(A) | 39 / 31 | 39 / 32 | 45 / 38 | 47 / 41 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 29 / 38 | 39 / 31 | 43 / 38 | 46 / 41 |
| Sound power level | Cooling (Hi) | dB | 50 | 50 | 58 | 59 |
| | Heating (Hi) | dB | 50 | 50 | 56 | 57 |
| Dimensions | | H x W x D | 250 x 770 x 205 | 280 x 799 x 183 | 275 x 998 x 230 | 275 x 998 x 230 |
| Net weight | | Kg | 7.5 | 9 | 11 | 11 |
| Air purifier filter | Optional | | CZ-SA14P Alleru-buster filter | CZ-SA14P Alleru-buster filter | CZ-SA14P Alleru-buster filter | CZ-SA14P Alleru-buster filter |
| OUTDOOR UNIT | | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 630 | 672 | 1,740 | 3,102 |
| Sound pressure level ³⁾ | Cooling (Hi) | dB(A) | 48 | 49 | 55 | 54 |
| | Heating (Hi) | dB(A) | 49 | 50 | 55 | 55 |
| Sound power level | Cooling (Hi) | dB | 61 | 62 | 70 | 69 |
| | Heating (Hi) | dB | 62 | 63 | 70 | 70 |
| Dimensions ⁴⁾ | | H x W x D | 530 x 650 x 230 | 540 x 780 x 289 | 540 x 780 x 289 | 750 x 875 x 345 |
| Net weight | | Kg | 27 | 30 | 44 | 63 |
| Piping connections | Liquid pipe | inch (mm) | 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) | 1/2" (12.70) | 5/8" (15.88) |
| Refrigerant Loading | | R410A | Kg | 0.80 | 0.98 | 1.33 |
| Elevation difference (in/out) ⁵⁾ | | Max | m | 5 | 20 | 20 |
| Piping length | | Min / Max | m | 3 / 10 | 3 / 15 | 3 / 25 |
| Piping length without refrigerant increase | | Max | m | 7.5 | 7.5 | 7.5 |
| Additional gas | | g/m | 20 | 20 | 20 | 30 |
| Operating range | Cooling Min / Max | °C | 21 / 43 | 21 / 43 | 16 / 43 | 16 / 43 |
| | Heating Min / Max | °C | -5 / 24 | -5 / 24 | -5 / 24 | -5 / 24 |

Specifications subject to change without notice



CS-PW9GKX // CS-PW12JKE



FOR PW9 AND
PW12. INCLUDED
WITH THE
INDOOR UNIT



FOR PW18 AND
PW24. INCLUDED
WITH THE INDOOR
UNIT

TECHNICAL FOCUS

- QUIET MODE FOR IMPROVED COMFORT
- ODOUR REMOVING FUNCTION
- EASY TO INSTALL
- R410A REFRIGERANT GAS
- MANUAL AND AUTOMATIC AIRFLOW CONTROL



CS-PW18GKX // CS-PW24JKE

KIT-PW9-GKX // KIT-PW12-GKX // KIT-PW18-GKX // KIT-PW24-JKE

HEALTHY AIR

- Soft dry operation mode
- Odour-removing function
- CZ-SA14P Anti Bacterial Filter (optional)

ENERGY EFFICIENCY AND ECOLOGY

- R410A refrigerant gas

COMFORT

- Manual horizontal airflow control
- Automatic vertical airflow control
- Hot start mode
- Automatic restart

EASE OF USE

- 12-hr timer (For PW9 and PW12)
- 24-hr timer (For PW18 and PW24)
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- Maintenance access through the top panel of the outdoor unit



CU-PW9GKX



CU-PW12GKX



CU-PW18GKX



CU-PW24JKE

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|------------------------|-------------------|
| | | Inside air temperature | 27°C DB / 19°C WB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).

- 1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.

prevention
allergy
filter

ANTI BACTERIAL
FILTER

БІГЛЕВ
АИЛІ ВАСІЕРНІЛ

OPTIONAL

WALL MOUNTED UW TYPE // STANDARD

A class Panasonic On/Off line up have all you need to enjoy a comfortable temperature at home.

| KIT | | | KIT-UW9-GKE | KIT-UW12-GKE |
|---|-------------------|-------------------|---------------------|--------------------|
| Indoor | | | CS-UW9GKE | CS-UW12GKE |
| Outdoor | | | CU-UW9GKE | CU-UW12GKE |
| Cooling capacity | Nominal | kW | 2.50 | 3.30 |
| | | kCal/h | 2,150 | 2,840 |
| EER ¹⁾ | Nominal | Energy Saving | 3.08 ◀ B | 3.05 ◀ B |
| Power input Cooling | Nominal | kW | 0.81 | 1.08 |
| Heating capacity | Nominal | kW | 2.70 | 3.70 |
| | | kCal/h | 2,320 | 3,180 |
| COP ¹⁾ | Nominal | Energy Saving | 3.46 ◀ B | 3.49 ◀ B |
| Power input Heating | Nominal | kW | 0.78 | 1.06 |
| Annual Energy Consumption ²⁾ | | kW | 405 | 540 |
| INDOOR UNIT | | | | |
| Power source | | V | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 |
| Current Cooling | Nominal | A | 3.8 | 5.0 |
| Current Heating | Nominal | A | 3.7 | 4.8 |
| Air Volume | Cooling / Heating | m ³ /h | 10.3/10.3 | 9.0/9.2 |
| Moisture removal volume | | l/h | 1.4 | 1.9 |
| Sound pressure level ³⁾ | Cooling (Hi / Lo) | dB(A) | 39/31 | 39/32 |
| | Heating (Hi / Lo) | dB(A) | 39/31 | 39/31 |
| Sound power level | Cooling (Hi) | dB | 50 | 50 |
| | Heating (Hi) | dB | 50 | 50 |
| Dimensions | H x W x D | mm | 250 x 770 x 205 | 280 x 799 x 183 |
| Net weight | | Kg | 7.5 | 9 |
| Air purifier filter | | | Optional | Optional |
| OUTDOOR UNIT | | | | |
| Air Volume | Lo / Med / Hi | m ³ /h | 7.87 / 9.13 / 10.30 | 7.16 / 7.96 / 9.20 |
| Sound pressure level ³⁾ | Cooling (Hi) | dB(A) | 48 | 49 |
| | Heating (Hi) | dB(A) | 49 | 50 |
| Sound power level | Cooling (Hi) | dB | 61 | 62 |
| | Heating (Hi) | dB | 62 | 63 |
| Dimensions ⁴⁾ | H x W x D | mm | 530 x 650 x 230 | 540 x 780 x 289 |
| Net weight | | Kg | 27 | 30 |
| Piping connections | Liquid pipe | inch (mm) | 1/4" (6.35) | 1/4" (6.35) |
| | Gas pipe | inch (mm) | 3/8" (9.52) | 3/8" (9.52) |
| Refrigerant Loading | R410A | Kg | 0.80 | 0.98 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 5 | 5 |
| Piping length | Min / Max | m | 3-10 | 3-10 |
| Piping length without refrigerant increase | Max | m | 7.5 | 7.5 |
| Additional gas | | g/m | 20 | 20 |
| Operating range | Cooling Min / Max | °C | 21 / 43 | 21 / 43 |
| | Heating Min / Max | °C | -5 / 24 | -5 / 24 |

Specifications subject to change without notice



TECHNICAL FOCUS

- EASY TO INSTALL
- R410A REFRIGERANT GAS
- MANUAL AIRFLOW CONTROL

KIT-UW9-GKE // KIT-UW12-GKE

HEALTHY AIR

- SUPER alleru-buster filter (CZ-SA14P optional)
- Anti-Mould, One-Touch Air Filter
- Odour-Removing Function

ENERGY EFFICIENCY AND ECOLOGY

- R410A refrigerant gas

COMFORT

- Airflow Direction Control (Up & Down)
- Manual Horizontal Airflow Direction Control
- Auto Changeover
- Hot Start Control

EASE OF USE

- 12-Hour ON&OFF Timer
- LCD Wireless Remote Controller

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- Maintenance access through the top panel of the outdoor unit

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation)

- 1) EER classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.



CU-UW9GKE



CU-UW12GKE



FLOOR CONSOLE TYPE // INVERTER+

Console for discreet integration on walls, and for high performances, specifically in heat mode even when the outside temperature is as low as -15°C.

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



| KIT | | | KIT-E9-GFEW-1 | KIT-E12-GFEW-1 | KIT-E18-GFEW-1 |
|---|--------------------------|-------------------|-----------------------|-----------------------|-----------------------|
| Indoor | | | CS-E9GFEW | CS-E12GFEW | CS-E18GFEW |
| Outdoor | | | CU-E9GFE-1 | CU-E12GFE-1 | CU-E18GFE-1 |
| Cooling capacity | Nominal (Min - Max) | kW | 2.50 (0.80 - 3.00) | 3.50 (0.80 - 3.80) | 5.00 (0.90 - 5.60) |
| | | kCal/h | 2,150 (690 - 2,580) | 3,010 (690 - 3,270) | 3,780 (770 - 4,300) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.39 (4.57 - 3.85) ◀A | 3.63 (4.32 - 3.33) ◀A | 3.23 (4.57 - 2.93) ◀A |
| Power input Cooling | Nominal (Min - Max) | kW | 0.57 (0.17 - 0.78) | 0.97 (0.18 - 1.14) | 1.55 (0.25 - 1.91) |
| Heating capacity | Nominal (Min - Max) | kW | 3.60 (0.80 - 5.00) | 4.80 (0.80 - 6.10) | 5.80 (0.90 - 7.10) |
| | | kCal/h | 3,100 (690 - 4,300) | 4,130 (690 - 5,250) | 4,730 (770 - 6,110) |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.16 (4.85 - 3.68) ◀A | 3.64 (4.57 - 3.45) ◀A | 3.63 (3.46 - 3.02) ◀A |
| Power input Heating | Nominal (Min - Max) | kW | 0.865 (0.16 - 1.36) | 1.320 (0.17 - 1.77) | 1.600 (0.26 - 2.35) |
| Annual Energy Consumption ²⁾ | | kWh | 285 | 483 | 775 |
| INDOOR UNIT | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 558 / 576 | 570 / 600 | 660 / 780 |
| Moisture removal volume | | l/h | 1.4 | 2.0 | 2.8 |
| Sound pressure level ³⁾ | Cooling (Hi / Lo / S-Lo) | dB(A) | 38 / 27 / 23 | 39 / 28 / 24 | 44 / 36 / 32 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 38 / 27 / 23 | 39 / 27 / 23 | 44 / 36 / 32 |
| Sound power level | Cooling (Hi) | dB | 54 | 55 | 60 |
| | Heating (Hi) | dB | 54 | 55 | 61 |
| Dimensions | H x W x D | mm | 600 x 700 x 210 | 600 x 700 x 210 | 600 x 700 x 210 |
| Net weight | | Kg | 14 | 14 | 14 |
| OUTDOOR UNIT | | | | | |
| Power source | | V | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Current Cooling | | A | 2.7 | 4.4 | 7.0 |
| Current Heating | | A | 4.05 | 6.00 | 7.1 |
| Air Volume | Cooling / Heating | m ³ /h | 1,788 / 1,788 | 1,860 / 1,860 | 2,400 / 2,400 |
| Sound pressure level ³⁾ | Cooling (Hi) | dB(A) | 46 | 48 | 47 |
| | Heating (Hi) | dB(A) | 47 | 50 | 48 |
| Sound power level | Cooling (Hi) | dB | 59 | 61 | 60 |
| | Heating (Hi) | dB | 60 | 63 | 61 |
| Dimensions ⁴⁾ | H x W x D | mm | 540 x 780 x 289 | 540 x 780 x 289 | 750 x 875 x 345 |
| Net weight | | Kg | 34 | 34 | 49 |
| Piping connections | Liquid pipe | inch (mm) | 1/4" (6.35) | 1/4" (6.35) | 1/4" (6.35) |
| | Gas pipe | inch (mm) | 3/8" (9.52) | 3/8" (9.52) | 1/2" (12.70) |
| Refrigerant Loading | R410A | Kg | 0.965 | 0.980 | 1.060 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 5 | 5 | 15 |
| Piping length | Min / Max | m | 3 / 15 | 3 / 15 | 3 / 20 |
| Piping length without refrigerant increase | Max | m | 7.5 | 7.5 | 10 |
| Additional gas | | g/m | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | 16 / 43 | 16 / 43 | 16 / 43 |
| | Heating Min / Max | °C | -15 / 24 | -15 / 24 | -15 / 24 |



INCLUDED WITH
THE INDOOR UNIT



TECHNICAL FOCUS

- MORE EFFICIENT THAN EVER FOR LESS CONSUMPTION AND HIGHER SAVINGS
- HEATING MODE DOWN TO -15°C WITH HIGH EFFICIENCY
- DOUBLE AIRFLOW FOR BETTER EFFICIENCY
- POWERFUL MODE FOR QUICK TEMPERATURE SETTING
- R410A REFRIGERANT GAS

KIT-E9-GFEW-1 // KIT-E12-GFEW-1 // KIT-E18-GFEW-1

HEALTHY AIR

- Soft dry operation mode
- Odour-removing function

ENERGY EFFICIENCY AND ECOLOGY

- Maximum efficiency Inverter system
- R410A refrigerant gas

COMFORT

- Super Quiet mode
- Powerful mode
- Automatic vertical airflow control
- Hot start mode
- Automatic restart

EASE OF USE

- 24-hr timer
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- Maximum connection distance 15 m (E9, 12), 20m (E18)
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with NKE units.

- 1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1 m height in front of the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.



CU-E9GFE-1
CU-E12GFE-1



CU-E18GFE-1



SINGLE SPLIT FLOOR OR CEILING TYPE // INVERTER

Versatile Floor or Ceiling air conditioning Inverter type. Ideal for restaurants or offices where powerful and efficient air-conditioning is needed.



| KIT | | | KIT-E15-DTE | KIT-E18-DTE | KIT-E21-DTE |
|---|--------------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|
| Indoor | | | CS-E15DTEW | CS-E18DTEW | CS-E21DTEW |
| Outdoor | | | CU-E15DBE | CU-E18DBE | CU-E21DBE |
| Cooling capacity | Nominal (Min - Max) | kW | 4.15 (0.90 - 4.55) | 5.00 (0.90 - 5.40) | 5.80 (0.90 - 6.60) |
| | | kCal/h | 3,570 (770 - 3,910) | 4,300 (770 - 4,640) | 4,990 (770 - 5,680) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.22 A | 3.01 B | 3.01 B |
| Power input Cooling | Nominal (Min - Max) | kW | 1.29 (0.255 - 1.550) | 1.66 (0.255 - 1.890) | 1.93 (0.255 - 2.240) |
| Heating capacity | Nominal (Min - Max) | kW | 5.17 (0.90 - 6.30) | 6.10 (0.90 - 7.60) | 6.80 (0.90 - 8.10) |
| | | kCal/h | 4,450 (770 - 5,420) | 5,250 (770 - 6,540) | 5,850 (770 - 6,970) |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.34 C | 3.35 C | 3.42 B |
| Power input Heating | Nominal (Min - Max) | kW | 1.550 (0.260 - 2.050) | 1.820 (0.260 - 2.380) | 1.990 (0.260 - 2.650) |
| Annual Energy Consumption ²⁾ | | kWh | 645 | 830 | 965 |
| INDOOR UNIT | | | | | |
| Air Volume | Cooling / Heating | m ³ /h | 720 / 732 | 750 / 762 | 786 / 792 |
| Moisture removal volume | | l/h | 2.4 | 2.8 | 3.2 |
| Sound pressure level ³⁾ | Cooling (Hi / Lo / S-Lo) | dB(A) | 45 / 37 / 34 | 46 / 39 / 36 | 47 / 41 / 38 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 45 / 33 / 30 | 47 / 35 / 32 | 47 / 37 / 34 |
| Sound power level | Cooling (Hi) | dB | 58 | 59 | 60 |
| | Heating (Hi) | dB | 58 | 60 | 60 |
| Dimensions | H x W x D | mm | 540 x 1,028 x 200 | 540 x 1,028 x 200 | 540 x 1,028 x 200 |
| Net weight | | Kg | 17 | 18 | 20 |
| Air purifier filter | Optional | | CZ-SA14P Alleru-buster filter | CZ-SA14P Alleru-buster filter | CZ-SA14P Alleru-buster filter |
| OUTDOOR UNIT | | | | | |
| Power source | | V | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 2.5 | 4 x 2.5 |
| Current Cooling | Nominal | A | 6.0 | 7.5 | 8.7 |
| Current Heating | Nominal | A | 7.1 | 8.2 | 9.0 |
| Air Volume | Cooling / Heating | m ³ /h | 2,910 / 2,910 | 2,400 / 2,400 | 2,568 / 2,490 |
| Sound pressure level ³⁾ | Cooling (Hi) | dB(A) | 46 | 47 | 48 |
| | Heating (Hi) | dB(A) | 47 | 48 | 49 |
| Sound power level | Cooling (Hi) | dB | 59 | 60 | 61 |
| | Heating (Hi) | dB | 60 | 61 | 62 |
| Dimensions ⁴⁾ | H x W x D | mm | 750 x 875 x 345 | 750 x 875 x 345 | 750 x 875 x 345 |
| Net weight | | Kg | 48 | 48 | 49 |
| Piping connections | Liquid pipe | inch (mm) | 1/4" (6.35) | 1/4" (6.35) | 1/4" (6.35) |
| | Gas pipe | inch (mm) | 1/2" (12.70) | 1/2" (12.70) | 1/2" (12.70) |
| Refrigerant Loading | R410A | Kg | 1.23 | 1.06 | 1.15 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 15 | 15 | 15 |
| Piping length | Min / Max | m | 3 / 20 | 3 / 20 | 3 / 20 |
| Piping length without refrigerant increase | Max | m | 10 | 10 | 10 |
| Additional gas | | g/m | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | 16 / 43 | 16 / 43 | 16 / 43 |
| | Heating Min / Max | °C | -5 / 24 | -5 / 24 | -5 / 24 |

Specifications subject to change without notice



INCLUDED WITH
THE INDOOR UNIT

TECHNICAL FOCUS

- A WIDTH OF ONLY 20CM FOR EASY INSTALLATION EVERYWHERE
- 2 INSTALLATION POSITIONS POSSIBLE: WALL OR CEILING MOUNTED
- POWERFUL LINE-UP, UP TO 5.8 KW!
- POWERFUL MODE FOR QUICK TEMPERATURE SETTING
- R410A REFRIGERANT GAS
- 20 M CONNECTION DISTANCE, 15 M HEIGHT DIFFERENCE ON THE WHOLE LINE-UP



KIT-E15-DTE // KIT-E18-DTE // KIT-E21-DTE

HEALTHY AIR

- Soft dry operation mode
- Odour-removing function
- CZ-SA14P Anti Bacterial Filter (optional)
- Anti-mould filter

ENERGY EFFICIENCY AND ECOLOGY

- Inverter system
- R410A refrigerant gas

COMFORT

- Super Quiet mode
- Powerful mode
- Automatic vertical airflow control
- Hot start mode
- Automatic restart

EASE OF USE

- 24-hr timer
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE

- Maximum connection distance 20m
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|-------------------------|------------------------|-------------------|---------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB | |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with NKE units.

- 1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body floor-mounted: 1 m in front of the unit at 1 m height from the floor; ceiling-mounted: 1 m in front and 80 cm below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.



CU-E15DBE CU-E21DBE
CU-E18DBE



2x1 WALL MOUNTED MRE TYPE // STANDARD INVERTER

MRE MULTI INVERTER MODELS ARE POWERFUL AND EFFICIENT AND ARE ALWAYS THERE WHEN YOU NEED THEM. Furthermore, with the Anti Bacterial Filter, you can always enjoy the best quality air, without viruses, moulds and bacteria.



TECHNICAL FOCUS

- LARGE COMBINATIONS OF 2x1
- HIGH ENERGY SAVINGS
- LARGE ELEVATION DISTANCE (10 m)
- LARGE PIPING LENGTH (30 m)

| KIT | | | KIT-2MRE77-MBE | KIT-2MRE79-MBE | KIT-2MRE712-MBE | KIT-2MRE912-MBE | KIT-2MRE77-MKE | KIT-2MRE79-MKE |
|---|---------------------------|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Indoor | | | CS-MRE7MKE | CS-MRE7MKE | CS-MRE7MKE | CS-MRE9MKE | CS-MRE7MKE | CS-MRE7MKE |
| | | | CS-MRE7MKE | CS-MRE9MKE | CS-MRE12MKE | CS-MRE12MKE | CS-MRE7MKE | CS-MRE9MKE |
| Outdoor | | | CU-2E15MBE | CU-2E15MBE | CU-2E15MBE | CU-2E15MBE | CU-2E18MBE | CU-2E18MBE |
| Cooling capacity | Nominal (Min - Max) | kW | 4.00 (1.50 - 4.60) | 4.40 (1.50 - 4.80) | 4.40 (1.50 - 4.80) | 4.40 (1.50 - 4.80) | 4.40 (1.50 - 4.60) | 4.50 (1.50 - 4.80) |
| | Nominal (Min - Max) | kCal/h | 3,560 (1,290 - 4,094) | 3,916 (1,290 - 4,272) | 3,916 (1,290 - 4,272) | 3,916 (1,290 - 4,272) | 3,916 (1,290 - 4,094) | 3,870 (1,290 - 4,272) |
| Cooling capacity room A | Nominal | kW | 2.00 | 1.95 | 1.70 | 2.20 | 2.00 | 2.00 |
| Cooling capacity room B | Nominal | kW | 2.00 | 2.45 | 2.70 | 2.20 | 2.00 | 2.50 |
| EER ¹⁾ | Nominal (Min - Max) | | 3.42 (5.55 - 3.43) A | 3.38 (5.55- 3.15) A | 3.38 (5.55- 3.15) A | 3.38 (5.55- 3.15) A | 3.45 (5.55 - 3.43) A | 3.44 (5.55- 3.18) A |
| Power input Cooling | Nominal (Min - Max) | kW | 1.17 (0.27 - 1.34) | 1.30 (0.27 - 1.52) | 1.30 (0.27 - 1.52) | 1.30 (0.27 - 1.52) | 1.16 (0.27 - 1.34) | 1.40 (0.27 - 1.51) |
| Heating capacity | Nominal (Min - Max) | kW | 5.80 (1.10 - 6.30) | 5.80 (1.10 - 6.30) | 5.80 (1.10 - 6.30) | 5.80 (1.10 - 6.30) | 5.20 (1.10 - 6.30) | 5.20 (1.10 - 6.30) |
| | Nominal (Min - Max) | kCal/h | 5,162 (950 - 5,607) | 5,162 (950 - 5,607) | 5,162 (950 - 5,607) | 5,162 (950 - 5,607) | 4,628 (979 - 5,607) | 4,628 (979 - 5,607) |
| Heating capacity room A | Nominal | kW | 2.40 | 2.15 | 1.85 | 2.40 | 2.60 | 2.60 |
| Heating capacity room B | Nominal | kW | 2.40 | 2.65 | 2.95 | 2.40 | 2.60 | 2.90 |
| COP ¹⁾ | Nominal (Min - Max) | | 4.00 (4.58 - 3.91) A | 4.00 (4.58 - 3.91) A | 4.00 (4.58 - 3.91) A | 4.00 (4.58 - 3.91) A | 4.00 (4.58 - 3.91) A | 4.00 (4.58 - 3.91) A |
| Power input Heating | Nominal (Min - Max) | kW | 1.20 (0.24 - 1.61) | 1.20 (0.24 - 1.61) | 1.20 (0.24 - 1.61) | 1.20 (0.24 - 1.61) | 1.30 (0.24 - 1.61) | 1.30 (0.24 - 1.61) |
| Annual Energy Consumption ²⁾ | | kWh | 585 | 650 | 650 | 650 | 580 | 655 |
| INDOOR UNIT | | | | | | | | |
| Air Volume | Cooling | m ³ /h | 606 | 606 | 606 (E7) / 654 (E12) | 606 (E9) / 654 (E12) | 606 | 606 |
| Moisture removal volume | Cooling | l/h | 1.3 (E7) | 1.3 (E7) / 1.5 (E9) | 1.1 (E7) / 1.6 (E12) | 1.4 (E9) / 1.4 (E12) | 1.3 (E7) | 1.3 (E7) / 1.5 (E9) |
| Sound pressure Level ³⁾ | Cooling & Heating (Lo) | dB(A) | 29 | 29 | 29 (E7) / 32 (E12) | 29 (E9) / 32 (E12) | 29 | 29 |
| Sound power Level | Cooling & Heating (Hi) | dB | 56 | 56 | 56 (E7) / 60 (E12) | 56 (E9) / 60 (E12) | 56 | 56 |
| 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 |
| Net weight | | Kg | 9 | 9 | 9 | 9 | 9 | 9 |
| Air purifier filter | | | Alleru-buster filter | Alleru-buster filter | Alleru-buster filter | Alleru-buster filter | Alleru-buster filter | Alleru-buster filter |
| OUTDOOR UNIT | | | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Current | Cooling / Heating Nominal | A | 5.45 / 5.35 | 6.10 / 5.35 | 6.10 / 5.35 | 6.10 / 5.35 | 6.10 / 5.80 | 6.10 / 5.80 |
| Air Volume | | m ³ /h | 1,998 | 1,998 | 1,998 | 1,998 | 1,998 | 1,998 |
| Sound pressure Level ³⁾ | Cooling / Heating (Hi) | dB(A) | 47 / 49 | 47 / 49 | 47 / 49 | 47 / 49 | 47 / 49 | 47 / 49 |
| Sound power Level | Cooling / Heating (Hi) | dB | 62 / 64 | 62 / 64 | 62 / 64 | 62 / 64 | 62 / 64 | 62 / 64 |
| Dimensions ⁴⁾ | H x W x D | mm | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 |
| Net weight | | Kg | 38 | 38 | 38 | 38 | 38 | 38 |
| 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) |
| | 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) |
| Refrigerant Loading | R410A | Kg | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 10 | 10 | 10 | 10 | 10 | 10 |
| Piping length (total) | Min / Max | m | 30 | 30 | 30 | 30 | 30 | 30 |
| Piping length (one unit) | Min / Max | m | 3 / 20 | 3 / 20 | 3 / 20 | 3 / 20 | 3 / 20 | 3 / 20 |
| Piping length without refrigerant increase | Max | m | 20 | 20 | 20 | 20 | 20 | 20 |
| Additional gas | | g/m | 20 | 20 | 20 | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | 16 / 43 | 16 / 43 | 16 / 43 | 16 / 43 | 16 / 43 | 16 / 43 |
| | Heating Min / Max | °C | -10 / 24 | -10 / 24 | -10 / 24 | -10 / 24 | -10 / 24 | -10 / 24 |



INCLUDED WITH
THE INDOOR UNIT

| KIT-2MRE712-MKE | KIT-2MRE99-MKE | KIT-2MRE912-MKE | KIT-2MRE1212-MKE |
|-----------------------|-----------------------|-----------------------|-----------------------|
| CS-MRE7MKE | CS-MRE9MKE | CS-MRE9MKE | CS-MRE12MKE |
| CS-MRE12MKE | CS-MRE9MKE | CS-MRE12MKE | CS-MRE12MKE |
| CU-2E18MBE | CU-2E18MBE | CU-2E18MBE | CU-2E18MBE |
| 4.80 (1.50 - 4.90) | 4.70 (1.50 - 4.80) | 4.80 (1.50 - 5.00) | 4.80 (1.50 - 5.00) |
| 3,916 (1,290 - 4,272) | 4,183 (1,290 - 4,272) | 3,916 (1,290 - 4,450) | 3,916 (1,290 - 4,450) |
| 1.85 | 2.35 | 2.10 | 2.40 |
| 2.95 | 2.35 | 2.70 | 2.40 |
| 3.43 (5.55 - 3.20) ◀A | 3.43 (5.55 - 3.18) ◀A | 3.22 (5.55 - 3.20) ◀A | 3.22 (5.55 - 3.16) ◀A |
| 1.40 (0.27 - 1.53) | 1.37 (0.27 - 1.51) | 1.49 (0.27 - 1.56) | 1.49 (0.27 - 1.58) |
| 5.80 (1.10 - 6.70) | 5.80 (1.10 - 6.70) | 5.80 (1.10 - 6.70) | 5.80 (1.10 - 6.70) |
| 5,162 (950 - 5,963) | 5,162 (950 - 5,963) | 5,162 (950 - 5,963) | 5,162 (950 - 5,963) |
| 2.00 | 2.60 | 2.30 | 2.30 |
| 3.20 | 2.60 | 2.95 | 2.95 |
| 3.94 (4.58 - 3.90) ◀A | 3.88 (4.58 - 3.85) ◀A | 3.94 (4.58 - 3.80) ◀A | 4.00 (4.58 - 3.90) ◀A |
| 1.32 (0.24 - 1.72) | 1.34 (0.24 - 1.74) | 1.32 (0.24 - 1.72) | 1.30 (0.24 - 1.70) |
| 700 | 685 | 745 | 745 |
| 606 (E7) / 654 (E12) | 606 | 606 (E9) / 654 (E12) | 654 |
| 1.2 (E7) / 1.5 (E12) | 1.5 | 1.4 / 1.6 | 1.5 |
| 29 (E7) / 32 (E12) | 29 | 26 (E9) / 29 (E12) | 29 |
| 56 (E7) / 60 (E12) | 56 | 56 (E9) / 60 (E12) | 60 |
| 290 x 870 x 204 | 290 x 870 x 204 | 290 x 870 x 204 | 290 x 870 x 204 |
| 9 | 9 | 9 | 9 |
| Alleru-buster filter | Alleru-buster filter | Alleru-buster filter | Alleru-buster filter |
| 230 | 230 | 230 | 230 |
| 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| 6.50 / 5.85 | 6.40 / 5.95 | 6.95 / 5.85 | 6.95 / 5.75 |
| 1,998 | 1,998 | 1,998 | 1,998 |
| 47 / 49 | 47 / 49 | 47 / 49 | 47 / 49 |
| 62 / 64 | 62 / 64 | 62 / 64 | 62 / 64 |
| 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 |
| 38 | 38 | 38 | 38 |
| 1/4" (6.35) | 1/4" (6.35) | 1/4" (6.35) | 1/4" (6.35) |
| 3/8" (9.52) | 3/8" (9.52) | 3/8" (9.52) | 3/8" (9.52) |
| 1.45 | 1.45 | 1.45 | 1.45 |
| 10 | 10 | 10 | 10 |
| 30 | 30 | 30 | 30 |
| 3 / 20 | 3 / 20 | 3 / 20 | 3 / 20 |
| 20 | 20 | 20 | 20 |
| 20 | 20 | 20 | 20 |
| 16 / 43 | 16 / 43 | 16 / 43 | 16 / 43 |
| -10 / 24 | -10 / 24 | -10 / 24 | -10 / 24 |

Specifications subject to change without notice

KIT-2MRE77-MBE // KIT-2MRE79-MBE // KIT-2MRE712-MBE // KIT-2MRE912-MBE // KIT-2MRE77-MKE // KIT-2MRE79-MKE // KIT-2MRE712-MKE // KIT-2MRE99-MKE // KIT-2MRE912-MKE // KIT-2MRE1212-MKE

HEALTHY AIR

- New generation Anti Bacterial Filter with 10-year warranty
- Odour-removing function
- Anti-mould filter

ENERGY, EFFICIENCY AND ECOLOGY

- Inverter system
- R410A refrigerant gas

COMFORT

- Automatic vertical airflow control
- Hot start mode
- Automatic restart

EASE OF USE

- 24-hrs timer
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE

- 30 m maximum connection distance
- Removable, washable panel
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

- 1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.
- 3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 4) Add 70 mm for piping port.
- 5) When installing the outdoor unit at a higher position than the indoor unit.



CU-2E15MBE
CU-2E18MBE



ETHEREA MULTI SPLIT 2x1 // INVERTER+

ETHEREA WITH ENHANCED ECONAVI SENSOR AND NEW NANO-E-G AIR-PURIFYING SYSTEM: OUTSTANDING EFFICIENCY, COMFORT AND HEALTHY AIR COMBINED WITH STATE-OF-THE-ART DESIGN

Econavi features a Human Activity sensor and a new Sunlight Detection technology to adjust output ideally thereby giving you the best comfort at anytime whilst saving energy. Furthermore, the NANO-E-G 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. Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with Econavi.

Using a Multi Split 2x1 Inverter+ system with the outdoor unit CU-2E15LBE instead of 2 individual mono split Inverter+ systems, you reduce consumption and thus save more! Up to 16%! Furthermore, using a Multi Split system, you save space on the outdoor unit, making it easier to install in small spaces.



OPTIONAL

| SILVER KIT | | | KIT-2XE77-NBE | KIT-2XE79-NBE | KIT-2XE712-NBE | KIT-2XE99-NBE |
|---|---------------------------|-------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| SILVER KIT WITH SMARTPHONE CONTROL | | | KIT-2XE77-NBE-WIFI | KIT-2XE79-NBE-WIFI | KIT-2XE712-NBE-WIFI | KIT-2XE99-NBE-WIFI |
| Indoor | | | CS-XE7NKEW | CS-XE7NKEW | CS-XE7NKEW | CS-XE9NKEW |
| | | | CS-XE7NKEW | CS-XE9NKEW | CS-XE12NKEW | CS-XE9NKEW |
| WHITE KIT | | | KIT-2E77-NBE | KIT-2E79-NBE | KIT-2E712-NBE | KIT-2E99-NBE |
| WHITE KIT WITH SMARTPHONE CONTROL | | | KIT-2E77-NBE-WIFI | KIT-2E79-NBE-WIFI | KIT-2E712-NBE-WIFI | KIT-2E99-NBE-WIFI |
| Indoor | | | CS-E7NKEW | CS-E7NKEW | CS-E7NKEW | CS-E9NKEW |
| | | | CS-E7NKEW | CS-E9NKEW | CS-E12NKEW | CS-E9NKEW |
| Outdoor | | | CU-2E15LBE | CU-2E15LBE | CU-2E15LBE | CU-2E15LBE |
| Cooling capacity | Nominal (Min - Max) | kW | 4.00 (1.50 - 5.00) | 4.50 (1.50 - 5.20) | 4.50 (1.50 - 5.20) | 4.50 (1.50 - 5.20) |
| | Nominal (Min - Max) | kCal/h | 3,440 (1,290 - 4,300) | 3,870 (1,290 - 4,470) | 3,870 (1,290 - 4,470) | 3,870 (1,290 - 4,470) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.66 (6.00 - 3.70) ◀A | 3.66 (6.00 - 3.70) ◀A | 3.66 (6.00 - 3.42) ◀A | 3.66 (6.00 - 3.42) ◀A |
| Power input Cooling | Nominal (Min - Max) | kW | 1.09 (0.25 - 1.35) | 1.23 (0.25 - 1.52) | 1.23 (0.25 - 1.53) | 1.23 (0.25 - 1.52) |
| Heating capacity | Nominal (Min - Max) | kW | 5.40 (1.10 - 7.00) | 5.40 (1.10 - 7.00) | 5.40 (1.10 - 7.0) | 5.40 (1.10 - 7.0) |
| | Nominal (Min - Max) | kCal/h | 4,640 (950 - 6,020) | 4,640 (950 - 6,020) | 4,640 (950 - 6,020) | 4,640 (950 - 6,020) |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.62 (5.24 - 4.19) ◀A | 4.62 (5.24 - 4.19) ◀A | 4.62 (5.24 - 4.19) ◀A | 4.62 (4.61 - 4.19) ◀A |
| Power input Heating | Nominal (Min - Max) | kW | 1.17 (0.21 - 1.67) | 1.17 (0.21 - 1.67) | 1.17 (0.21 - 1.67) | 1.17 (0.21 - 1.67) |
| Annual Energy Consumption ²⁾ | | kWh | 545 | 615 | 615 | 615 |
| INDOOR UNIT | | | | | | |
| Air Volume | Cooling | m ³ /h | 606 | 606 (E7) / 606 (E9) | 606 (E7) / 654 (E12) | 606 |
| Moisture removal volume | | l/h | 1.3 / 1.3 | 1.3 (E7) / 1.5 (E12) | 1.1 (E7) / 1.6 (E12) | 1.5 / 1.5 |
| Sound pressure Level ³⁾ | Cooling & Heating (S-Lo) | dB(A) | 26 | 26 | 26 (E7) / 29 (E12) | 26 |
| Sound power Level | Cooling & Heating (S-Lo) | dB | 56 | 56 | 56 (E7) / 60 (E12) | 56 |
| Dimensions | H x W x D | mm | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 |
| Net weight | | Kg | 9 | 9 | 9 | 9 |
| Air purifier filter | | | NANO-E-G | NANO-E-G | NANO-E-G | NANO-E-G |
| OUTDOOR UNIT | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Current | Cooling / Heating Nominal | A | 5.10 / 5.20 | 5.75 / 5.20 | 5.75 / 5.20 | 5.75 / 5.20 |
| Air Volume | Cooling / Heating | m ³ /h | 1,998 / 1,710 | 1,998 / 1,710 | 1,998 / 1,710 | 1,998 / 1,710 |
| Sound pressure Level ³⁾ | Cooling / Heating (Hi) | dB(A) | 47 / 49 | 47 / 49 | 47 / 49 | 47 / 49 |
| Sound power Level | Cooling / Heating (Hi) | dB | 62 / 64 | 62 / 64 | 62 / 64 | 62 / 64 |
| Dimensions ⁴⁾ | H x W x D | mm | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 |
| Net weight | | Kg | 38 | 38 | 38 | 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) / 3/8" (9.52) | 1/4" (6.35) / 3/8" (9.52) |
| Refrigerant Loading | R410A | Kg | 1.45 | 1.45 | 1.45 | 1.45 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 10 | 10 | 10 | 10 |
| Piping length (total) | Min / Max | m | 3-30 | 3-30 | 3-30 | 3-30 |
| Piping length (one unit) | Min / Max | m | 3-20 | 3-20 | 3-20 | 3-20 |
| Piping length without refrigerant increase | Max | m | 20 | 20 | 20 | 20 |
| Additional gas | | g/m | 20 | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | 16 / 43 | 16 / 43 | 16 / 43 | 16 / 43 |
| | Heating Min / Max | °C | -10 / 24 | -10 / 24 | -10 / 24 | -10 / 24 |



NEW
2012

ETHEREA



INCLUDED WITH
THE INDOOR UNIT

TECHNICAL FOCUS

- **NEW!** MAXIMUM EFFICIENCY AND COMFORT WITH ECONAVI, NOW WITH SUNLIGHT DETECTION
- EXCLUSIVE SILVER DESIGN
- **NEW!** NANO-E-G AIR PURIFYING SYSTEM, 99% EFFECTIVE ON BOTH AIRBORNE AND ADHESIVE MOULD, VIRUSES AND BACTERIA
- **NEW!** OPTIONAL SMARTPHONE CONTROL WITH INTENSISHOME DEVICE
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE



CS-E7NKEW // CS-E9NKEW

**KIT-2XE77-NBE // KIT-2XE79-NBE // KIT-2XE712-NBE //
KIT-2XE99-NBE // KIT-2E77-NBE // KIT-2E79-NBE //
KIT-2E712-NBE // KIT-2E99-NBE**

HEALTHY AIR

- **NEW!** NANO-E-G air purifying system

ENERGY EFFICIENCY AND ECOLOGY

- Maximum efficiency Inverter system, for bigger savings
- **NEW!** -30% consumption with Econavi on heat pump, and -35% on cooling mode
- R410A refrigerant gas

COMFORT

- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE

- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)
- **NEW!** Optional Smartphone control with IntensisHome device

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- 30 m maximum connection distance
- 10 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function



CU-2E15LBE

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).

Connectivity restriction: CS-E/XE_NKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.

2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.

3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.

4) Add 70 mm for piping port.

5) When installing the outdoor unit at a higher position than the indoor unit.



ETHEREA MULTI SPLIT 2x1 // INVERTER+

ETHEREA WITH ENHANCED ECONAVI SENSOR AND NEW NANO-E-G AIR-PURIFYING SYSTEM: OUTSTANDING EFFICIENCY, COMFORT AND HEALTHY AIR COMBINED WITH STATE-OF-THE-ART DESIGN

Econavi features a Human Activity sensor and a new Sunlight Detection technology to adjust output ideally thereby giving you the best comfort at anytime whilst saving energy. Furthermore, the NANO-E-G 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. Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with Econavi.

Using a Multi Split 2x1 Inverter+ system with the outdoor unit CU-2E18LBE instead of 2 individual mono split Inverter+ systems, you reduce consumption and thus save more! Up to 16%! Furthermore, using a Multi Split system, you save space on the outdoor unit, making it easier to install in small spaces.



OPTIONAL

| SILVER KIT | | | KIT-2XE99-NKE | KIT-2XE912-NKE | KIT-2XE1212-NKE |
|---|---------------------------|-------------------|---------------------------|---------------------------|----------------------------|
| SILVER KIT WITH SMARTPHONE CONTROL | | | KIT-2XE99-NKE-WIFI | KIT-2XE912-NKE-WIFI | KIT-2XE1212-NKE-WIFI |
| Indoor | | | CS-XE9NKEW | CS-XE9NKEW | CS-XE12NKEW |
| | | | CS-XE12NKEW | CS-XE12NKEW | CS-XE12NKEW |
| WHITE KIT | | | KIT-2E99-NKE | KIT-2E912-NKE | KIT-2E1212-NKE |
| WHITE KIT WITH SMARTPHONE CONTROL | | | KIT-2E99-NKE-WIFI | KIT-2E912-NKE-WIFI | KIT-2E1212-NKE-WIFI |
| Indoor | | | CS-E9NKEW | CS-E9NKEW | CS-E12NKEW |
| | | | CS-E9NKEW | CS-E12NKEW | CS-E12NKEW |
| Outdoor | | | CU-2E18LBE | CU-2E18LBE | CU-2E18LBE |
| Cooling capacity | Nominal (Min - Max) | kW | 4.80 (1.50 - 5.20) | 5.00 (1.50 - 5.30) | 5.20 (1.50 - 5.40) |
| | Nominal (Min - Max) | kCal/h | 4,130 (1,290 - 4,470) | 4,300 (1,290 - 4,560) | 4,470 (1,290 - 4,640) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 3.66 (6.00 - 3.42) ◀A | 3.36 (6.00 - 3.44) ◀A | 3.42 (6.00 - 3.42) ◀A |
| Power input Cooling | Nominal (Min - Max) | kW | 1.31 (0.25 - 1.52) | 1.49 (0.25 - 1.54) | 1.52 (0.25 - 1.58) |
| Heating capacity | Nominal (Min - Max) | kW | 5.60 (1.10 - 7.20) | 5.60 (1.10 - 7.20) | 5.60 (1.10 - 7.20) |
| | Nominal (Min - Max) | kCal/h | 4,820 (950 - 6,190) | 4,820 (950 - 6,190) | 4,820 (950 - 6,190) |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.48 (5.24 - 4.14) ◀A | 4.55 (5.24 - 4.19) ◀A | 4.63 (5.24 - 4.24) ◀A |
| Power input Heating | Nominal (Min - Max) | kW | 1.25 (0.21 - 1.74) | 1.23 (0.21 - 1.72) | 1.21 (0.21 - 1.70) |
| Annual Energy Consumption ²⁾ | | kWh | 655 | 745 | 760 |
| INDOOR UNIT | | | | | |
| Air Volume | Cooling | m ³ /h | 606 | 606 (E9) / 654 (E12) | 654 |
| Moisture removal volume | | L/h | 1.5 / 1.5 | 1.4 (E9) / 1.6 (E12) | 1.6 / 1.6 |
| Sound pressure Level ³⁾ | Cooling & Heating (S-Lo) | dB(A) | 26 | 26 (E9) / 29 (E12) | 29 |
| Sound power Level | Cooling & Heating (S-Lo) | dB | 56 | 56 (E9) / 60 (E12) | 60 |
| Dimensions | H x W x D | mm | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 |
| Net weight | | Kg | 9 | 9 | 9 |
| Air purifier filter | | | NANO-E-G | NANO-E-G | NANO-E-G |
| OUTDOOR UNIT | | | | | |
| Power source | | V | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Current | Cooling / Heating Nominal | A | 6.10 / 5.55 | 6.95 / 5.45 | 7.10 / 5.35 |
| Air Volume | Cooling / Heating | m ³ /h | 2,070 / 1,860 | 2,070 / 1,860 | 2,070 / 1,860 |
| Sound pressure Level ³⁾ | Cooling / Heating (Hi) | dB(A) | 49 / 51 | 49 / 51 | 49 / 51 |
| Sound power Level | Cooling / Heating (Hi) | dB | 64 / 66 | 64 / 66 | 64 / 66 |
| Dimensions ⁴⁾ | H x W x D | mm | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 |
| Net weight | | Kg | 38 | 38 | 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) / 3/8" (9.52) |
| Refrigerant Loading | R410A | Kg | 1.45 | 1.45 | 1.45 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 10 | 10 | 10 |
| Piping length (total) | Min / Max | m | 30 | 30 | 30 |
| Piping length (one unit) | Min / Max | m | 3-20 | 3-20 | 3-20 |
| Piping length without refrigerant increase | Max | m | 20 | 20 | 20 |
| Additional gas | | g/m | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | 16 / 43 | 16 / 43 | 16 / 43 |
| | Heating Min / Max | °C | -10 / 24 | -10 / 24 | -10 / 24 |



NEW
2012

ETHEREA



INCLUDED WITH
THE INDOOR UNIT

TECHNICAL FOCUS

- **NEW!** MAXIMUM EFFICIENCY AND COMFORT WITH ECONAVI, NOW WITH SUNLIGHT DETECTION
- EXCLUSIVE SILVER DESIGN
- **NEW!** NANO-E-G AIR PURIFYING SYSTEM, 99% EFFECTIVE ON BOTH AIRBORNE AND ADHESIVE MOULD, VIRUSES AND BACTERIA
- **NEW!** OPTIONAL SMARTPHONE CONTROL WITH INTENSISHOME DEVICE
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE



CS-E9NKEW // CS-E12NKEW

KIT-2XE99-NKE // KIT-2XE912-NKE // KIT-2XE1212-NKE // KIT-2E99-NKE // KIT-2E912-NKE // KIT-2E1212-NKE

HEALTHY AIR

- **NEW!** NANO-E-G air purifying system

ENERGY EFFICIENCY AND ECOLOGY

- Maximum efficiency Inverter system, for bigger savings
- **NEW!** -30% consumption with Econavi on heat pump, and -35% on cooling mode
- R410A refrigerant gas

COMFORT

- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE

- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)
- **NEW!** Optional Smartphone control with IntensisHome device

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- 30 m maximum connection distance
- 10 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function



CU-2E18LBE

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).

Connectivity restriction: CS-E/XE_NKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.

2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.

3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.

4) Add 70 mm for piping port.

5) When installing the outdoor unit at a higher position than the indoor unit.



ETHEREA MULTI SPLIT 3x1 // INVERTER+

ETHEREA WITH ENHANCED ECONAVI SENSOR AND NEW NANO-E-G AIR-PURIFYING SYSTEM: OUTSTANDING EFFICIENCY, COMFORT AND HEALTHY AIR COMBINED WITH STATE-OF-THE-ART DESIGN

Econavi features a Human Activity sensor and a new Sunlight Detection technology to adjust output ideally thereby giving you the best comfort at anytime whilst saving energy. Furthermore, the NANO-E-G 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. Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with Econavi.

Etherea has an advanced air purifying system with the new Patrol Sensor to detect and eliminate contaminants. Using a Multi Split 3X1 Inverter+ system with the outdoor unit CU-3E18LBE instead of 3 individual mono split Inverter+ systems, 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.



OPTIONAL

| SILVER KIT | | | KIT-3XE7712-NBE | KIT-3XE7715-NBE |
|---|---------------------------|-------------------|---|---|
| SILVER KIT WITH SMARTPHONE CONTROL | | | KIT-3XE7712-NBE-WIFI | KIT-3XE7715-NBE-WIFI |
| Indoor | | | CS-XE7NKEW (x2) CS-XE12NKEW (x1) | CS-XE7NKEW (x2) CS-XE15NKEW (x1) |
| WHITE KIT | | | KIT-3E7712-NBE | KIT-3E7715-NBE |
| WHITE KIT WITH SMARTPHONE CONTROL | | | KIT-3E7712-NBE-WIFI | KIT-3E7715-NBE-WIFI |
| Indoor | | | CS-E7NKEW (x2) CS-E12NKEW (x1) | CS-E7NKEW (x2) CS-E15NKEW (x1) |
| Outdoor | | | CU-3E18LBE | CU-3E18LBE |
| Cooling capacity | Nominal (Min - Max) | kW | 5.20 (1.90-7.20) | 5.20 (1.80-7.30) |
| | Nominal (Min - Max) | kCal/h | 4,470 (1,630-6,190) | 4,470 (1,550-6,280) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.30 (5.28 - 3.30) A | 4.30 (5.00 - 3.35) A |
| Power input Cooling | Nominal (Min - Max) | kW | 1.21 (0.36-2.18) | 1.21 (0.36-2.18) |
| Heating capacity | Nominal (Min - Max) | kW | 6.80 (1.40-8.30) | 6.80 (1.60-8.30) |
| | Nominal (Min - Max) | kCal/h | 5,850 (1,200-7,140) | 5,850 (1,380-7,140) |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.63 (4.38 - 3.94) A | 4.72 (5.00 - 3.93) A |
| Power input Heating | Nominal (Min - Max) | kW | 1.47 (0.32-2.11) | 1.44 (0.32-2.11) |
| Annual Energy Consumption ²⁾ | | kWh | 745 | 720 |
| INDOOR UNIT | | | | |
| Air Volume | Cooling | m ³ /h | 606 (E7) / 654 (E12) | 606 (E7) / 672 (E15) |
| Moisture removal volume | | l/h | 1.3 (E7) / 1.8 (E12) | 0.8 (E7) / 1.6 (E15) |
| Sound pressure Level ³⁾ | Cooling — Heating (S-Lo) | dB(A) | 26 (E7) / 29 (E12) — 26 (E7) / 29 (E12) | 26 (E7) / 29 (E15) — 26 (E7) / 30 (E15) |
| Sound power Level | Cooling & Heating (Hi) | dB | 56 (E7) / 60 (E12) | 56 (E7) / 60 (E15) |
| Dimensions | H x W x D | mm | 290 x 870 x 214 | 290 x 870 x 214 |
| Net weight | | Kg | 9 | 9 |
| Air purifier filter | | | NANO-E-G | NANO-E-G |
| OUTDOOR UNIT | | | | |
| Power source | | V | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 |
| Current | Cooling / Heating Nominal | A | 5.3 / 8.2 | 5.3 / 7.9 |
| Air Volume | Cooling / Heating | m ³ /h | 2,502 | 2,502 |
| Sound pressure Level ³⁾ | Cooling / Heating (Hi) | dB(A) | 46 / 47 | 46 / 47 |
| Sound power Level | Cooling / Heating (Hi) | dB | 60 / 61 | 60 / 61 |
| Dimensions ⁴⁾ | H x W x D | mm | 795 x 875 (+95) x 320 | 795 x 875 (+95) x 320 |
| Net weight | | Kg | 71 | 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) |
| Refrigerant Loading | R410A | Kg | 2.64 | 2.64 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 15 | 15 |
| Piping length (total) | Min / Max | m | marz-50 | marz-50 |
| Piping length (one unit) | Min / Max | m | marz-25 | marz-25 |
| Piping length without refrigerant increase | Max | m | 30 | 30 |
| Additional gas | | g/m | 20 | 20 |
| Operating range | Cooling Min / Max | °C | -10 / 46 | -10 / 46 |
| | Heating Min / Max | °C | -15 / 24 | -15 / 24 |



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CS-E7NKEW // CS-E12NKEW // CS-E15NKEW

KIT-3XE7712-NBE // KIT-3XE7715-NBE // KIT-3E7712-NBE // KIT-3E7715-NBE

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- Real time clock with dual ON&OFF timer
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- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)
- **NEW!** Optional Smartphone control with IntensisHome device

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- 50 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function



CU-3E18LBE

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------|-------------------|-----------------|
| | | 27°C DB / 19°C WB | 20°C DB |
| | | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).

Connectivity restriction: CS-E/XE_NKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.

2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.

3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.

4) Add 70 mm for piping port.

5) When installing the outdoor unit at a higher position than the indoor unit.



ETHEREA MULTI SPLIT 4x1 // INVERTER+

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Econavi features a Human Activity sensor and a new Sunlight Detection technology to adjust output ideally thereby giving you the best comfort at anytime whilst saving energy. Furthermore, the NANO-E G 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. Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with Econavi.

Using a Multi Split 4X1 Inverter+ system with the outdoor unit CU-4E23LBE instead of 4 individual mono split Inverter+ systems, you reduce consumption and thus save more! Up to 36%! Furthermore, using a Multi Split system, you save space on the outdoor unit, making it easier to install in small spaces.



OPTIONAL

| SILVER KIT | | | KIT-4XE77712-NBE | KIT-4XE77715-NBE | KIT-4XE77712-NKE | KIT-4XE77715-NKE |
|---|---------------------------|-------------------|---|---|---|---|
| SILVER KIT WITH SMARTPHONE CONTROL | | | KIT-4XE77712-NBE-WIFI | KIT-4XE77715-NBE-WIFI | KIT-4XE77712-NKE-WIFI | KIT-4XE77715-NKE-WIFI |
| Indoor | | | CS-XE7NKEW (x3) CS-XE12NKEW (x1) | CS-XE7NKEW (x3) CS-XE15NKEW (x1) | CS-XE7NKEW (x3) CS-XE12NKEW (x1) | CS-XE7NKEW (x3) CS-XE15NKEW (x1) |
| WHITE KIT | | | KIT-4E77712-NBE | KIT-4E77715-NBE | KIT-4E77712-NKE | KIT-4E77715-NKE |
| WHITE KIT WITH SMARTPHONE CONTROL | | | KIT-4E77712-NBE-WIFI | KIT-4E77715-NBE-WIFI | KIT-4E77712-NKE-WIFI | KIT-4E77715-NKE-WIFI |
| Indoor | | | CS-E7NKEW (x3) CS-E12NKEW (x1) | CS-E7NKEW (x3) CS-E15NKEW (x1) | CS-E7NKEW (x3) CS-E12NKEW (x1) | CS-E7NKEW (x3) CS-E15NKEW (x1) |
| Outdoor | | | CU-4E23LBE | CU-4E23LBE | CU-4E27CBPG | CU-4E27CBPG |
| Cooling capacity | Nominal (Min - Max) | kW | 6.80 (1.90 - 8.80) | 6.80 (1.90 - 8.80) | 8.00 (2.80 - 8.90) | 8.00 (2.80 - 8.90) |
| | Nominal (Min - Max) | kCal/h | 5,850 (1,630 - 7,570) | 5,850 (1,630 - 7,650) | 6,880 (2,410 - 7,650) | 6,880 (2,410 - 7,650) |
| EER ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.12 (5.59 - 3.56) ◀A | 4.12 (5.59 - 3.56) ◀A | 3.76 (5.71 - 3.09) ◀A | 3.76 (5.71 - 3.20) ◀A |
| Power input Cooling | Nominal (Min - Max) | kW | 1.65 (0.34 - 2.47) | 1.65 (0.34 - 2.47) | 2.13 (0.49 - 2.88) | 2.10 (0.49 - 2.87) |
| Heating capacity | Nominal (Min - Max) | kW | 8.60 (3.00 - 10.60) | 8.60 (3.00 - 10.60) | 9.40 (3.40 - 10.50) | 9.40 (3.80 - 10.50) |
| | Nominal (Min - Max) | kCal/h | 7,400 (2,580 - 9,120) | 7,400 (2,580 - 9,120) | 8,080 (2,920 - 9,030) | 8,080 (3,270 - 9,030) |
| COP ¹⁾ | Nominal (Min - Max) | Energy Saving | 4.65 (5.17 - 4.08) ◀A | 4.67 (5.09 - 4.09) ◀A | 4.43 (5.76 - 3.30) ◀A | 4.50 (5.31 - 3.34) ◀A |
| Power input Heating | Nominal (Min - Max) | kW | 1.85 (0.58 - 2.60) | 1.84 (0.59 - 2.59) | 2.12 (0.59 - 3.18) | 2.09 (0.64 - 3.14) |
| Annual Energy Consumption ²⁾ | | kWh | 825 | 825 | 1,065 | 1,055 |
| INDOOR UNIT | | | | | | |
| Air Volume | Cooling | m ³ /h | 606 (E7) / 654 (E12) | 606 (E7) / 672 (E15) | 654 (E7) / 750 (E12) | 654 (E7) / 750 (E15) |
| Moisture removal volume | | l/h | 0.9 (E7) / 1.5 (E12) | 0.9 (E7) / 1.6 (E15) | 1.1 (E7) / 1.6 (E12) | 1.0 (E7) / 1.8 (E15) |
| Sound pressure level ³⁾ | Cooling — Heating (S-Lo) | dB(A) | 26 (E7) / 29 (E12) — 26 (E7) / 29 (E12) | 26 (E7) / 29 (E15) — 26 (E7) / 30 (E15) | 26 (E7) / 29 (E12) — 26 (E7) / 29 (E12) | 26 (E7) / 29 (E15) — 26 (E7) / 30 (E15) |
| Sound power level | Cooling & Heating (Hi) | dB | 56 (E7) / 60 (E12) | 56 (E7) / 60 (E15) | 56 (E7) / 60 (E12) | 56 (E7) / 60 (E15) |
| Dimensions | H x W x D | mm | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 | 290 x 870 x 214 |
| Net weight | | Kg | 9 | 9 | 9 | 9 |
| Air purifier filter | | | NANO-E G | NANO-E G | NANO-E G | NANO-E G |
| OUTDOOR UNIT | | | | | | |
| Power source | | V | 230 | 230 | 230 | 230 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Current | Cooling / Heating Nominal | A | 7.40 / 8.60 | 7.40 / 8.50 | 9.40 / 9.30 | 9.30 / 9.20 |
| Air Volume | Cooling / Heating | m ³ /h | 2,550 | 2,550 | 2,910 | 2,910 |
| Sound pressure Level ³⁾ | Cooling / Heating (Hi) | dB(A) | 48 / 49 | 48 / 49 | 48 / 49 | 48 / 49 |
| Sound power Level | Cooling / Heating (Hi) | dB | 62 / 63 | 62 / 63 | 61 / 62 | 61 / 62 |
| Dimensions ⁴⁾ | H x W x D | mm | 795 x 875 (+95) x 320 | 795 x 875 (+95) x 320 | 908 x 900 x 320 | 908 x 900 x 320 |
| Net weight | | Kg | 72 | 73 | 73 | 73 |
| 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) |
| Refrigerant Loading | R410A | Kg | 2.64 | 2.64 | 3.1 | 3.1 |
| Elevation difference (in/out) ⁵⁾ | Max | m | 15 | 15 | 15 | 15 |
| Piping length (total) | Min / Max | m | 60 | 60 | 70 | 70 |
| Piping length (one unit) | Min / Max | m | 3-25 | 3-25 | 3-25 | 3-25 |
| Piping length without refrigerant increase | Max | m | 30 | 30 | 40 | 40 |
| Additional gas | | g/m | 20 | 20 | 20 | 20 |
| Operating range | Cooling Min / Max | °C | -10 / 46 | -10 / 46 | 16 / 43 | 16 / 43 |
| | Heating Min / Max | °C | -15 / 24 | -15 / 24 | -20 / 24 | -20 / 24 |



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- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE



CS-E7NKEW // CS-E12NKEW // CS-E15NKEW

**KIT-4XE77712-NBE // KIT-4XE77715-NBE // KIT-4XE77712-NKE //
KIT-4XE77715-NKE // KIT-4E77712-NBE // KIT-4E77715-NBE //
KIT-4E77712-NKE // KIT-4E77715-NKE**

HEALTHY AIR

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- R410A refrigerant gas

COMFORT

- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE

- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)
- **NEW!** Optional Smartphone control with IntensisHome device

EASY INSTALLATION AND MAINTENANCE

- Removable, washable panel
- 70 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

| GLOBAL REMARKS | Rating conditions | Cooling | Heating |
|----------------|-------------------------|-------------------|-----------------|
| | Inside air temperature | 27°C DB / 19°C WB | 20°C DB |
| | Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb

This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).

Connectivity restriction: CS-E/XE_NKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.

2) The annual consumption is calculated by multiplying the input power at 230 V by an average of 500 hours per year in cooling mode.

3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.

4) Add 70 mm for piping port.

5) When installing the outdoor unit at a higher position than the indoor unit.



CU-4E23LBE



CU-4E27CBPG



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 various 1x1 systems. They will be able to save up to 30% of energy.

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

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



OPTIONAL ONLY FOR ETHEREA

| INDOOR UNIT CAPACITIES | | | | | | | | |
|-------------------------------|-------------------------|-------------------------|---------------|---------------------------|---|---|---|-------------|
| CAPACITY | 7 - 2.0 kW | 9/10 - 2.5 kW | 9/10 - 2.8 kW | 12 - 3.2 kW | 15 - 4 kW | 18 - 5 kW | 21 - 6 kW | 24 - 7.1 kW |
| SPLIT ETHEREA | | | | | | | | |
| NEW 2012 | CS-XE7NKEW CS-E7NKEW | CS-XE9NKEW CS-E9NKEW | | CS-XE12NKEW CS-E12NKEW | CS-XE15NKEW ¹ CS-E15NKEW ¹ | CS-XE18NKEW ¹ CS-E18NKEW ¹ | CS-XE21NKEW ¹ CS-E21NKEW ¹ | |
| SPLIT FOR 5x1 | | | | | | | | |
| NEW 2012 | CS-ME7NKE | CS-ME9NKE | | CS-ME12NKE | | CS-ME18NKE | | CS-ME24NKE |
| 1-WAY CASSETTE | | | | | | | | |
| | CS-ME7KB1E | | CS-ME10EBE1E | CS-ME12EBE1E | CS-ME14EB1E | | | |
| LOW STATIC PRESSURE HIDE AWAY | | | | | | | | |
| | | CS-E10KD3EA | | | CS-E15JD3EA ¹ | CS-E18JD3EA ¹ | | |
| FLOOR CONSOLE | | | | | | | | |
| | | | CS-E9GFEW | CS-E12GFEW | | CS-E18GFEW ¹ | | |
| FLOOR/CEILING CONSOLE | | | | | | | | |
| | | | CS-ME10DTEG | | CS-E15DTEW ¹ | CS-E18DTEW ¹ | | |
| 4 WAY 60X60 CASSETTE | | | | | | | | |
| | | CS-E10KB4EA | | | CS-E15HB4EA ¹ | CS-E18HB4EA ¹ | CS-E21JB4EA ¹ | |






¹ A CZ-MA1P pipe reducer is needed on the E15 and E18, a CZ-MA2P pipe expander is needed on the E21.



NEW
2012



POSSIBLE INDOOR UNIT COMBINATIONS

| Models | Possible indoor unit combinations | Capacity kW ¹ | Refrigerant pipe diameter | | | Pipe length | | | | | Indoor/outdoor unit combinations | | | | | | | | | | | | | | | | | |
|--------|--|---|--|--|--------------------------------------|--------------------------------------|--------------------------|--|----------------|-----------------------|----------------------------------|---------------|---------------|----------------|-------------------------------|---------------|-------------------------|----------------|---|---|---|---|---|---|---|---|---|---|
| | | | Indoor unit | Liquid | Gas | Max. pipe length (1 room) | Max. pipe length (total) | Max. pipe without additional gas refills | Additional gas | Max. level difference | Capacity | Split Etherea | Split for 5x1 | 1-way Cassette | Low Static Pressure Hide Away | Floor console | Floor / ceiling console | 4-way Cassette | | | | | | | | | | |
| ROOMS | 2 | CU-2E15LBE  | A ² : 7, 9/10 or 12 B ² : 7, 9/10 or 12 | 4.0-5.6 | Room A Room B | 1/4" 1/4" | 3/8" 3/8" | 20 m | 30 m | 20 m | 20 g/m | 10 m | 7 | × | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 9/10 | × | | | × | × | | | | | | | × | | | |
| | | | | | | | | | | | | | 12 | × | | | | | × | | | | | | | | | |
| | | | | | | | | | | | | | 7 | × | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 9/10 | × | | | | | | | | | | | × | × | × | × |
| | | | | | | | | | | | | | 12 | × | | | | | | | | | | | | × | | |
| | 3 | CU-3E18LBE  | A ³ : 7, 9/10, 12, 15 or 18 B ³ : 7, 9/10, 12, 15 or 18 C ³ : 7, 9/10, 12, 15 or 18 | 4.5-9.0 | Room A Room B Room C | 1/4" 1/4" 1/4" | 3/8" 3/8" 3/8" | 25 m | 50 m | 30 m | 20 g/m | 15 m | 7 | × | | × | | | | | | | | | | | | |
| | | | | | | | | | | | | | 9/10 | × | | × | × | × | × | × | × | × | × | | | | | |
| | | | | | | | | | | | | | 12 | × | | × | | | × | | | | | | | | | |
| | | | | | | | | | | | | | 14/15 | × | | × | × | × | × | × | × | × | × | × | × | × | | |
| | | | | | | | | | | | | | 18 | × | | × | × | × | × | × | × | × | × | × | × | × | | |
| | | | | | | | | | | | | | 7 | × | | | | | | | | | | | | | | |
| 4 | CU-4E23LBE  | A ³ : 7, 9/10, 12, 15, 18 or 21 B ³ : 7, 9/10, 12, 15, 18 or 21 C ³ : 7, 9/10, 12, 15, 18 or 21 D ³ : 7, 9/10, 12, 15, 18 or 21 | 4.5-11.0 | Room A Room B Room C Room D | 1/4" 1/4" 1/4" 1/4" | 3/8" 3/8" 3/8" 3/8" | 25 m | 60 m | 30 m | 20 g/m | 15 m | 7 | × | | × | | | | | | | | | | | | | |
| | | | | | | | | | | | | 9/10 | × | | × | × | × | × | × | × | × | × | | | | | | |
| | | | | | | | | | | | | 12 | × | | × | | | × | | | | | | | | | | |
| | | | | | | | | | | | | 14/15 | × | | × | × | × | × | × | × | × | × | × | × | | | | |
| | | | | | | | | | | | | 18 | × | | × | × | × | × | × | × | × | × | × | × | | | | |
| | 21 | × | | | | | | | | | | | | | | × | | | | | | | | | | | | |
| | CU-4E27CBPG  | A ³ : 7, 9/10, 12, 15 or 18 B ³ : 7, 9/10, 12, 15 or 18 C ³ : 7, 9/10, 12, 15 or 18 D ³ : 7, 9/10, 12, 15 or 18 | 4.5-13.6 | Room A Room B Room C Room D | 1/4" 1/4" 1/4" 1/4" | 3/8" 3/8" 3/8" 3/8" | 25 m | 70 m | 40 m | 20 g/m | 15 m | 7 | × | | × | | | | | | | | | | | | | |
| | | | | | | | | | | | | 9/10 | × | | × | × | × | × | × | × | × | × | | | | | | |
| | | | | | | | | | | | | 12 | × | | × | | | × | | | | | | | | | | |
| | | | | | | | | | | | | 14/15 | × | | × | × | × | × | × | × | × | × | × | × | | | | |
| 18 | | | | | | | | | | | | × | | × | × | × | × | × | × | × | × | × | × | | | | | |
| 5 | CU-5E34NBE  | A ³ : 7, 9, 12, 18 or 24 B ³ : 7, 9, 12, 18 or 24 C ³ : 7, 9, 12, 18 or 24 D ³ : 7, 9, 12, 18 or 24 E ³ : 7, 9, 12, 18 or 24 | | Room A Room B Room C Room D Room E | 1/4" 1/4" 1/4" 1/4" 1/4" | 3/8" 3/8" 3/8" 1/2" 1/2" | 30 m | 80 m | 45 m | 20 g/m | 15 m | 7 | | × | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 9 | | × | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 12 | | × | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 18 | | × | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 24 | | × | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | |

1) The combinations must remain within this range.

2) A minimum of two indoor units must be connected.

3) A minimum of two indoor units must be connected, minimum combination at 2x1: 7+9.

Connectivity restriction: CS-E/NE_NKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

INDOOR UNITS FOR FREE MULTI COMBINATIONS



OPTIONAL ONLY FOR ETHEREA



| ETHEREA // SILVER OR WHITE | | | 2.0 KW | 2.5 KW | 3.2 KW | 4 KW | 5 KW | 6 KW |
|-----------------------------------|--------------------------|-------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| Silver Indoor | | | CS-XE7NKEW | CS-XE9NKEW | CS-XE12NKEW | CS-XE15NKEW ¹ | CS-XE18NKEW ¹ | CS-XE21NKEW ¹ |
| White Indoor | | | CS-E7NKEW | CS-E9NKEW | CS-E12NKEW | CS-E15NKEW ¹ | CS-E18NKEW ¹ | CS-E21NKEW ¹ |
| Cooling capacity | Nominal | kW / kCat/h | 2.00 / 1,720 | 2.50 / 2,150 | 3.20 / 2,750 | 4.00 / 3,440 | 5.00 / 4,300 | 6.00 / 5,160 |
| Heating capacity | Nominal | kW / kCat/h | 3.20 / 2,750 | 3.60 / 3,010 | 4.50 / 3,870 | 5.60 / 4,820 | 6.80 / 5,850 | 8.50 / 7,310 |
| Connection | | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Sound pressure level ² | Cooling (Hi / Lo / S-Lo) | dB(A) | 40 / 26 / 23 | 40 / 26 / 23 | 44 / 32 / 26 | 44 / 32 / 26 | 46 / 33 / 30 | 46 / 33 / 30 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 40 / 26 / 23 | 40 / 26 / 23 | 44 / 32 / 26 | 44 / 33 / 32 | 46 / 35 / 32 | 46 / 35 / 32 |
| Sound power level | Cooling / Heating (Hi) | dB | 54 / 56 | 56 / 56 | 60 / 60 | 60 / 60 | 62 / 62 | 62 / 62 |
| | 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 1,070 x 235 | 290 x 1,070 x 235 |
| Net weight | | | Kg | 9 | 9 | 9 | 12 | 12 |
| Air purifier filter | | | Patrol + E-ion | Patrol + E-ion | Patrol + E-ion | Patrol + E-ion | Patrol + E-ion | Patrol + E-ion |
| 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) / 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) |



| SPLIT (ONLY WITH CU-5E34NBE) | | | 2.0 KW | 2.5 KW | 3.2 KW | 5 KW | 7.1 KW |
|------------------------------|--------------------|-------|-------------|-----------------|-----------------|-----------------|-------------------|
| Indoor unit | | | CS-ME7NKE | CS-ME9NKE | CS-ME12NKE | CS-ME18NKE | CS-ME24NKE |
| Cooling capacity | | kW | 2.20 | 2.65 | 3.50 | 5.15 | 7.10 |
| Heating capacity | | kW | 2.50 | 3.60 | 4.20 | 6.00 | 8.50 |
| Sound pressure level | Cooling (Qt/L/M/H) | dB(A) | 22/27/30/33 | 22/28/31/34 | 25/29/33/36 | 28/34/38/41 | 30/38/41/44 |
| | Heating (Qt/L/M/H) | dB(A) | 22/27/30/33 | 22/28/31/34 | 25/29/31/34 | 28/34/37/40 | 30/37/40/43 |
| Dimensions H x W x D | | | mm | 285 x 825 x 213 | 285 x 825 x 213 | 285 x 825 x 213 | 298 x 1,065 x 234 |
| Net weight | | | Kg | 10 | 10 | 12 | 12 |



CZ-RD52CP INCLUDE ON THE INDOOR UNIT

| LOW STATIC PRESSURE HIDE AWAY | | | 2.5 KW | 4 KW | 5 KW |
|-----------------------------------|----------------------------|-------------|---------------------------|----------------------------|----------------------------|
| Indoor hide away | | | CS-E10KD3EA | CS-E15JD3EA ¹ | CS-E18JD3EA ¹ |
| Wired remote control | Include on the indoor unit | | CZ-RD52CP | CZ-RD52CP | CZ-RD52CP |
| Cooling capacity | Nominal | kW / kCat/h | 2.50 / 2,150 | 4.00 / 3,440 | 5.00 / 4,300 |
| Heating capacity | Nominal | kW / kCat/h | 3.60 / 3,100 | 5.60 / 4,820 | 6.80 / 5,850 |
| Connection | | | mm ² | 4 x 1.5 | 4 x 1.5 |
| External static pressure | Hi / Lo | Pa (mm) | 34 / 64 (3.47 / 6.53) | 34 / 69 (3.47 / 7.04) | 34 / 78 (3.47 / 7.95) |
| Air Volume | | | m ³ /h | 414 / 402 / 330 | 474 / 402 / 330 |
| Sound pressure level ² | Cooling (Quiet / Lo / Hi) | dB(A) | 24 / 27 / 31 | 24 / 27 / 33 | 27 / 30 / 41 |
| | Heating (Quiet / Lo / Hi) | dB(A) | 24 / 27 / 35 | 24 / 27 / 33 | 29 / 32 / 41 |
| Sound power level | Cooling / Heating (Hi) | dB | 49 / 51 | 49 / 51 | 57 / 57 |
| | Dimensions H x W x D | mm | 235 x 750 (+65) x 370 | 235 x 750 (+65) x 370 | 285 x 750 (+65) x 370 |
| Net weight | | | Kg | 17 | 18 |
| Piping connections | Liquid / 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) |



INCLUDE ON THE INDOOR UNIT



CZ-BT20E SOLD SEPARATELY

CZ-SA11P OPTIONAL
prevention allergy filter
ANTI BACTERIAL FILTER

| 4 WAY 60X60 CASSETTE | | | 2.5 KW | 4 KW | 5 KW | 6 KW |
|-----------------------------------|-------------------------------|-------------|---------------------------|----------------------------|----------------------------|----------------------------|
| Indoor | | | CS-E10KB4EA | CS-E15HB4EA ¹ | CS-E18HB4EA ¹ | CS-E21JB4EA ¹ |
| Panel | Sold separatel | | CZ-BT20E | CZ-BT20E | CZ-BT20E | CZ-BT20E |
| Wireless control | Include on the indoor unit | | | | | |
| Cooling capacity | Nominal | kW / kCat/h | 2.50 / 2,150 | 4.00 / 3,440 | 5.00 / 4,300 | 6.00 / 5,160 |
| Heating capacity | Nominal | kW / kCat/h | 3.60 / 3,100 | 5.60 / 4,820 | 6.80 / 5,850 | 8.50 / 7,310 |
| Connection | | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Sound pressure level ² | Cooling (Hi / Lo / S-Lo) | dB(A) | 34 / 26 / 23 | 34 / 26 / 23 | 36 / 28 / 25 | 41 / 33 / 30 |
| | Heating (Hi / Lo / S-Lo) | dB(A) | 35 / 28 / 25 | 35 / 28 / 25 | 37 / 29 / 26 | 42 / 34 / 31 |
| Sound power level | Cooling / Heating (Hi) | dB | 47 / 58 | 47 / 48 | 49 / 50 | 54 / 55 |
| | Dimensions Indoor (H x W x D) | mm | 260 x 575 x 575 | 260 x 575 x 575 | 260 x 575 x 575 | 260 x 575 x 575 |
| Net weight | Panel (H x W x D) | mm | 51 x 700 x 700 | 51 x 700 x 700 | 51 x 700 x 700 | 51 x 700 x 700 |
| | Indoor (Panel) | Kg | 18 (2.5) | 18 (2.5) | 18 (2.5) | 18 (2.5) |
| Air purifier filter | | | Optional CZ-SA11P | CZ-SA11P | CZ-SA11P | CZ-SA11P |
| Piping connections | Liquid / 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) |

| GLOBAL REMARKS | Rating conditions | |
|-------------------------|------------------------|-------------------|
| | Cooling | Heating |
| | Inside air temperature | 27°C DB / 19°C WB |
| Outside air temperature | 35°C DB / 24°C WB | 7°C DB / 6°C WB |

DB: Dry Bulb; WB: Wet Bulb. Connectivity restriction: CS-E/XE_NKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CPBG outdoor units. No other outdoor unit can be connected.

- 1 A CZ-MA1P pipe reducer is needed on the E15 and E18, a CZ-MA2P pipe expander is needed on the E21.
- 2 The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
- 3 EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
- 4 Add 70 or 95 mm for piping port.
- 5 When installing the outdoor unit at a higher position than the indoor unit.



CZ-BT20P SOLD SEPARATELY

OPTIONAL

prevention
allergy
filter
ANTI-BACTERIAL
FILTER

| 1-WAY CASSETTE | | | 2.0 kW | 2.8 kW | 3.2 kW | 4 kW |
|-----------------------------------|--------------------------|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Indoor | | | CS-ME7KB1E | CS-ME10EBE1E | CS-ME12EBE1E | CS-ME14EBE1E |
| Panel | Sold separately | | CZ-BT20P | CZ-BT20P | CZ-BT20P | CZ-BT20P |
| Cooling capacity | Nominal | kW / kCat/h | 2.00 / 1,720 | 2.80 / 2,410 | 3.20 / 2,750 | 4.00 / 3,440 |
| Heating capacity | Nominal | kW / kCat/h | 3.20 / 2,750 | 4.00 / 3,440 | 4.50 / 3,870 | 5.60 / 4,820 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Sound pressure level ² | Cool — Heat (Hi/Lo/S-Lo) | dB(A) | 40 / 32 / 29 — 42 / 32 / 29 | 40 / 32 / 29 — 42 / 32 / 29 | 41 / 32 / 29 — 43 / 32 / 29 | 43 / 32 / 29 — 44 / 34 / 31 |
| Sound power level | Cooling / Heating (Hi) | dB | 53 / 55 | 53 / 55 | 54 / 56 | 56 / 57 |
| Dimensions | Indoor (H x W x D) | mm | 185 x 770 x 360 | 185 x 770 x 360 | 185 x 770 x 360 | 185 x 770 x 360 |
| | Panel (H x W x D) | mm | 55 x 1,070 x 460 | 55 x 1,070 x 460 | 55 x 1,070 x 460 | 55 x 1,070 x 460 |
| Net weight | | Kg | 9.8 | 9.8 | 9.8 | 9.8 |
| 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) / 3/8" (9.52) | 1/4" (6.35) / 3/8" (9.52) |

silent
air
23 dB
SUPER QUIET

| FLOOR CONSOLE | | | 2.8 kW | 3.2 kW | 5 kW |
|-----------------------------------|--------------------------|-----------------|-----------------------------|-----------------------------|-----------------------------|
| Indoor | | | CS-E9GFEW | CS-E12GFEW | CS-E18GFEW ¹ |
| Cooling capacity | Nominal | kW / kCat/h | 2.80 / 2,410 | 3.20 / 2,750 | 5.00 / 4,300 |
| Heating capacity | Nominal | kW / kCat/h | 4.00 / 3,440 | 4.50 / 3,870 | 6.80 / 5,850 |
| Connection | | mm ² | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Sound pressure level ² | Cool — Heat (Hi/Lo/S-Lo) | dB(A) | 38 / 27 / 23 — 38 / 27 / 23 | 39 / 28 / 24 — 39 / 27 / 23 | 44 / 36 / 32 — 46 / 36 / 32 |
| Sound power level | Cooling / Heating (Hi) | dB | 54 / 54 | 55 / 55 | 60 / 62 |
| Dimensions | H x W x D | mm | 600 x 700 x 210 | 600 x 700 x 210 | 600 x 700 x 210 |
| Net weight | | Kg | 14 | 14 | 14 |
| 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) |

CZ-SA14P
OPTIONALprevention
allergy
filter
ANTI-BACTERIAL
FILTER

| FLOOR/CEILING CONSOLE | | | 2.8 kW | 4 kW | 5 kW |
|-----------------------------------|--------------------------|-------------|-----------------------------|-----------------------------|-----------------------------|
| Indoor | | | CS-ME10DTEG | CS-E15DTEW ¹ | CS-E18DTEW ¹ |
| Cooling capacity | Nominal | kW / kCat/h | 2.80 / 2,408 | 4.15 / 3,570 | 5.00 / 4,300 |
| Heating capacity | Nominal | kW / kCat/h | 4.00 / 3,440 | 5.17 / 4,450 | 6.80 / 5,850 |
| Sound pressure level ² | Cool — Heat (Hi/Lo/S-Lo) | dB(A) | 39 / 31 / 28 — 40 / 31 / 28 | 45 / 37 / 34 — 45 / 33 / 30 | 46 / 39 / 36 — 47 / 35 / 32 |
| Dimensions / Net weight | H x W x D | mm | 540 x 1,028 x 200 / 17 | 540 x 1,028 x 200 / 17 | 540 x 1,028 x 200 / 18 |
| Piping connections | Liquid / 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) |

OUTDOOR UNITS FOR FREE MULTI COMBINATIONS



| OUTDOOR UNIT //INVERTER+ | | | 4.0 to 5.6 kW | 4.0 to 6.4 kW | 4.5 to 9.0 kW | 4.5 to 11.0 kW | 4.5 to 13.6 kW | 1.6 to 14.5 kW |
|--|-----------------------------|---------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|-----------------------------|
| Unit | | | CU-2E15LBE | CU-2E18LBE | CU-3E18LBE | CU-4E23LBE | CU-4E27CBPG | CU-5E34NBE* |
| Cooling capacity | Nominal (Min - Max) | kW | 4.50 (1.50-5.20) | 5.20 (1.50-5.40) | 5.20 (1.80-7.30) | 6.80 (1.90-8.80) | 8.00 (3.00-9.20) | 10.00 (1.6 - 11.5) |
| | Nominal | Energy Saving | 3.66 A | 3.42 A | 4.33 A | 4.05 A | 4.04 A | 3.50 A |
| Power input Cooling | Nominal (Min - Max) | kW | 1.23 (0.25-1.52) | 1.52 (0.25-1.58) | 1.21 (0.36-2.18) | 1.68 (0.34-2.47) | 1.98 (0.53-2.87) | 2.86 |
| Heating capacity | Nominal (Min - Max) | kW | 5.40 (1.10-7.00) | 5.60 (1.10-7.20) | 6.80 (1.60-8.30) | 8.60 (3.00-10.60) | 9.40 (4.20-10.60) | 12.00 (1.6 - 14.5) |
| | Nominal | Energy Saving | 4.62 A | 4.63 A | 4.86 A | 4.65 A | 4.52 A | 4.20 A |
| Power input Heating | Nominal (Min - Max) | kW | 1.17 (0.21-1.67) | 1.21 (0.21-1.70) | 1.44 (0.32-2.11) | 1.85 (0.58-2.60) | 2.08 (0.70-3.06) | 2.86 |
| Current | Cooling / Heating Nominal | A | 5.75 / 5.20 | 7.10 / 5.35 | 5.30 / 6.50 | 7.50 / 8.60 | 8.70 / 9.10 | 12.6 |
| Power source | | V | 230 | 230 | 230 | 230 | 230 | 220 - 240 |
| Sound pressure level ² | Cooling / Heating (Hi) | dB(A) | 47 / 49 | 49 / 51 | 46 / 47 | 48 / 49 | 48 / 49 | 47 / 47 (Quiet mode) |
| Sound power level | Cooling / Heating (Hi) | dB | 62 / 64 | 64 / 66 | 60 / 61 | 62 / 63 | 61 / 62 | 50 / 53 |
| Dimensions | H x W x D | mm | 540 x 780 (+70) x 289 | 540 x 780 (+70) x 289 | 795 x 875 (+95) x 320 | 795 x 875 (+95) x 320 | 908 x 900 x 320 | 910 x 940 x 340 |
| Net weight | | Kg | 38 | 38 | 71 | 72 | 73 | 82 |
| 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) |
| | 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)x3 + 1/2 (12.7)x2 |
| Refrigerant Loading | R410A | Kg | 1.45 | 1.45 | 2.64 | 2.64 | 3.10 | 4.10 |
| Elevation difference (in/out) | Max | m | 10 | 10 | 15 | 15 | 15 | 15 |
| Piping length total | Max | m | 30 | 30 | 50 | 60 | 70 | 80 |
| Piping length to one unit | Min / Max | m | 3-20 | 3-20 | 3-25 | 3-25 | 3-25 | 3-30 |
| Piping length without refrigerant increase | | m (Max) | 20 | 20 | 30 | 30 | 30 | 45 |
| Additional gas | | g/m | 20 | 20 | 20 | 20 | 20 | |
| Operating range | Cooling — Heating Min / Max | °C | 16 / 43 — -10 / 24 | 16 / 43 — -10 / 24 | -10 / 46 — -15 / 24 | -10 / 46 — -15 / 24 | 16 / 43 — -10 / 24 | -10 / 43 — -15 / 18 |

* Only for 5x1 combinations.

A class
energy
saving
INVERTER+down to
-15°C
in
heating mode
OUTDOOR
TEMPERATURE

FREE MULTI COMBINATIONS

| FREE MULTI 2X1 // OUTDOOR UNIT CU-2E15LBE | | | | | | | | | | | | | | | |
|---|-----------------------|--------|-------------------|------------------------|---------|------------|-------------------|-------------------------------|-----------------------|--------|-------------------|------------------------|---------|------------|-------------------|
| Indoor unit capacity | Cooling Capacity (kW) | | | Input Power (W) Rating | EER W/W | A.C.E. kWh | Current 230 V (A) | Moisture Removal Volume (l/h) | Heating Capacity (kW) | | | Input Power (W) Rating | COP W/W | A.C.E. kWh | Current 230 V (A) |
| | Room A | Room B | Total (Min.-Max.) | | | | | | Room A | Room B | Total (Min.-Max.) | | | | |
| 1 Room | | | | | | | | | | | | | | | |
| 7 | 2.00 | | 2.00 (1.10-2.90) | 520 (220-750) | 3.85 A | 260 | 2.45 | 1.3 | 3.20 | | 3.20 (0.70-4.80) | 850 (170-1410) | 3.76 A | 425 | 3.75 |
| 9 ¹ | 2.50 | | 2.50 (1.10-3.50) | 670 (220-1000) | 3.73 A | 335 | 3.15 | 1.5 | 3.60 | | 3.60 (0.70-5.50) | 1030 (170-1700) | 3.50 B | 515 | 4.55 |
| 10 ² | 2.80 | | 2.80 (1.10-3.50) | 750 (220-1000) | 3.73 A | 375 | 3.50 | 1.6 | 4.00 | | 4.00 (0.70-5.50) | 1150 (170-1700) | 3.48 B | 575 | 5.10 |
| 12 | 3.20 | | 3.20 (1.10-4.00) | 920 (220-1220) | 3.48 A | 460 | 4.30 | 1.8 | 4.50 | | 4.50 (0.70-6.20) | 1250 (170-1810) | 3.60 B | 625 | 5.55 |
| 2 Room | | | | | | | | | | | | | | | |
| 7 + 7 | 2.00 | 2.00 | 4.00 (1.50-5.00) | 1090 (250-1350) | 3.66 A | 545 | 5.10 | 1.3 + 1.3 | 2.70 | 2.70 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |
| 7 + 9 ¹ | 2.00 | 2.50 | 4.50 (1.50-5.20) | 1230 (250-1520) | 3.66 A | 615 | 5.75 | 1.3 + 1.5 | 2.40 | 3.00 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |
| 7 + 10 ² | 1.85 | 2.65 | 4.50 (1.50-5.20) | 1230 (250-1520) | 3.66 A | 615 | 5.75 | 1.2 + 1.6 | 2.25 | 3.15 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |
| 7 + 12 | 1.75 | 2.75 | 4.50 (1.50-5.20) | 1230 (250-1520) | 3.66 A | 615 | 5.75 | 1.1 + 1.6 | 2.10 | 3.30 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |
| 9 ¹ + 9 ¹ | 2.25 | 2.25 | 4.50 (1.50-5.20) | 1310 (250-1520) | 3.66 A | 655 | 6.10 | 1.5 + 1.5 | 2.70 | 2.70 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |
| 9 ¹ + 10 ² | 2.10 | 2.40 | 4.50 (1.50-5.20) | 1230 (250-1520) | 3.66 A | 615 | 5.75 | 1.4 + 1.5 | 2.55 | 2.85 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |
| 10 ² + 10 ² | 2.25 | 2.25 | 4.50 (1.50-5.20) | 1230 (250-1520) | 3.66 A | 615 | 5.75 | 1.5 + 1.5 | 2.70 | 2.70 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |

| FREE MULTI 2X1 // OUTDOOR UNIT CU-2E18LBE | | | | | | | | | | | | | | | |
|---|-----------------------|--------|-------------------|------------------------|---------|------------|-------------------|-------------------------------|-----------------------|--------|-------------------|------------------------|---------|------------|-------------------|
| Indoor unit capacity | Cooling Capacity (kW) | | | Input Power (W) Rating | EER W/W | A.C.E. kWh | Current 230 V (A) | Moisture Removal Volume (l/h) | Heating Capacity (kW) | | | Input Power (W) Rating | COP W/W | A.C.E. kWh | Current 230 V (A) |
| | Room A | Room B | Total (Min.-Max.) | | | | | | Room A | Room B | Total (Min.-Max.) | | | | |
| 1 Room | | | | | | | | | | | | | | | |
| 7 | 2.00 | | 2.00 (1.10-2.90) | 520 (220-750) | 3.85 A | 260 | 2.45 | 1.3 | 3.20 | | 3.20 (0.70-4.80) | 850 (170-1410) | 3.76 A | 425 | 3.75 |
| 9 ¹ | 2.50 | | 2.50 (1.10-3.50) | 670 (220-1000) | 3.73 A | 335 | 3.15 | 1.5 | 3.60 | | 3.60 (0.70-5.50) | 1030 (170-1700) | 3.50 B | 515 | 4.55 |
| 10 ² | 2.80 | | 2.80 (1.10-3.50) | 750 (220-1000) | 3.73 A | 375 | 3.50 | 1.6 | 4.00 | | 4.00 (0.70-5.50) | 1150 (170-1700) | 3.48 B | 575 | 5.10 |
| 12 | 3.20 | | 3.20 (1.10-4.00) | 920 (220-1220) | 3.48 A | 460 | 4.30 | 1.8 | 4.50 | | 4.50 (0.70-6.20) | 1250 (170-1810) | 3.60 B | 625 | 5.55 |
| 2 Rooms | | | | | | | | | | | | | | | |
| 7 + 7 | 2.00 | 2.00 | 4.00 (1.50-5.00) | 1090 (250-1350) | 3.66 A | 545 | 5.10 | 1.3 + 1.3 | 2.70 | 2.70 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |
| 7 + 9 ¹ | 2.00 | 2.50 | 4.50 (1.50-5.20) | 1230 (250-1520) | 3.66 A | 615 | 5.75 | 1.3 + 1.5 | 2.40 | 3.00 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |
| 7 + 10 ² | 1.85 | 2.65 | 4.50 (1.50-5.20) | 1230 (250-1520) | 3.66 A | 615 | 5.75 | 1.2 + 1.6 | 2.25 | 3.15 | 5.40 (1.10-7.00) | 1170 (210-1670) | 4.62 A | 585 | 5.20 |
| 7 + 12 | 1.85 | 2.95 | 4.80 (1.50-5.30) | 1310 (250-1540) | 3.66 A | 655 | 6.10 | 1.2 + 1.7 | 2.15 | 3.45 | 5.60 (1.10-7.20) | 1230 (210-1720) | 4.55 A | 615 | 5.45 |
| 9 ¹ + 9 ¹ | 2.40 | 2.40 | 4.80 (1.50-5.20) | 1310 (250-1520) | 3.66 A | 655 | 6.10 | 1.5 + 1.5 | 2.80 | 2.80 | 5.60 (1.10-7.20) | 1250 (210-1740) | 4.48 A | 625 | 5.55 |
| 9 ¹ + 10 ² | 2.25 | 2.55 | 4.80 (1.50-5.20) | 1310 (250-1520) | 3.66 A | 655 | 6.10 | 1.5 + 1.6 | 2.65 | 2.95 | 5.60 (1.10-7.20) | 1250 (210-1740) | 4.48 A | 625 | 5.55 |
| 9 ¹ + 12 | 2.20 | 2.80 | 5.00 (1.50-5.30) | 1490 (250-1540) | 3.66 A | 745 | 6.95 | 1.4 + 1.6 | 2.45 | 3.15 | 5.60 (1.10-7.20) | 1230 (210-1720) | 4.55 A | 615 | 5.45 |
| 10 ² + 10 ² | 2.40 | 2.40 | 4.80 (1.50-5.20) | 1310 (250-1520) | 3.66 A | 655 | 6.10 | 1.5 + 1.5 | 2.80 | 2.80 | 5.60 (1.10-7.20) | 1250 (210-1740) | 4.48 A | 625 | 5.55 |
| 10 ² + 12 | 2.35 | 2.65 | 5.00 (1.50-5.30) | 1490 (250-1540) | 3.36 A | 745 | 6.95 | 1.5 + 1.6 | 2.60 | 3.00 | 5.60 (1.10-7.20) | 1230 (210-1720) | 4.55 A | 615 | 5.45 |
| 12 + 12 | 2.60 | 2.60 | 5.20 (1.50-5.40) | 1520 (250-1580) | 3.42 A | 760 | 7.10 | 1.6 + 1.6 | 2.80 | 2.80 | 5.60 (1.10-7.20) | 1210 (210-1700) | 4.63 A | 605 | 5.35 |

| FREE MULTI 3X1 // OUTDOOR UNIT CU-3E18LBE | | | | | | | | | | | | | | | | | |
|---|-----------------------|--------|--------|-------------------|------------------------|---------|------------|-------------------|-------------------------------|-----------------------|--------|------------------|-------------------|------------------------|---------|------------|-------------------|
| Indoor unit capacity | Cooling Capacity (kW) | | | | Input Power (W) Rating | EER W/W | A.C.E. kWh | Current 230 V (A) | Moisture Removal Volume (l/h) | Heating Capacity (kW) | | | | Input Power (W) Rating | COP W/W | A.C.E. kWh | Current 230 V (A) |
| | Room A | Room B | Room C | Total (Min.-Max.) | | | | | | Room A | Room B | Room C | Total (Min.-Max.) | | | | |
| 1 Room | | | | | | | | | | | | | | | | | |
| 7 | 2.00 | | | 2.00 (1.80-2.90) | 500 (340-810) | 4.00 A | 250 | 2.5 | 1.3 | 3.20 | | 3.20 (1.20-4.10) | 740 (300-1230) | 4.32 A | 370 | 3.7 | |
| 9 ¹ | 2.50 | | | 2.50 (1.80-2.90) | 630 (340-810) | 4.00 A | 315 | 3.0 | 1.5 | 3.60 | | 3.60 (1.20-4.30) | 940 (300-1230) | 3.83 A | 470 | 4.5 | |
| 10 ² | 2.80 | | | 2.80 (1.80-2.90) | 700 (340-810) | 4.00 A | 350 | 3.3 | 1.6 | 4.00 | | 4.00 (1.20-4.30) | 1050 (300-1230) | 3.81 A | 525 | 5.0 | |
| 12 | 3.20 | | | 3.20 (1.80-3.80) | 800 (340-1360) | 4.00 A | 400 | 3.7 | 1.8 | 4.50 | | 4.50 (1.20-5.80) | 1230 (300-2100) | 3.66 A | 615 | 5.8 | |
| 15 | 4.00 | | | 4.00 (1.80-4.30) | 1240 (340-1990) | 3.23 A | 620 | 5.6 | 2.3 | 5.60 | | 5.60 (1.20-6.80) | 1720 (300-2900) | 3.26 C | 860 | 7.7 | |
| 18 | 5.00 | | | 5.00 (1.90-5.70) | 1550 (340-2130) | 3.23 A | 775 | 6.8 | 2.7 | 6.80 | | 6.80 (1.20-6.90) | 2100 (300-2520) | 3.24 C | 1050 | 9.2 | |
| 2 Rooms | | | | | | | | | | | | | | | | | |
| 7 + 7 | 2.00 | 2.00 | | 4.00 (1.90-6.20) | 1010 (350-2100) | 3.96 A | 505 | 4.5 | 1.3 + 1.3 | 2.90 | 2.90 | 5.80 (1.40-7.00) | 1450 (310-2550) | 4.00 A | 725 | 6.4 | |
| 7 + 9 ¹ | 2.00 | 2.50 | | 4.50 (1.90-6.20) | 1270 (350-2100) | 3.55 A | 635 | 5.6 | 1.3 + 1.5 | 2.84 | 3.56 | 6.40 (1.40-7.00) | 1720 (310-2550) | 3.72 A | 860 | 7.6 | |
| 7 + 10 ² | 2.00 | 2.80 | | 4.80 (1.90-6.20) | 1350 (350-2100) | 3.55 A | 675 | 6.0 | 1.3 + 1.6 | 2.67 | 3.73 | 6.40 (1.40-7.00) | 1720 (310-2550) | 3.72 A | 860 | 7.6 | |
| 7 + 12 | 2.00 | 3.20 | | 5.20 (1.90-6.30) | 1490 (350-2110) | 3.49 A | 745 | 6.6 | 1.3 + 1.8 | 2.62 | 4.18 | 6.80 (1.40-7.30) | 1840 (310-2520) | 3.70 A | 920 | 8.2 | |
| 7 + 15 | 1.73 | 3.47 | | 5.20 (1.90-6.40) | 1450 (350-2110) | 3.59 A | 725 | 6.4 | 1.1 + 2.0 | 2.27 | 4.53 | 6.80 (1.40-7.30) | 1800 (310-2510) | 3.78 A | 900 | 7.9 | |
| 7 + 18 | 1.49 | 3.71 | | 5.20 (1.90-6.80) | 1290 (360-2150) | 4.03 A | 645 | 5.7 | 0.9 + 2.2 | 1.94 | 4.86 | 6.80 (1.40-8.00) | 1520 (310-2200) | 4.47 A | 760 | 6.7 | |
| 9 ¹ + 9 ¹ | 2.50 | 2.50 | | 5.00 (1.90-6.20) | 1540 (350-2100) | 3.25 A | 770 | 6.8 | 1.5 + 1.5 | 3.40 | 3.40 | 6.80 (1.40-7.00) | 1930 (310-2550) | 3.52 B | 965 | 8.5 | |
| 9 ¹ + 10 ² | 2.45 | 2.75 | | 5.20 (1.90-6.20) | 1540 (350-2100) | 3.38 A | 770 | 6.8 | 1.5 + 1.6 | 3.21 | 3.59 | 6.80 (1.40-7.00) | 1930 (310-2550) | 3.52 B | 965 | 8.5 | |
| 9 ¹ + 12 | 2.28 | 2.92 | | 5.20 (1.90-6.30) | 1480 (350-2110) | 3.51 A | 740 | 6.5 | 1.5 + 1.7 | 2.98 | 3.82 | 6.80 (1.40-7.30) | 1840 (310-2520) | 3.70 A | 920 | 8.1 | |
| 9 ¹ + 15 | 2.00 | 3.20 | | 5.20 (1.90-6.40) | 1440 (350-2110) | 3.61 A | 720 | 6.4 | 1.3 + 1.8 | 2.62 | 4.18 | 6.80 (1.40-7.30) | 1800 (310-2510) | 3.78 A | 900 | 8.0 | |
| 9 ¹ + 18 | 1.73 | 3.47 | | 5.20 (1.90-6.80) | 1290 (360-2150) | 4.03 A | 645 | 5.7 | 1.1 + 2.0 | 2.27 | 4.53 | 6.80 (1.40-8.00) | 1520 (310-2200) | 4.47 A | 760 | 6.7 | |
| 10 ² + 10 ² | 2.60 | 2.60 | | 5.20 (1.90-6.20) | 1540 (350-2100) | 3.38 A | 770 | 6.8 | 1.6 + 1.6 | 3.40 | 3.40 | 6.80 (1.40-7.00) | 1930 (310-2550) | 3.52 B | 965 | 8.5 | |
| 10 ² + 12 | 2.43 | 2.77 | | 5.20 (1.90-6.30) | 1480 (350-2110) | 3.51 A | 740 | 6.5 | 1.5 + 1.6 | 3.17 | 3.63 | 6.80 (1.40-7.30) | 1840 (310-2510) | 3.70 A | 920 | 8.1 | |
| 10 ² + 15 | 2.14 | 3.06 | | 5.20 (1.90-6.40) | 1440 (350-2110) | 3.61 A | 720 | 6.4 | 1.4 + 1.7 | 2.80 | 4.00 | 6.80 (1.40-7.30) | 1800 (310-2510) | 3.78 A | 900 | 8.0 | |
| 10 ² + 18 | 1.87 | 3.33 | | 5.20 (1.90-6.80) | 1290 (360-2150) | 4.03 A | 645 | 5.7 | 1.2 + 1.9 | 2.44 | 4.36 | 6.80 (1.40-8.00) | 1520 (310-2200) | 4.47 A | 760 | 6.7 | |
| 12 + 12 | 2.60 | 2.60 | | 5.20 (1.90-6.40) | 1450 (350-2120) | 3.59 A | 725 | 6.4 | 1.6 + 1.6 | 3.40 | 3.40 | 6.80 (1.40-7.50) | 1750 (310-2490) | 3.89 A | 875 | 7.7 | |
| 12 + 15 | 2.31 | 2.89 | | 5.20 (1.90-6.50) | 1410 (350-2120) | 3.69 A | 705 | 6.3 | 1.5 + 1.7 | 3.02 | 3.78 | 6.80 (1.40-7.50) | 1750 (310-2490) | 3.89 A | 875 | 7.8 | |
| 12 + 18 | 2.03 | 3.17 | | 5.20 (1.90-6.90) | 1250 (360-2150) | 4.16 A | 625 | 5.5 | 1.3 + 1.8 | 2.65 | 4.15 | 6.80 (1.40-8.00) | 1500 (310-2180) | 4.53 A | 750 | 6.6 | |
| 15 + 15 | 2.60 | 2.60 | | 5.20 (1.90-6.50) | 1410 (350-2120) | 3.69 A | 705 | 6.2 | 1.6 + 1.6 | 3.40 | 3.40 | 6.80 (1.40-7.50) | 1710 (310-2470) | 3.98 A | 855 | 7.5 | |
| 15 + 18 | 2.31 | 2.89 | | 5.20 (1.90-6.90) | 1250 (360-2160) | 4.16 A | 625 | 5.5 | 1.5 + 1.7 | 3.02 | 3.78 | 6.80 (1.40-8.00) | 1500 (310-2170) | 4.53 A | 750 | 6.6 | |
| 3 Rooms | | | | | | | | | | | | | | | | | |
| 7 + 7 + 7 | 1.73 | 1.73 | 1.73 | 5.19 (1.90-7.20) | 1220 (360-2170) | 4.25 A | 610 | 5.3 | 1.1 + 1.1 + 1.1 | 2.26 | 2.26 | 2.26 | 6.78 (1.50-8.10) | 1510 (320-2120) | 4.49 A | 755 | 6.7 |
| 7 + 7 + 9 ¹ | 1.60 | 1.60 | 2.00 | 5.20 (1.90-7.20) | 1220 (360-2170) | 4.26 A | 610 | 5.3 | 1.0 + 1.0 + 1.3 | | | | | | | | |

FREE MULTI 4X1 // OUTDOOR UNIT CU-4E23LBE

| Indoor unit capacity | Cooling Capacity (kW) | | | | Room D | Total (Min.-Max.) | Input Power (W) | | EER | A.C.E. | Current | Moisture Removal | Heating Capacity (kW) | | | | Input Power (W) | COP | A.C.E. | Current | |
|---------------------------------------|-----------------------|--------|--------|--------|--------|-------------------|-----------------|--------|------|--------|-------------|------------------|-----------------------|-----------|--------------|--------|-----------------|-----|--------|---------|--------|
| | Room A | Room B | Room C | Room D | | | Rating | W/W | | | | | kWh | 230 V (A) | Volume (l/h) | Room A | | | | | Room B |
| 1 Room | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2.00 | | | | | 2.00 (1.80-2.90) | 500 (340-810) | 4.00 A | 250 | 2.5 | 1.3 | | | | 3.20 | | | | | | |
| 9 ¹ | 2.50 | | | | | 2.50 (1.80-2.90) | 630 (340-810) | 4.00 A | 315 | 3.2 | 1.5 | | | | 3.60 | | | | | | |
| 10 ² | 2.80 | | | | | 2.80 (1.80-2.90) | 700 (340-810) | 4.00 A | 350 | 3.5 | 1.6 | | | | 4.00 | | | | | | |
| 12 | 3.20 | | | | | 3.20 (1.80-3.80) | 800 (340-1360) | 4.00 A | 400 | 3.9 | 1.8 | | | | 4.50 | | | | | | |
| 15 | 4.00 | | | | | 4.00 (1.80-4.30) | 1240 (340-1990) | 3.23 A | 620 | 5.8 | 2.3 | | | | 5.60 | | | | | | |
| 18 | 5.00 | | | | | 5.00 (1.90-5.70) | 1550 (340-2130) | 3.23 A | 775 | 7.2 | 2.7 | | | | 6.80 | | | | | | |
| 21 | 6.00 | | | | | 6.00 (1.90-6.20) | 2030 (340-2330) | 2.96 C | 1015 | 9.2 | 3.3 | | | | 8.50 | | | | | | |
| 2 Room | | | | | | | | | | | | | | | | | | | | | |
| 7 + 7 | 2.00 | 2.00 | | | | 4.00 (1.90-6.40) | 1010 (340-2150) | 3.96 A | 505 | 4.5 | 1.3+1.3 | | | | 2.90 | 2.90 | | | | | |
| 7 + 9 ¹ | 2.00 | 2.50 | | | | 4.50 (1.90-6.40) | 1270 (340-2150) | 3.55 A | 635 | 5.7 | 1.3+1.5 | | | | 2.71 | 3.39 | | | | | |
| 7 + 10 ² | 2.00 | 2.80 | | | | 4.80 (1.90-6.40) | 1350 (340-2150) | 3.55 A | 675 | 6.1 | 1.3+1.6 | | | | 2.67 | 3.73 | | | | | |
| 7 + 12 | 2.00 | 3.20 | | | | 5.20 (1.90-6.90) | 1510 (340-2410) | 3.44 A | 755 | 6.8 | 1.3+1.8 | | | | 2.69 | 4.31 | | | | | |
| 7 + 15 | 2.00 | 4.00 | | | | 6.00 (1.90-6.90) | 1810 (330-2410) | 3.32 A | 905 | 8.1 | 1.3+2.3 | | | | 2.73 | 5.47 | | | | | |
| 7 + 18 | 1.94 | 4.86 | | | | 6.80 (2.00-7.50) | 1800 (320-2440) | 3.78 A | 900 | 8.1 | 1.3+2.6 | | | | 2.46 | 6.14 | | | | | |
| 7 + 21 | 1.70 | 5.10 | | | | 6.80 (2.00-7.50) | 1800 (320-2440) | 3.78 A | 900 | 8.1 | 1.1+2.8 | | | | 2.15 | 6.45 | | | | | |
| 9 ¹ + 9 ¹ | 2.50 | 2.50 | | | | 5.00 (1.90-6.80) | 1380 (340-2400) | 3.61 A | 690 | 6.2 | 1.5+1.5 | | | | 3.20 | 3.20 | | | | | |
| 9 ¹ + 10 ² | 2.50 | 2.80 | | | | 5.30 (1.90-6.80) | 1470 (340-2400) | 3.61 A | 735 | 6.6 | 1.5+1.6 | | | | 3.30 | 3.70 | | | | | |
| 9 ¹ + 12 | 2.50 | 3.20 | | | | 5.70 (1.90-6.90) | 1660 (340-2410) | 3.43 A | 830 | 7.4 | 1.5+1.8 | | | | 3.55 | 4.55 | | | | | |
| 9 ¹ + 15 | 2.50 | 4.00 | | | | 6.50 (1.90-6.90) | 2070 (330-2410) | 3.13 B | 1035 | 9.2 | 1.5+2.3 | | | | 3.31 | 5.29 | | | | | |
| 9 ¹ + 18 | 2.27 | 4.53 | | | | 6.80 (1.90-6.90) | 1970 (320-2440) | 3.45 A | 985 | 8.8 | 1.5+2.5 | | | | 2.87 | 5.73 | | | | | |
| 9 ¹ + 21 | 2.00 | 4.80 | | | | 6.80 (1.90-6.90) | 1970 (320-2440) | 3.45 A | 985 | 8.8 | 1.3+2.6 | | | | 2.53 | 6.07 | | | | | |
| 10 ² + 10 ² | 2.80 | 2.80 | | | | 5.60 (1.90-6.80) | 1550 (340-2400) | 3.61 A | 775 | 6.9 | 1.6+1.6 | | | | 4.00 | 4.00 | | | | | |
| 10 ² + 12 | 2.80 | 3.20 | | | | 6.00 (1.90-6.90) | 1750 (340-2410) | 3.43 A | 875 | 7.8 | 1.6+1.8 | | | | 3.97 | 4.53 | | | | | |
| 10 ² + 15 | 2.80 | 4.00 | | | | 6.80 (1.90-6.90) | 2170 (330-2410) | 3.13 B | 1085 | 9.7 | 1.6+2.3 | | | | 3.54 | 5.06 | | | | | |
| 10 ² + 18 | 2.44 | 4.36 | | | | 6.80 (1.90-6.90) | 1970 (320-2440) | 3.45 A | 985 | 8.8 | 1.5+2.4 | | | | 3.09 | 5.51 | | | | | |
| 10 ² + 21 | 2.16 | 4.64 | | | | 6.80 (1.90-6.90) | 1970 (320-2440) | 3.45 A | 985 | 8.8 | 1.4+2.5 | | | | 2.74 | 5.86 | | | | | |
| 12 + 12 | 3.20 | 3.20 | | | | 6.40 (1.90-7.00) | 1960 (330-2420) | 3.27 A | 980 | 8.8 | 1.8+1.8 | | | | 4.30 | 4.30 | | | | | |
| 12 + 15 | 3.02 | 3.78 | | | | 6.80 (1.90-7.10) | 2070 (330-2420) | 3.29 A | 1035 | 9.5 | 1.7+2.2 | | | | 3.82 | 4.78 | | | | | |
| 12 + 18 | 2.65 | 4.15 | | | | 6.80 (2.00-7.60) | 1890 (320-2450) | 3.60 A | 945 | 8.5 | 1.6+2.4 | | | | 3.36 | 5.24 | | | | | |
| 12 + 21 | 2.37 | 4.43 | | | | 6.80 (2.00-7.60) | 1890 (320-2450) | 3.60 A | 945 | 8.5 | 1.5+2.5 | | | | 2.99 | 5.61 | | | | | |
| 15 + 15 | 3.40 | 3.40 | | | | 6.80 (1.90-7.10) | 2270 (330-2420) | 3.00 C | 1135 | 10.2 | 1.9+1.9 | | | | 4.30 | 4.30 | | | | | |
| 15 + 18 | 3.02 | 3.78 | | | | 6.80 (2.00-7.60) | 1890 (320-2450) | 3.60 A | 945 | 8.5 | 1.7+2.2 | | | | 3.82 | 4.78 | | | | | |
| 15 + 21 | 2.72 | 4.08 | | | | 6.80 (2.00-7.60) | 1890 (320-2450) | 3.60 A | 945 | 8.5 | 1.6+2.3 | | | | 3.44 | 5.16 | | | | | |
| 18 + 18 | 3.40 | 3.40 | | | | 6.80 (2.10-8.10) | 1780 (310-2460) | 3.82 A | 890 | 8.0 | 1.9+1.9 | | | | 4.30 | 4.30 | | | | | |
| 18 + 21 | 3.09 | 3.71 | | | | 6.80 (2.10-8.10) | 1780 (310-2460) | 3.82 A | 890 | 8.0 | 1.7+2.2 | | | | 3.91 | 4.69 | | | | | |
| 3 Room | | | | | | | | | | | | | | | | | | | | | |
| 7 + 7 + 7 | 2.00 | 2.00 | 2.00 | | | 6.00 (1.90-8.00) | 1650 (340-2460) | 3.63 A | 825 | 7.4 | 1.3+1.3+1.3 | | | | 2.86 | 2.86 | 2.86 | | | | |
| 7 + 7 + 9 ¹ | 2.00 | 2.00 | 2.50 | | | 6.50 (1.90-8.00) | 1830 (340-2460) | 3.56 A | 915 | 8.2 | 1.3+1.3+1.5 | | | | 2.65 | 2.65 | 3.30 | | | | |
| 7 + 7 + 10 ² | 2.00 | 2.00 | 2.80 | | | 6.80 (1.90-8.00) | 1910 (340-2460) | 3.56 A | 955 | 8.6 | 1.3+1.3+1.6 | | | | 2.53 | 2.53 | 3.50 | | | | |
| 7 + 7 + 12 | 1.89 | 1.89 | 3.02 | | | 6.80 (1.90-8.00) | 1910 (340-2460) | 3.56 A | 955 | 8.6 | 1.2+1.2+1.7 | | | | 2.39 | 2.39 | 3.82 | | | | |
| 7 + 7 + 15 | 1.70 | 1.70 | 3.40 | | | 6.80 (1.90-8.10) | 1860 (340-2460) | 3.66 A | 930 | 8.3 | 1.1+1.1+1.9 | | | | 2.15 | 2.15 | 4.02 | | | | |
| 7 + 7 + 18 | 1.51 | 1.51 | 3.78 | | | 6.80 (2.00-8.50) | 1730 (340-2460) | 3.93 A | 865 | 7.8 | 1.0+1.0+2.2 | | | | 1.91 | 1.91 | 4.78 | | | | |
| 7 + 7 + 21 | 1.36 | 1.36 | 4.08 | | | 6.80 (2.00-8.50) | 1730 (340-2460) | 3.93 A | 865 | 7.8 | 0.9+0.9+2.3 | | | | 1.72 | 1.72 | 5.16 | | | | |
| 7 + 9 ¹ + 9 ¹ | 1.94 | 2.43 | 2.43 | | | 6.80 (1.90-8.00) | 1910 (340-2460) | 3.56 A | 955 | 8.6 | 1.3+1.5+1.5 | | | | 2.46 | 3.07 | 3.07 | | | | |
| 7 + 9 ¹ + 10 ² | 1.86 | 2.33 | 2.61 | | | 6.80 (1.90-8.00) | 1910 (340-2460) | 3.56 A | 955 | 8.6 | 1.2+1.5+1.6 | | | | 2.35 | 2.95 | 3.30 | | | | |
| 7 + 9 ¹ + 12 | 1.76 | 2.21 | 2.83 | | | 6.80 (1.90-8.00) | 1910 (340-2460) | 3.56 A | 955 | 8.6 | 1.1+1.4+1.7 | | | | 2.23 | 2.79 | 3.58 | | | | |
| 7 + 9 ¹ + 15 | 1.60 | 2.00 | 3.20 | | | 6.80 (1.90-8.10) | 1860 (340-2460) | 3.66 A | 930 | 8.3 | 1.0+1.3+1.8 | | | | 2.02 | 2.53 | 4.05 | | | | |
| 7 + 9 ¹ + 18 | 1.43 | 1.79 | 3.58 | | | 6.80 (2.00-8.50) | 1730 (340-2460) | 3.93 A | 865 | 7.8 | 0.9+1.2+2.1 | | | | 1.81 | 2.26 | 4.53 | | | | |
| 7 + 9 ¹ + 21 | 1.29 | 1.62 | 3.89 | | | 6.80 (2.00-8.50) | 1730 (340-2460) | 3.93 A | 865 | 7.8 | 0.8+1.0+2.3 | | | | 1.64 | 2.05 | 4.91 | | | | |
| 7 + 10 ² + 10 ² | 1.78 | 2.51 | 2.51 | | | 6.80 (1.90-8.00) | 1910 (340-2460) | 3.56 A | 955 | 8.6 | 1.1+1.5+1.5 | | | | 2.62 | 3.17 | 3.17 | | | | |
| 7 + 10 ² + 12 | 1.70 | 2.38 | 2.72 | | | 6.80 (1.90-8.00) | 1910 (340-2460) | 3.56 A | 955 | 8.6 | 1.1+1.5+1.6 | | | | 2.15 | 3.01 | 3.44 | | | | |
| 7 + 10 ² + 15 | 1.55 | 2.16 | 3.09 | | | 6.80 (1.90-8.10) | 1860 (340-2460) | 3.66 A | 930 | 8.3 | 1.0+1.4+1.7 | | | | 1.95 | 2.74 | 3.91 | | | | |
| 7 + 10 ² + 18 | 1.39 | 1.94 | 3.47 | | | 6.80 (2.00-8.50) | 1730 (340-2460) | 3.93 A | 865 | 7.8 | 0.9+1.3+2.0 | | | | 1.75 | 2.46 | 4.39 | | | | |
| 7 + 10 ² + 21 | 1.26 | 1.76 | 3.78 | | | 6.80 (2.00-8.50) | 1730 (340-2460) | 3.93 A | 865 | 7.8 | 0.8+1.1+2.2 | | | | 1.59 | 2.23 | 4.78 | | | | |
| 7 + 12 + 12 | 1.62 | 2.59 | 2.59 | | | 6.80 (1.90-8.10) | 1860 (340-2460) | 3.66 A | 930 | 8.3 | 1.0+1.6+1.6 | | | | 2.04 | 3.28 | 3.28 | | | | |
| 7 + 12 + 15 | 1.47 | 2.37 | 2.96 | | | 6.80 (1.90-8.20) | 1820 (340-2460) | 3.66 A | 930 | 8.3 | 0.9+1.5+1.7 | | | | 1.87 | 2.99 | 3.74 | | | | |
| 7 + 12 + 18 | 1.33 | 2.13 | 3.34 | | | 6.80 (2.00-8.50) | 1730 (340-2460) | 3.93 A | 865 | 7.8 | 0.8+1.4+1.9 | | | | 1.68 | 2.70 | 4.22 | | | | |
| 7 + 15 + 15 | 1.36 | 2.72 | 2.72 | | | 6.80 (1.90-8.20) | 1820 (340-2460) | 3.74 A | 910 | 8.2 | 0.9+1.6+1.6 | | | | 1.72 | 3.44 | 3.44 | | | | |
| 7 + 15 + 18 | 1.24 | 2.47 | 3.09 | | | 6.80 (2.00-8.50) | 1730 (340-2460) | 3.93 A | 865 | 7.8 | 0.8+1.5+1.7 | | | | 1.56 | 3 | | | | | |

FREE MULTI 4X1 // OUTDOOR UNIT CU-4E27CBPG (CONT.)

| Indoor unit capacity | Cooling Capacity (kW) | | | | | Input Power (W) Rating | EER W/W | A.C.E. kWh | Current 230 V (A) | Moisture Removal Volume (l/h) | Heating Capacity (kW) | | | | | Input Power (W) Rating | COP W/W | A.C.E. kWh | Current 230 V (A) |
|--|-----------------------|--------|--------|--------|-------------------|------------------------|---------|------------|-------------------|-------------------------------|-----------------------|--------|--------|-------------------|-------------------|------------------------|---------|------------|-------------------|
| | Room A | Room B | Room C | Room D | Total (Min.-Max.) | | | | | | Room A | Room B | Room C | Room D | Total (Min.-Max.) | | | | |
| 4 Room | | | | | | | | | | | | | | | | | | | |
| 7+7+7+7 | 2.00 | 2.00 | 2.00 | 2.00 | 8.00 (2.70-8.80) | 2150 (490-2840) | 3.72 A | 1075 | 9.50 | 1.3+1.3+1.3+1.3 | 2.35 | 2.35 | 2.35 | 2.35 | 9.40 (3.20-10.50) | 2080 (550-3140) | 4.52 A | 1040 | 9.15 |
| 7+7+7+9 ¹ | 1.90 | 1.90 | 1.90 | 2.30 | 8.00 (2.80-8.80) | 2140 (490-2880) | 3.74 A | 1070 | 9.40 | 1.2+1.2+1.2+1.5 | 2.20 | 2.20 | 2.80 | 9.40 (3.20-10.50) | 2060 (550-3120) | 4.56 A | 1030 | 9.05 | |
| 7+7+7+10 ² | 1.80 | 1.80 | 1.80 | 2.60 | 8.00 (2.80-8.80) | 2140 (490-2880) | 3.74 A | 1070 | 9.40 | 1.2+1.2+1.2+1.6 | 2.15 | 2.15 | 2.95 | 9.40 (3.20-10.50) | 2060 (550-3120) | 4.56 A | 1030 | 9.05 | |
| 7+7+7+12 | 1.75 | 1.75 | 1.75 | 2.75 | 8.00 (2.80-8.90) | 2130 (490-2880) | 3.76 A | 1065 | 9.40 | 1.1+1.1+1.1+1.6 | 2.05 | 2.05 | 3.25 | 9.40 (3.40-10.50) | 2120 (590-3180) | 4.43 A | 1060 | 9.30 | |
| 7+7+7+15 | 1.60 | 1.60 | 1.60 | 3.20 | 8.00 (2.80-8.90) | 2110 (490-2870) | 3.79 A | 1055 | 9.30 | 1.0+1.0+1.0+1.8 | 1.90 | 1.90 | 3.70 | 9.40 (3.80-10.50) | 2090 (600-3140) | 4.50 A | 1045 | 9.20 | |
| 7+7+7+18 | 1.45 | 1.45 | 1.45 | 3.65 | 8.00 (2.80-8.90) | 2110 (490-2840) | 3.79 A | 1055 | 9.30 | 0.9+0.9+0.9+2.1 | 1.70 | 1.70 | 4.30 | 9.40 (4.00-10.50) | 2120 (680-3110) | 4.43 A | 1060 | 9.30 | |
| 7+7+9 ¹ +9 ¹ | 1.80 | 1.80 | 2.20 | 2.20 | 8.00 (2.80-8.80) | 2130 (490-2870) | 3.76 A | 1065 | 9.40 | 1.2+1.2+1.4+1.4 | 2.10 | 2.10 | 2.60 | 9.40 (3.50-10.50) | 2050 (610-3110) | 4.59 A | 1025 | 9.05 | |
| 7+7+9 ¹ +10 ² | 1.70 | 1.70 | 2.15 | 2.45 | 8.00 (2.80-8.80) | 2130 (490-2870) | 3.76 A | 1065 | 9.40 | 1.1+1.1+1.4+1.5 | 2.00 | 2.00 | 2.55 | 9.40 (3.50-10.50) | 2050 (610-3110) | 4.59 A | 1025 | 9.05 | |
| 7+7+9 ¹ +12 | 1.65 | 1.65 | 2.05 | 2.65 | 8.00 (2.80-8.90) | 2120 (490-2870) | 3.77 A | 1060 | 9.30 | 1.1+1.1+1.3+1.6 | 1.95 | 1.95 | 2.40 | 9.40 (3.70-10.50) | 2100 (620-3160) | 4.48 A | 1050 | 9.20 | |
| 7+7+9 ¹ +15 | 1.50 | 1.50 | 1.90 | 3.10 | 8.00 (2.80-8.90) | 2090 (490-2840) | 3.83 A | 1045 | 9.20 | 1.0+1.0+1.2+1.7 | 1.80 | 1.80 | 2.20 | 9.40 (3.90-10.50) | 2070 (660-3110) | 4.54 A | 1035 | 9.10 | |
| 7+7+9 ¹ +18 | 1.40 | 1.40 | 1.70 | 3.50 | 8.00 (2.90-8.90) | 2110 (520-2880) | 3.79 A | 1055 | 9.30 | 0.9+0.9+1.1+2.0 | 1.65 | 1.65 | 2.00 | 9.40 (4.10-10.50) | 2090 (700-3110) | 4.50 A | 1045 | 9.20 | |
| 7+7+10 ² +10 ² | 1.65 | 1.65 | 2.35 | 2.35 | 8.00 (2.80-8.80) | 2130 (490-2870) | 3.76 A | 1065 | 9.40 | 1.1+1.1+1.5+1.5 | 1.95 | 1.95 | 2.75 | 9.40 (3.80-10.50) | 2050 (610-3110) | 4.59 A | 1025 | 9.05 | |
| 7+7+10 ² +12 | 1.60 | 1.60 | 2.25 | 2.55 | 8.00 (2.80-8.90) | 2120 (490-2870) | 3.77 A | 1060 | 9.30 | 1.0+1.0+1.5+1.6 | 1.90 | 1.90 | 2.60 | 9.40 (3.70-10.50) | 2100 (620-3160) | 4.48 A | 1050 | 9.20 | |
| 7+7+10 ² +15 | 1.50 | 1.50 | 2.05 | 2.95 | 8.00 (2.80-8.90) | 2090 (490-2840) | 3.83 A | 1045 | 9.20 | 1.0+1.0+1.3+1.7 | 1.75 | 1.75 | 2.40 | 9.40 (3.90-10.50) | 2070 (660-3110) | 4.54 A | 1035 | 9.10 | |
| 7+7+10 ² +18 | 1.35 | 1.35 | 1.90 | 3.40 | 8.00 (2.90-8.90) | 2110 (520-2880) | 3.79 A | 1055 | 9.30 | 0.9+0.9+1.2+1.9 | 1.60 | 1.60 | 2.20 | 9.40 (4.10-10.50) | 2090 (700-3110) | 4.50 A | 1045 | 9.20 | |
| 7+7+12+12 | 1.55 | 1.55 | 2.45 | 2.45 | 8.00 (2.80-8.90) | 2090 (500-2870) | 3.83 A | 1045 | 9.20 | 1.0+1.0+1.5+1.5 | 1.80 | 1.80 | 2.90 | 9.40 (3.80-10.50) | 2110 (640-3190) | 4.45 A | 1055 | 9.30 | |
| 7+7+12+15 | 1.45 | 1.45 | 2.25 | 2.85 | 8.00 (2.80-8.90) | 2080 (500-2840) | 3.85 A | 1040 | 9.15 | 0.9+0.9+1.5+1.7 | 1.70 | 1.70 | 2.65 | 9.40 (4.00-10.50) | 2080 (680-3150) | 4.52 A | 1040 | 9.15 | |
| 7+7+12+18 | 1.30 | 1.30 | 2.10 | 3.30 | 8.00 (2.90-9.00) | 2040 (520-2860) | 3.92 A | 1020 | 8.95 | 0.8+0.8+1.4+1.9 | 1.55 | 1.55 | 2.45 | 9.40 (4.10-10.50) | 2110 (700-3080) | 4.45 A | 1055 | 9.30 | |
| 7+7+15+15 | 1.35 | 1.35 | 2.65 | 2.65 | 8.00 (2.90-9.00) | 2060 (520-2850) | 3.88 A | 1030 | 8.95 | 0.9+0.9+1.6+1.6 | 1.55 | 1.55 | 3.15 | 9.40 (4.10-10.50) | 2050 (670-3110) | 4.59 A | 1025 | 9.05 | |
| 7+7+15+18 | 1.25 | 1.25 | 2.40 | 3.10 | 8.00 (2.90-9.00) | 2020 (520-2880) | 3.96 A | 1010 | 8.85 | 0.8+0.8+1.5+1.7 | 1.45 | 1.45 | 2.90 | 9.40 (4.20-10.50) | 2080 (700-3060) | 4.52 A | 1040 | 9.15 | |
| 7+9 ¹ +9 ¹ +9 ¹ | 1.70 | 2.10 | 2.10 | 2.10 | 8.00 (2.80-8.80) | 2120 (490-2850) | 3.77 A | 1060 | 9.30 | 1.1+1.4+1.4+1.4 | 2.05 | 2.45 | 2.45 | 9.40 (3.80-10.50) | 2040 (640-3080) | 4.61 A | 1020 | 8.95 | |
| 7+9 ¹ +9 ¹ +10 ² | 1.60 | 2.05 | 2.05 | 2.30 | 8.00 (2.80-8.80) | 2120 (490-2850) | 3.77 A | 1060 | 9.30 | 1.0+1.3+1.5+1.5 | 1.90 | 2.40 | 2.70 | 9.40 (3.80-10.50) | 2040 (640-3080) | 4.61 A | 1020 | 8.95 | |
| 7+9 ¹ +9 ¹ +12 | 1.55 | 1.95 | 1.95 | 2.55 | 8.00 (2.80-8.90) | 2100 (490-2840) | 3.81 A | 1050 | 9.20 | 1.0+1.3+1.3+1.6 | 1.85 | 2.30 | 2.30 | 9.40 (3.90-10.50) | 2080 (660-3130) | 4.52 A | 1040 | 9.15 | |
| 7+9 ¹ +9 ¹ +15 | 1.45 | 1.80 | 1.80 | 2.95 | 8.00 (2.80-8.90) | 2130 (490-2860) | 3.76 A | 1065 | 9.40 | 0.9+1.2+1.2+1.7 | 1.70 | 2.15 | 2.15 | 9.40 (4.00-10.50) | 2050 (680-3080) | 4.59 A | 1025 | 9.05 | |
| 7+9 ¹ +9 ¹ +18 | 1.35 | 1.65 | 1.65 | 3.35 | 8.00 (2.90-8.90) | 2110 (520-2860) | 3.79 A | 1055 | 9.30 | 0.9+1.1+1.1+1.9 | 1.55 | 1.95 | 1.95 | 9.40 (4.20-10.50) | 2080 (700-3080) | 4.52 A | 1040 | 9.15 | |
| 7+9 ¹ +10 ² +10 ² | 1.60 | 2.00 | 2.20 | 2.20 | 8.00 (2.80-8.80) | 2120 (490-2850) | 3.77 A | 1060 | 9.30 | 1.0+1.3+1.4+1.4 | 1.85 | 2.35 | 2.60 | 9.40 (3.80-10.50) | 2040 (640-3080) | 4.61 A | 1020 | 8.95 | |
| 7+9 ¹ +10 ² +12 | 1.50 | 1.90 | 2.15 | 2.45 | 8.00 (2.80-8.90) | 2100 (490-2850) | 3.81 A | 1050 | 9.20 | 1.0+1.2+1.4+1.5 | 1.80 | 2.25 | 2.50 | 9.40 (3.90-10.50) | 2080 (660-3130) | 4.52 A | 1040 | 9.15 | |
| 7+9 ¹ +10 ² +15 | 1.40 | 1.75 | 2.00 | 2.85 | 8.00 (2.80-8.90) | 2130 (490-2860) | 3.76 A | 1065 | 9.40 | 0.9+1.1+1.3+1.7 | 1.60 | 2.10 | 2.35 | 9.40 (4.00-10.50) | 2050 (680-3080) | 4.59 A | 1025 | 9.05 | |
| 7+9 ¹ +10 ² +18 | 1.30 | 1.65 | 1.80 | 3.25 | 8.00 (2.90-8.90) | 2110 (520-2860) | 3.79 A | 1055 | 9.30 | 0.8+1.1+1.2+1.8 | 1.55 | 1.90 | 2.15 | 9.40 (4.20-10.50) | 2080 (700-3080) | 4.52 A | 1040 | 9.15 | |
| 7+9 ¹ +12+12 | 1.45 | 1.85 | 2.35 | 2.35 | 8.00 (2.80-8.90) | 2130 (500-2850) | 3.76 A | 1065 | 9.40 | 0.9+1.2+1.5+1.5 | 1.70 | 2.20 | 2.75 | 9.40 (4.00-10.50) | 2090 (680-3180) | 4.50 A | 1045 | 9.20 | |
| 7+9 ¹ +12+15 | 1.35 | 1.70 | 2.20 | 2.75 | 8.00 (2.90-9.00) | 2070 (520-2860) | 3.86 A | 1035 | 9.15 | 0.9+1.1+1.4+1.6 | 1.60 | 2.00 | 2.55 | 9.40 (4.10-10.50) | 2060 (700-3120) | 4.56 A | 1030 | 9.05 | |
| 7+9 ¹ +12+18 | 1.25 | 1.55 | 2.00 | 3.20 | 8.00 (2.90-9.00) | 2030 (520-2840) | 3.94 A | 1015 | 8.95 | 0.8+1.0+1.3+1.8 | 1.50 | 1.85 | 2.35 | 9.40 (4.20-10.50) | 2090 (700-3080) | 4.50 A | 1045 | 9.20 | |
| 7+9 ¹ +15+15 | 1.30 | 1.60 | 2.55 | 2.55 | 8.00 (2.90-9.00) | 2040 (520-2870) | 3.92 A | 1020 | 8.95 | 0.8+1.0+1.6+1.6 | 1.50 | 1.90 | 3.00 | 9.40 (4.20-10.50) | 2030 (700-3080) | 4.63 A | 1015 | 8.95 | |
| 7+9 ¹ +15+18 | 1.20 | 1.50 | 2.35 | 2.95 | 8.00 (2.90-9.00) | 2020 (520-2880) | 3.96 A | 1010 | 8.85 | 0.7+1.0+1.5+1.7 | 1.35 | 1.75 | 2.80 | 9.40 (4.20-10.50) | 2080 (700-3060) | 4.52 A | 1040 | 9.15 | |
| 7+10 ² +10 ² +10 ² | 1.55 | 2.15 | 2.15 | 2.15 | 8.00 (2.80-8.80) | 2120 (490-2850) | 3.77 A | 1060 | 9.30 | 1.0+1.4+1.4+1.4 | 1.75 | 2.55 | 2.55 | 9.40 (3.80-10.50) | 2040 (640-3080) | 4.61 A | 1020 | 8.95 | |
| 7+10 ² +10 ² +12 | 1.50 | 2.05 | 2.05 | 2.40 | 8.00 (2.80-8.80) | 2100 (490-2850) | 3.81 A | 1050 | 9.20 | 1.0+1.3+1.3+1.5 | 1.70 | 2.45 | 2.45 | 9.40 (3.90-10.50) | 2080 (660-3130) | 4.52 A | 1040 | 9.15 | |
| 7+10 ² +10 ² +15 | 1.35 | 1.95 | 1.95 | 2.75 | 8.00 (2.80-8.90) | 2130 (490-2860) | 3.76 A | 1065 | 9.40 | 0.9+1.3+1.3+1.6 | 1.60 | 2.25 | 2.25 | 9.40 (4.00-10.50) | 2050 (680-3080) | 4.59 A | 1025 | 9.05 | |
| 7+10 ² +10 ² +18 | 1.25 | 1.80 | 1.80 | 3.15 | 8.00 (2.90-8.90) | 2110 (520-2860) | 3.79 A | 1055 | 9.30 | 0.8+1.2+1.2+1.8 | 1.45 | 2.10 | 2.10 | 9.40 (4.20-10.50) | 2070 (700-3080) | 4.52 A | 1040 | 9.15 | |
| 7+10 ² +12+12 | 1.40 | 2.00 | 2.30 | 2.30 | 8.00 (2.80-8.90) | 2130 (500-2850) | 3.76 A | 1065 | 9.40 | 0.9+1.3+1.5+1.5 | 1.65 | 2.35 | 2.70 | 9.40 (4.00-10.50) | 2090 (680-3180) | 4.50 A | 1045 | 9.20 | |
| 7+10 ² +12+15 | 1.35 | 1.85 | 2.15 | 2.65 | 8.00 (2.90-9.00) | 2070 (520-2860) | 3.86 A | 1035 | 9.15 | 0.9+1.2+1.4+1.6 | 1.55 | 2.20 | 2.50 | 9.40 (4.10-10.50) | 2060 (700-3120) | 4.56 A | 1030 | 9.05 | |
| 7+10 ² +12+18 | 1.25 | 1.70 | 1.95 | 3.10 | 8.00 (2.90-9.00) | 2030 (520-2840) | 3.94 A | 1015 | 8.95 | 0.8+1.1+1.3+1.7 | 1.45 | 2.00 | 2.30 | 9.40 (4.20-10.50) | 2090 (700-3080) | 4.50 A | 1045 | 9.20 | |
| 7+10 ² +15+15 | 1.25 | 1.75 | 2.50 | 2.50 | 8.00 (2.90-9.00) | 2040 (520-2870) | 3.92 A | 1020 | 8.95 | 0.8+1.1+1.5+1.5 | 1.45 | 2.05 | 2.95 | 9.40 (4.20-10.50) | 2030 (700-3080) | 4.63 A | 1015 | 8.95 | |
| 7+12+12+12 | 1.40 | 2.20 | 2.20 | 2.20 | 8.00 (2.80-9.10) | 2040 (500-2870) | 3.92 A | 1020 | 8.95 | 0.9+1.4+1.4+1.4 | 1.60 | 2.60 | 2.60 | 9.40 (4.00-10.60) | 2110 (680-3120) | 4.45 A | 1055 | 9.30 | |
| 7+12+12+15 | 1.30 | 2.05 | 2.05 | 2.60 | 8.00 (2.90-9.10) | 2020 (520-2840) | 3.96 A | 1010 | 8.85 | 0.8+1.3+1.3+1.6 | 1.45 | 2.45 | 3.05 | 9.40 (4.10-10.60) | 2080 (700-3080) | 4.52 A | 1040 | 9.15 | |
| 7+12+12+18 | 1.20 | 1.90 | 1.90 | 3.00 | 8.00 (3.00-9.20) | 2000 (530-2870) | 4.00 A | 1000 | 8.80 | 0.7+1.2+1.2+1.7 | 1.40 | 2.25 | 2.25 | 9.40 (4.20-10.60) | 2110 (700-3060) | 4.45 A | 1055 | 9.30 | |
| 7+12+15+15 | 1.20 | 2.00 | 2.40 | 2.40 | 8.00 (2.90-9.10) | 2090 (520-2860) | 3.83 A | 1045 | 9.20 | 0.7+1.3+1.5+1.5 | 1.40 | 2.30 | 2.85 | 9.40 (4.20-10.60) | 2060 (700-3060) | 4.56 A | 1030 | 9.05 | |
| 9 ¹ +9 ¹ +9 ¹ +9 ¹ | | | | | | | | | | | | | | | | | | | |

FREE MULTI 5X1 // OUTDOOR UNIT CU-5E34NBE

| Indoor unit capacity | Cooling Capacity (Min.-Max.) (kW) | | | | | | Heating Capacity (Min.-Max.) (kW) | | | | | |
|----------------------|-----------------------------------|--------|--------|--------|--------|-----------------|-----------------------------------|--------|--------|--------|--------|----------------|
| | Room A | Room B | Room C | Room D | Room E | Total | Room A | Room B | Room C | Room D | Room E | Total |
| | 1 Room | | | | | | | | | | | |
| 7 | 2.20 | - | - | - | - | 2.20 (1.5-2.6) | 2.50 | - | - | - | - | 2.50 (1.8-4.3) |
| 9 | 2.65 | - | - | - | - | 2.65 (1.5-3.2) | 3.60 | - | - | - | - | 3.60 (1.8-4.7) |
| 12 | 3.50 | - | - | - | - | 3.50 (1.6-3.6) | 4.20 | - | - | - | - | 4.20 (1.9-5.1) |
| 18 | 5.15 | - | - | - | - | 5.15 (1.7-5.8) | 6.00 | - | - | - | - | 6.00 (2.0-7.8) |
| 24 | 7.10 | - | - | - | - | 7.10 (1.8-7.4) | 8.50 | - | - | - | - | 8.50 (2.0-8.8) |
| 2 Rooms | | | | | | | | | | | | |
| 7+7 | 2.20 | 2.20 | - | - | - | 4.40 (2.0-5.1) | 2.50 | 2.50 | - | - | - | 5.00 (2.0-6.4) |
| 7+9 | 2.20 | 2.65 | - | - | - | 4.85 (2.0-5.8) | 2.50 | 3.60 | - | - | - | 6.10 (2.1-7.5) |
| 7+12 | 2.20 | 3.50 | - | - | - | 5.70 (2.0-6.7) | 2.50 | 4.20 | - | - | - | 6.70 (2.3-8.3) |
| 7+18 | 2.14 | 5.01 | - | - | - | 7.15 (2.2-7.7) | 2.50 | 6.00 | - | - | - | 8.50 (3.0-9.4) |
| 7+24 | 1.81 | 5.84 | - | - | - | 7.65 (2.3-8.8) | 2.01 | 6.84 | - | - | - | 8.85 (3.0-9.8) |
| 9+9 | 2.65 | 2.65 | - | - | - | 5.30 (2.0-6.5) | 3.60 | 3.60 | - | - | - | 7.20 (2.4-8.5) |
| 9+12 | 2.54 | 3.36 | - | - | - | 5.90 (2.0-7.4) | 3.51 | 4.09 | - | - | - | 7.60 (2.6-8.5) |
| 9+18 | 2.46 | 4.79 | - | - | - | 7.25 (2.3-8.5) | 3.24 | 5.41 | - | - | - | 8.65 (3.3-9.4) |
| 9+24 | 2.11 | 5.64 | - | - | - | 7.75 (2.3-8.8) | 2.68 | 6.32 | - | - | - | 9.00 (3.3-9.8) |
| 12+12 | 3.40 | 3.40 | - | - | - | 6.80 (2.2-8.4) | 4.00 | 4.00 | - | - | - | 8.00 (2.9-8.5) |
| 12+18 | 3.03 | 4.47 | - | - | - | 7.50 (2.6-8.8) | 3.60 | 5.15 | - | - | - | 8.75 (3.4-9.8) |
| 12+24 | 2.61 | 5.29 | - | - | - | 7.90 (2.6-9.5) | 3.01 | 6.09 | - | - | - | 9.10 (3.4-9.8) |
| 18+18 | 3.95 | 3.95 | - | - | - | 7.90 (2.6-9.5) | 4.50 | 4.50 | - | - | - | 9.00 (3.4-9.8) |
| 18+24 | 3.70 | 5.10 | - | - | - | 8.80 (2.7-9.5) | 3.89 | 5.51 | - | - | - | 9.40 (3.4-9.8) |
| 24+24 | 4.40 | 4.40 | - | - | - | 8.80 (2.7-9.5) | 4.70 | 4.70 | - | - | - | 9.40 (3.4-9.8) |
| 3 Rooms | | | | | | | | | | | | |
| 7+7+7 | 2.20 | 2.20 | 2.20 | - | - | 6.60 (2.0-7.7) | 2.50 | 2.50 | 2.50 | - | - | 7.50 (2.7-9.0) |
| 7+7+9 | 2.20 | 2.20 | 2.65 | - | - | 7.05 (2.2-8.4) | 2.47 | 2.47 | 3.56 | - | - | 8.50 (3.0-9.2) |
| 7+7+12 | 2.03 | 2.03 | 3.23 | - | - | 7.30 (2.4-8.6) | 2.34 | 2.34 | 3.93 | - | - | 8.60 (3.2-9.8) |
| 7+7+18 | 1.77 | 1.77 | 4.15 | - | - | 7.70 (2.7-9.0) | 2.01 | 2.01 | 4.83 | - | - | 8.85 (3.4-9.8) |
| 7+7+24 | 1.65 | 1.65 | 5.31 | - | - | 8.60 (2.9-10.0) | 1.71 | 1.71 | 5.82 | - | - | 9.25 (3.4-9.8) |
| 7+9+9 | 2.11 | 2.54 | 2.54 | - | - | 7.20 (2.3-8.6) | 2.23 | 3.21 | 3.21 | - | - | 8.65 (3.3-9.3) |
| 7+9+12 | 1.95 | 2.35 | 3.10 | - | - | 7.40 (2.6-9.0) | 2.12 | 3.06 | 3.57 | - | - | 8.75 (3.4-9.8) |
| 7+9+18 | 1.72 | 2.07 | 4.02 | - | - | 7.80 (2.9-9.0) | 1.86 | 2.68 | 4.46 | - | - | 9.00 (3.4-9.8) |
| 7+9+24 | 1.60 | 1.93 | 5.17 | - | - | 8.70 (2.9-10.0) | 1.68 | 2.42 | 5.71 | - | - | 9.80 (3.4-9.8) |
| 7+12+12 | 1.82 | 2.89 | 2.89 | - | - | 7.60 (2.7-9.0) | 2.03 | 3.41 | 3.41 | - | - | 8.85 (3.4-9.8) |
| 7+12+18 | 1.60 | 2.55 | 3.75 | - | - | 7.90 (2.9-9.0) | 1.79 | 3.01 | 4.30 | - | - | 9.10 (3.4-9.8) |
| 7+12+24 | 1.55 | 2.46 | 4.99 | - | - | 9.00 (2.9-10.0) | 1.61 | 2.71 | 5.48 | - | - | 9.80 (3.4-9.8) |
| 7+18+18 | 1.58 | 3.71 | 3.71 | - | - | 9.00 (2.9-9.0) | 1.69 | 4.06 | 4.06 | - | - | 9.80 (3.4-9.8) |
| 7+18+24 | 1.37 | 3.21 | 4.42 | - | - | 9.00 (2.9-10.0) | 1.44 | 3.46 | 4.90 | - | - | 9.80 (3.4-9.8) |
| 9+9+9 | 2.43 | 2.43 | 2.43 | - | - | 7.30 (2.5-8.6) | 2.95 | 2.95 | 2.95 | - | - | 8.85 (3.4-9.4) |
| 9+9+12 | 2.26 | 2.26 | 2.98 | - | - | 7.50 (2.7-9.0) | 2.81 | 2.81 | 3.28 | - | - | 8.90 (3.4-9.8) |
| 9+9+18 | 2.00 | 2.00 | 3.89 | - | - | 7.90 (2.9-9.0) | 2.51 | 2.51 | 4.18 | - | - | 9.20 (3.4-9.8) |
| 9+9+24 | 1.92 | 1.92 | 5.15 | - | - | 9.00 (2.9-10.0) | 2.25 | 2.25 | 5.31 | - | - | 9.80 (3.4-9.8) |
| 9+12+12 | 2.13 | 2.81 | 2.81 | - | - | 7.75 (2.7-9.0) | 2.70 | 3.15 | 3.15 | - | - | 9.00 (3.4-9.8) |
| 9+12+18 | 1.99 | 2.63 | 3.87 | - | - | 8.50 (2.9-9.0) | 2.43 | 2.83 | 4.04 | - | - | 9.30 (3.4-9.8) |
| 9+12+24 | 1.80 | 2.38 | 4.82 | - | - | 9.00 (2.9-10.0) | 2.16 | 2.53 | 5.11 | - | - | 9.80 (3.4-9.8) |
| 9+18+18 | 1.84 | 3.58 | 3.58 | - | - | 9.00 (2.9-9.0) | 2.26 | 3.77 | 3.77 | - | - | 9.80 (3.4-9.8) |
| 9+18+24 | 1.60 | 3.11 | 4.29 | - | - | 9.00 (2.9-10.0) | 1.95 | 3.25 | 4.60 | - | - | 9.80 (3.4-9.8) |
| 12+12+12 | 2.65 | 2.65 | 2.65 | - | - | 7.95 (2.9-9.0) | 3.03 | 3.03 | 3.03 | - | - | 9.10 (3.4-9.8) |
| 12+12+18 | 2.59 | 2.59 | 3.81 | - | - | 9.00 (2.9-9.0) | 2.86 | 2.86 | 4.08 | - | - | 9.80 (3.4-9.8) |
| 12+12+24 | 2.23 | 2.23 | 4.53 | - | - | 9.00 (2.9-10.0) | 2.44 | 2.44 | 4.93 | - | - | 9.80 (3.4-9.8) |
| 12+18+18 | 2.28 | 3.36 | 3.36 | - | - | 9.00 (2.9-10.0) | 2.54 | 3.63 | 3.63 | - | - | 9.80 (3.4-9.8) |
| 12+18+24 | 2.00 | 2.94 | 4.06 | - | - | 9.00 (2.9-10.0) | 2.20 | 3.14 | 4.45 | - | - | 9.80 (3.4-9.8) |
| 18+18+18 | 3.00 | 3.00 | 3.00 | - | - | 9.00 (2.9-10.0) | 3.27 | 3.27 | 3.27 | - | - | 9.80 (3.4-9.8) |
| 18+18+24 | 2.66 | 2.66 | 3.67 | - | - | 9.00 (2.9-10.0) | 2.87 | 2.87 | 4.06 | - | - | 9.80 (3.4-9.8) |

The table lists the wall-mounted type of indoor units as representative models.
 For details on the connection of indoor units other than the wall mounted type, refer to the technical data.
 Specifications subject to change without notice.


FREE MULTI 5X1 // OUTDOOR UNIT CU-5E34NBE (CONT.)

| Indoor unit capacity | Cooling Capacity (Min.-Max.) (kW) | | | | | | Heating Capacity (Min.-Max.) (kW) | | | | | |
|----------------------|-----------------------------------|--------|--------|--------|--------|------------------|-----------------------------------|--------|--------|--------|--------|------------------|
| | Room A | Room B | Room C | Room D | Room E | Total | Room A | Room B | Room C | Room D | Room E | Total |
| 4 Rooms | | | | | | | | | | | | |
| 7+7+7+7 | 1.88 | 1.88 | 1.88 | 1.88 | - | 7.50 (2.9-10.5) | 2.18 | 2.18 | 2.18 | 2.18 | - | 8.70 (3.4-9.8) |
| 7+7+7+9 | 1.82 | 1.82 | 1.82 | 2.19 | - | 7.65 (2.9-10.5) | 1.99 | 1.99 | 1.99 | 2.87 | - | 8.85 (3.4-9.8) |
| 7+7+7+12 | 1.71 | 1.71 | 1.71 | 2.72 | - | 7.85 (2.9-10.5) | 1.91 | 1.91 | 1.91 | 3.21 | - | 8.95 (3.4-9.8) |
| 7+7+7+18 | 1.59 | 1.59 | 1.59 | 3.73 | - | 8.50 (2.9-10.5) | 1.71 | 1.71 | 1.71 | 4.11 | - | 9.25 (3.4-9.8) |
| 7+7+7+24 | 1.48 | 1.48 | 1.48 | 4.77 | - | 9.20 (2.9-10.5) | 1.53 | 1.53 | 1.53 | 5.21 | - | 9.80 (3.4-9.8) |
| 7+7+9+9 | 1.76 | 1.76 | 2.12 | 2.12 | - | 7.75 (2.9-10.5) | 1.85 | 1.85 | 2.67 | 2.67 | - | 9.05 (3.4-9.8) |
| 7+7+9+12 | 1.66 | 1.66 | 2.00 | 2.64 | - | 7.95 (2.9-10.5) | 1.79 | 1.79 | 2.57 | 3.00 | - | 9.15 (3.4-9.8) |
| 7+7+9+18 | 1.53 | 1.53 | 1.85 | 3.59 | - | 8.50 (2.9-10.5) | 1.68 | 1.68 | 2.42 | 4.03 | - | 9.80 (3.4-9.8) |
| 7+7+9+24 | 1.43 | 1.43 | 1.72 | 4.62 | - | 9.20 (2.9-10.5) | 1.43 | 1.43 | 2.06 | 4.87 | - | 9.80 (3.4-9.8) |
| 7+7+12+12 | 1.64 | 1.64 | 2.61 | 2.61 | - | 8.50 (2.9-10.5) | 1.72 | 1.72 | 2.88 | 2.88 | - | 9.20 (3.4-9.8) |
| 7+7+12+18 | 1.55 | 1.55 | 2.47 | 3.63 | - | 9.20 (2.9-10.5) | 1.61 | 1.61 | 2.71 | 3.87 | - | 9.80 (3.4-9.8) |
| 7+7+12+24 | 1.35 | 1.35 | 2.15 | 4.35 | - | 9.20 (2.9-10.5) | 1.38 | 1.38 | 2.33 | 4.71 | - | 9.80 (3.4-9.8) |
| 7+7+18+18 | 1.38 | 1.38 | 3.22 | 3.22 | - | 9.20 (2.9-10.5) | 1.44 | 1.44 | 3.46 | 3.46 | - | 9.80 (3.4-9.8) |
| 7+7+18+24 | 1.22 | 1.22 | 2.85 | 3.92 | - | 9.20 (2.9-10.5) | 1.26 | 1.26 | 3.02 | 4.27 | - | 9.80 (3.4-9.8) |
| 7+9+9+9 | 1.70 | 2.05 | 2.05 | 2.05 | - | 7.85 (2.9-10.5) | 1.73 | 2.49 | 2.49 | 2.49 | - | 9.20 (3.4-9.8) |
| 7+9+9+12 | 1.66 | 2.00 | 2.00 | 2.64 | - | 8.30 (2.9-10.5) | 1.67 | 2.41 | 2.41 | 2.81 | - | 9.30 (3.4-9.8) |
| 7+9+9+18 | 1.53 | 1.84 | 1.84 | 3.58 | - | 8.80 (2.9-10.5) | 1.56 | 2.25 | 2.25 | 3.75 | - | 9.80 (3.4-9.8) |
| 7+9+9+24 | 1.36 | 1.63 | 1.63 | 4.38 | - | 9.00 (2.9-10.5) | 1.35 | 1.94 | 1.94 | 4.58 | - | 9.80 (3.4-9.8) |
| 7+9+12+12 | 1.60 | 1.92 | 2.54 | 2.54 | - | 8.60 (2.9-10.5) | 1.69 | 2.43 | 2.84 | 2.84 | - | 9.80 (3.4-9.8) |
| 7+9+12+18 | 1.47 | 1.77 | 2.33 | 3.43 | - | 9.00 (2.9-10.5) | 1.50 | 2.16 | 2.53 | 3.61 | - | 9.80 (3.4-9.8) |
| 7+9+12+24 | 1.31 | 1.58 | 2.08 | 4.23 | - | 9.20 (2.9-10.5) | 1.30 | 1.88 | 2.19 | 4.43 | - | 9.80 (3.4-9.8) |
| 7+9+18+18 | 1.34 | 1.61 | 3.13 | 3.13 | - | 9.20 (2.9-10.5) | 1.35 | 1.95 | 3.25 | 3.25 | - | 9.80 (3.4-9.8) |
| 7+9+18+24 | 1.18 | 1.43 | 2.77 | 3.82 | - | 9.20 (2.9-10.5) | 1.19 | 1.71 | 2.85 | 4.04 | - | 9.80 (3.4-9.8) |
| 7+12+12+12 | 1.59 | 2.54 | 2.54 | 2.54 | - | 9.20 (2.9-10.5) | 1.62 | 2.73 | 2.73 | 2.73 | - | 9.80 (3.4-9.8) |
| 7+12+12+18 | 1.41 | 2.24 | 2.24 | 3.30 | - | 9.20 (2.9-10.5) | 1.45 | 2.44 | 2.44 | 3.48 | - | 9.80 (3.4-9.8) |
| 7+12+12+24 | 1.24 | 1.98 | 1.98 | 4.01 | - | 9.20 (2.9-10.5) | 1.26 | 2.12 | 2.12 | 4.29 | - | 9.80 (3.4-9.8) |
| 7+12+18+18 | 1.27 | 2.01 | 2.96 | 2.96 | - | 9.20 (2.9-10.5) | 1.31 | 2.20 | 3.14 | 3.14 | - | 9.80 (3.4-9.8) |
| 9+9+9+9 | 2.00 | 2.00 | 2.00 | 2.00 | - | 8.00 (2.9-10.5) | 2.45 | 2.45 | 2.45 | 2.45 | - | 9.80 (3.4-9.8) |
| 9+9+9+12 | 1.94 | 1.94 | 1.94 | 2.57 | - | 8.40 (2.9-10.5) | 2.35 | 2.35 | 2.35 | 2.74 | - | 9.80 (3.4-9.8) |
| 9+9+9+18 | 1.82 | 1.82 | 1.82 | 3.54 | - | 9.00 (2.9-10.5) | 2.10 | 2.10 | 2.10 | 3.50 | - | 9.80 (3.4-9.8) |
| 9+9+9+24 | 1.62 | 1.62 | 1.62 | 4.34 | - | 9.20 (2.9-10.5) | 1.83 | 1.83 | 1.83 | 4.32 | - | 9.80 (3.4-9.8) |
| 9+9+12+12 | 1.90 | 1.90 | 2.50 | 2.50 | - | 8.80 (2.9-10.5) | 2.26 | 2.26 | 2.64 | 2.64 | - | 9.80 (3.4-9.8) |
| 9+9+12+18 | 1.75 | 1.75 | 2.31 | 3.40 | - | 9.20 (2.9-10.5) | 2.03 | 2.03 | 2.37 | 3.38 | - | 9.80 (3.4-9.8) |
| 9+9+12+24 | 1.53 | 1.53 | 2.03 | 4.11 | - | 9.20 (2.9-10.5) | 1.77 | 1.77 | 2.07 | 4.19 | - | 9.80 (3.4-9.8) |
| 9+9+18+18 | 1.56 | 1.56 | 3.04 | 3.04 | - | 9.20 (2.9-10.5) | 1.84 | 1.84 | 3.06 | 3.06 | - | 9.80 (3.4-9.8) |
| 9+9+18+24 | 1.39 | 1.39 | 2.70 | 3.72 | - | 9.20 (2.9-10.5) | 1.63 | 1.63 | 2.71 | 3.84 | - | 9.80 (3.4-9.8) |
| 9+12+12+12 | 1.81 | 2.40 | 2.40 | 2.40 | - | 9.00 (2.9-10.5) | 2.18 | 2.54 | 2.54 | 2.54 | - | 9.80 (3.4-9.8) |
| 9+12+12+18 | 1.65 | 2.18 | 2.18 | 3.20 | - | 9.20 (2.9-10.5) | 1.96 | 2.29 | 2.29 | 3.27 | - | 9.80 (3.4-9.8) |
| 9+12+12+24 | 1.46 | 1.92 | 1.92 | 3.90 | - | 9.20 (2.9-10.5) | 1.72 | 2.01 | 2.01 | 4.06 | - | 9.80 (3.4-9.8) |
| 12+12+12+12 | 2.30 | 2.30 | 2.30 | 2.30 | - | 9.20 (2.9-10.5) | 2.45 | 2.45 | 2.45 | 2.45 | - | 9.80 (3.4-9.8) |
| 12+12+12+18 | 2.06 | 2.06 | 2.06 | 3.03 | - | 9.20 (2.9-10.5) | 2.21 | 2.21 | 2.21 | 3.16 | - | 9.80 (3.4-9.8) |
| 5 Rooms | | | | | | | | | | | | |
| 7+7+7+7+7 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 10.00 (3.5-11.5) | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 12.00 (4.0-14.5) |
| 7+7+7+7+9 | 1.92 | 1.92 | 1.92 | 1.92 | 2.31 | 10.00 (3.5-11.5) | 2.21 | 2.21 | 2.21 | 2.21 | 3.18 | 12.00 (4.0-14.5) |
| 7+7+7+7+12 | 1.79 | 1.79 | 1.79 | 1.79 | 2.85 | 10.00 (3.5-11.5) | 2.11 | 2.11 | 2.11 | 2.11 | 3.55 | 12.00 (4.0-14.5) |
| 7+7+7+7+18 | 1.58 | 1.58 | 1.58 | 1.58 | 3.69 | 10.00 (3.5-11.5) | 1.88 | 1.88 | 1.88 | 1.88 | 4.50 | 12.00 (4.0-14.5) |
| 7+7+7+7+24 | 1.38 | 1.38 | 1.38 | 1.38 | 4.47 | 10.00 (3.5-11.5) | 1.62 | 1.62 | 1.62 | 1.62 | 5.51 | 12.00 (4.0-14.5) |
| 7+7+7+9+9 | 1.85 | 1.85 | 1.85 | 2.23 | 2.23 | 10.00 (3.5-11.5) | 2.04 | 2.04 | 2.04 | 2.94 | 2.94 | 12.00 (4.0-14.5) |
| 7+7+7+9+12 | 1.73 | 1.73 | 1.73 | 2.08 | 2.75 | 10.00 (3.5-11.5) | 1.96 | 1.96 | 1.96 | 2.82 | 3.29 | 12.00 (4.0-14.5) |
| 7+7+7+9+18 | 1.53 | 1.53 | 1.53 | 1.84 | 3.58 | 10.00 (3.5-11.5) | 1.75 | 1.75 | 1.75 | 2.53 | 4.21 | 12.00 (4.0-14.5) |
| 7+7+7+9+24 | 1.35 | 1.35 | 1.35 | 1.62 | 4.34 | 10.00 (3.5-11.5) | 1.53 | 1.53 | 1.53 | 2.20 | 5.20 | 12.00 (4.0-14.5) |
| 7+7+7+12+12 | 1.62 | 1.62 | 1.62 | 2.57 | 2.57 | 10.00 (3.5-11.5) | 1.89 | 1.89 | 1.89 | 3.17 | 3.17 | 12.00 (4.0-14.5) |
| 7+7+7+12+18 | 1.44 | 1.44 | 1.44 | 2.30 | 3.38 | 10.00 (3.5-11.5) | 1.69 | 1.69 | 1.69 | 2.85 | 4.07 | 12.00 (4.0-14.5) |
| 7+7+7+12+24 | 1.28 | 1.28 | 1.28 | 2.03 | 4.13 | 10.00 (3.5-11.5) | 1.49 | 1.49 | 1.49 | 2.50 | 5.05 | 12.00 (4.0-14.5) |
| 7+7+9+9+9 | 1.78 | 1.78 | 2.15 | 2.15 | 2.15 | 10.00 (3.5-11.5) | 1.90 | 1.90 | 2.73 | 2.73 | 2.73 | 12.00 (4.0-14.5) |
| 7+7+9+9+12 | 1.67 | 1.67 | 2.01 | 2.01 | 2.65 | 10.00 (3.5-11.5) | 1.83 | 1.83 | 2.63 | 2.63 | 3.07 | 12.00 (4.0-14.5) |
| 7+7+9+9+18 | 1.48 | 1.48 | 1.78 | 1.78 | 3.47 | 10.00 (3.5-11.5) | 1.65 | 1.65 | 2.37 | 2.37 | 3.96 | 12.00 (4.0-14.5) |
| 7+7+9+9+24 | 1.31 | 1.31 | 1.58 | 1.58 | 4.23 | 10.00 (3.5-11.5) | 1.45 | 1.45 | 2.09 | 2.09 | 4.93 | 12.00 (4.0-14.5) |
| 7+7+9+12+12 | 1.57 | 1.57 | 1.89 | 2.49 | 2.49 | 10.00 (3.5-11.5) | 1.76 | 1.76 | 2.54 | 2.96 | 2.96 | 12.00 (4.0-14.5) |
| 7+7+9+12+18 | 1.40 | 1.40 | 1.69 | 2.23 | 3.28 | 10.00 (3.5-11.5) | 1.60 | 1.60 | 2.30 | 2.68 | 3.83 | 12.00 (4.0-14.5) |
| 7+7+9+12+24 | 1.48 | 1.48 | 2.35 | 2.35 | 2.35 | 10.00 (3.5-11.5) | 1.70 | 1.70 | 2.86 | 2.86 | 2.86 | 12.00 (4.0-14.5) |
| 7+9+9+9+9 | 1.72 | 2.07 | 2.07 | 2.07 | 2.07 | 10.00 (3.5-11.5) | 1.78 | 2.56 | 2.56 | 2.56 | 2.56 | 12.00 (4.0-14.5) |
| 7+9+9+9+12 | 1.61 | 1.94 | 1.94 | 1.94 | 2.56 | 10.00 (3.5-11.5) | 1.71 | 2.47 | 2.47 | 2.47 | 2.88 | 12.00 (4.0-14.5) |
| 7+9+9+9+18 | 1.44 | 1.73 | 1.73 | 1.73 | 3.37 | 10.00 (3.5-11.5) | 1.55 | 2.24 | 2.24 | 2.24 | 3.73 | 12.00 (4.0-14.5) |
| 7+9+9+9+24 | 1.28 | 1.54 | 1.54 | 1.54 | 4.12 | 10.00 (3.5-11.5) | 1.38 | 1.98 | 1.98 | 1.98 | 4.68 | 12.00 (4.0-14.5) |
| 7+9+9+12+12 | 1.52 | 1.83 | 1.83 | 2.41 | 2.41 | 10.00 (3.5-11.5) | 1.66 | 2.39 | 2.39 | 2.78 | 2.78 | 12.00 (4.0-14.5) |
| 7+9+9+12+18 | 1.36 | 1.64 | 1.64 | 2.17 | 3.19 | 10.00 (3.5-11.5) | 1.51 | 2.17 | 2.17 | 2.53 | 3.62 | 12.00 (4.0-14.5) |
| 7+9+9+12+24 | 1.43 | 1.73 | 2.28 | 2.28 | 2.28 | 10.00 (3.5-11.5) | 1.60 | 2.31 | 2.70 | 2.70 | 2.70 | 12.00 (4.0-14.5) |
| 9+9+9+9+9 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 10.00 (3.5-11.5) | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 12.00 (4.0-14.5) |
| 9+9+9+9+12 | 1.88 | 1.88 | 1.88 | 1.88 | 2.48 | 10.00 (3.5-11.5) | 2.32 | 2.32 | 2.32 | 2.32 | 2.71 | 12.00 (4.0-14.5) |
| 9+9+9+9+18 | 1.68 | 1.68 | 1.68 | 1.68 | 3.27 | 10.00 (3.5-11.5) | 2.12 | 2.12 | 2.12 | 2.12 | 3.53 | 12.00 (4.0-14.5) |
| 9+9+9+9+24 | 1.50 | 1.50 | 1.50 | 1.50 | 4.01 | 10.00 (3.5-11.5) | 1.89 | 1.89 | 1.89 | 1.89 | 4.45 | 12.00 (4.0-14.5) |
| 9+9+12+12+12 | 1.77 | 1.77 | 1.77 | 2.34 | 2.34 | 10.00 (3.5-11.5) | 2.25 | 2.25 | 2.25 | 2.63 | 2.63 | 12.00 (4.0-14.5) |
| 9+9+12+12+18 | 1.68 | 1.68 | 2.22 | 2.22 | 2.22 | 10.00 (3.5-11.5) | 2.18 | 2.18 | 2.55 | 2.55 | 2.55 | 12.00 (4.0-14.5) |
| 9+9+12+12+24 | 1.52 | 1.52 | 2.01 | 2.01 | 2.95 | 10.00 (3.5-11.5) | 2.00 | 2.00 | 2.33 | 2.33 | 3.33 | 12.00 (4.0-14.5) |

The table lists the wall-mounted type of indoor units as representative models.

For details on the connection of indoor units other than the wall mounted type, refer to the technical data.

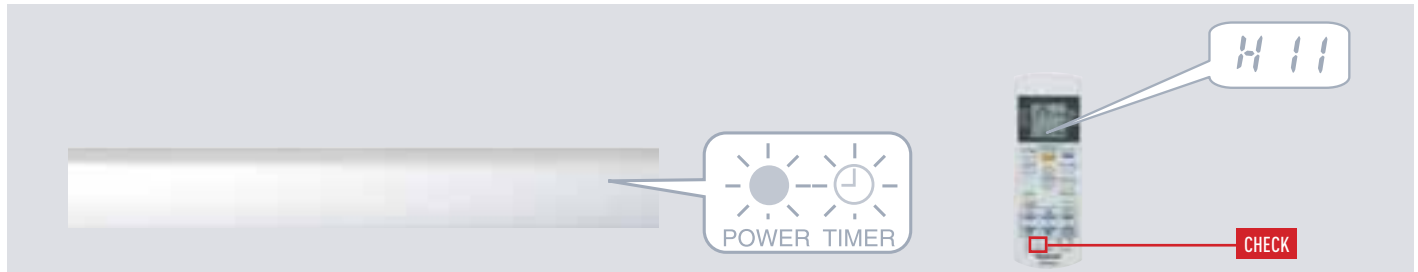
Specifications subject to change without notice.

SELF DIAGNOSIS DESCRIPTION AND CHECK POINT TABLE*

In the event of breakdown, proceed as follows to detect the error code.

1. Press "CHECK" button at the remote control continuously for more than five seconds to turn on diagnosis mode. "--" will be displayed at the remote control LCD.
2. By pressing the TIMER "▲" button once, the next error code (if any) will be displayed; press "▼" button once, previous error code will be displayed.
3. If error code displayed matches the error code saved in unit memory (abnormality detected) Indoor PCB will buzzer for 4 seconds to indicate the correct error code.
4. If "CHECK" button is pressed again or without any operation for 30 seconds, the diagnosis mode will turn off.
5. Turn ON the unit and reset the error code by pressing the AC reset.

* Not for CU-5E34NBE



ERROR CODES TABLE

Warning: Electrical power must be disconnected when terminal protective cover is not in place to protect against electrocution.

| Diagnosis Display | Abnormality / Protection Control | Diagnosis Method | Diagnosis Checkpoint |
|-------------------|--|---|---|
| H11 | Indoor/Outdoor abnormal communication | This trouble display appears when indoor/outdoor unit communication fails to be established after 30 or more seconds. | Measure the voltages of the indoor/outdoor unit communication cables, and check whether the voltage is being supplied properly to the outdoor unit or whether it is being returned from the outdoor unit to the indoor units. |
| H12 | Indoor unit capacity unmatched | This trouble display appears when wrong in the total connection capacity and wrong connection in each capacity. The trouble is determined within 2 minutes after the power is turned on. | Check the total capacity of the units connected and check that the models are compatible for connection. |
| H14 | Intake air temp. sensor | This trouble display appears when the intake air temperature has exceeded above 46°C continuously for 2 minutes or dropped below -54°C continuously for 5 seconds during operation. | This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (OL or ∞) or short-circuit is not found, defective contact of the connector is to blame. |
| H15 | Outdoor compressor temperature sensor abnormality | — | Check the sensor, and if open-circuit (more than 500 k) or (short-circuit) (less than 6.5 k) is not found, defective contact of the connector is to blame. |
| H16 | Outdoor Current Transformer | CU-2E: When a value of under 1.5A has been detected for the total current during operation beyond the set capacity, the compressor operates with its operating frequency controlled to a maximum of 38Hz for 3 minutes, and if it continues to operate at a total current of under 1.5A for another 3 minutes, its operation stops. CU-3E/4E: When the total current has dropped below the set current level continuously for 20 seconds during operation beyond the set capacity, operation is stopped. Three minutes later, operation is started up again, and when the trouble occurs on 4 successive occasions, the trouble display appears (the timer lamp blinks). | 1. Check the refrigerant cycle: Gas may be leaking (the amount of refrigerant is extremely low). 2. Check the control PCB: Check for a broken wire (open circuit) in the current transformer. (If an open circuit is found, replace the control PCB) In the case of a scroll compressor (DC motor), H16 is detected only when the regular compressor is operating. |
| H19 | Indoor fan motor mechanism lock | • High-voltage PWM: When a state in which the fan motor speed is not synchronized with the control signal has been detected on 7 successive occasions. • Low-voltage PAM: When the fan lock detection signal has been detected on 7 successive occasions or it has been detected continuously for 25 seconds or when a state in which the fan motor speed is not synchronized with the control signal has been detected on 7 successive occasions: The trouble display appears (the timer lamp blinks). | 1. Check the nature of the fan lockup trouble. 2. Check for disconnections of the fan motor connectors and for defects in contact, in the fan motor and in the control PCB. |
| H23 | Indoor heat exchanger temp. sensor | This trouble display appears when a temperature of under approximately -40°C or above approximately 80°C has been detected by the heat exchanger temperature sensor continuously for 5 seconds. (This trouble is not detected during de-icing.) | This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if (open-circuit) (OL or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame. |
| H26 | Ionizer Abnormality | — | 1. Measure the voltages of the indoor unit communication cables, and check whether the voltage is being supplied properly. 2. Check the ionizer needle and grounding plate is dust free. |
| H27 | Outdoor air temp. sensor | This trouble display appears when a temperature of under approximately -40°C or above approximately 150°C has been detected by the outside air temperature sensor for 2 to 5 seconds. (This trouble is not detected during de-icing.) | This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (OL or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame. |
| H28 | Outdoor heat exchanger temp. sensor 1 | This trouble display appears when a temperature of under approximately -60°C or above approximately 110°C has been detected by the heat exchanger temperature sensor for 2 to 5 seconds. (This trouble is not detected during de-icing.) | This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (OL or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame. |
| H30 | Outdoor discharge pipe temp. sensor | CU-2E: This trouble display appears when a temperature of under approximately -16°C or above approximately 200°C has been detected by the outlet temperature sensor for 2 to 5 seconds. CU-3E/4E: Disconnected discharge sensor - When the condensation temperature is higher than the discharge temperature + (plus) 6°C, a sensor disconnection is detected, operation stops, and the trouble display appears (the timer lamp blinks). | This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (OL or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame. |
| H32 | Outdoor heat exchanger temp. sensor 2 (discharge pipe temp.) | This trouble display appears when a temperature of under approximately -60°C or over approximately 110°C has been detected continuously for 2 to 5 seconds by the outlet temperature sensor of the heat exchanger. | This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (OL or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame. |
| H33 | Indoor / Outdoor wrong connection | Indoor / Outdoor different model junction, 100V charge into 200V outdoor unit. | Check whether the voltage is being supplied properly to the outdoor unit or whether it is being returned from the outdoor unit to the indoor units. |
| H34 | Outdoor heat sink temp. sensor | This trouble display appears when a temperature of under -43°C or above 80°C has been detected by the outdoor unit radiator fin sensor continuously for 2 seconds. | This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (OL or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame. |
| H36 | Abnormal gas pipe temp. sensor | This trouble display appears when a temperature of under approximately -45°C or above approximately 149°C has been detected by the outdoor unit gas side pipe temperature sensor continuously for 2 to 5 seconds. | This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (OL or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame. |
| H37 | Outdoor liquid pipe temp. sensor | This trouble display appears when a temperature of under -45°C or above 149°C has been detected by the outdoor unit liquid side pipe temperature sensor continuously for 2 seconds. | This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (OL or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame. |
| H38 | Indoor / Outdoor mismatch (brand code) | — | — |
| H39 | Abnormal indoor operating unit or standBy units | This display appears in rooms other than one in which indoor freezing trouble has occurred when the pipes have been connected incorrectly, when an outdoor expansion valve is defective or when an expansion valve connector has become disconnected. | — |
| H41 | Abnormal wiring or piping connection | CU-2E only This display appears when this kind of trouble is detected 3 minutes after a forced cooling operation was conducted for one room during the initial operation after the power was turned on. It appears when: • The indoor unit pipe temperature in a room without the capacity supply available at an outside air temperature above 5°C has dropped by more than 20°C to 5°C or lower 3 minutes after the compressor started up. • The outdoor unit gas pipe temperature in a room without the capacity supply available has dropped by more than 5°C to 5°C or lower 3 minutes after the compressor started up. | — |
| H50 | Ventilation failure | This display appears when ventilation motor is lock. | 1. Check the voltage drop at pin 1 & 2 of CNVENT to have 14Vdc. 2. Check the ventilation hose condition from ventilation opening until tip cover. 3. Check air flow from tip cover by hand. |



| | | | |
|-----|---|---|--|
| H51 | Vacuum Nozzle Failure | This display appears when the vacuum nozzle stop. | This trouble display appears when suction nozzle stop at centre of the Filter Cleaning device: 1. Check the filter setting position. 2. Check the nozzle drive stepper motor running condition. This trouble display appears when suction nozzle stop at left side of Filter Cleaning device: 1. Check vacuum nozzle position. 2. Check the left limit switch switching function by multimeter. This trouble display appears when suction nozzle stop at left side of Filter Cleaning Device: 1. Check the Right Limit Switch switching function by multimeter. |
| H52 | Limit Switch Failure | This display appears when both Limit Switch (left & right) detected short circuit. | 1. Unplug the CNSIDSW connector and check Pin 1-2 and Pin 3-4 condition on PCB. 2. Check wiring condition at limit switch (left & right). 3. Check switching function of limit switch (left & right). |
| H97 | Outdoor fan motor mechanism lock | CU-2E: When trouble, which is defined as a state in which the fan motor speed is not synchronized with the control signal has been detected on 5 successive occasions, has occurred for the third time in a 60-minute period and twice during a 30-minute period, the trouble display appears, and operation stops. CU-3E/4E: When the fan motor speed detected when its maximum output is demanded is below 30 rpm continuously for 15 seconds, the fan motor stops for 3 minutes and then restarted. When this happens on 16 occasions (the trouble display is cleared when the value is normal for 5 minutes), the H97 diagnostic symbol is stored in the memory, and the fan motor stops. | 1. Check the nature of the fan lockup trouble. 2. Check for disconnections of the fan motor connectors and for defects in contact, in the fan motor and in the control PCB. |
| H98 | Indoor high pressure protection | The restriction on the compressor frequency is started when the temperature of the indoor unit heat exchanger source is between 50°C and 52°C, the compressor stops at a temperature from 62°C to 65°C, it is restarted 3 minutes later at below 62°C to 65°C, and the restriction on the compressor frequency is released at a temperature between 48°C and 50°C. (No trouble display appears.) | 1. Check the indoor unit heat exchanger temperature sensor (check for changes in its characteristics and check its resistance): Symptoms include no hot start when operation is started, a failure of the thermostat to turn on (no outdoor unit operation). And frequent repetition of stopping and startup. 2. Check also for short circuits indoors and clogging of the air filters. |
| H99 | Indoor operating unit freezing | The restriction on the compressor frequency is started when the indoor unit heat exchanger temperature is between 8°C and 12°C. Operation stops if a temperature below 0°C continues for 6 minutes. Three minutes later, operation is started up at a temperature from 3°C to 8°C. The restriction on the compressor frequency is released at a temperature between 13°C and 14°C. | 1. A cooling or dry mode operation conducted at a low outside air temperature is mainly to blame: this is not indicative of any malfunctioning. If the outside air temperature rises during automatic operation in the winter months, the dry mode operation is selected. The H99 diagnostic display also appears at such a time. 2. Check the refrigerating cycle: Gas may be leaking (the amount of refrigerant is low) or a pipe may be broken, etc. 3. Check also for short circuits indoors and clogging of the air filters. |
| F11 | 4-way valve switching failure | CU-2E: When the indoor unit heat exchanger temperature is under -5°C during a warming operation or above 45°C during a cooling or dry mode operation four minutes after the compressor has started up, the F11 diagnostic symbol is stored in the memory, and operation stops. 3 minutes later, operation is restarted. This trouble display appears when this happens on 4 occasions in a 30 minutes period. CU-3E/4E: When a difference of 0°C to 5°C has been detected between the outdoor unit heat exchanger temperature and liquid side pipe temperature on 5 occasions, the trouble display appears. | 1. Check the 4-way valve coil: Check that no power is supplied to the coil during cooling and dry mode operations, and that power is supplied during heating operations. Inspect the coil for broken wires (open circuits). 2. If the coil is troublefree, the switching action of the 4-way valve may be defective. |
| F17 | Indoor standBy units freezing | CU-2E: After the operation of one indoor unit stops continuously for 5 minutes. The hole operation stops when the stopping indoor unit pipe temperature is under -5°C continuously for 1 minute or under 0°C continuously for 5 minutes, and operation restarts after 3 minutes. This trouble display appears if that trouble happens on 3 occasions in a 30 minutes period. CU-3E/4E: When the difference of an intake temperature (room temperature sensor) and the indoor unit heat exchanger temperature (piping sensor) is higher than 10°C or an indoor unit heat exchanger temperature of below -1°C has been detected continuously for 5 minutes, operation stops. Three minutes later, it is started up, and the trouble display appears when this has occurred on 3 consecutive occasions. | 1. Check the refrigerating cycle: Expansion valve leakage. 2. Check the indoor unit pipe temperature sensor (check for changes in its characteristics and check its resistance). |
| F90 | PFC circuit protection (CU-2E) Main circuit low voltage (CU-3E/4E) | CU-2E: When the reputation of the compressor is not synchronized with the control signal, the F93 diagnostic display is stored in the memory, and operation stops. 3 minutes later, operation is restarted. This trouble display appears when this happens on 4 occasions in a 20 minutes period. CU-3E/4E: When a state in which the rotation of the compressor is not synchronized with the control signal has been detected on 8 successive occasions, operation stops, and the trouble display appears. | 1. To check whether the 2-way or 3-way valve has been left open by mistake, operation is performed for one to several minutes after the compressor has started up, F93 is stopped in the memory as the symptom, and operation stops. 2. Check the Inverter circuit (for open circuits) in the control PCB: Check the IPM base current (6 locations) within 3 minutes after the power has been turned back on. As the symptom, F93 is stored in the memory 30 seconds after the compressor has started up, and operation stops. The trouble display appears after 4 restarts. 3. Check for broken wires (open circuits) in the compressor winding: Approximately 1 ohm under normal conditions for each phase (same symptom as in 2.) |
| F91 | Refrigeration cycle abnormality | CU-2E: When the rotation speed of the compressor exceeds the setting frequency and the total current is 1.5A or higher to 1.9A or lower continuously for 5 minutes, operation stops if the indoor unit heat exchanger temperature is higher than 20°C during cooling or dry operation or if it is under 25°C during heating. Three minutes later, it is restarted, and if the trouble occurs on 2 consecutive occasions in a 20 minutes period, the trouble display appears. CU-3E/4E: When the compressor frequency is above 55 Hz and the current drops below the prescribed level continuously for 7 minutes, operation stops, and it is restarted 3 minutes later. When the compressor discharge temperature has exceeded the setting and the expansion valve has remained fully open for 80 seconds, operation stops, and it is restarted 3 minutes later. When the stopping described above has occurred on 4 occasions, operation stops, and the trouble display appears. | 1. Check the refrigerating cycle: Gas may be leaking (more than onehalf of the volume of the gas has gone). The diagnostic displays resulting from a gas leak generally change in the following sequence depending on the extent of the gas leak: H99 → F97 → F91 → H16. The range of this trouble (F91) is limited. (Compressor protection at the start of the season). |
| F93 | Compressor abnormal revolution | CU-2E: When the reputation of the compressor is not synchronized with the control signal, the F93 diagnostic display is stored in the memory, and operation stops. 3 minutes later, operation is restarted. This trouble display appears when this happens on 4 occasions in a 20 minutes period. CU-3E/4E: When a state in which the rotation of the compressor is not synchronized with the control signal has been detected on 8 successive occasions, operation stops, and the trouble display appears. | 1. To check whether the 2-way or 3-way valve has been left open by mistake, operation is performed for one to several minutes after the compressor has started up, F93 is stopped in the memory as the symptom, and operation stops. 2. Check the Inverter circuit (for open circuits) in the control PCB: Check the IPM base current (6 locations) within 3 minutes after the power has been turned back on. As the symptom, F93 is stored in the memory 30 seconds after the compressor has started up, and operation stops. The trouble display appears after 4 restarts. 3. Check for broken wires (open circuits) in the compressor winding: Approximately 1 ohm under normal conditions for each phase (same symptom as in 2.) |
| F95 | Outdoor high pressure protection | CU-2E only: When the temperature of the outdoor unit heat exchanger temperature sensor exceeds 63°C, the F95 diagnostic symbol is stored in the memory, and operation stops. 3 minutes later, operation is restarted at a temperature below 56°C. This trouble display appears when this happens on 4 occasions in a 20-minutes period. | 1. Check the outdoor unit heat exchanger temperature sensor (check for changes in its characteristics and check its resistance). 2. Check whether something is interfering with the dissipation of the heat outdoors. |
| F96 | Power transistor module or compressor overheating (CU-2E) Compressor high discharge temperature (CU-3E/4E) | CU-2E: Heating is detected inside the IPM which shuts itself off, the F96 diagnostic symbol is stored in the memory, and operation stops. 3 minutes later, operation is restarted. The trouble display appears when this happens on 4 occasions in a 30-minutes period. CU-3E/4E: When this trouble is detected from the electrical parts radiation fin temperature sensor and OLP output during operation, operation stops, and it is restarted 3 minutes later. If the trouble occurs on 4 occasions, operation stops, and the trouble display appears. | 1. Something may be interfering with the dissipation of the heat outdoors or the outdoor unit fan may be defective. (The outdoor unit fan is not running). 2. Defective IPM (outdoor unit control PCB). 3. Gas leaks. 2-way or 3-way valve is not opened. |
| F97 | Compressor high discharge temperature | When the temperature of the compressor temperature sensor exceeds 112 to 120°C, the F97 diagnostic symbol is stored in the memory, and operation stops. Two minutes later, operation is restarted at a temperature below 107 to 110°C. CU-2E: The trouble display appears and operation stops when this happens on 4 occasions in a 20 minutes period. CU-3E/4E: This trouble display appears and operation stops when this happens on 6 occasions (it is cleared when the operation is normal for 20 minutes). | 1. Check the refrigerating cycle: Gas may be leaking (the amount of refrigerant is low). The stopping of the outdoor unit from time to time is a symptom of this trouble. 2. When operation steps with this trouble display appearing, check the compressor temperature sensor (check for changes in its characteristics and check its resistance). 3. Something may be interfering with the dissipation of the heat outdoors or the outdoor unit fan may be defective. (The fan will not run because of an open circuit.) (The protection function may be activated by an overload, and the F97 trouble display will remain stored in the memory.) |
| F98 | Total running current protection | CU-2E: When the total current exceeds the setting, the F98 diagnostic display is stored in the memory, and operation stops. 3 minutes later, operation is restarted. The trouble display appears and operation stops when this happens on 3 occasions in a 20-minutes period. CU-3E/4E: When the total current exceeds the setting (17A to 20A), frequency control is started, and if it then exceeds the setting, operation stops, and the trouble display appears. | 1. Check the AC voltage at the outdoor unit terminal board during operation: The voltage drop must be within 5% of the voltage when operation has stopped (± 110% of rated voltage even during operation). If the voltage drop exceeds 5% or if the voltage changes suddenly, inspect whether the power supply cord and indoor/outdoor unit connection cables are too long or too small in diameter, etc. 2. Check whether something is interfering with the dissipation of the heat outdoors (during cooling operations): Normally, the capacity is limited by the current so that the outdoor unit don't stop, and the diagnostic display does not appear. |
| F99 | DC peak detection | CU-2E: If the current level exceeds 22.5A after startup, the compressor stops, and it is restarted 3 minutes later. When this occurs on 7 consecutive occasions, operation stops, and the trouble display appears. CU-3E/4E: When "Output current trouble", which occurs when the prescribed current level is exceeded, has occurred on 16 consecutive occasions, operation stops, and the trouble display appears. | 1. Check whether the compressor is defective (locked up or shorted winding). Check the outdoor unit control PCB. |

OPTIONAL ACCESSORIES

REPLACEMENT ANTI-ALLERGEN FILTER



CZ-SA13P
CS-E9/12/15/18/21HKEA



CZ-SA14P
CS-PW9/12/18GKE, CS-PW24JKE, CS-V7DKE,
CS-V9DKE, CS-V12DKE, CS-V18DKE, CS-V24DKE,
CS-V28EKE, CS-E15DTEW, CS-E18DTEW, CS-E21DTEW



CS-RE9/12/18/24NKE

PIPE REDUCER (for Multi)



CZ-MA1P
CZ-MA1P is to be used to reduce the connection size on the indoor unit to 3/8". CS-E15/18/MKEW, CS-E15/18DTEW, CS-E15/18HB4EA, CS-E15/18JD3EA, CS-E18GFEW, CS-E18GFEW, CS-XE15/18MKEW

PIPE EXPANDER (for Multi)



CZ-MA2P
CZ-MA2P is to be used to increase the connection size on the outdoor unit to 1/2". CS-E21MKEW, CS-XE21MKEW, CS-E21JB4EA



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heating and cooling systems

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