Panasonic

RESIDENTIAL HEAT PUMP SOLUTIONS FULL LINE CATALOG

SINGLE ZONE AND MULTI ZONE

nanoe™X

INVERTER

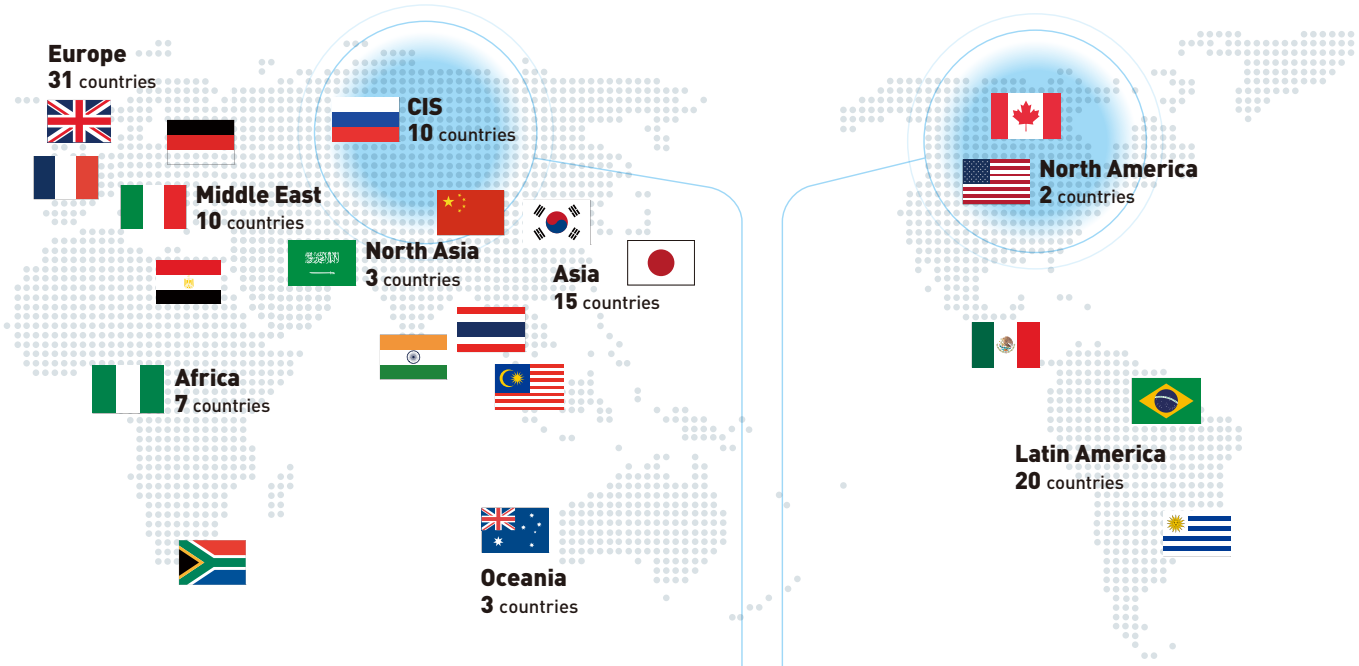
2021/2022 PRODUCT LINE UP

A Better Life, A Better Word

Panasonic has produced over 100 million* air conditioning and heat pump units worldwide.

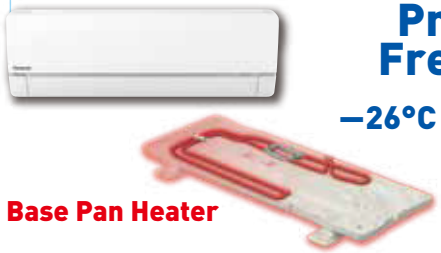
Global Brand

Our global brand serves over 100 counties in all climate zones around the world.



Our air conditioner designs consider local climate characteristics and are used in a wide range of extreme hot to extreme cold regions and countries.

Extreme COLD
Siberia
−25°C (−13°F)



Prevent Freezing
−26°C (−15°F)

Outdoor units are affected by extreme weather conditions which also affects the units performance.
In extreme cold climate and heavy snow fall conditions it is necessary to protect the outdoor unit from freezing.
Panasonic has developed special knowledge and technology for cold climate regions including Siberia and North America.

Panasonic can be characterized as a global pioneer in extreme cold climate heat pump design and installations.

* As of the end of 2014 (According to our research)

Our Evolution

Forever and ever.

1958

Our first home cooler is launched.
A window-type.

1965

Launched indoor and outdoor separate-type.

1969

Launched wall mounted indoor unit with outdoor unit separated.

1972

Launched heat & cool air conditioner.
Launched Heat Pump mini split making heating & cooling possible year-round.

1981

Launched low ambient heat pump units that provide heat in extreme cold climates.

1983

Launched inverter air conditioner.

2008

First model equipped human sensor launched.

2010

First model equipped ECONAVI launched.

2014

XE series –26°C (–15°F) heat operation

2020

ClimaPure XE series with nanoe™ X Indoor Air Purification

Index

Experience a fresher and more comfortable indoor environment

nanoe™ X

5 effects of nanoe™ X air purification technology

Deodorizes
odours

Inhibits 3 Pollutants*
Allergens
Pollen
Hazardous substances

Moisturizes
SKin & hair

*nanoe™ X reduces the concentration of select pollutants, allergens, pollen, PM2.5, and odours but does not prevent them.

What is nanoe™?

nano-technology + electric =

nanoe™ X is nano-sized electrostatic atomized water particles that are rich in OH radicals.

nanoe™ X is the next generation of nanoe™ technology and is generated from moisture in the air that contains highly reactive components known as hydroxyl (OH) radicals, which are effective at suppressing pollutants and odours.

4.8 trillion OH radicals / sec

How nanoe™ works?

Deodorizes Odours

nanoe™ X reaches odour in fabric

OH radicals break down odour-causing substances

Deodorizes smells in fabric

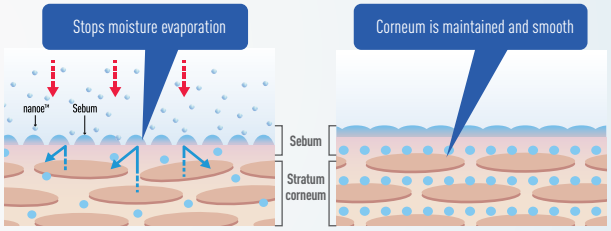
Inhibits Airborne and Adhered Pollutants

nanoe™ X reaches pollutants in fabrics

OH radicals take hydrogen away from pollutants

OH radicals transform hydrogen to inhibit the activity of pollutants

Helps maintain skin moisture



Using existing moisture already in the air, nanoe™ X hydrates the sebum (produced by sebaceous glands to lubricate the skin) on the skin to help prevent loss of moisture.

[28 days later] Leads to smoother, well hydrated skin.*

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

nanoe™ X inhibits both airborne and adhered pollutants and odours in the home

Helps create an environment that's clean and safe for babies

The carpets where babies spend much of their time conceal a great deal of odours, pollutants and allergens deep in their fibers. nanoe™ X inhibits these pollutants, helping to make carpets cleaner and safer for babies.

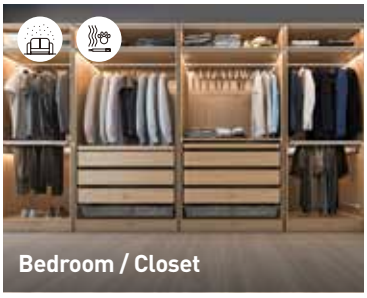
Makes homes more comfortable for families with pets

Mites and dander from pets are a major cause of allergies in the home. nanoe™ X not only effectively inhibits these allergens but also eliminate many odours that permeate mattresses, blankets and more.

Keeps the living room fresh and inviting

The smell of unpleasant odours tends to permeate furniture and curtains over time. nanoe™ X inhibits odours, leaving the air in your living room fresh and inviting.

Protects your valued clothing and other stored items



Air tends to become stale and humid inside closets, encouraging unwanted odours and pollutants. nanoe™ X inhibits the undesirable issues to help protect your clothing and other stored items.

Inhibits harmful substances in PM2.5 brought in from outside

Harmful substances in PM2.5 and pollen that are thought to cause asthma, bronchitis and other health issues tend to cling to your clothing and hair when you come in from outside. nanoe™ X breaks down and inhibit these substances.

Moisturizes skin and hair for a little extra self-care

nanoe™ X helps keep your hair and skin moisturized while you sleep or spend time with your family. nanoe™ X hydrates the sebum on the skin to prevent the loss of moisture.

nanoeX Purifies Home 24 hrs

SENSITIVE CHOICE nanoe™ X

INTERTEK SUSTAINABILITY

VERIFIED ZERO OZONE

DOES NOT EMIT MORE THAN 0.005PPM AS TESTED PER UL 867

Ozone concentration during the nanoe™ X generating mode has been verified by California Air Resources Board (CARB) and INTERTEK respectively per authorized testing standards.

- Standard value of California Air Resources Board (CARB): 0.05ppm or lower
- Standard value of INTERTEK "Verified Zero Ozone": 0.005ppm or lower

Panasonic's Advanced Air Purification System

Panasonic's nanoe™ Technology is a revolutionary air purification system that helps keep your living space fresh and clean for you and your family.

The effects of nanoe™ Technology are recognized by experts in the field

Hope for the creation of more comfortable spaces for those who have problems with asthma or a topic dermatitis

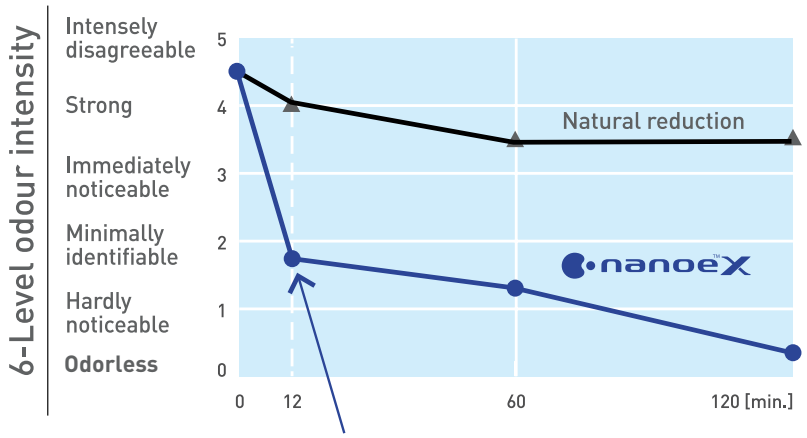
Professor
Masahiro Sakaguchi
Azabu University School of Veterinary
Medicine Department of Veterinary Medicine

We have experimental results that show nanoe™ X is capable of inhibiting allergens, such as pollen and dust mites.
It is important to take precautions against the allergens that we inadvertently inhale in our daily lives.
As nanoe™ X is effective in inhibiting invisible allergens, we can expect it will create a cleaner environment.*

* The above indications and statements are made in reference to available information.

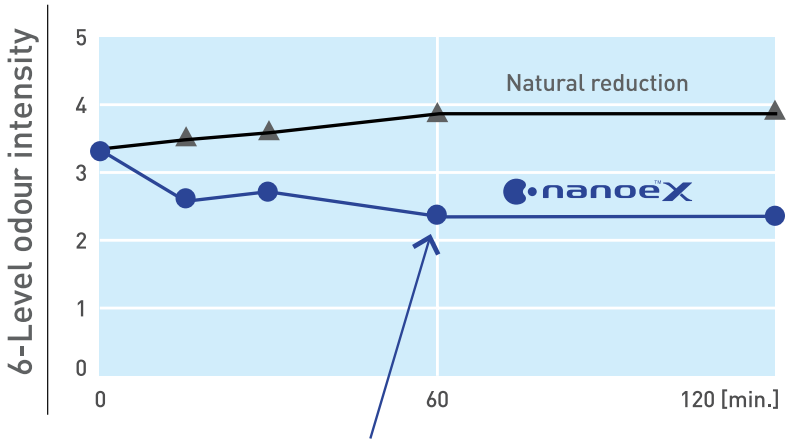
The Effectiveness of nanoe™ X Technology

Cigarette smoke odour[1]



nanoe™ X can reduce cigarette smoke odour intensity by 2.4 levels in 12 minutes.

Pet odour[2]



nanoe™ X reduced pet odour intensity by 1.5 levels in 1 hour

*nanoe™ X reduces the concentration of select pollutants, allergens, pollen, PM2.5, and odours.

[1] <Cigarette smoke odour> [Test org.] Panasonic Product Analysis Center [Test method] Verified using the six-level odour intensity scale method in an approximately 23m³ sized test room [Deodorization method] nanoe™ released [Test substance] Surface-attached cigarette smoke odour [Test result] Odour intensity reduced by 2.4 levels in 12mins (4AA33-160615-N04)

[2] <Pet odour> [Test org.] Panasonic Product Analysis Center [Test method] Verified using the six-level odour intensity scale method in an approximately 23m³ sized test room [Deodorization method] nanoe™ released [Test substance] Surface-attached pet odour [Test result] Odour intensity reduced by 1.5 levels in 1 hour (4AA33-160315-A34)

Research into nanoe™ air improvement te
The nanoe™ technology has spr

Public transport

JR Kyushu
Cruise trains:
Adopted for the
Seven Stars
in Kyushu

KEIHAN
Keihan Railway
Keihan Main Line:
Adopted for
admission-paid
special railcars

KEIO
Keio Line:
Adopted for
new railcar models

JR East
Yamanote line:
Adopted for
E235 series models

Home

• Humidifying air purifiers

• Air conditioners

• Humidifiers

• Clothes drying dehumidifiers

• Fans

Public spaces

• Ceiling-embedded nanoe™ generators

Hotels

Panasonic is committed to the improvement of air quality with

echnology began more than 20 years ago.
read to various fields in Japan.

Office

- 4-way cassette air conditioners
- Elevators

HITACHI

Automotive

Expanding adoption to 39 models
(as of October 31st, 2019)

TOYOTA	LEXUS
SUZUKI	Adopted for 3 models
Adopted as optional accessary	MAZDA SUBARU

Cafes

Hospitals

Nursery schools

Nursing homes

n nanoe™ Technology.

Built-in Wi-Fi with Panasonic Control App: Convenient centralized control

Advanced smartphone control for ClimaPure XE series

Control air source heat pump operation with Panasonic Control App plus additional functions only available through the Cloud from wherever and whenever. One user can manage up to 200 units and also set up different user rights. Also, energy monitoring is possible allowing opportunity to learn how to reduce the operating cost even more.

1 Smart Control

In control of cooling and heating comfort anytime, anywhere.

Connect & control operation
- 20 units per location and up to 10 different locations
- Transform multiple remote controls into one device

Manage multiple units at once
- Turn on all AC units at the same time or by group settings
- Set weekly timers for multiple units to cater to your daily routines

2 Smart Comfort

Easily manage your comfort and air quality.

Adjust set temperature
Set temperature by monitoring real time indoor and outdoor temperatures.

Pre-heat or cool.
Control your house or office comfort before you arrive!

nanoe™ X[1]
Activate nanoe™ X, the advanced technology to deodorize and create healthier environment.

3 Smart Efficiency

More comfort with less wasted energy.

Energy usage analysis[2]
Monitor energy consumption based on different temperature settings.

Energy usage comparison (day/week/month/year)
Compare energy usage history of AC units for better budget planning.

4 Smart Assist

Be informed of breakdowns.

Error codes notification and identification[3]
Launch the App to check error codes for effortless troubleshooting. Help technicians to easily identify the issues.

User's control right
Register multiple users. Set administrator rights and assign users access.

1) nanoe™ X is available in certain series.
2) Estimated energy consumption data accuracy depends on power supply quantity.
3) Contact trained technicians to perform any repairing/service.

Easily control and access all features of remote control anytime, anywhere.

Search for "Panasonic Comfort" in App Store

New possibilities, new applications

Families: Different users can be set up, such as each child can manage their own room. In second homes, rooms can be remotely pre-cooled or pre-warmed, or turned off if needed.

Multi tenant owner: The ability to manage up to 200 units with just one smartphone. It allows for quick and efficient maintenance through remote error codes and the knowledge of consumption.

Small and medium sized offices: Owner can control different rooms of the office easily and give unit by unit access to their staff. Also provides information to know where energy might be wasted for heating and cooling and promoting best comfort practices.

Smart control at your fingertips

With Panasonic Control App, the user can manage all functions of the heat pump such as nanoe™ X, air flow direction, speed, temperature setting, mode, plus more.

Scalability and users management

Easy to include additional units and locations, as well as the ability to include several users with different access rights. This creates more possibilities to manage the family home, a second house and also provides opportunities for small/medium sized offices or multi-tenant properties.

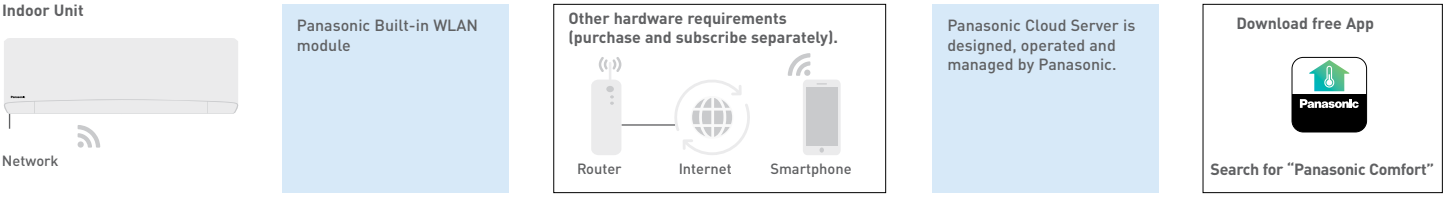
Energy monitor and statistics

Knowing the energy each unit uses when operating is key to see opportunities to reduce the energy bill. The Panasonic Control App stores the energy consumption* of each unit, which can then be shown in easy and powerful statistics graphs.

With the weekly timer the operation can be adjusted to optimize the usage of the energy.

*Estimated energy consumption data accuracy depends on power supply quality.

Connection Diagram to Panasonic Control App



Compatibility with ClimaPure XE models

New voice control.
Words do more than actions.

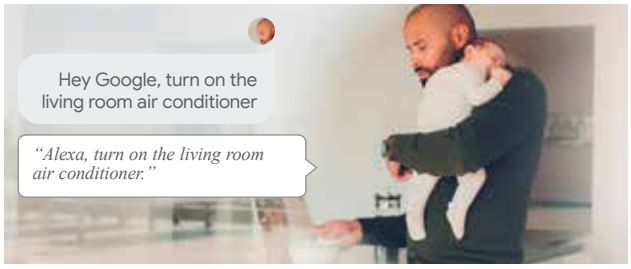
Operate the air with your voice

Enjoy the convenience of accessing these four basic operations with just your voice.*

*Functionality is available for ClimaPure™ CS-XE*WKUA model series. See na.panasonic.com/ca/hvac.

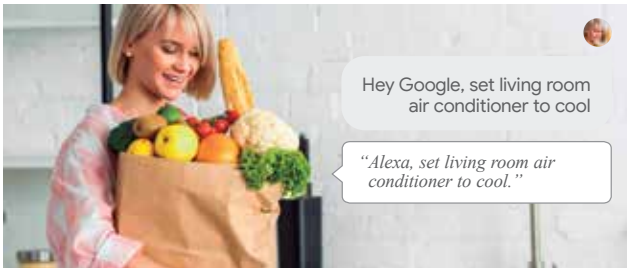
1 Turn on/off air conditioner

Convenient control for blissful rest.
Turn on/off AC with ease when preparing a comfortable space for your little ones.



2 Change mode

Extra help when you have a hectic day.
Conveniently change your AC operation mode to cool / heat / auto when your hands are full.



3 Adjust temperature

Easy control for uninterrupted quality time.
Adjust AC temperature to your comfort with a simple voice command.

4 Check current status

Hands-free comfort for the whole family.
Easy access for the elderly to check current AC operation status and adjust AC settings.

Control without boundaries and get hands-free help to fully access the features of your air conditioners. Maximising your cooling comfort is now a breeze with our Network-Enabled air conditioners with Panasonic Control App and voice control.

Get multiple things done with your voice

Simplify your day with your personalized routine by grouping individual actions.

Schedule your routine with your voice

With the routine function, you can customize voice commands and control multiple voice-controlled devices including our network-enabled air conditioners to help you with your personalized routine.

"Hey Google, Good morning"

"Hey Google, Good night"

Find out more: [Google] https://support.google.com/googlehome/answer/7029585?co=GENIE.Platform%3DAndroid&hl=en&oco=0
[Amazon] https://www.techhive.com/article/3327501/how-to-use-alexa-routines.html

Voice control with Network-Enabled air conditioners

Functions		When you are home		When away from home
		Remote Control	Voice Control	Panasonic Control App
Smart control	Power ON/OFF	✔	✔	✔
	Control multiple AC units in 1 location	–	–	✔
	Control multiple units in multiple locations	–	–	✔
	Set up and manage routines	–	✔	–
Smart comfort	Cooling mode	✔	✔	✔
	Heating mode	✔	✔	✔
	Auto mode	✔	✔	✔
	nanoe™ X mode	✔	–	✔
	Pre-cool	–	–	✔
	Change temperature	✔	✔	✔
Smart efficiency	Analyse energy usage patterns	–	–	✔
	Compare historical usage	–	–	✔
Smart assist	Receive error notifications	–	–	✔
	Assign multiple users		✔	✔
	Check power ON/OFF	✔	✔	✔
	Check current mode	✔	✔	✔
	Check temperature settings	✔	✔	✔
	Check room temperature	✔	✔	✔

How to setup

To sync with your voice assistant, first the AC unit has to be registered in Panasonic Control App.

How to sync Panasonic Control App with the Google Home.

1. Open the Google Home App.
2. Tap "Account".
3. Choose "Set up or add".
4. Choose "Set up device".
5. Choose "Works with Google; Have something already set up?
6. Search for "Panasonic Comfort".
7. Insert your "Panasonic Comfort" username and password.

How to sync Panasonic Control App with the Amazon Alexa.

1. Open the Amazon Alexa App.
2. Tap "Devices".
3. Choose "Your Smart Home Skills".
4. Choose "Enable Smart Home Skills".
5. Search for "Panasonic Comfort".
6. Insert your "Panasonic Comfort" username and password.

Compatible device and browsers as of March 2020

1. Android™ 4.4 KitKat® or above
2. iOS 9.0 or above

Please note:
- This is not a definitive list of all compatible devices, other similar devices which use supported Operating Systems should also work either via dedicated Apps. Please note that user experience may vary slightly depending on hardware and software combination
- Google, Android, Google Play, and Google Home are trademarks of Google LLC. KitKat is a registered trademark from Nestlé S.A.
- Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates
- Availability of Voice Assistant services varies depending on country and language
- More information about set up procedures: https://aircon.panasonic.com/connectivity/application.html

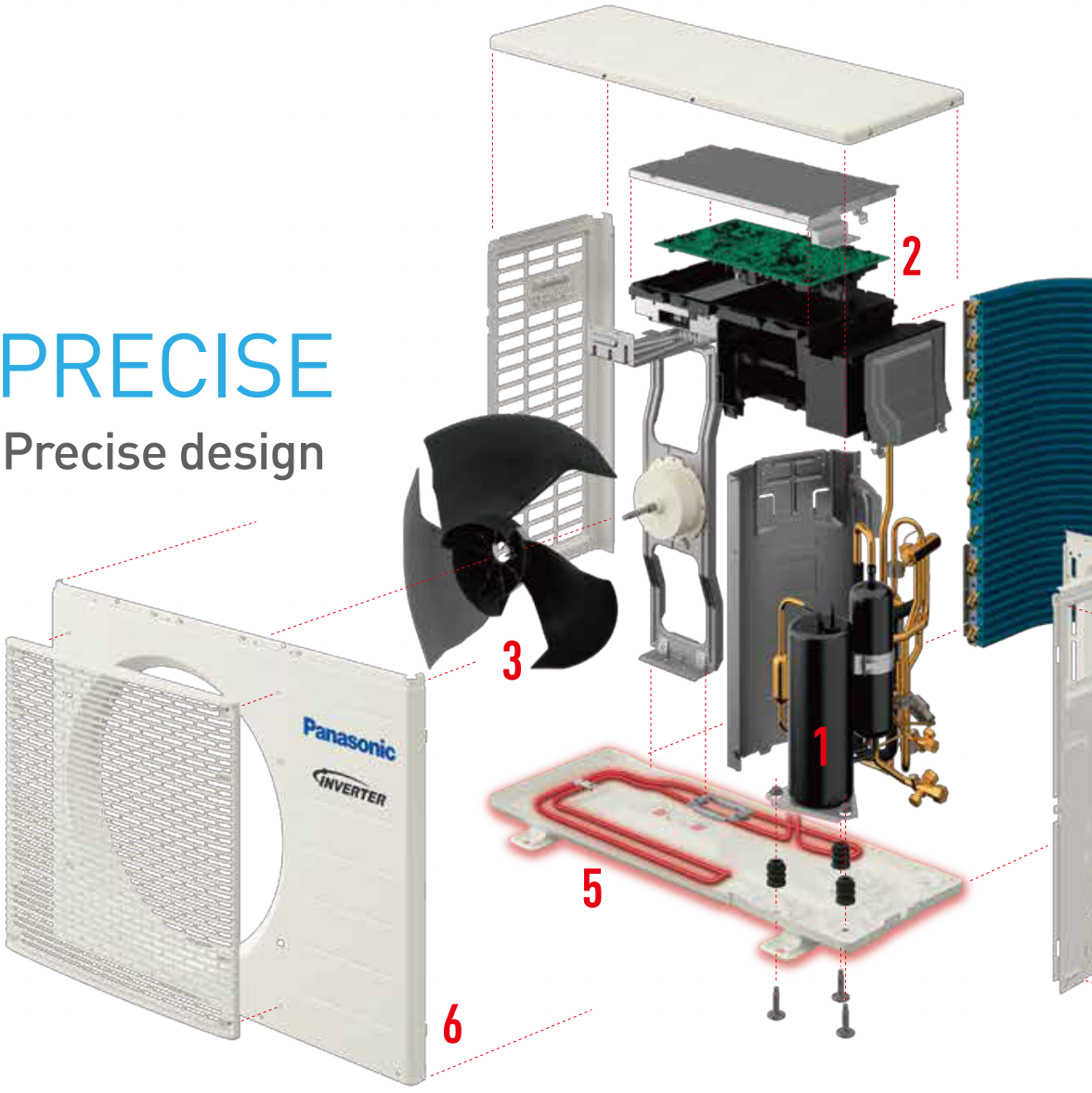
Download on the App Store

GET IT ON Google Play

Rugged design that continues to operate high performance even in cold climate of -26°C (-15°F)

PRECISE

Precise design



Components arranged in an orderly manner are proof of high-precision and careful finishing. The compressor, which is the heart of the air conditioner, is wrapped in insulation to provide soundproofing and reduce condensation.

1 High-Efficiency Compressor

High-performance compressor with wide power output range operates accurately with less than 1 ampere for precise operation.

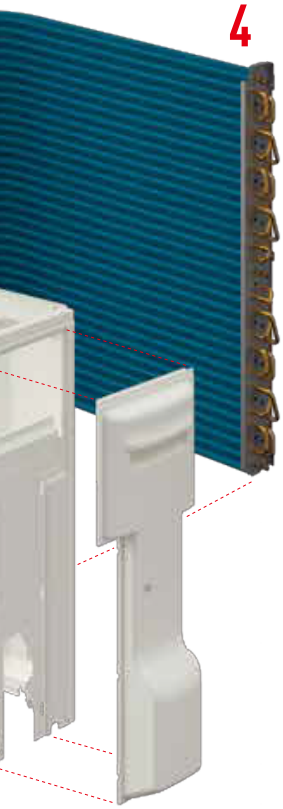
Low Vibration

Anti-vibration rubber mounts on the compressor legs absorb impact and improves durability.

2 Inverter Technology

INVERTER

Advanced drive technology adjusts precise compressor motor rotation. During the start-up phase, the compressor quickly provides powerful, high-speed rotation; during the run phase the compressor smoothly shifts to a low speed rotation for energy savings. This maximizes compressor performance and optimizes high efficient operation.



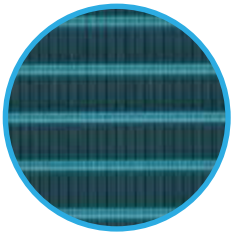
TOUGHNESS

Precise design

4

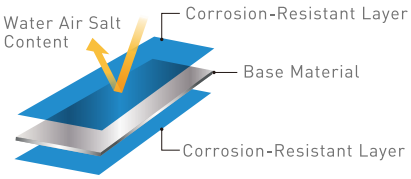
Blue Fin Condenser

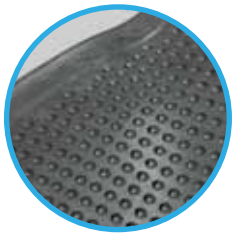
Blue Fin anti-rust coating is applied to each fin. This special coating prevents rust from salt air and moisture from rain and melting snow and assures longer life of the heat exchanger.



3 layer structure
3 times longer lasting

Note: According to Panasonic test results.

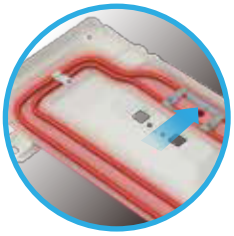




3

High-Efficiency Blades

Frost on heat exchanger is frequent in cold climates. The three blade, high static pressure design moves air quietly and evenly even under harsh conditions and provides high-efficiency operation.



5

Base Pan Heater/Multiple Drain Ports

A heating element placed around the base pan prevents freezing condensate inside the outdoor unit. Multiple drain holes assist prompt drainage.

Quiet

Smooth rotation and low vibration ensure quiet operation and durability.

Silicone Coating

The brains of the air conditioner, printed circuit board is coated with silicone to prevent malfunction from insulation deterioration.

6

Powder Coated Finish

An industrial grade paint used on exterior finishes for guardrails, automobile parts provide corrosion resistance and durability.

Reliability and exceptional quality with over 200 quality assurance tests

Durability

A rugged design ensures that the air conditioners will continue to keep the room comfortable, and provide reliable operation for many years. Panasonic believes this is the true value of an air conditioner and the reason we subject them to a wide range of stringent durability tests.

- **Long-term Durability Test**
- **Compressor Reliability Test**
- **Operating Test in Harsh Conditions**
- **Waterproof Test**

Panasonic conduct tests under conditions that are much more severe than actual operating conditions.

The outdoor unit is provided with IPX4 waterproof compliance. Also, an operating durability test has been conducted at a temperature up to 54.4°C (130°F) down to -25°C (13°F) in test chamber.

Shock Resistance

Panasonic simulates impacts, vibrations and other external conditions that air conditioners might receive during transportation. We assure that the quality and performance at the time of the final product inspection are maintained when the product reaches the user's home.

- **Drop Test**
- **Vibration Test**
- **Warehouse Stacking Test**

Even with the large impacts during transportation, the product packaging has been strengthened to prevent it from being damaged.

We place a weight on top of the test package and leave it in a room at high-temperature and humidity. After this warehouse simulation test, the product is checked for proper operation.

Air conditioners should keep each person in the room comfortable without making their presence known. They should work totally in the background, using their strength to create and maintain a comfortable environment. We build this hidden strength into our air conditioners, and test them repeatedly from this viewpoint.

- **Noise Test**
- **Environmental Test**
- **EMC (Electromagnetic Compatibility) Test**
- **Remote Control Usability Test**

An actual air conditioner is operated in a test room that simulates a standard living room. The test makes it possible to confirm optimum performance level under ever-changing conditions.

A variety of tests are conducted to judge the visibility of the button colors, operating ease. The remote control is also subjected to a 1.5-meter dropping test from various angles.

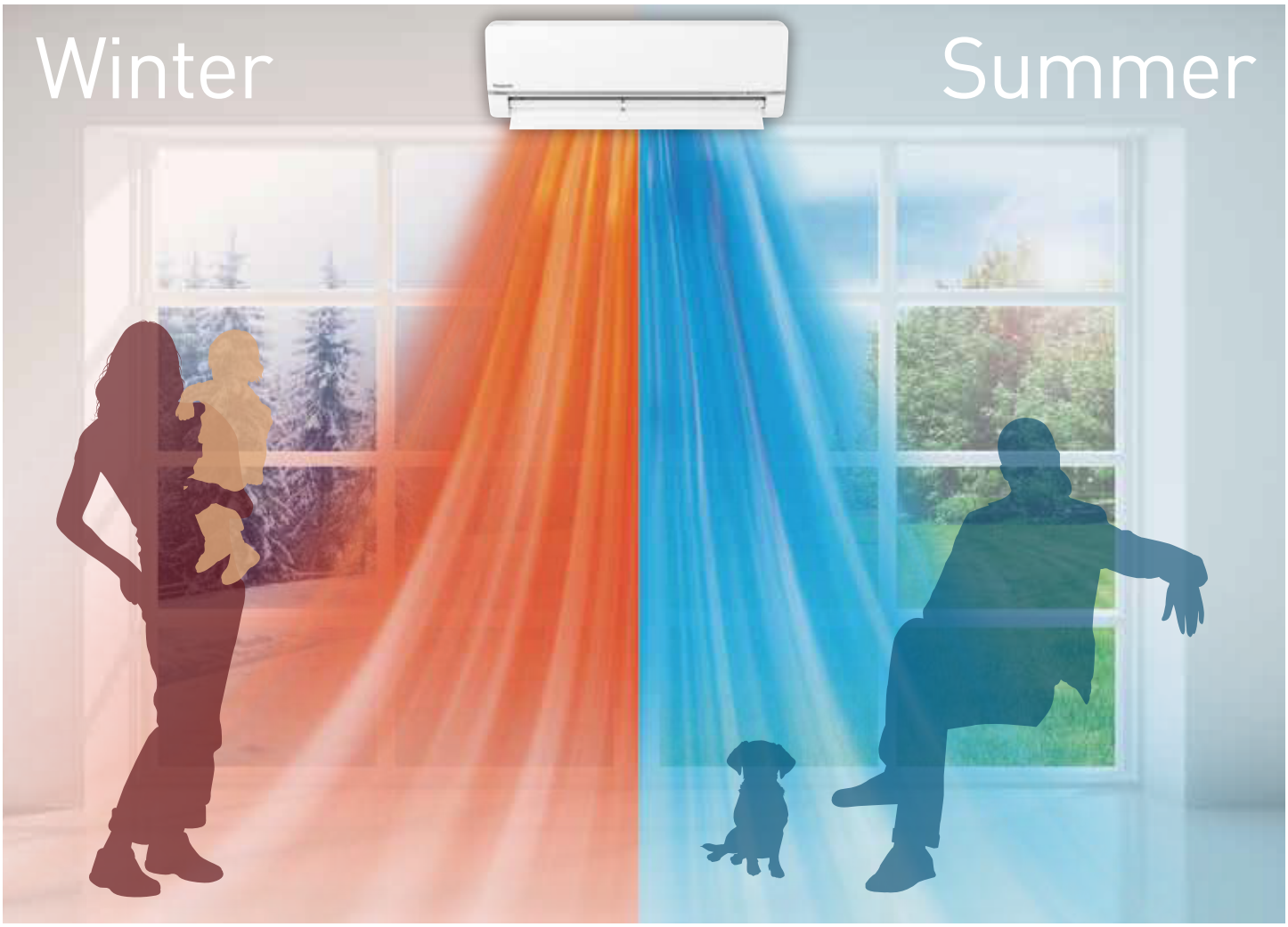
Panasonic continues to offer the highest quality with the lowest possible environment impact. The fundamental principles of Panasonic products naturally apply to air conditioners. In order to live up to our reputation for quality, we work to overcome challenges and devote maximum efforts all over the world.

- **International Standard Quality**
- **Sophisticated Production Process**

Panasonic air conditioners comply with all necessary leading industrial standards and regulations required for the market in each country.

Panasonic factories reduce CO2 emissions and conduct regional-based environmental communication activities to contribute to both the global environment and the local communities.

With Panasonic, heating and cooling are all-in-one providing year-round comfort



Superb comfort

PRECISE CONTROL

Panasonic inverter technology continually adjusts its compressor rotation speed to provide maximum performance at all times. This precise operation enables quick cooling or heating while reducing power consumption compared to conventional non-inverter units.

Reduces Electricity Consumption

Panasonic inverter air conditioners/heat pumps are designed to give you exceptional energy savings while ensuring you stay comfortable at all times.

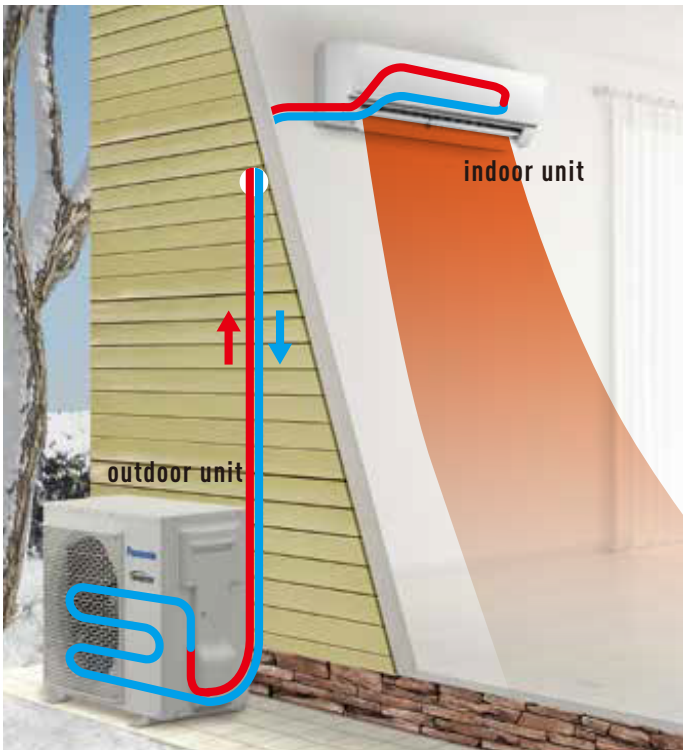
Constant Comfort

Precise temperature control with a wide power output range enables an Inverter air conditioner/heat pump to meet different room occupancy levels, providing constant comfort.

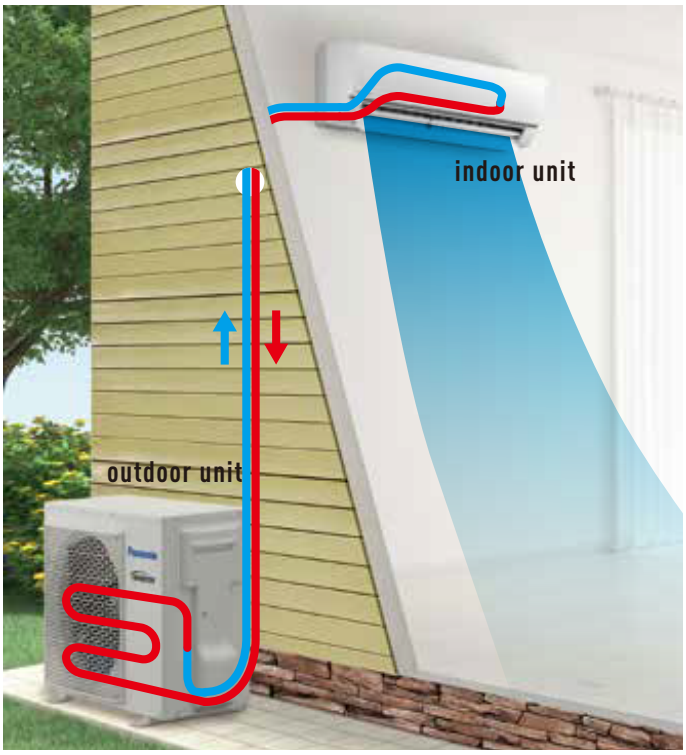
All seasons

YEAR-ROUND USE

The air conditioning heat pump consists of a single or multiple indoor units and a single outdoor condenser unit. The indoor and outdoor units are connected by refrigerant pipes that cycle refrigerant gas between the indoor and outdoor units. The direction of the gas can be switched which changes operation between heating and cooling. This switching change is done with a simple button push on the remote controller and heating and cooling comfort is provided year-round.



At heating operation Simply said, heat is transferred from outdoors to indoors using a compressor and high pressure, high temperature refrigerant. Cool air is drawn into the indoor unit and Warm air is released into the room. The refrigerant cycle continually repeats.



At cooling operation Simply said, heat is transferred from indoors to outdoors using a compressor and high pressure, high temperature refrigerant in a reverse cycle from heating. Warm moist air is drawn into the indoor unit and Cool dry air is released into the room. The refrigerant cycle continually repeats.

Quick Cooling and Heating

Panasonic Inverter air conditioner/heat pump can operate with higher cooling/heating power the room faster than non-inverter models.

Whisper Quiet Operation

The indoor operating noise has been reduced by 5dB as the Inverter constantly varies its output power to enable more precise temperature control.

Advanced Inverter & ECONAVI Technology

Optimum Performance while reducing Energy Usage

Panasonic inverter technology constantly adjusts its compressor rotation speed to provide maximum performance at all times. This precise operation enables quick cooling or heating while reducing power consumption compared to conventional non-inverter units.

Reduces Electricity Consumption

Panasonic inverter air conditioners/heat pumps are designed to give you exceptional energy savings while ensuring you stay comfortable at all times.

Constant Comfort

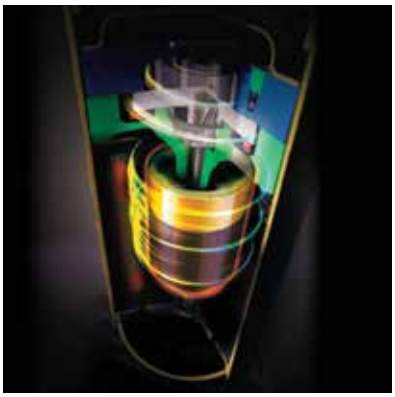
Precise temperature control with a wide power output range enables an inverter air conditioner to meet different room occupancy levels, providing constant comfort.

Quick Cooling and Heating

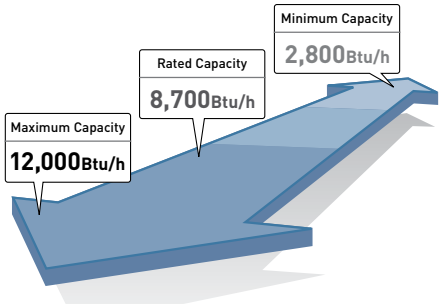
Panasonic Inverter air conditioners can operate with higher cooling/heating power during the start-up period to cool/heat the room faster than non-inverter models.

Whisper Quiet Operation

The indoor operating noise has been reduced by 5dB as the Inverter constantly varies its output power to enable more precise temperature control.



- **Wider Output Power Range**



What's ECONAVI?

High-precision sensor technology allows efficient, automatic operat to match room conditions. This keeps everyone comfortable while s energy.

What does ECONAVI detect?

EXAMINE
- Level of activity.
- Human presence.

EVALUATE
- Changes in human activity.
- Changes in human presence.

EXECUTE
- Low activity: Auto increase set temperature.
- Absence: Auto increase set temperature.

Advanced ECONAVI Technology

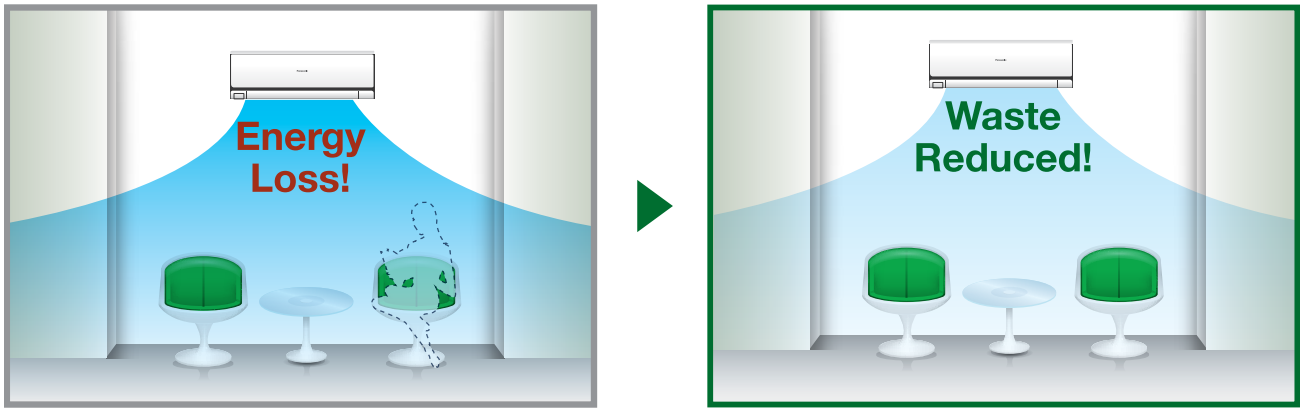
Energy Saving and Comfort through Sensor Technology

ECONAVI

ECONAVI SENSOR

1. Absence Detection Human Activity Sensor

Reduces energy usage when no activity is detected.

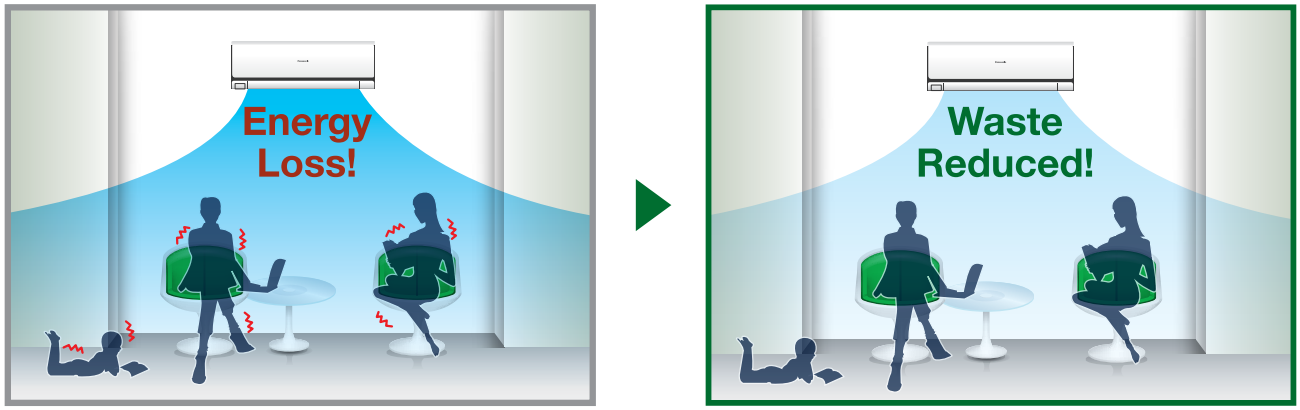


ECONAVI mono sensor

Switches from high operation to reduce cooling.

2. Activity Detection Human Activity Sensor

When activity is detected, sensors start working to efficiently cool the zone.



ECONAVI mono sensor

Switches from high to mild cooling.

Air Conditioner and Heat Pump Line-Up

Your Best Choice in Mini Split Air Conditioning and Heat Pump Systems

Since 1983, Panasonic Mini Split Air Conditioner and Heat Pump products offer a wide range of versatile solutions for cooling and heating requirements for single or multiple rooms. The indoor unit (evaporator) is mounted inside a room and connected to the outdoor unit (condenser) via refrigerant lines and inter-unit wiring through a 3-1/2" opening in the wall. Since no ductwork is required, installation is simple, fast and efficient. Ducted models are also available.

The indoor unit has been uniquely designed to provide whisper-quiet operation while delivering comfort throughout the room. Panasonic Mini Split Systems are stylish and provide the quality and reliability you can count on.

MULTI ZONE: Residential and Light Commercial Applications

MULTI SPLIT HEAT PUMPS						
Zones			2	2 thru 3	2 thru 4	2 thru 5
System Btu/h			18,000 (1.5 TON)	19,000 (1.5 TON)	24,000 (2.0 TON)	36,000 (3.0 TON)
SEER (Non-Ducted / Ducted)			19.0 / 19.0	22.0 / 18.5	22.0 / 19.0	18.5 / 16.5
HSPF (Non-Ducted / Ducted)			9.5 / 9.0	10.5 / 9.0	9.5 / 9.0	10.0 / 9.5
Outdoor Unit			 CU-2E18SBU-5	 CU-3E19RBU-5	 CU-4E24RBU-5	 CU-5E36QBU-5
Indoor Unit	Wall Mount 5,000 Btu/h		CS-ME5RKUA	CS-ME5RKUA	CS-ME5RKUA	CS-ME5RKUA
	Wall Mount 7,000 Btu/h		CS-ME7RKUA	CS-ME7RKUA	CS-ME7RKUA	CS-ME7RKUA
	Wall Mount 9,000 Btu/h		CS-E9RKUAW	CS-E9RKUAW CS-XE9WKUAW	CS-E9RKUAW	CS-E9RKUAW
	Wall Mount 12,000 Btu/h		CS-E12RKUAW	CS-E12RKUAW CS-XE12WKUAW	CS-E12RKUAW	CS-E12RKUAW
	Wall Mount 15,000 Btu/h		N/A	CS-XE15WKUAW	N/A	N/A
	Wall Mount 18,000 Btu/h		N/A	CS-E18RKUAW CS-XE18WKUAW	CS-E18RKUAW	CS-E18RKUAW
	Wall Mount 24,000 Btu/h		N/A	N/A	CS-E24RKUAW	CS-E24RKUAW
	4-Way Cassette 9,000 Btu/h		CS-ME9SB4U	CS-ME9SB4U	CS-ME9SB4U	CS-ME9SB4U
	4-Way Cassette 12,000 Btu/h		CS-E12RB4UW	CS-E12RB4UW	CS-E12RB4UW	CS-E12RB4UW
	4-Way Cassette 18,000 Btu/h		N/A	CS-E18RB4UW	CS-E18RB4UW	CS-E18RB4UW
	Slim Duct 5,000 Btu/h		CS-ME5SD3UA	CS-ME5SD3UA	CS-ME5SD3UA	CS-ME5SD3UA
	Slim Duct 7,000 Btu/h		CS-ME7SD3UA	CS-ME7SD3UA	CS-ME7SD3UA	CS-ME7SD3UA
	Slim Duct 9,000 Btu/h		CS-E9SD3UAW	CS-E9SD3UAW	CS-E9SD3UAW	CS-E9SD3UAW
	Slim Duct 12,000 Btu/h		CS-E12SD3UAW	CS-E12SD3UAW	CS-E12SD3UAW	CS-E12SD3UAW
	Slim Duct 18,000 Btu/h		N/A	CS-E18SD3UAW	CS-E18SD3UAW	CS-E18SD3UAW

All Multi Zone Systems require a minimum 2 indoor units installed.
When selecting Multi-Zone please consider System Capacity and Indoor Unit Combinations. See pages 42 and 43.

SINGLE ZONE: Residential Applications

RESIDENTIAL								
System Btu/h				9,000	12,000	15,000	18,000	24,000
ClimaPure™ XE –26.1°C (–15°F) Degree	Up To 28.2 SEER 14.5 HSPF	Outdoor Unit		CU-XE9WKUA	CU-XE12WKUA	CU-XE15WKUA	CU-XE18WKUA	CU-XE24WKUA
		Wall Mount		CS-XE9WKUAW	CS-XE12WKUAW	CS-XE15WKUAW	CS-XE18WKUAW	CS-XE24WKUAW
EXTERIOS –20.5°C (–5°F) Degree	Up to 23.0 SEER 11.0 HSPF	Outdoor Unit		CU-E9RKUA	CU-E12RKUA	N/A	CU-E18RKUA	CU-E24RKUA
		Wall Mount		CS-E9RKUAW	CS-E12RKUAW	N/A	CS-E18RKUAW	CS-E24RKUAW
Pro Series –20.5°C (–5°F) Degree	Up to 16 SEER 8.5 HSPF	Outdoor Unit		CU-RE9SKUA	CU-RE12SKUA	N/A	CU-RE18SKUA	CU-RE24SKUA
		Wall Mount		CS-RE9SKUA	CS-RE12SKUA	N/A	CS-RE18SKUA	CS-RE24SKUA
Pro Series 115 volt –25°C (–13°F) Degree	Up to 20.0 SEER 10.5 HSPF	Outdoor Unit		CU-YE9WKU1	CU-YE12WKU1	N/A	N/A	N/A
		Wall Mount		CS-YE9WKU1	CS-YE12WKU1	N/A	N/A	N/A
4-Way Ceiling –15°C (5°F) Degree	Up to 18.0 SEER 9.0 HSPF	Outdoor Unit		N/A	CU-E12RB4U	N/A	CU-E18RB4U	N/A
		4-Way Cassette		N/A	CS-E12RB4UW	N/A	CS-E18RB4UW	N/A
Ducted –20.5°C (–5°F) Degree	Up to 20.5 SEER 10.0 HSPF	Outdoor Unit		CU-E9SD3UA	CU-E12SD3UA	N/A	CU-E18SD3UA	N/A
		Ducted		CS-E9SD3UAW	CS-E12SD3UAW	N/A	CS-E18SD3UAW	N/A

Representative product images shown here. See product page for actual model images.

Model Feature Chart

		HEAT PUMPS					
	Wall Mounted	XE9WKUA XE12WKUA XE15WKUA XE18WKUA XE24WKUA	E9RKUA E12RKUA E18RKUA E24RKUA	RE9SKUA RE12SKUA RE18SKUA RE24SKUA	YE9WKU1 YE12WKU1 (115V)		
	4-Way Cassette						E12RB4U E18RB4U
	Ducted					E9SD3UAW E12SD3UAW E18SD3UAW	
nanoeX	nanoe™X Purification System	✓					
Wi-Fi	Wi-Fi	Built-in	Option	Option		Option	Option
	Auxiliary Heat Connect	✓					
ECO NAVI M	ECONAVI Sensor		✓				
DRY	Dry Mode	✓	✓	✓		✓	✓
Blue Fin Condenser	Blue Fin Condenser	✓	✓	✓		✓	
	Room Freeze Protection	✓					
	Microprocessor-Controlled Operation	✓	✓	✓		✓	✓
	Wireless Remote Controller	✓	✓	✓	✓	✓	✓
	Wired Remote Controller	Option	Option	Option	✓	Option	Option
	Self-Diagnosing Function	✓	✓	✓	✓		✓
AUTO	5 Fan Speeds and Automatic Fan Operation	✓	✓	✓	✓	✓	✓
	Air Sweep Control	✓	✓	✓	✓		✓
	Louver Control	✓	✓	✓	✓		✓
	Base Pan Heater	✓			✓		
COOLING HEATING	Automatic Heating and Cooling Changeover	✓	✓	✓	✓	✓	✓
	Hot Start Heating System	✓	✓	✓	✓	✓	✓
24H PROGRAM	24-Hour Clock with ON/OFF Program Timer	✓	✓	✓	✓	✓	✓
1H Timer	1-Hour OFF Timer				✓		
WEEKLY Timer	Weekly Timer	Option	Option			Option	Option
	System Controller				✓		
Filter sign	Filter Sign	Option	Option			Option	Option
	Automatic Restart Function after Power Failure	✓	✓	✓	✓	✓	✓
DP	Built-In Drain Pump					✓	✓
LOW AMBIENT	Low Ambient	✓	✓	✓	✓	✓	✓
ELECTRIC	Electric Expansion Valve	✓	✓	✓	✓	✓	✓
R-410A	R-410A Refrigerant	✓	✓	✓	✓	✓	✓
Quiet	Quiet Mode	✓	✓	✓		✓	✓
	PM2.5 Filter (option)	✓					
	Anti-Microbial Filter (option)	✓	✓	✓			

Features

nanoe™ X Air Purification System

Advanced nanoe™ X air purification technology with no maintenance required. (See pages 4-9)

Wi-Fi Options

Control heating and air conditioning through easy-to-use smartphone app.

- XE with Built-in Wi-Fi (See pages 10, 11, 45)
- Other models optional Wi-Fi adapter (See page 46)

Auxiliary Heat Connect

Optional auxiliary heater connection kit to turn on/off an auxiliary heater device during extreme low ambient conditions.

ECONAVI Sensor

Automatic sensor for energy efficiency and comfort. Absence & Activity Detection, Area Search

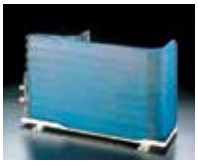
Dry Mode

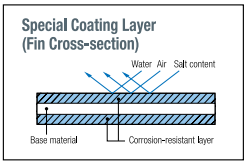
By coupling compressor and fan operation, intermittent operation can be precisely controlled according to room temperature, so that air is efficiently dehumidified.

Blue Fin Condenser

Condensers can take a beating from exposure to salty air, rain and other corrosive factors. Panasonic has extended the life of its condensers with an original anti-rust coating.

Tested for 2,000 salt spray hours.





Room Freeze Protection*

Room Freeze Protection mode helps prevent plumbing damage due to sub-Freezing Temperature. This mode automatically turns on the compressor for heat pump operation if the room temperature falls to about 7.8°C (46°F).

*This function may not be performed if the unit is not powered, or if the unit is unable to operate such as in protection mode. Please consult with the HVAC installers or professional for details.

Microprocessor-Controlled Operation

Microprocessor control ensures that the temperature and humidity levels in the room are comfortable.

Wireless Remote Control

Panasonic's infrared Remote Control with an easy-to-read LCD Display, gives the user the capability to adjust & set: temperature, sweep (louver control), fan speeds, timer and more, for complete automatic operation.

Self-Diagnosing Function

Units are equipped with Self-Diagnosing Function (methods are different depending on the models). This makes it easier to diagnose malfunctions, greatly reducing service labor (Wired remote controller).

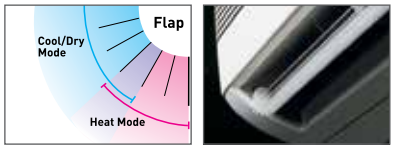
(Example of CZ-RTC2)

5 Fan Speeds and Automatic Fan Operation

Convenient microprocessor control automatically adjusts fan speed to High, Medium or Low, according to room temperature to maintain a comfortable airflow throughout the room.

Air Sweep Control

The air sweep function moves the louver up and down in the air outlet, directing air in a "sweeping" motion around the room.



Base Pan Heater

Exterios XE models include a base pan heater that helps prevent freezing condensate and allows very low ambient operation.

Automatic Heating and Cooling Changeover

After setting the temperature and functions you desire, just relax. If the room temperature is higher than the set temperature, cooling operation begins. If the room temperature is lower than the set temperature, heating operation begins. During normal thermostat cycle operation, cooling and heating operations automatically change in accordance with set temperature, time and room temperature (Single Zone Heat Pump unit only).

Hot Start Heating System

Right from the start, air is warm and comfortable. The Hot Start Heating System helps prevent any cold blasts at the beginning while the heat pump is warming up (Heat pump unit only).

24-hour Clock with ON/OFF Program Timer

The remote control unit allows you to set a wide variety of timer-based operations. Such functions include automatic ON/OFF with a timer setting, same time ON/OFF every day, ON timer, OFF timer and Combination timer.

1-hour OFF Timer

When this button is pushed either while the unit is operating or while it is stopped, the unit will operate for one hour, then switch off automatically.

Filter Sign

Filter sign informs you when filter maintenance is necessary.

XE/E series with CZ-RD516C-1

Automatic Restart Function after Power Failure

Built-In Drain Pump

Max. head 20 inches from the discharge of the indoor unit. Condensation pump is only for allowing drain line to meet minimum gravity flow requirements.

Low Ambient

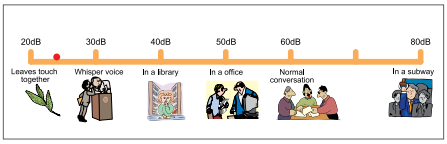
Low Ambient heating operation models range from –15°C (5°F) to –26.1°C (–15°F)

Electric Refrigerant Control Valve

The circulation volume of the refrigerant is controlled by a pulse type electric control valve. In order to attain optimum efficiency, when the power is switched ON, the opening degree of the electric control valve is controlled between 90 and 480 steps.

Quiet Mode

LOW, low fan speed for extra quiet operation.



Stage 2 Filter

PM2.5 to inhibit up to 90% of dust particles.

Anti-Microbial treated to inhibit the growth of mold and mildew.

Test Comparison

	Microbial Growth Rating	
	7 days	28days
Anti-microbial Filter	No growth	No growth
Normal Filter Paper	60% growth	60% growth

*Tested per ASTM G21-96 equivalent

The latest breakthrough in energy efficiency and high performance

ClimaPure™ XE

WALL MOUNTED HEAT PUMP
COLD CLIMATE SERIES

The new **ClimaPure™ XE** ductless heating and air conditioning system features nanoe™ X — a built-in air and surface purification technology that provides a comfortable environment for occupants by reducing pollutants and odours. nanoe™ X penetrates deep into the fibers of carpets and furniture to inhibit pollutants and odours. Featuring whisper-quiet heating and cooling and advanced built-in air purification technology, the XE series sets a new standard for a comfortable indoor environment.

LOW AMBIENT

Low Ambient Heating –26.1°C (–15°F)

Operational heat capacity down to –26.1°C (–15°F) provides heating in extreme cold regions. Low Ambient performance specifications qualifies ClimaPure™ XE series for most air source heat pump rebate programs.

nanoeX

nanoe™ X Air and Surface Purification

nanoe™ X generates large quantities of hydroxyl radicals that are distributed throughout the room to reduce air and surface pollutants and odours resulting in a cleaner living environment. See pages 4-9. ClimaPure™ XE series also offers an optional CZ-SA321P filter to further reduce PM2.5.

Helps Prevent Freezing with Base Pan Heater

Base Pan Heater is included with ClimaPure™ XE models and operates during defrost cycles to help prevent frozen condensate. Multiple drain holes to help prevent frozen condensate build up.

Built-in Wi-Fi with Panasonic Control App

Manage all function of the mini-split from any location using ClimaPure™ XE series Built-in Wi-Fi with Panasonic Control App. Set up user rights to manage scalability up to 200 units in 10 locations.

Room Freeze Protection

Helps prevent plumbing damage due to sub-freezing temperatures. Automatically turns on compressor for heat pump operation if the room temperature falls below 7.8˚C (46˚F).

28.2 SEER | 14.5 HSPF

High Energy Efficiency

Provides high energy efficiency up to 28.2 SEER, 14.5 HSPF which reduces operating costs.

INVERTER

Inverter Technology

Panasonic inverter technology provides optimum power control and extremely efficient operation by modulating the compressor capacity. The result is efficient and flexible operation using less electricity.

Blue Fin Condenser

Blue Fin Condenser

Condensers can take a beating from exposure to salty air, rain and other corrosive factors. Panasonic has extended the life of its condensers with an anti-rust coating.

WALL MOUNTED HEAT PUMP COLD CLIMATE SERIES

System			XE9WKUA			XE12WKUA			XE15WKUA			XE18WKUA			XE24WKUA		
Indoor Model			CS-XE9WKUAW			CS-XE12WKUAW			CS-XE15WKUAW			CS-XE18WKUAW			CS-XE24WKUAW		
Outdoor model			CU-XE9WKUA			CU-XE12WKUA			CU-XE15WKUA			CU-XE18WKUA			CU-XE24WKUA		
Low Ambient Heat Operation			-26.1°C (–15°F) (no lockout)			-26.1°C (–15°F) (no lockout)			-26.1°C (–15°F) (no lockout)			-26.1°C (–15°F) (no lockout)			-26.1°C (–15°F) (no lockout)		
			MIN	RATED	MAX	MIN	RATED	MAX	MIN	RATED	MAX	MIN	RATED	MAX	MIN	RATED	MAX
Cooling (Indoor Dry Bulb 80°F)	95°F	BTU/h	2800	8700	12000	2800	11500	14000	3300	14700	19000	5800	17200	19800	5800	24000	27200
Heating (Indoor Dry Bulb 70°F)	47°F	BTU/h	3000	10900	18000	3000	12000	23000	3300	17200	24000	5800	20400	30000	5800	28800	33800
		COP (W/W)	5.93	4.79	3.21	5.93	4.39	3.73	4.90	4.00	2.65	4.47	3.66	3.14	4.47	3.36	3.30
	17°F	BTU/h		8000			10000			11000			14000			18500	
		COP		3.13			2.79			3.16			2.93			2.64	
	5°F	BTU/h		–	11000		–	12000		–	17200		–	20400		–	25200
		COP		–	2.30		–	2.20		–	2.10		–	2.30		–	2.170

SEER			28.20			24.60			21.10			21.00			20.00		
EER			16.1			14.15			12.55			13.2			10.9		
HSPF Region IV			14.50			13.00			12.00			12.00			10.60		
ENERGY STAR®			Yes			Yes			Yes			Yes			N/A		
Moisture Removal Volume		Pt/h	1.3			2.5			4.0			3.6			–		
NEEP Tier level			Tier 2			Tier 2			Tier 2			Tier 2			Tier 2		
Base Pan Heater			Included			Included			Included			Included			Included		
Auxiliary Heater Connection			AUXHTK1 (optional)			AUXHTK1 (optional)			AUXHTK1 (optional)			AUXHTK1 (optional)			AUXHTK1 (optional)		
Connectivity			Built-in Wi-Fi plus App			Built-in Wi-Fi plus App			Built-in Wi-Fi plus App			Built-in Wi-Fi plus App			Built-in Wi-Fi plus App		
Wireless Controller			Included			Included			Included			Included			Included		
Wired Controler			CZ-RD516C-1 (optional)			CZ-RD516C-1 (optional)			CZ-RD516C-1 (optional)			CZ-RD516C-1 (optional)			CZ-RD516C-1 (optional)		

Noise Cooling	Indoor	dB-A (H/L/Q-Lo)	42	25	20	45	28	20	45	37	34	47	39	36	49	40	37
	Outdoor	dB-A (H/L/Q-Lo)	48	–	–	49	–	–	51	–	–	52	–	–	53	–	–
Noise Heating	Indoor	dB-A (H/L/Q-Lo)	42	29	26	44	35	32	47	37	34	48	39	36	49	40	37
	Outdoor	dB-A (H/L/Q-Lo)	48	–	–	49	–	–	55	–	–	54	–	–	55	–	–

V, Phase, Hz			230/208V, 1PH, 60Hz			230/208V, 1PH, 60Hz			230/208V, 1PH, 60Hz			230/208V, 1PH, 60Hz			230/208V, 1PH, 60Hz		
Running Amps	Cooling	Amp	2.6/2.9			3.8/4.2			5.4/6.0			6.2/6.9			10.1/11.1		
	Heating	Amp	3.2/3.6			3.8/4.2			5.8/6.6			7.7/8.7			11.5/12.8		
Power Input	Cooling	Watt	540			810			1170			1300			2200		
	Heating	Watt	670			800			1260			1630			2520		
Base Pan Heater		Watt	80			80			80			80			80		
Min. Curcuit Ampacity		Amp	15			15			20			20			25		
Max. Overcurrent Protection		Amp	15			20			25			25			30		

Advanced Air Purification Features		Evaporator Guard Filter	Included			Included			Included			Included			Included		
		PM2.5 (CZ-SA31P)	Optional			Optional			Optional			Optional			Optional		
		Anti Microbial (CZ-SA20P)	Optional			Optional			Optional			Optional			Optional		
		nanoe™ X Air Purification	Included			Included			Included			Included			Included		
Features	Fan Speeds		5 Speeds + Auto			5 Speeds + Auto			5 Speeds + Auto			5 Speeds + Auto			5 Speeds + Auto		
	Dry Air Flow	Heating/Cooling CFM	395/380			415/415			460/430			595/560			630/605		
	Timer		24hr Program			24hr Program			24hr Program			24hr Program			24hr Program		
	Air Deflection	Horizontal	Automatic			Automatic			Automatic			Automatic			Automatic		
		Vertical	Automatic			Automatic			Automatic			Automatic			Automatic		

Inverter Variable Capacity			Yes			Yes			Yes			Yes			Yes		
Refrigerant			R410a			R410a			R410a			R410a			R410a		
Piping	Refrigerant Piping	Type	Flare			Flare			Flare			Flare			Flare		
		Discharge inches	1/4"			1/4"			1/4"			1/4"			1/4"		
		Suction inches	3/8"			1/2"			1/2"			1/2"			5/8"		
	Refrigerant Pipe Length	Min - Max ft	9.8 - 65.6			9.8 - 65.6			9.8 - 65.6			9.8 - 100			9.8 - 100		
	Elevation Difference	Outdoor Above ft	Max. 49.2			Max. 49.2			Max. 49.2			Max. 49.2			Max. 49.2		
		Outdoor Below ft	Max. 49.2			Max. 49.2			Max. 49.2			Max. 49.2			Max. 49.2		

Unit	Indoor	H/W/D (inches)	11-5/8	34-9/32	9-1/16	11-5/8	34-9/32	9-1/16	11-5/8	34-9/32	9-1/16	11-29/32	43-13/32	9-5/8	11-29/32	43-13/32	9-5/8
	Weight	lb.	24			24			24			33			33		
	Outdoor	H/W/D (inches)	24-1/2	32-15/32	11-25/32	24-1/2	32-15/32	11-25/32	27-3/8	34-15/32	12-5/8	31-5/16	34-15/32	12-5/8	31-5/16	34-15/32	12-5/8
	Weight	lb.	82			82			106			132			132		
Carton	Indoor	H/W/D (inches)	10-7/8	37-13/16	14-3/8	10-7/8	37-13/16	14-3/8	10-7/8	37-13/16	14-3/8	11-7/16	46-5/32	14-29/32	11-7/16	46-5/32	14-29/32
	Weight	lb.	26			26			26			37			37		
	Outdoor	H/W/D (inches)	26-25/32	37-23/32	16-13/32	26-25/32	37-23/32	16-13/32	29-11/32	41-5/16	18-1/8	34-25/32	41-5/16	19-1/8	34-25/32	41-5/16	19-1/8
	Weight	lb.	88			88			53			66			66		

Deluxe E Series Wall-Mounted Heat Pumps

EXTERIOS E

E9RKUA / E12RKUA

INDOOR UNIT
CS-E9RKUAW / CS-E12RKUAW

ECONAVI

Wireless Controller (Included)

Wired Remote Controller **(CZ-RD516C-1)** (Optional)

OUTDOOR UNIT
CU-E9RKUA / CU-E12RKUA

Blue Fin Condenser

E18RKUA / E24RKUA

INDOOR UNIT
CS-E18RKUAW / CS-E24RKUAW

ECONAVI

(E18 only)

Wireless Controller (Included)

Wired Remote Controller **(CZ-RD516C-1)** (Optional)

OUTDOOR UNIT
CU-E18RKUA / CU-E24RKUA

Blue Fin Condenser

Cooling only operation may be configured during installation.

Pipe diameters listed below are for single zone only. Multi zone pipe diameters on page 50.

WALL MOUNT HEAT PUMPS

Model No.			E9RKUA		E12RKUA		E18RKUA		E24RKUA	
Unit Model No.			Indoor Unit CS-E9RKUAW	Outdoor Unit CU-E9RKUA	Indoor Unit CS-E12RKUAW	Outdoor Unit CU-E12RKUA	Indoor Unit CS-E18RKUAW	Outdoor Unit CU-E18RKUA	Indoor Unit CS-E24RKUAW	Outdoor Unit CU-E24RKUA
Performance & Electrical Ratings										
Capacity	Cooling	Btu/h	9,000 (4,100–10,200)		11,500 (4,100–13,300)		17,200 (5,800–19,800)		24,000 (5,800–27,200)	
	Heating	Btu/h	12,000 (4,100–14,100)		13,800 (4,100–16,300)		21,600 (5,800–22,000)		28,800 (5,800–29,200)	
Moisture Removal	High	Pints/H	1.3		1.7		3.0		7.6	
Dry Air Flow	Heating/Cooling	CFM	455/425		505/450		695/670		715/670	
SEER	Cooling		23.0		22.5		19.5		19.0	
EER	Cooling		13.0		12.5		13.2		10.2	
HSPF	Heating		11.0		11.0		10.0		10.0	
Power Supply	V, Phase, Hz		230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz	
Running Amps	Cooling	A	3.2 / 3.6		4.2 / 4.7		6.3 / 7.0		10.8 / 11.9	
	Heating	A	5.1 / 5.7		5.6 / 6.3		8.3 / 9.3		11.4 / 12.6	
Power Input	Cooling	W	690 (250–850)		920 (250–1,150)		1,300 (430–1,600)		2,350 (430–2,720)	
	Heating	W	1,120 (200–1,500)		1,250 (200–1,710)		1,750 (380–1,800)		2,500 (380–2,660)	
Min. Circuit Ampacity		A	15		15		15		20	
Max. Overcurrent Protection		A	15		15		20		25	
Features										
Controls			Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Low Ambient Control			Equipped		Equipped		Equipped		Equipped	
Wireless Controller			Included		Included		Included		Included	
Wired Remote Controller(optional)			CZ-RD516C-1		CZ-RD516C-1		CZ-RD516C-1		CZ-RD516C-1	
Fan Speeds			5 Speeds + Auto		5 Speeds + Auto		5 Speeds + Auto		5 Speeds + Auto	
Timer			24-hr Program		24-hr Program		24-hr Program		24-hr Program	
Air Deflection	Horizontal		Manual		Manual		Automatic		Automatic	
	Vertical		Automatic		Automatic		Automatic		Automatic	
Advanced Air Purification Features	Evaporator Guard Filter		Included		Included		Included		Included	
	PM2.5 (CZ-SA31P)		Optional		Optional		Optional		Optional	
	Anti Microbial (CZ-SA20P)		Optional		Optional		Optional		Optional	
Refrigerant			R-410A		R-410A		R-410A		R-410A	
Refrigerant control			Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve	
Operation Sound	In (Hi / Me / Lo)	dB-A	42 / 29 / 26		44 / 35 / 32		47 / 39 / 36		48 / 40 / 37	
	Outdoor (Hi)	dB-A	48		49		49		51	
Refrigerant Piping (single zone)	Type		Flare		Flare		Flare		Flare	
	Discharge	inches	1/4		1/4		1/4		1/4	
	Suction	inches	3/8		1/2		1/2		5/8	
Refrigerant Pipe Length		Ft.	Max. 65.6		Max. 65.6		Max. 100		Max. 100	
Elevation Difference*	Outdoor Above	Ft.	Max. 49.2		Max. 49.2		Max. 49.2		Max. 49.2	
	Outdoor Below	Ft.	Max. 49.2		Max. 49.2		Max. 49.2		Max. 49.2	
Dimensions & Weight			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
Height		inches	11-7/16	21-9/32	11-7/16	21-9/32	11-7/16	31-5/16	11-7/16	31-5/16
Width		inches	34-9/32	30-23/32	34-9/32	30-23/32	42-5/32	34-15/32	42-5/32	34-15/32
Depth		inches	8-7/16	11-13/32	8-7/16	11-13/32	9-15/32	12-5/8	9-15/32	12-5/8
Net Weight		Lbs.	20.0	82.0	20.0	82.0	26.0	132.0	26.0	132.0

Important: You must use refrigerant piping rated for R410a.
*This is maximum elevation difference when the indoor unit is located above the outdoor unit. See p. 50 for additional information.

Pro RE Series Wall-Mounted Heat Pumps

RE9SKUA / RE12SKUA

INDOOR UNIT
CS-RE9SKUA / CS-RE12SKUA

Wireless Controller (Included)

Wired Remote Controller **(CZ-RD516C-1)** (Optional)

OUTDOOR UNIT
CU-RE9SKUA / CU-RE12SKUA

Blue Fin Condenser

RE18SKUA / RE24SKUA

INDOOR UNIT
CS-RE18SKUA / CS-RE24SKUA

Wireless Controller (Included)

Wired Remote Controller **(CZ-RD516C-1)** (Optional)

OUTDOOR UNIT
CU-RE18SKUA / CU-RE24SKUA

Blue Fin Condenser

Wired controller not available for Pro Series.

WALL MOUNT HEAT PUMPS

Model No.			RE9SKUA		RE12SKUA		RE18SKUA		RE24SKUA	
Unit Model No.			Indoor Unit CS-RE9SKUA	Outdoor Unit CU-RE9SKUA	Indoor Unit CS-RE12SKUA	Outdoor Unit CU-RE12SKUA	Indoor Unit CS-RE18SKUA	Outdoor Unit CU-RE18SKUA	Indoor Unit CS-RE24SKUA	Outdoor Unit CU-RE24SKUA
Performance & Electrical Ratings										
Capacity	Cooling	Btu/h	9,000 (4,100–10,200)		12,000 (4,100–13,300)		17,200 (5,800–18,000)		22,000 (5,800–23,000)	
	Heating	Btu/h	10,900 (4,100–14,100)		12,000 (4,100–16,300)		18,000 (5,800–20,800)		22,000 (5,800–25,400)	
Moisture Removal	High	Pints/H	1.3		2.3		2.7		6.8	
Dry Air Flow	Heating/Cooling	CFM	455/425		505/450		695/670		715/670	
SEER	Cooling		16.0		16.0		16.0		16.0	
EER	Cooling		10.45		10.6		12.25		9.2	
HSPF	Heating		8.5		8.5		8.5		8.5	
Power Supply	V, Phase, Hz		230V / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz	
Running Amps	Cooling	A	4.2 / 3.8		5.5 / 5.0		7.0 / 6.3		11.7 / 10.5	
Power Input	Heating	A	4.6 / 4.2		4.5 / 4.0		6.9 / 6.2		8.8 / 7.9	
	Cooling	W	860 (250c1,000)		1,130 (250–1,300)		1,400 (430–1,550)		2,370 (430–2,550)	
Min. Circuit Ampacity		A	15		15		15		20	
Max. Overcurrent Protection		A	15		15		20		25	
Features										
Controls			Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Low Ambient Control			Built-in		Built-in		Built-in		Built-in	
Wireless Remorte Controller			Included		Included		Included		Included	
Wired Remote Controller (optional)			CZ-RD516C-1		CZ-RD516C-1		CZ-RD516C-1		CZ-RD516C-1	
Fan Speeds			5 Speed + Auto		5 Speed + Auto		5 Speed + Auto		5 Speed + Auto	
Timer			24-hr Program		24-hr Program		24-hr Program		24-hr Program	
Air Deflection	Horizontal		Manual		Manual		Automatic		Automatic	
	Vertical		Automatic		Automatic		Automatic		Automatic	
Advanced Air Purification Features	Evaporator Guard Filter		Included		Included		Included		Included	
	PM2.5 (CZ-SA31P)		Optional		Optional		Optional		Optional	
	Anti Microbial (CZ-SA20P)		Optional		Optional		Optional		Optional	
Refrigerant			R-410A		R-410A		R-410A		R-410A	
Refrigerant control			Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve	
Operation Sound	In (Hi / Me /Lo)	dB-A	43 / 35 / 32		44 / 36 / 32		48 / 39 / 36		51 / 40 / 37	
	Outdoor (Hi)	dB-A	49		52		54		55	
Refrigerant Piping	Type		Flare		Flare		Flare		Flare	
	Discharge	inches	1/4		1/4		1/4		1/4	
	Suction	inches	3/8		1/2		1/2		5/8	
Refrigerant Pipe Length		Ft.	Max. 49.2		Max. 49.2		Max. 65.6		Max. 65.6	
Elevation Difference*	Outdoor Above	Ft.	Max. 49.2		Max. 49.2		Max. 49.2		Max. 49.2	
	Outdoor Below	Ft.	Max. 49.2		Max. 49.2		Max. 49.2		Max. 49.2	
Dimensions & Weight			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
Height		inches	11-7/16	21-11/32	11-7/16	21-11/32	11-7/16	27-3/8	11-7/16	27-3/8
Width		inches	34-9/32	30-23/32	34-9/32	30-23/32	42-5/32	34-15/32	42-5/32	34-15/32
Depth		inches	8-7/16	11-13/32	8-7/16	11-13/32	9-15/32	12-5/8	9-15/32	12-5/8
Net Weight		Lbs.	20.0	75.0	20.0	75.0	26.0	106.0	26.0	108.0

Important: You must use refrigerant piping rated for R410a.
*This is maximum elevation difference when the indoor unit is located above the outdoor unit. See p. 50 for additional information.

115V Wall-Mounted Heat Pumps

YE Series

YE9WKU1/YE12WKU1

INDOOR UNIT
CS-YE9WKU1 / CS-YE12WKU1

OUTDOOR UNIT
CU-YE9WKU1 / CU-YE12WKU1

Wireless Controller (Included)

–25°C (–13°F) Degrees and Base Pan Heater

WALL MOUNT HEAT PUMPS				
Indoor Unit			**CS-YE9WKU1**	**CS-YE12WKU1**
Outdoor Unit			**CU-YE9WKU1**	**CU-YE12WKU1**
Power supply			115V~/60Hz/1P	115V~/60Hz/1P
Heat Operation			–25°C (–13°F)	–25°C (–13°F)
Rated Cooling capacity		Btu/h	9000	12000
Rated Heating capacity		Btu/h	9500	12000
Cooling Capacity	35°C (95°F)	Btu/h	9526	12221
Heating Capacity	8°C (43°F)	Btu/h	10106	12136
	–8°C (17°F)	Btu/h	5960	7018
	–15°C (5°F)	Btu/h	7506	8294
SEER			20.0	20.0
HSPF Rating (Region IV)			10.5	10.0
EER			12.0	10.5
Moisture removal		pts/h	2.3	3.4
Base Pan Heater			Included	Included
Wireless Remote			Included	Included
Wired Remote			N/A	N/A
Power supply			115V~/60Hz/1P	115V~/60Hz/1P
Rated Current	Cooling	A	6.7	10.1
	Heating	A	7.3	10.4
Min. Curcuit Ampacity			17	19
Max. Overcurrent Protection			25	30
Maximum Fuse Size		A	25	30
Indoor noise (cooling)	High/Med/Lo	dB(A)	38/35/32	40/37/34
Outdoor noise level		dB(A)	50	52
Connecting Pipe	Gas	inches	3/8''	3/8''
	Liquid	inches	1/4''	1/4''
Maximum Pipe Length		ft	50	50
Maximum height difference: indoor to outdoor		ft	16.4	16.4
Connecting Wiring	Size x Core number		4×16AWG	4×16AWG
Net dimensions (W/H/D)	Indoor	inch	31.92 x 11.49 x 8.07	31.92 x 11.49 x 8.07
	Outdoor	inch	28.66 x 21.65 x 11.22	28.66 x 21.65 x 11.22
Net weight	Indoor	lbs	17.6	17.6
	Outdoor	lbs	59.5	63.9
Packing dimensions (W/H/D)	Indoor	inch	34.84 x 14.40 x 10.94	34.84 x 14.40 x 10.94
	Outdoor	inch	32.87 x 23.03 x 13.39	32.87 x 23.03 x 13.39
Gross weight	Indoor	lbs	24.2	24.2
	Outdoor	lbs	66.1	70.5
Motor	Indoor		AC	AC
	Outdoor		DC	DC

Slim Duct Heat Pumps

E9SD3UAW / E12SD3UAW / E18SD3UAW

- Low Profile Concealed Hidden in Ceiling or Floor
- Provides Heating in Winter and Cooling in Summer
- Energy Efficient Inverter Driven Compressor
- Energy Efficient DC Fan Motor
- Air Flow Adjustment Dip Switch on Indoor Circuit Board

ENERGY STAR
(E9, E12 Only)

Wireless Controller with Receiver/Cable (Included)

Wired Controller with 32 ft cable **CZ-RD52DU** (Optional)

Blue Fin Condenser

OUTDOOR UNIT
CU-E9SD3UA
CU-E12SD3UA

Blue Fin Condenser

OUTDOOR UNIT
CU-E18SD3UA

Built-In Drain Pump

Drain pump is built into the unit to raise the condensate up 20 inches from the drain pump discharge.

Pipe diameters listed below are for single zone only. Multi zone pipe diameters on page 50.

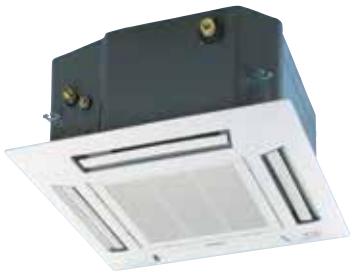
SLIM DUCT					
	Indoor Single or Multi		Single or Multi	Single or Multi	Single or Multi
Series			**E9SD3UA**	**E12SD3UA**	**E18SD3UA**
Indoor Unit (order #)			**CS-E9SD3UAW**	**CS-E12SD3UAW**	**CS-E18SD3UAW**
Outdoor Unit (order #)			**CU-E9SD3UA**	**CU-E12SD3UA**	**CU-E18SD3UA**
Performance Ratings					
Capacity Rated (Range)	Cooling	Btu/h	9,000 (4,100–10,200)	11,500 (4,100–13,300)	17,200 (5,800–19,400)
	Heating	Btu/h	12,000 (4100–14100)	13,800 (4100–16300)	20,800 (5,800–24,200)
Moisture Removal	High	Pints/H	1.30	1.70	4.60
Dry Air Flow	Heating/Cooling	CFM	475/475	475/475	540/540
Static Pressure	(Standard / Switch Hi)	inch w.g.	0.10 / .022	0.10 / .022	0.10 / .023
SEER	Cooling		20.5	20.0	16.5
EER	Cooling		13.0	12.5	10.9
HSPF	Heating		10.0	10.0	8.5
Power Supply	V, Phase, Hz		208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz
Running Amps	Cooling	A	3.6 / 3.2	4.7 / 4.2	8.5 / 7.6
	Heating	A	5.7 / 5.1	6.3 / 5.6	9.8 / 8.7
Power Input	Cooling	W	690 (250–850)	920 (250–1150)	1.58k (430–1820)
	Heating	W	1.12k (200–1500)	1.25k (200–1710)	1.83k (380–2180)
Auxiliary Heater Connection		in. WC	Yes	Yes	Yes
Min. Circuit Ampacity		A	15	15	20
Max. Overcurrent Protection		A	15	15	25
Features					
Controls			Microprocessor	Microprocessor	Microprocessor
Low Ambient Control			Built-in	Built-in	Built-in
Wireless Controller			Included	Included	Included
Wired Remote Controller (optional)			CZ-RD52DU	CZ-RD52DU	CZ-RD52DU
Indoor Fan Speeds			5 speeds	5 speeds	5 speeds
Air Filter			NA	NA	NA
Duct Flange			NA	NA	NA
Refrigerant			R-410A	R-410A	R-410A
Refrigerant Control			Electric Expansion Valve	Electric Expansion Valve	Electric Expansion Valve
Operation Sound	Indoor (Hi/Med/Lo)	dB-A	35 / 28 / 25	35 / 28 / 25	41 / 30 / 37
	Outdoor (Hi)	dB-A	48	49	49
Refrigerant Piping	Type		Flare	Flare	Flare
	Discharge	inches	1/4	1/4	1/4
	Suction	inches	3/8	1/2	1/2
Refrigerant Pipe Length		Ft.	Max. 65.6	Max. 65.6	Max. 100
Elevation Difference	Outdoor Above	Ft.	49.2	49.2	49.2
	Outdoor Below	Ft.	49.2	49.2	49.2
Dimensions & Weight					
Indoor	Height	inches	7-7/8	7-7/8	7-7/8
	Width	inches	29-17/32	29-17/32	29-17/32
	Depth	inches	25-7/32	25-7/32	25-7/32
	Weight	Lbs.	42.0	42.0	42.0
Outdoor	Height	inches	21-11/32	21-11/32	31-5/16
	Width	inches	30-23/32	30-23/32	34-15/32
	Depth	inches	11-13/32	11-13/32	12-5/8"
	Weight	Lbs.	82.0	82.0	132.0

4-Way Cassette Heat Pumps

E12RB4U / E18RB4U

INDOOR UNIT
CS-E12RB4UW*
CS-E18RB4UW*
*Grille not included. Sold separately.

GRILLE ASSEMBLY
CZ-BT20U
(Order separately)



Wireless Controller (Included)

Wired Controller with 32 ft cable **CZ-RD52CU** (Optional)

OUTDOOR UNIT
CU-E12RB4U

OUTDOOR UNIT
CU-E18RB4U

Pipe diameters listed below are for single zone only. Multi zone pipe diameters on page 45.

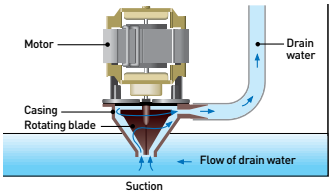
4-WAY CASSETTE 24" X 24"			HEAT PUMPS			
Model No.			E12RB4U		E18RB4U	
Unit Model No.			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
			CS-E12RB4UW	CU-E12RB4U	CS-E18RB4UW	CU-E18RB4U
Grille Assembly			CZ-BT20U		CZ-BT20U	
Performance & Electrical Ratings						
Capacity	Cooling	Btu/h	11,900 (4,100–13,100)		17,500 (4,400–18,700)	
	Heating	Btu/h	13,600 (4,100–16,300)		20,400 (4,400–21,000)	
Moisture Removal	High	Pints/H	4		6.1	
Dry Air Flow	Heating / Cooling	CFM	390 / 370		495 / 450	
SEER	Cooling		18		17.5	
EER	Cooling		10.3		10.25	
HSPF	Heating		9		8.5	
Power Supply	V, Phase, Hz		208/230V, Single phase, 60Hz		208/230V, Single phase, 60Hz	
Running Amps	Cooling	A	6 (1.25–6.3)		9.1 (1.2–8.3)	
	Heating	A	6.9 (1.25–7.3)		12.5 (1.3–10.5)	
Power Input	Cooling	W	1,150 (250–1,320)		1,700 (250–1,850)	
	Heating	W	1,360 (230–1,710)		2,340 (270–2,500)	
Min. Circuit Ampacity		A	15		20	
Max. Overcurrent Protection		A	15		25	
Features						
Controls			Microprocessor		Microprocessor	
Low Ambient Control (for Cooling)			Equipped		Equipped	
Wireless Remote Controller			Included		Included	
Wired Remote Controller (optional)			CZ-RD52CU		CZ-RD52CU	
Fan Speeds			Hi/Me/Lo & Auto		Hi/Me/Lo & Auto	
Air Deflection	Horizontal		—		—	
	Vertical		Microprocessor		Automatic	
Air Filter			Washable		Washable	
Refrigerant			R-410A		R-410A	
Refrigerant Control			Electric Expansion Valve		Electric Expansion Valve	
Operation Sound	In (Hi / Me / Lo)	dB-A	34 / 30 / 27		44 / 31 / 28	
	Outdoor (Hi)	dB-A	51 (Max. 66)		52 (Max. 66)	
Refrigerant Piping (single zone)	Type		Flare		Flare	
	Discharge	inches	1/4		1/4	
	Suction	inches	1/2		1/2	
Refrigerant Pipe Length		Ft.	65		100	
Elevation Difference*	Outdoor Above	Ft.	49		49	
	Outdoor Below	Ft.	49		49	
Dimensions & Weight			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
Height		inches	10-1/4	21-1/2	10-1/4	31-1/2
Width		inches	22-3/4	31	22-3/4	34-1/2
Depth		inches	22-3/4	11-1/2	22-3/4	12-3/4
Net Weight		Lbs.	40	82	40	132

4-Way Airflow Design Sends Cool Air in All Directions

Air is returned through the center of the grille, while evenly distributing air through each of the 4 supply air openings. Installation in the center of the room provides for the greatest comfort. However, 1 or 2 supply louvers can be closed for installation near 1 wall to provide 3 or 2 way airflow. Also, by closing off 1 supply louver.

Integrated Drain Pump

Drain pump is built into the unit to raise the condensate water up to 20" from the drain pump discharge to a gravity drain.



Multi-Zone Systems

Outdoor Units

See following pages for outdoor models specifications and combinations.

2 Zone (1.5 Ton)

CU-2E18SBU-5

ENERGY STAR | Blue Fin Condenser

Cooling Capacity: 16,700 (7,200 - 20,000) Btu/hr.
Heating Capacity: 20,200 (7,200 - 24,600) Btu/hr.
SEER Non-Ducted 19.0 / Ducted 19.0
EER Non-Ducted 12.55 / Ducted 12.55
HSPF Non-Ducted 9.5 / Ducted 9.0
Min/Max capacity 11,000 - 21,800 Btu/hr.

2-3 Zone (1.5 Ton)

CU-3E19RBU-5

ENERGY STAR (Non-Ducted) | Blue Fin Condenser

Cooling Capacity: 19,000 (6,100 - 24,800) Btu/hr.
Heating Capacity: 26,000 (5,500 - 28,400) Btu/hr.
SEER Non-Ducted 22.0 / Ducted 18.5
EER Non-Ducted 12.55 / Ducted 10.85
HSPF Non-Ducted 10.5 / Ducted 9.0
Min/Max capacity 15,300 - 30,600 Btu/hr.

2-4 Zones (2 Ton)

CU-4E24RBU-5

ENERGY STAR (Non-Ducted) | Blue Fin Condenser

Cooling Capacity: 24,000 (10,200 - 31,400) Btu/hr.
Heating Capacity: 37,800 (14,300 - 48,500) Btu/hr.
SEER Non-Ducted 22.0 / Ducted 19.0
EER Non-Ducted 12.55 / Ducted 10.85
HSPF Non-Ducted 9.5 / Ducted 9.0
Min/Max capacity 15,300 - 30,600 Btu/hr.

2-5 Zones (3 Ton)

CU-5E36QBU-5

Blue Fin Condenser

Cooling Capacity: 36,000 (9,900 - 39,000) Btu/hr.
Heating Capacity: 37,800 (11,600 - 49,500) Btu/hr.
SEER Non-Ducted 18.5 / Ducted 16.5
EER Non-Ducted 9.6 / Ducted 8.3
HSPF Non-Ducted 10.0 / Ducted 9.5
Min/Max capacity 15,300 - 59,500 Btu/hr.

All multi split condensors must have minimum two indoor units installed.

Advantages of Multi-Zone Inverter System

- Year-round comfort with Multi-Zone Heating & Cooling.
- Combine low-energy Inverter Technology and Ductless Zone Control for optimum energy efficiency.
- Cool and Heat 2-5 rooms or a whole house with one outdoor condenser and up to 5 ductless indoor units.
- Eliminate cost of duct installation and cleaning.

nanoe™X ClimaPure™ Compatibility (CU-3E19RBU-5)

- Built-in air and surface purification technology that provides a comfortable environment for occupants by reducing pollutants and odours.

Combination Possibilities

MULTI-ZONE		CU-2E18SBU-5	CU-3E19RBU-5	CU-4E24RBU-5	CU-5E36QBU-5
Wall	CS-ME5RKUA	✓	✓	✓	✓
	CS-ME7RKUA	✓	✓	✓	✓
	CS-E9RKUAW	✓	✓	✓	✓
	CS-E12RKUAW	✓	✓	✓	✓
	CS-E18RKUAW	–	✓	✓	✓
	CS-E24RKUAW	–	–	✓	✓
	CS-XE9WKUAW - NEW nanoe™X	–	✓	–	–
	CS-XE12WKUAW - NEW nanoe™X	–	✓	–	–
	CS-XE15WKUAW - NEW nanoe™X	–	✓	–	–
	CS-XE18WKUAW - NEW nanoe™X	–	✓	–	–
	CS-XE24WKUAW - NEW nanoe™X	–	–	–	–
4-Way	CS-ME9SB4U	✓	✓	✓	✓
	CS-E12RB4UW	✓	✓	✓	✓
	CS-E18RB4UW	–	✓	✓	✓
Ducted	CS-ME5SD3UA	✓	✓	✓	✓
	CS-ME7SD3UA	✓	✓	✓	✓
	CS-E9SD3UAW	✓	✓	✓	✓
	CS-E12SD3UAW	✓	✓	✓	✓
	CS-E18SD3UAW	–	✓	✓	✓
Capacity range of connectable indoor units		3.2 – 6.4 kW	4.5 – 9.0 kW	4.5 – 13.6 kW	4.5 – 17.5 kW
Piping Length	1 room maximum pipe length (m (ft))	25 (82.0)	25 (82.0)	25 (82.0)	25 (82.0)
	Allowable elevation (m (ft))	15 (49.2)	15 (49.2)	15 (49.2)	15 (49.2)
	Total allowable pipe length (m (ft))	50 (164.0)	50 (164.0)	70 (229.6)	80 (262.4)
	Total pipe length for maximum chargeless length (m (ft))	20 (65.6)	30 (98.4)	45 (147.6)	45 (147.6)
	Additional gas amount over chargeless length (g/m (oz/ft))	20 (0.2)	20 (0.2)	20 (0.2)	20 (0.2)

Multi-Zone Systems

Indoor Units

Wall Mount

Wireless App for XE series Only

Wireless Controller (Included)

Wired Controller with 32 ft cable **CZ-RD516C-1** (Optional)

CS-ME5RKUA / CS-ME7RKUA / CS-E9RKUAW / CS-E12RKUAW / CS-E18RKUAW nanoeX
CS-XE9WKUAW / CS-XE12WKUAW / CS-XE15WKUAW / CS-XE18WKUAW

4-Way Cassette

Wireless Controller (Included)

Wired Controller with 32 ft cable **CZ-RD52CU** (Optional)

CS-ME9SB4U / CS-E12RB4UW / CS-E18RB4UW

Slim Duct

Wireless Controller with Receiver/Cable (Included)

Wired Controller with 32 ft cable **CZ-RD52DU** (Optional)

CS-ME5SD3UA / CS-ME7SD3UA / CS-E9SD3UAW / CS-E12SD3UAW / CS-E18SD3UAW

All Indoor multi zone units can be field modified to operate as Cooling Only.

Multi-Zone Systems

WALL MOUNT							
Model No.			CS-ME5RKUA	CS-ME7RKUA	CS-E9RKUAW	CS-E12RKUAW	CS-E18RKUAW	CS-E24RKUAW
Performance & Electrical Ratings								
Capacity	Cooling	Btu/h	5,500 (4,400~7,800)	6,900 (6,100~9,900)	8,600 (6,100~9,900)	10,900 (6,100~13,000)	17,100 (6,500~19,800)	24,000 (5,800~27,200)
	Heating	Btu/h	8,900 (4,100~10,900)	10,900 (4,100~14,000)	12,300 (4,100~14,700)	15,300 (4,100~19,800)	23.400 (19,400~4,100)	28,800 (5,800~29,200)
Moisture Removal	High	Pints/H	0.6	0.8	1.1	1.3	3.0	7.6
Dry Air Flow	Heating/Cooling	CFM	380/415	455/425	455/425	505/450	695/670	715/670
Power Supply	V, Phase, Hz		208/230V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz
Running Amps	Cooling	A	2.0 / 2.3	2.5 / 2.8	3.2 / 3.5	3.9 / 4.3	7.2 / 8.0	10.8 / 11.9
	Heating	A	3.0 / 3.4	3.7 / 4.1	4.7 / 5.2	6.0 / 6.6	8.3 / 9.3	11.4 / 12.6
Power Input	Cooling	W	400 (250~640)	500 (340~810)	630 (340~810)	800 (340~1,360)	1,300 (430~1,600)	2,350 (430~2,720)
	Heating	W	600 (300~960)	740 (300~1,230)	940 (300~1,230)	1,230 (200~2,100)	1,750 (380~1,800)	2,500 (380~2,660)
Operation Sound [Hi / Me / Lo / Q-Lo]	Cooling		38 / 25	39 / 25	40 / 25	43 / 28	47 / 39 / 36	48 / 40 / 37
	Heating		40 / 29	41 / 29	42 / 29	44 / 35 / 32	46 / 39 / 36	48 / 40 / 37
Refrigerant Tube Diameter	Discharge	inches	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Suction	inches	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"
Adapters Required			none	none	none	CZ-MA1P-US	CZ-MA1P-US	CZ-MA2P-US and CZ-MA3P-US
Dimensions & Weight								
Height		inches	11-7/16"	11-7/16"	11-7/16"	11-7/16"	11-7/16"	11-7/16"
Width		inches	34-9/32"	34-9/32"	34-9/32"	34-9/32"	42-5/32"	42-5/32"
Depth		inches	8-7/16"	8-7/16"	8-7/16"	8-7/16"	9-15/32"	9-15/32"
Net Weight		lb	20.0	20.0	20.0	20.0	26.0	26.0

CLIMAPURE WALL MOUNT						
Model No.			CS-XE9WKUAW	CS-XE12WKUAW	CS-XE15WKAUW	CS-XE18WKUAW
Performance & Electrical Ratings						
Capacity	Cooling	Btu/h	8,700 (2,800~12,000)	11,500 (2,800~14,000)	14,700 (2,800~14,000)	17,200 (5,800~19,800)
	Heating	Btu/h	10,900 (3,000~18,000)	12,000(3,000~23,000)	17,200 (3,300~24,000)	20,400 (5,800~30,000)
Moisture Removal	High	Pints/H	1.3	2.5	4	3.6
Dry Air Flow	Heating/Cooling	CFM	380	415	430	560
Power Supply	V, Phase, Hz		208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Running Amps	Cooling	A	2.6/2.9	3.8/4.2	5.4/6.0	6.2/6.9
	Heating	A	3.2/3.6	3.8/4.2	5.8/6.6	7.7/8.7
Power Input	Cooling	W	540	810	1170	1300
	Heating	W	670	800	1260	1630
Operation Sound [Hi / Me / Lo / Q-Lo]	Cooling		42 / 25 / 20	45 / 28 / 20	45 / 37 / 34	47 / 39 / 36
	Heating		42 / 29 / 26	44 / 35 / 32	47 / 37 / 34	48 / 39 / 36
Refrigerant Tube Diameter	Discharge	inches	1/4"	1/4"	1/4"	1/4"
	Suction	inches	3/8"	1/2"	1/2"	1/2"
Dimensions & Weight						
Height		inches	11-5/8"	11-5/8"	11-5/8"	11-29/32"
Width		inches	34-9/32"	34-9/32"	34-9/32"	43-13/32"
Depth		inches	9-1/16"	9-1/16"	9-1/16"	9-5/8"
Net Weight		lb	24	24	24	33

Multi-Zone Systems

4-WAY CASSETTE					
Model No.			**CS-ME9SB4U**	**CS-E12RB4UW**	**CS-E18RB4UW**
Performance & Electrical Ratings					
Capacity	Cooling	Btu/h	8,600 (6,100 - 9,900)	10,900 (6,100~13,000)	171,000 (6,500~19,400)
	Heating	Btu/h	12,300 (4,100 - 14,700)	15,300 (4,100~19,800)	23,400 (4,100~23,600)
Moisture Removal	High	Pints/H	2.5	3.2	4.4
Dry Air Flow	Heating/Cooling	CFM	390/370	390/370	495/450
Power Supply	V, Phase, Hz		208/230V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz
Running Amps	Cooling	A	3.5 / 3.2	4.3 / 3.9	8.0 / 7.2
	Heating	A	5.2 / 4.7	6.6 / 6.0	10.7 / 9.7
Power Input	Cooling	W	630 (340 - 810)	800 (340~1,360)	1,550 (340~2.130)
	Heating	W	300 (940 - 1.2k)	1,230 (300~2,100)	2,100 (300~2,520)
Operation Sound [Hi / Me / Lo / Q-Lo]	Cooling		36 / 30 / 27	36 / 30	36 / 32
	Heating		37 / 32 / 29	36 / 32	46 / 33
Refrigerant Tube Diameter	Discharge	inches	1/4	1/4	1/4
	Suction	inches	3/8"	3/8	3/8
Adapters Required			none	CZ-MA1P-US	CZ-MA1P-US
Dimensions & Weight					
Indoor	Height	inches	10-1/4"	10-1/4	10-1/4
	Width	inches	22-3/4"	22-3/4	22-3/4
	Depth	inches	22-3/4"	22-3/4	22-3/4
	Net Weight	lb	40.0 (grille 6.0)	40.0	40.0

Pipe diameters listed below are for Multi-Zone installations. For Single zone pipe diameter see single zone product pages.

SLIM DUCT							
Model No.			**CS-ME5SD3UA**	**CS-ME7SD3UA**	**CS-E9SD3UAW**	**CS-E12SD3UAW**	**CS-E18SD3UAW**
Performance & Electrical Ratings							
Capacity	Cooling	Btu/h	5,500 (4,400 - 7,800)	6,900 (6,100 - 9,900)	9000 (4100-10200)	11500 (4100-13300)	17200 (5800-19400)
	Heating	Btu/h	8,900 (4,100 - 10,900)	10,900 (4,100 - 14,000)	12000 (4100-14100)	13800 (4100-16300)	20800 (5800-24200)
Moisture Removal	High	Pints/H	0.8	1.1	1.30	1.70	4.60
Dry Air Flow	Heating/Cooling	CFM	455/455	465/465	475/475	475/475	540/540
Static Pressure	(Standard / Switch Hi)	inch w.g.	0.10 / .022	0.10 / .022	0.10 / .022	0.10 / .022	0.10 / .023
Power Supply	V, Phase, Hz		208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz	208/230V, 1PH, 60Hz
Running Amps	Cooling	A	2.3 / 2.0	2.8 / 2.5	3.2	4.2	7.6
	Heating	A	3.4 / 3.0	4.1 / 3.7	5.1	5.6	8.7
Power Input	Cooling	W	400 (250 - 640)	500 (340 - 810)	690 (250 - 850)	920 (250 - 1.15k)	1.58k (430 - 1.82k)
	Heating	W	600 (300 - 960)	740 (300 - 1.23k)	1.12k (200 - 1.50k)	1.25k (200 - 1.71k)	1.83k (380 - 2.18k)
Operation Sound [Hi / Me / Lo / Q-Lo]	Cooling		35 / 28	36 / 29	35 / 28 / 25	35 / 28 / 25	41 / 30 / 37
	Heating		35 / 28	36 / 29	35 / 28 / 25	35 / 28 / 25	41 / 32 / 29
Refrigerant Tube Diameter	Discharge	inches	1/4"	1/4"	1/4	1/4	1/4
	Suction	inches	3/8"	3/8"	3/8	3/8	3/8
Adapters Required			none	none	none	CZ-MA1P-US	CZ-MA1P-US
Dimensions & Weight							
Indoor	Height	inches	7-7/8"	7-7/8"	7-7/8	7-7/8	7-7/8
	Width	inches	29-17/32"	29-17/32"	29-17/32	29-17/32	29-17/32
	Depth	inches	25-7/32"	25-7/32"	25-7/32	25-7/32	25-7/32
	Net Weight	lb	42.0	42.0	42.0	42.0	42.0

Important: You must use refrigerant piping rated for R410a.
*This is maximum elevation difference when the indoor unit is located above the outdoor unit. See pages 50-53 for additional information.

Multi-Zone Systems

-5°F Heat Operation

2 Zone (1.5 Ton)

CU-2E18SBU-5

Cooling Capacity: 16,700 (7,200 - 20,000) Btu/hr.
Heating Capacity: 20,200 (7,200 - 24,600) Btu/hr.
SEER Non-Ducted 19.0 / Ducted 19.0
EER Non-Ducted 12.55 / Ducted 12.55
HSPF Non-Ducted 9.5 / Ducted 9.0
Min/Max capacity 11,000 - 21,8000 Btu/hr.

CU-2E18SBU-5

Connect 2 Indoor Units

Wireless Controller (Included)

Wired Remote Controller **(CZ-RD516C-1)** (Optional)

Wireless Controller (Included)

Wired Controller with 32 ft cable **CZ-RD52CU** (Optional)

CZ-BT20U Grille Ordered Separately

See Multi Zone Calculation and Selection Chart on pp. 42-43.

Outdoor Unit

MODEL NO.			CU-2E18SBU-5	
Performance			**Cooling**	**Heating**
Capacity		Btu/h	16,700 (7,200~20,000)	20,200 (7,200~24,600)
Air Circulation	High	CFM	1,447	
Number of Connectable Indoor Units			2	
SEER	Non-Ducted / Ducted		19.0 / 19.0	
EER	Non-Ducted / Ducted		12.55 / 12.55	
HSPF	Non-Ducted / Ducted		9.5 / 9.0	
Electrical Rating				
Power Supply		V, Phase, Hz	230V / 208V, 1PH, 60Hz	
Running Ampere	Non-Ducted / Ducted	A	6.6~6.0 / 6.6~6.0	8.5~7.8 / 8.5~7.8
Power Input		W	1,330	1,750
Maximum Fuse Size : MCA / MOCP		Amps	20 / 25	
Features				
Controls			Microprocessor	
Fan Speeds			Variable Speed	
Compressor			DC Inverter	
Refrigerant / Amount Charged at Shipment			R-410A / 78.70 oz	
Refrigerant Control			Electronic Expansion Valve	
Operation Sound	Hi	dB-A	48	49
Refrigerant Tubing Connections		Type	Flare	
Max. Allowable Tubing Length		Ft.	164 per system (82 per indoor unit)	
Refrigerant Tube Diameter (service value)	Discharge	inch	1/4" x 2	
	Suction	inch	3/8" x 2	
Adapter Required			Indoor 12K Btu/hr. requires 1 CZ-MA1P-US	
Dimensions & Weight				
Unit Dimensions	H x W x D	inch	31-5/16" x 34-15/32" (+3-3/4) x 14-3/6"	
Net Weight		Lbs.	157	

Important: You must use refrigerant piping rated for R410a. See p. 50 for additional information.
*Test Conditions based on AHRI 210/240

-5°F Heat Operation

2-3 Zone (1.5 Ton)

CU-3E19RBU-5

Cooling Capacity: 19,000 (6,100 - 24,800) Btu/hr
Heating Capacity: 26,000 (5,000 - 28,400) Btu/hr
SEER Non-Ducted 22.0 / Ducted 18.5
EER Non-Ducted 12.55 / Ducted 10.85
HSPF Non-Ducted 10.5 / Ducted 9.0
Min/Max capacity 15,300 - 30,600 Btu/hr

Wireless Controller (Included)

Wired Remote Controller **CZ-RD516C-1** (Optional)

Wireless App Control

Panasonic

Connect 2 to 3 Indoor Units

CS-ME5RKUA / CS-ME7RKUA / CS-E9RKUAW / CS-E12RKUAW / CS-E18RKUAW

CS-XE9WKUAW / CS-XE12WKUAW / CS-XE15WKUAW / CS-XE18WKUAW nanoe™X

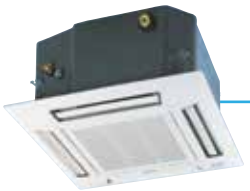
CU-3E19RBU-5

ENERGY STAR (Non-Ducted)

Wireless Controller (Included)

Wired Controller with 32 ft cable **CZ-RD52CU** (Optional)

CZ-BT20U



All multi-split condensors must have minimum two indoor units installed.

Outdoor Unit

MODEL NO.			CU-2E18SBU-5	
Performance			**Cooling**	**Heating**
Capacity		Btu/h	19,000 (6,100~24,800)	26,000 (5,500~28,400)
Air Circulation	High	CFM	1,447	1,634
Number of Connectable Indoor Units			2-3	
SEER	Non-Ducted / Ducted		22.0 / 18.5	
EER	Non-Ducted / Ducted		12.55 / 10.85	
HSPF	Non-Ducted / Ducted		10.5 / 9.0	
Electrical Rating				
Power Supply		V, Phase, Hz	230V / 208V, 1PH, 60Hz	
Running Ampere	Non-Ducted / Ducted	A	7.4~6.7 / 8.5~7.7	10.1~9.1 / 12.3~11.1
Power Input		W	1,510 (360~2,420)	2,060 (320~2,300)
Maximum Fuse Size : MCA / MOCP		Amps	20/30	
Features				
Controls			Microprocessor	
Fan Speeds			Variable Speed	
Compressor			Twin Rotary, DC Motor, Inverter	
Refrigerant / Amount Charged at Shipment			R-410A / 93.2 oz	
Refrigerant Control			Electronic Expansion Valve	
Operation Sound	Hi	dB-A	50	52
Refrigerant Tubing Connections		Type	Flare	
Max. Allowable Tubing Length		Ft.	164 per system (82 per indoor unit)	
Refrigerant Tube Diameter (service value)	Discharge	inch	1/4" x 3	
	Suction	inch	3/8" x 3	
Adapter Required			Indoor 12k and 18k Btu/hr. require 1 CZ-MA1P-US	
Dimensions & Weight				
Unit Dimensions	H x W x D	inch	31-5/16 x 34-15/32 x 14-3/6	
Net Weight		Lbs.	159	

Important: You must use refrigerant piping rated for R410a. See p. 50 for additional information.
*Test Conditions based on AHRI 210/240

Multi-Zone Systems

-5°F Heat Operation

2-4 Zone (2 Ton)

A minimum of 2 indoor units must be connected.

CU-4E24RBU-5

Cooling Capacity: 24,000 (10,200 - 31,400) Btu/hr.
Heating Capacity: 37,800 (14,300 - 48,500) Btu/hr.
SEER Non-Ducted 22.0 / Ducted 19.0
EER Non-Ducted 12.55 / Ducted 10.85
HSPF Non-Ducted 9.5 / Ducted 9.0
Min/Max capacity 15,300 - 30,600 Btu/hr.

Connect 2 to 4 Indoor Units

Wireless Controller (Included)

Wired Remote Controller **CZ-RD516C-1** (Optional)

Wireless Controller (Included)

Wired Controller with 32 ft cable **CZ-RD52DU** (Optional)

CZ-BT20U

CU-4E24RBU-5

(Non-Ducted)

See Multi Zone Calculation and Selection Chart on pp. 42-43.

Outdoor Unit

MODEL NO.			CU-4E24RBU-5	
Performance			**Cooling**	**Heating**
Capacity		Btu/h	24,000 (10,200~31,400)	37,800 (14,300~48,500)
Air Circulation	High	CFM	1,963	2,330
Number of Connectable Indoor Units			2~4	
SEER	Non-Ducted / Ducted		22.0 / 19.0	
EER	Non-Ducted / Ducted		12.55 / 10.85	
HSPF	Non-Ducted / Ducted		9.5 / 9.0	
Electrical Rating				
Power Supply		V, Phase, Hz	230V / 208V, 1PH, 60Hz	
Running Ampere	Non-Ducted / Ducted	A	9.9~8.9 / 11.4~10.3	15.3~13.9 / 17.8~16.1
Power Input		W	1,910 (530~2,870)	3,030 (700~4,380)
Maximum Fuse Size : MCA / MOCP		Amps	30/45	
Features				
Controls			Microprocessor	
Fan Speeds			Variable Speed	
Compressor			Twin Rotary, DC Motor, Inverter	
Refrigerant / Amount Charged at Shipment			R-410A / 120.0 oz	
Refrigerant Control			Electronic Expansion Valve	
Operation Sound	Hi	dB-A	55	55
Refrigerant Tubing Connections		Type	Flare	
Max. Allowable Tubing Length		Ft.	230 per system (82 per indoor unit)	
Refrigerant Tube Diameter (service value)	Discharge	inch	1/4" x 4	
	Suction	inch	3/8" x 4	
Adapter Required			Indoor 12k and 18k Btu/hr. require 1 CZ-MA1P-US / 24k Btu/hr. 1 CZ-MA1P-US and 1 CZ-MA3P-US*	
Dimensions & Weight				
Unit Dimensions	H x W x D	inch	39-11/32 x 37-1/32 x 13-13/32	
Net Weight		Lbs.	183	

Important: You must use refrigerant piping rated for R410a. See p. 50 for additional information.
*Test Conditions based on AHRI 210/240

-5°F Heat Operation

2-5 Zone (3 Ton)

A minimum of 2 indoor units must be connected.

CU-5E36QBU-5

Cooling Capacity: 36,000 (9,900 - 39,000) Btu/hr.
Heating Capacity: 37,800 (11,600 - 49,500) Btu/hr.
SEER Non-Ducted 18.5 / Ducted 16.5
EER Non-Ducted 9.6 / Ducted 8.3
HSPF Non-Ducted 10.0 / Ducted 9.5
Min/Max capacity 15,300 - 59,500 Btu/hr.

Connect 2 to 5 Indoor Units

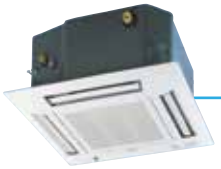
Wireless Controller (Included)

Wired Remote Controller **CZ-RD516C-1** (Optional)

Wireless Controller (Included)

Wired Remote Controller **CZ-RD52CU** (Optional)

CZ-BT20U



CU-5E36QBU-5

(Non-Ducted)

See Multi Zone Calculation and Selection Chart on pp. 42-43.

Outdoor Unit

MODEL NO.			CU-5E36QBU-5	
Performance			**Cooling**	**Heating**
Capacity		Btu/h	36,000 (9,900–39,000)	37,800 (11,600–49,500)
Air Circulation	High	CFM	2,475	
Number of Connectable Indoor Units			2-5	
SEER	Non-Ducted / Ducted		18.5 / 16.5	
EER	Non-Ducted / Ducted		9.6 / 8.3	
HSPF	Non-Ducted / Ducted		10.0 / 9.5	
Electrical Rating				
Power Supply		V, Phase, Hz	230V / 208V, 1PH, 60Hz	
Running Ampere	Non-Ducted / Ducted	A	19.0–17.2 / 21.1–19.1	14.8–13.4 / 17.5–15.8
Power Input		W	3,750 (550–3,860)	2,900 (530–4,240)
Maximum Fuse Size : MCA / MOCP		Amps	30/45	
Features				
Controls			Microprocessor	
Fan Speeds			Variable Speed	
Compressor			Twin Rotary, DC Motor, Inverter	
Refrigerant / Amount Charged at Shipment			R-410A / 120.0 oz	
Refrigerant Control			Electronic Expansion Valve	
Operation Sound	Hi	dB-A	55	
Refrigerant Tubing Connections		Type	Flare	
Max. Allowable Tubing Length		Ft.	262 per system (82 per indoor unit)	
Refrigerant Tube Diameter (service value)	Discharge	inch	1/4" x 5	
	Suction	inch	3/8" x 5	
Adapter Required			CZ-MA2P 1 pc for 12K & 18K / CZ-MA2P	
Indoor Adapter			Indoor 12k and 18k Btu/hr. require 1 CZ-MA2P-US / 24k Btu/hr. 1 CZ-MA1P-US and 1 CZ MA3P-US	
Dimensions & Weight				
Unit Dimensions	H x W x D	inch	39-11/32 x 37-1/32 x 13-13/32	
Net Weight		Lbs.	183	

Important: You must use refrigerant piping rated for R410a. See p. 50 for additional information.
*Test Conditions based on AHRI 210/240

Multi Zone Combination Charts

Understanding total System Capacity is an important step in sizing and selecting heat pump equipment.

CU-2E18SBU-5
2 Zones
5 + 5
5 + 7
5 + 9
5 + 12
7 + 7
7 + 9
7 + 12
9 + 9
9 + 12
12 + 12

CU-3E19RBU-5		
2 Zones	3 Zones	
5 + 12	5 + 5 + 5	7 + 7 + 7
5 + 15	5 + 5 + 7	7 + 7 + 9
5 + 18	5 + 5 + 9	7 + 7 + 12
7 + 9	5 + 5 + 12	7 + 7 + 15
7 + 12	5 + 5 + 15	7 + 7 + 18
7 + 15	5 + 5 + 18	7 + 9 + 9
7 + 18	5 + 7 + 7	7 + 9 + 12
9 + 9	5 + 7 + 9	7 + 9 + 15
9 + 12	5 + 7 + 12	7 + 12 + 12
9 + 15	5 + 7 + 15	9 + 9 + 9
9 + 18	5 + 7 + 18	9 + 9 + 12
12 + 12	5 + 9 + 9	9 + 9 + 15
12 + 15	5 + 9 + 12	9 + 12 + 12
12 + 18	5 + 9 + 15	-
15 + 15	5 + 12 + 12	-
15 + 18	5 + 12 + 15	-

CU-4E24RBU-5					
2 Zones	3 Zones		4 Zones		
5 + 18	5 + 5 + 5	7 + 7 + 12	5 + 5 + 5 + 5	5 + 7 + 7 + 24	7 + 7 + 9 + 24
5 + 24	5 + 5 + 7	7 + 7 + 18	5 + 5 + 5 + 7	5 + 7 + 9 + 9	7 + 7 + 12 + 12
7 + 9	5 + 5 + 9	7 + 7 + 24	5 + 5 + 5 + 9	5 + 7 + 9 + 12	7 + 7 + 12 + 18
7 + 12	5 + 5 + 12	7 + 9 + 9	5 + 5 + 5 + 12	5 + 7 + 9 + 18	7 + 9 + 9 + 9
7 + 18	5 + 5 + 18	7 + 9 + 12	5 + 5 + 5 + 18	5 + 7 + 9 + 24	7 + 9 + 9 + 12
7 + 24	5 + 5 + 24	7 + 9 + 18	5 + 5 + 5 + 24	5 + 7 + 12 + 12	7 + 9 + 9 + 18
9 + 9	5 + 7 + 7	7 + 9 + 24	5 + 5 + 7 + 7	5 + 7 + 12 + 18	7 + 9 + 12 + 12
9 + 12	5 + 7 + 9	7 + 12 + 12	5 + 5 + 7 + 9	5 + 7 + 18 + 18	7 + 9 + 12 + 18
9 + 18	5 + 7 + 12	7 + 12 + 18	5 + 5 + 7 + 12	5 + 9 + 9 + 9	7 + 12 + 12 + 12
9 + 24	5 + 7 + 18	7 + 12 + 24	5 + 5 + 7 + 18	5 + 9 + 9 + 12	7 + 12 + 12 + 18
12 + 12	5 + 7 + 24	7 + 18 + 18	5 + 5 + 7 + 24	5 + 9 + 9 + 18	9 + 9 + 9 + 9
12 + 18	5 + 9 + 9	9 + 9 + 9	5 + 5 + 9 + 9	5 + 9 + 9 + 24	9 + 9 + 9 + 12
12 + 24	5 + 9 + 12	9 + 9 + 12	5 + 5 + 9 + 12	5 + 9 + 12 + 12	9 + 9 + 9 + 18
18 + 18	5 + 9 + 18	9 + 9 + 18	5 + 5 + 9 + 18	5 + 9 + 12 + 18	9 + 9 + 12 + 12
18 + 24	5 + 9 + 24	9 + 9 + 24	5 + 5 + 9 + 24	5 + 12 + 12 + 12	9 + 9 + 12 + 18
–	5 + 12 + 12	9 + 12 + 12	5 + 5 + 12 + 12	5 + 12 + 12 + 18	9 + 12 + 12 + 12
–	5 + 12 + 18	9 + 12 + 18	5 + 5 + 12 + 18	7 + 7 + 7 + 7	12 + 12 + 12 + 12
–	5 + 12 + 24	9 + 12 + 24	5 + 5 + 12 + 24	7 + 7 + 7 + 9	–
–	5 + 18 + 18	9 + 18 + 18	5 + 5 + 18 + 18	7 + 7 + 7 + 12	–
–	5 + 18 + 24	12 + 12 + 12	5 + 7 + 7 + 7	7 + 7 + 7 + 18	–
–	7 + 7 + 7	12 + 12 + 18	5 + 7 + 7 + 9	7 + 7 + 7 + 24	–
–	7 + 7 + 9	12 + 12 + 24	5 + 7 + 7 + 12	7 + 7 + 9 + 9	–
–	–	12 + 18 + 18	5 + 7 + 7 + 18	7 + 7 + 9 + 12	–

Outdoor Unit Capacity: The System Capacity is the Cooling and Heating Capacity listed at the top of each Outdoor unit's specification chart.

Indoor Unit Demand: The Cooling and Heating Capacities are listed at the top of the specification chart of each Indoor Unit (see page 36 and 37). The total of these partial indoor capacities is the System Demand.

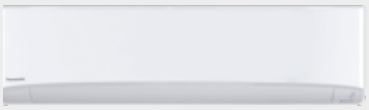
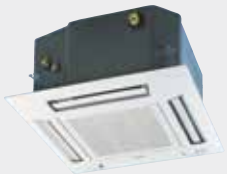
Now let's understand the term Diversity. Diversity is when the load in the conditioned space is not constant. For example the east side of a house has more direct sun and cooling load requirement in the morning and the west side has more direct sun and cooling load requirement in the afternoon.

A system sizing calculation that plans for diversity may size up to approximately 130% of indoor unit demand versus the outdoor unit's system capacity provided that planned operating demand throughout the day never exceeds 100% of system capacity. If there is no planned Diversity then the indoor unit demand should not exceed 100% of the outdoor unit capacity.

Therefore, a first step in sizing and selecting any multi-zone system is to understand the System Demand that the building requires before moving on to selecting Indoor unit combinations.

CU-5E36QBU-5									
2 Zones	3 Zones		4 Zones			5 Zones			
5+12	5+5+5	7+7+7	5+5+5+5	5+7+18+18	7+9+9+18	5+5+5+5+7	5+5+9+9+9	5+7+12+12+12	7+7+9+9+18
5+18	5+5+7	7+7+9	5+5+5+7	5+7+18+24	7+9+9+24	5+5+5+5+9	5+5+9+9+12	5+7+12+12+18	7+7+9+9+24
5+24	5+5+9	7+7+12	5+5+5+9	5+9+9+9	7+9+12+12	5+5+5+5+12	5+5+9+9+18	5+7+12+12+24	7+7+9+12+12
7+9	5+5+12	7+7+18	5+5+5+12	5+9+9+12	7+9+12+18	5+5+5+5+18	5+5+9+9+24	5+7+12+18+18	7+7+9+12+18
7+12	5+5+18	7+7+24	5+5+5+18	5+9+9+18	7+9+12+24	5+5+5+5+24	5+5+9+12+12	5+9+9+9+9	7+7+9+12+24
7+18	5+5+24	7+9+9	5+5+5+24	5+9+9+24	7+9+18+18	5+5+5+7+7	5+5+9+12+18	5+9+9+9+12	7+7+9+18+18
7+24	5+7+7	7+9+12	5+5+7+7	5+9+12+12	7+9+18+24	5+5+5+7+9	5+5+9+12+24	5+9+9+9+18	7+7+12+12+12
9+9	5+7+9	7+9+18	5+5+7+9	5+9+12+18	7+12+12+12	5+5+5+7+12	5+5+9+18+18	5+9+9+9+24	8+7+12+12+18
9+12	5+7+12	7+9+24	5+5+7+12	5+9+12+24	7+12+12+18	5+5+5+7+18	5+5+12+12+12	5+9+9+12+12	9+7+12+12+24
9+18	5+7+18	7+12+12	5+5+7+18	5+9+18+18	7+12+12+24	5+5+5+7+24	5+5+12+12+18	5+9+9+12+18	7+7+12+18+18
9+24	5+7+24	7+12+18	5+5+7+24	5+9+18+24	7+12+18+18	5+5+5+9+9	5+5+12+12+24	5+9+9+12+24	7+9+9+9+9
12+12	5+9+9	7+12+24	5+5+9+9	5+12+12+12	7+12+18+24	5+5+5+9+12	5+5+12+18+18	5+9+9+18+18	8+9+9+9+12
12+18	5+9+12	7+18+18	5+5+9+12	5+12+12+18	7+18+18+18	5+5+5+9+18	5+7+7+7+7	5+9+12+12+12	9+9+9+9+18
12+24	5+9+18	7+18+24	5+5+9+18	5+12+12+24	9+9+9+9	5+5+5+9+24	5+7+7+7+9	5+9+12+12+18	10+9+9+9+24
18+18	5+9+24	7+24+24	5+5+9+24	5+12+18+18	9+9+9+12	5+5+5+12+12	5+7+7+7+12	5+9+12+12+24	7+9+9+12+12
18+24	5+12+12	9+9+9	5+5+12+12	5+12+18+24	9+9+9+18	5+5+5+12+18	5+7+7+7+18	5+9+12+18+18	7+9+9+12+18
24+24	7+12+18	9+9+12	5+5+12+18	5+18+18+18	9+9+9+24	5+5+5+12+24	5+7+7+7+24	5+12+12+12+12	7+9+9+12+24
—	7+12+24	9+9+18	5+5+12+24	7+7+7+7	9+9+12+12	5+5+5+18+18	5+7+7+9+9	5+12+12+12+18	7+9+9+18+18
—	5+18+18	9+9+24	5+5+18+18	7+7+7+9	9+9+12+18	5+5+5+18+24	5+7+7+9+12	7+7+7+7+7	7+9+12+12+12
—	5+18+24	9+12+12	5+5+18+24	7+7+7+12	9+9+12+24	5+5+7+7+7	5+7+7+9+18	7+7+7+7+9	7+9+12+12+18
—	5+24+24	9+12+18	5+5+24+24	7+7+7+18	9+9+18+18	5+5+7+7+9	5+7+7+9+24	7+7+7+7+12	7+12+12+12+12
—	—	9+12+24	5+7+7+7	7+7+7+24	9+9+18+24	5+5+7+7+12	5+7+7+12+12	7+7+7+7+18	7+12+12+12+18
—	—	9+18+18	5+7+7+9	7+7+9+9	9+12+12+12	5+5+7+7+18	5+7+7+12+18	7+7+7+7+24	9+9+9+9+9
—	—	9+18+24	5+7+7+12	7+7+9+12	9+12+12+18	5+5+7+7+24	5+7+7+12+24	7+7+7+9+9	9+9+9+9+12
—	—	9+24+24	5+7+7+18	7+7+9+18	9+12+12+24	5+5+7+9+9	5+7+7+18+18	7+7+7+9+12	9+9+9+9+18
—	—	12+12+12	5+7+7+24	7+7+9+24	9+12+18+18	5+5+7+9+12	5+7+9+9+9	7+7+7+9+18	9+9+9+9+24
—	—	12+12+18	5+7+9+9	7+7+12+12	9+18+18+18	5+5+7+9+18	5+7+9+9+12	7+7+7+9+24	9+9+9+12+12
—	—	12+12+24	5+7+9+12	7+7+12+18	12+12+12+12	5+5+7+9+24	5+7+9+9+18	7+7+7+12+12	9+9+9+12+18
—	—	12+18+18	5+7+9+18	7+7+12+24	12+12+12+18	5+5+7+12+12	5+7+9+9+24	7+7+7+12+18	9+9+9+18+18
—	—	12+18+24	5+7+9+24	7+7+18+18	12+12+12+24	5+5+7+12+18	5+7+9+12+12	7+7+7+12+24	9+9+12+12+12
—	—	12+24+24	5+7+12+12	7+7+18+24	12+12+18+18	5+5+7+12+24	5+7+9+12+18	7+7+7+18+18	9+9+12+12+18
—	—	18+18+18	5+7+12+18	7+9+9+9	—	5+5+7+18+18	5+7+9+12+24	7+7+9+9+9	9+12+12+12+12
—	—	18+18+24	5+7+12+24	7+9+9+12	—	5+5+7+18+24	5+7+9+18+18	7+7+9+9+12	9+12+12+12+18
—	—	—	—	—	—	—	—	—	12+12+12+12+12

Remote Controllers – Residential (RAC)

SERIES		WIRELESS	WIRED
 ClimaPure™ XE	CS-XE9WKUAW CS-XE12WKUAW CS-XE15WKUAW CS-XE18WKUAW CS-XE24WKUAW	 (Included)	 **CZ-RD516C-1** (Optional)
 Exterios E	CS-ME5RKUA CS-ME7RKUA CS-E9RKUAW CS-E12RKUAW CS-E18RKUAW CS-E24RKUAW	 (Included)	
 Pro Series	CS-RE9SKUA CS-RE12SKUA CS-RE18SKUA CS-RE24SKUA	 (Included)	
 Pro Series (115V)	CS-YE9WKU1 CS-YE12WKU1	 (Included)	**N/A**
 Slim Duct	CS-ME5SD3UA CS-ME7SD3UA CS-E9SD3UAW CS-E12SD3UAW CS-E18SD3UAW	 (Included)	 **CZ-RD52DU** (Option)
 4-Way Cassette	CS-ME9SB4U CS-E12RB4UW CS-E18RB4UW	 (Included)	 **CZ-RD52CU** (Option)

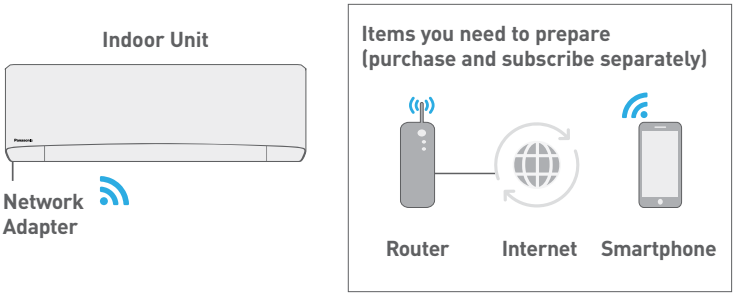
*CO Cooling Only

Panasonic Built-in Wi-Fi and App

A new built-in Network Adapter that allows you to control your heat pump from everywhere.

Available with ClimaPure™ XE Series

- CS-XE9WKUAW
- CS-XE12WKUAW
- CS-XE15WKUAW
- CS-XE18WKUAW
- CS-XE24WKUAW



- Requires the APP to work with a smartphone with Android 4.4 and above, or iOS 9 and above.

However, it can't be guaranteed that the APP will work well with all Android OS version.

- The Network Adapter is designed specifically as a terminal for Panasonic Control app.
- The Wireless LAN network coverage must reach the air conditioner installation location.

Specification

Network Adapter	Wireless LAN Module (built-in)
Model	DNSK-P11
Input Voltage	DC 5V (From Air Conditioner Indoor Unit)
Current Consumption	Tx/Rx max. 290/100 mA
Wireless LAN standard	IEEE 802.11 b/g/n
Frequency range	2.4 GHz band
Encryption	WPA2-PSK (TKIP/AES)

Maximum radio-frequency power transmitted in the frequency bands

Type of wireless	Frequency band	Max. EIRP (dBm)
WLAN	12 - 2472 MHz	20 dBm

App Instructions

For Android user (Android 4.4 and above)

- Open GET IT ON Google Play
- Search for "Panasonic Comfort."
- Download and install.

For iOS user (iOS 9 and above)

- Open Download on the App Store
- Search for Panasonic Control app.
- Download and install.

Wi-Fi Adapter*

Internet Connect devices remotely control a system with one or more indoor units via the cloud. An Internet Control adapter is required for every indoor unit. Requires an internet connection and a Wi-Fi router, Control your equipment using any web browser, iOS or Android device.

 USPA-AC-WIFI-1B	**RAC Residential Wired Wi-Fi Adapter** For compatible units, this Internet Control device is mounted next to the indoor unit and connects to the main board with the supplied cable. It can be used with wired and wireless remotes.
 USIS-IR-WIFI-1	**RAC & PAC Residential and Light Commercial Wireless Adapter** This universal Internet Control infrared (IR) hub can control any RAC or PAC indoor unit with the factory wireless remote or optional wireless kit. It can be used on a table top or wall mount to send IR signals to the unit.

All Internet Control features are included for free up to 50 indoor units. The Pro License is required to control 51 or more indoor units.

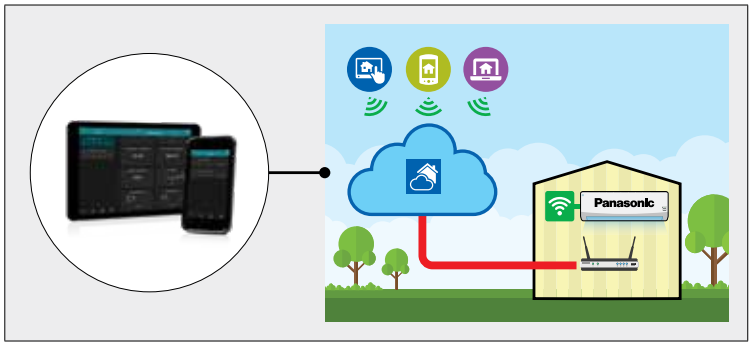
- On/Off
- Heat, Cool, Dry and Auto Modes
- Set Point Temperature
- Adjust Fan Speed
- Louver Direction (if applicable)
- Ambient Temperature
- AC Unit Error Signals, Codes and Descriptions
- Multi-lingual Interface
- Automatic Firmware Updates
- Allows Multiple Users
- Annual Schedule Up to 10 Timers and Scenes
- Multiple Home/Zone Management
- Powerful and Energy Savings Models
- Advanced User Functions
- AC Unit Error Signals, Codes and Descriptions
- Error E-mail Notifications
- User Defined Alerts

Note: Not all features are available on all indoor models

Wireless Home App – Internet Connect

Control your home's comfort with the smart Internet Control device via smartphones, tablet and PC and via the internet.

Offering the same functions as if you were at home or office: start/stop, mode operation, set temperature, room temperature etc. As well as the new, advanced functionality provided by internet control to achieve the best comfort and efficiency with the lowest energy consumption.



What's Internet Control?

Internet Control is a next generation system providing a user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via web browser.

Simple Installation

Just connect the Internet Control device to the air conditioner or heat pump with the supplied wire and then link it to your Wi-Fi access point.

Internet Control. Easy to install. Maximum benefit

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

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

Your existing Wi-Fi connection does the rest when you are at home. Start the App from your smartphone device, your tablet or your computer, and enjoy a new experience in comfort. And if you are out of town, just launch the App, and manage the air conditioning of your home from the cloud.

An intuitive and user-friendly interface that lets you manage your air conditioning unit in the same way you do with the remote controller at home. Internet control can be downloaded in from the **AppStore** or **PlayStore**.

* Use optional external Wi-Fi Adapter and App for Internet connection with all models. See Interface Controls list.

BACnet Integration

BACnet IP and MSTP Controller. Requires (1) device per indoor unit.

 USPA-AC-BAC-1	**RAC Residential BACnet Controller** This is a BACnet over IP or MSTP device. Configured using external dip switches. Includes an HTML based interface that can be used for additional control and BACnet network settings.
 USPA-RC2-BAC-1	**PAC Residential & Light Commercial BACnet Controller** This is a BACnet over IP or MSTP device capable of monitoring and controlling all generations of PACi, ECOi and ECOi EX units. Configured using external dip switches. Includes an HTML based interface that can be used for additional control and BACnet network settings.

The USPA-AC-BAC-1, USPA-RC2-BAC-1 all feature occupied/unoccupied heat and cool set points for reduced programming time and greater energy efficiency.

Global and Individual Operation/Setting Objects

- All On/Off
- On/Off
- Mode
- Setpoint
- Fan Speed
- Air Direction (n/a for ducted units)
- Filter Sign Reset
- Prohibit Thermostat Functions
- Occupied/Unoccupied All
- Occupied/Unoccupied Cool Setpoints
- Occupied/Unoccupied Heat Setpoints
- Run Time Consumption Reset
- ECONAVI-Human detection (if available)

Global and Individual Monitor/Status Objects

- On/Off
- Mode
- Setpoint
- Fan Speed
- Air Direction (n/a for ducted units)
- Space Temperature
- Prohibit Thermostat Functions
- Filter Sign Reset
- Unit and System Error Codes
- Occupied/Unoccupied Mode
- Today, Yesterday and Total Run Time Consumption

Note: Not all features are available on all indoor models

LonWorks Integration

CZ-CLNC1U

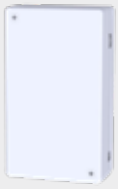
The CZ-CLNC1U LonWorks Interface can control up to 16 indoor units. Monitors and controls all generations of PACi, ECOi and ECOi EX systems. Connecte directly into the communication bus and is field-configured via dip switches.

The CZ-CLNC1U offers the following setting and monitoring objects. Some Objects are not available on all indoor models.

Indoor Unit Operation/Setting Objects
- On/Off
- Mode
- Setpoint
- Fan Speed
- Air Direction (n/a for Ducted Units)

Indoor Unit Monitor/Status Objects
- On/Off
- Mode
- Setpoint
- Fan Speed
- Air Direction
- Space Temperature
- Unit and System Error Codes

RAC Connectivity to PACi, ECOi and ECOi EX



CZ-CAPRA1

This adapter serves and an interface required to connect a central control device, such as an intelligent controller, with the a room air conditioner. Using this adapter can operate or monitor the room air conditioner from a central control device. Panasonic room air conditioners equipped with the CN-CNT terminal are supported.

Features: The following operations from the central control device can be performed

- Operations to start/stop the room AC, switch to operation mode, and set the temperature, fan speed and fan direction (up/down).
- Monitor the operation status and abnormality of room air conditioner.
- Prohibiting the remote control operation of room air conditioner
- Using On/Off contact of external connection can start/stop the room air conditioner, prohibit/permit the remote control operation, and perform emergency stop. A coin timer or card key can also be contacted.
- Retrieving the operation signal of abnormal signal of room air conditioner. (An external power source (DC12V) is separately required.)

Controllers, Communication and Integration

MODEL NO.	DESCRIPTION	USE WITH
RAC Wired Controllers		
CZ-RD516C-1	Wired Remote (for Wall Mount)	XE9WKUA, XE12WKUA, XE15WKUA, XE18WKUA, XE24WKUA XE9SKUA, XE12SKUA, XE15SKUA E9RKUA, E12RKUA, E18RKUA, E24RKUA E9NKUA, E12NKUA, E18NKUA, E24NKUA RE9SKUA, RE12SKUA, RE18SKUA, RE24SKUA
CZ-RD52CU	Wired Remote Controller (4-Way Ceiling Recessed)	**4-Way Ceiling Reccessed:** E**RB4U
CZ-RD52DU	Wired Remote Controller (4-Way Ceiling Recessed)	**Slim Duct:** E**SD3UA
Interface Controls		
USPA-AC-WIFI-1B	Wi-Fi Interface for RAC (XE models, E9/E12NKUAW)	XE models, E9/12NKUAW, S9/12NKUA, ME7QKUA, ME7RKUA, E**RKUAW, E12/18RB4UW
USPA-RC2-WIFI-1	Wi-Fi Interface for PAC & ECOi	All 26,000 ~ 42,000 BTU/h Models, except KS30/36NKU and KE 30/36NKU
USIS-IR-WIFI-1	Wi-Fi Interface for RAC	S18/24NKUA, E18/24NKUA, S9/12NKUW-1, S18/22NKU-1, KS12NB41, KS18NB4UW, MKS**NKU, MKS**NB4U, MKE**NKU, MKE**NB4U, KE18NB4UW, KS30/36NKU, KE30/36NKU
USPA-AC-BAC-1	BACnet Interface for RAC (XE / E**NKUA Series)	All XE, E9/12NKUA, S9/12NKUA, ME7QKUA, ME7RKUA, E**RKUAW, E12/18RB4UW
USPA-RC2-BAC-1	BACnet Interface for PAC & ECOi	All 26,000 ~ 42,000 BTU/h Models, except KS30/36NKU and KE30/36NKU

Accessories

ACCESSORIES		
WINDB-1A	Wind Baffle - Side Discharge Fan	YE9WKU1, YE12WKU1 22.5 " wide - Single Fan - 1 Baffle, Double Fan - 2 Baffles
WINDB-M1	Wind Baffle - Small Multi/Large Single Coil Side	XE15WKUA, XE18WKUA, XE24WKUA, CU-2E18SBU, CU-3E19RBU, CU-E12RBU, CU-E18RBU, CU-E18RKUA, CU-E24RKUA, CU-RE18SKUA, CU-RE24SKUA, CU-E18SD3UA
WINDB-R1	Wind Baffle - Small Single Coil Side	XE9WKUA, XE12WKUA, CU-E12RBU, CU-E18RBU, CU-E9RKUA, CU-E12RKUA, CU-RE9SKUA, CU-RE12SKUA, CU-E9SD3UA, CU-E12SD3UA
WINDB-P1	Wind Baffle - Small PACi Single Coil Side	U-26PE1U6, U-36PE1U6
WINDB-P2	Wind Baffle - Large PACi and Mini ECOi Single Coil Side	U-36LE1U6, U-52LE1U6, U-42PE1U6
WINDB-XE1	Wind Baffle - XE only Coil Side	CU-XE9SKUA, CU-XE12SKUA, CU-XE15SKUA
WINDB-M2	Wind Baffle - Large Multi Coil Side	CU-4E24RBU-5, CU-5E36QBU-5
CZ-90DAF2	Three (3) port duct flange	S-26PF2U6
CZ-160DAF2	Four (4) port duct flange	S-36PF2U6
CZ-MA1P-US-BUND	Tube Size Reducer with Flare Nut (for multi-zone)	CU-2E18SBU-5, CU-3E19RBU-5, CU-4E24RBU-5, CU-5E36QBU-5
CZ-MA2P-US-BUND	Tube Size Reducer with Flare Nut (for multi-zone)	CU-3E19RBU-5, CU-4E24RBU-5
CZ-MA3P-US-BUND	Tube Size Reducer with Flare Nut (for multi-zone)	CU-3E19RBU-5, CU-4E24RBU-5
AUXHTK1	Auxiliary Heater Relay Kit	XE9WKUA, XE12WKUA, XE15WKUA, XE18WKUA, XE24WKUA
CZ-SA31P	PM 2.5 Filter	All XE, E, RE wall mount
CZ-SA20P	Anti-Microbial Filter	All XE, E, RE wall mount

Pipe Lengths, Fittings, Elevations and Refrigerant

SYSTEM MODEL	SYSTEM MODEL	OD Tube Size (inches)		Maximum Length of Tubing between In/Outdoor (ft)	Maximum Elevation Difference between In/Outdoor (ft)		Maximum ßLength (ft) without Adding Refrigerant	Required Additional Refrigerant Oz/ft	Insulation
		Narrow	Wide		Outdoor Above	Outdoor Below			
Wall Mount	XE9WKUA	1/4	3/8	66	49	49	25	R410A 0.2	Both Tubes
	XE12WKUA	1/4	1/2	66	49	49	25	R410A 0.2	Both Tubes
	XE15WKUA	1/4	1/2	66	49	49	25	R410A 0.2	Both Tubes
	XE18WKUA	1/4	1/2	100	49	49	33	R410A 0.2	Both Tubes
	XE24WKUA	1/4	5/8	100	49	49	33	R410A 0.2	Both Tubes
	XE9SKUA	1/4	3/8	66	49	49	25	R410A 0.2	Both Tubes
	XE12SKUA-1	1/4	1/2	66	49	49	25	R410A 0.2	Both Tubes
	XE15SKUA-1	1/4	1/2	66	49	49	25	R410A 0.3	Both Tubes
	E9RKUA	1/4	3/8	66	49	49	25	R410A 0.2	Both Tubes
	E12RKUA	1/4	1/2	66	49	49	25	R410A 0.2	Both Tubes
	E18RKUA	1/4	1/2	100	49	49	33	R410A 0.3	Both Tubes
	E24RKUA	1/4	5/8	100	49	49	33	R410A 0.3	Both Tubes
	RE9SKUA	1/4	3/8	49	49	49	25	R410A 0.2	Both Tubes
	RE12SKUA	1/4	1/2	49	49	49	25	R410A 0.2	Both Tubes
	RE18SKUA	1/4	1/2	66	49	49	33	R410A 0.3	Both Tubes
	RE24SKUA	1/4	5/8	66	49	49	33	R410A 0.3	Both Tubes
	YE9WKU1	1/4	3/8	50	33	33	25	R410A 0.22	Both Tubes
	YE12WKU1	1/4	1/2	50	33	33	25	R410A 0.22	Both Tubes
	26PEK2U6	3/8	5/8	165	100	50	100	R410A 0.43	Both Tubes
	KE30NKUA	3/8	5/8	164	100	50	100	R410A 0.43	Both Tubes
	KE36NKUA	3/8	5/8	164	100	50	100	R410A 0.43	Both Tubes
	KS30NKUA	3/8	5/8	164	100	50	100	R410A 0.43	Both Tubes
	KS36NKUA	3/8	5/8	164	100	50	100	R410A 0.43	Both Tubes
4-Way Cassette	E12RB4U	1/4	1/2	66	49	49	25	R410A 0.2	Both Tubes
	E18RB4U	1/4	1/2	100	49	49	33	R410A 0.3	Both Tubes
	26PEU2U6	3/8	5/8	165	100	50	100	R410A 0.43	Both Tubes
	36PEU2U6	3/8	5/8	165	100	50	100	R410A 0.43	Both Tubes
	42PEU2U6	3/8	5/8	165	100	50	100	R410A 0.43	Both Tubes
Concealed Duct	E9SD3UA	1/4	3/8	66	49	49	25	R410A 0.2	Both Tubes
	E12SD3UA	1/4	1/2	66	49	49	25	R410A 0.2	Both Tubes
	E18SD3UA	1/4	1/2	100	49	49	25	R410A 0.3	Both Tubes
	26PEF2U6	3/8	5/8	165	100	50	100	R410A 0.43	Both Tubes
	36PEF2U6	3/8	5/8	165	100	50	100	R410A 0.43	Both Tubes
Ceiling Suspended	26PET2U6	3/8	5/8	165	100	50	100	R410A 0.43	Both Tubes
	36PET2U6	3/8	5/8	165	100	50	100	R410A 0.43	Both Tubes
	42PET2U6	3/8	5/8	165	100	50	100	R410A 0.43	Both Tubes
Multi-Split	CU-2E18SBU-5	1/4	3/8*	82	49	25	66	R410A 0.2	Both Tubes
	CU-3E19RBU-5	1/4	3/8	82	49	25	98	R410A 0.2	Both Tubes
	CU-4E24RBU-5	1/4	3/8	82	49	25	147	R410A 0.2	Both Tubes
	CU-5E36QBU-5	1/4	3/8*	80	49	25	150	R410A 0.2	Both Tubes

Important: You must use refrigerant piping rated for R410a.
*Reducing adapter may be required depending on indoor model to be used with. (CZ-MA1P, CZ-MA2P or CZ-MA3P)

Operation Range

XE9/12/15/18/24 Models — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32°C (89.6°F) DB / 23°C (73.4°F) WB	46°C (114.8°F) DB / 26°C (78.8°F) WB
	Minimum	16°C (60.8°F) DB / 11°C (51.8°F) WB	–17C (0F) DB / - WB
Heating	Maximum	30°C (86F) DB / - WB	23.8°C (75°F) DB / 17.7°C (64°F) WB
	Minimum	20.4°C (68.8°F) DB / - WB	–9.4°C (15°F) DB / -8.8°C (16°F) WB

Exterios XE (CU-XE 9/12/15 SKUA) — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32.4°C (90.4°F) DB / 23.3°C (74°F) WB	46.1°C (115°F) DB / 26.1°C (79°F) WB
	Minimum	16.1°C (61°F) DB / 11.1°C (52°F) WB	–17°C (0°F) DB / - WB
Heating	Maximum	30°C (86°F) DB / - WB	23.3°C (75°F) DB / 17.7°C (64°F) WB
	Minimum	16.1°C (61°F) DB / - WB	26.1°C (–15°F) DB / 26.6°C (–16°F) WB

Exterios E (CU-E 9/12/18/24 RKUA) — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32.4°C (90.4°F) DB / 23.3°C (74°F) WB	46.1°C (115°F) DB / 26.1°C (79°F) WB
	Minimum	16.1°C (61°F) DB / 11.1°C (52°F) WB	–17°C (0°F) DB / - WB
Heating	Maximum	30°C (86°F) DB / - WB	23.3°C (75°F) DB / 17.7°C (64°F) WB
	Minimum	16.1°C (61°F) DB / - WB	-20.5°C (-5°F) DB / -14°C (6.8°F) WB

Pro RE (CU-RE 9/12/18/24 SKUA) — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32.4°C (90.4°F) DB / 23.3°C (74°F) WB	46.1°C (115°F) DB / 26.1°C (79°F) WB
	Minimum	16.1°C (61°F) DB / 11.1°C (52°F) WB	–17°C (0°F) DB / - WB
Heating	Maximum	30°C (86°F) DB / - WB	23.3°C (75°F) DB / 17.7°C (64°F) WB
	Minimum	16.1°C (61°F) DB / - WB	–20°C (–4°) DB / –21°C (–5.8°F) WB

YE9/12 115V Models — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32°C (89°F) DB	50°C (122°F) DB
	Minimum	17°C (62.6°F) DB	–15°C (5°F) DB
Heating	Maximum	30°C (86°F) DB / - WB	30°C (86°F) DB
	Minimum	0°C (32°F) DB	–25°C (–13°F) DB

4-Way Ceiling Cassette (CU-E 12/18 RB4U) — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32.2°C (90°F) DB / 23.3°C (74°F) WB	46.1°C (115°F) DB / 26.1°C (79°F) WB
	Minimum	16.1°C (61°F) DB / 11.1°C (52°F) WB	–17°C (0°F) DB / - WB
Heating	Maximum	30°C (86°F) DB / - WB	23.3°C (75°F) DB / 17.7°C (64°F) WB
	Minimum	16.1°C (61°F) DB / - WB	–15°C (5°F) DB / -16°C (3.2°F) WB

Slim Duct (CU-E 9/12/18 SD3UA) — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32.4°C (90.4°F) DB / 23.3°C (74°F) WB	46.1°C (115°F) DB / - WB
	Minimum	15.5°C (60°F) DB / 11.1°C (52°F) WB	–17°C (0°F) DB / - WB
Heating	Maximum	30°C (86°F) DB / - WB	23.3°C (75°F) DB / 17.7°C (64°F) WB
	Minimum	16.1C (61F) DB / - WB	–20°C (-4°F) DB / –20°C (-4°F) WB

Professional Series
(U- 26/36/42 PE1U6) Wall Mount PK / Ceiling Suspended PT /
4-Way Cassette PU / Ducted PF — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32.2°C (90°F) DB / 25°C (77°F) WB	46.1°C (115°F) DB / 26.1°C (79°F) WB
	Minimum	17.7°C (64°F) DB / 13.9°C (57°F) WB	-17°C (0°F) DB / - WB
Heating	Maximum	30°C (86°F) DB / - WB	23.3°C (75°F) DB / 17.7°C (64°F) WB
	Minimum	16.1°C (61°F) DB / - WB	–15°C (5°F) DB / –16°C (3.2°F) WB

Professional Series (KE 30/36 NKU) — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	35°C (95°F) DB / 21.6°C (71°F) WB	46.1°C (115°F) DB
	Minimum	19.4°C (67°F) DB / 13.8°C (57°F) WB	–17°C (0°F) DB
Heating	Maximum	26.6°C (80°F) DB / 19.4°C (67°F) WB	23.3°C (75°F) DB / 18.3°C (64°F) WB
	Minimum	- DB / - WB	- DB /–17.7°C (0°F) WB

Professional Series (KS 30/36 NKU) Cooling Only — Single Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	35°C (95°F) DB / 21.6°C (71°F) WB	46.1°C (115°F) DB
	Minimum	19.4°C (67°F) DB / 13.8°C (57°F) WB	–17.7°C (0°F) DB

CU-2E18NBU — Multi Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32°C (89.6°F) DB / 23°C (73.4°F) WB	34°C (109.4°F) DB / 26°C (78.8°F) WB
	Minimum	16°C (60.8°F) DB / 11°C (51.8°F) WB	16°C (60.8°F) DB / 11°C (51.8°F) WB
Heating	Maximum	30°C (86°F) DB / - WB	24°C (75.2°F) DB / 18°C (64.4°F) WB
	Minimum	20.4°C (68.8°F) DB / - WB	-15°C (5°F) DB / –16°C (3.2°F) WB

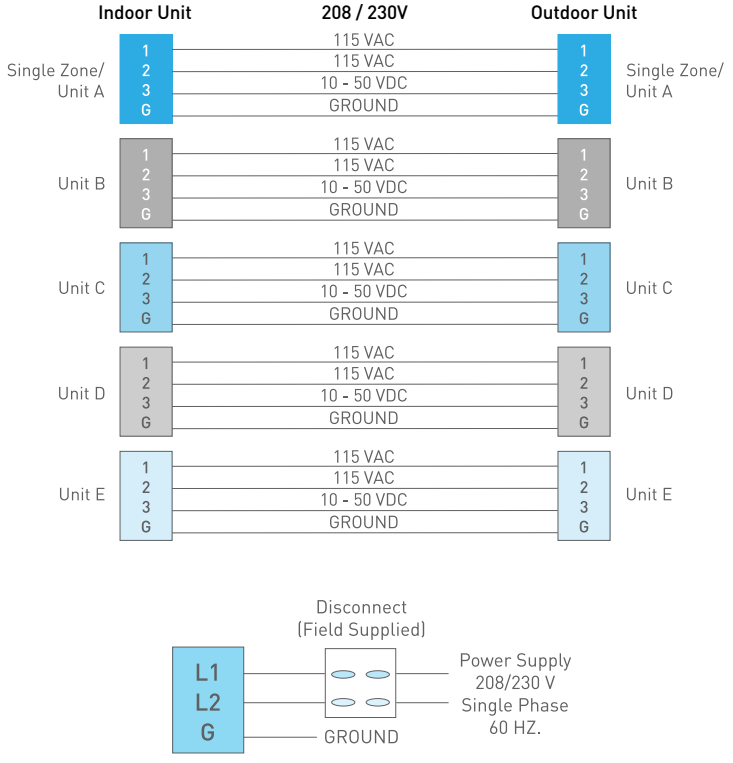
CU-2E18SBU-5 — Multi Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32.4°C (90.4°F) DB / 23.3°C (74°F) WB	46.1°C (115°F) DB / 26.1°C (79°F) WB
	Minimum	16.1°C (61°F) DB / 11.1°C (52°F) WB	–10°C (14°F) DB / - WB
Heating	Maximum	30°C (86°F) DB / - WB	24°C (75.2°F) DB / 18°C (64.4°F) WB
	Minimum	16.1°C (61°F) DB / - WB	–26.1°C (-15°F) DB / -26.6°C (-16°F) WB

CU-3E19RBU-5 / CU-4E24RBU-5 / CU-5E36QBU-5 — Multi Zone

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32°C (89.6°F) DB / 23°C (73.4°F) WB	46°C (114.8°F) DB / 26°C (78.8°F) WB
	Minimum	16°C (60.8°F) DB / 11°C (51.8°F) WB	–10°C (14°F) DB / - WB
Heating	Maximum	30°C (86°F) DB / - WB	24°C (75.2°F) DB / 18°C (64.4°F) WB
	Minimum	16°C (60.8°F) DB / - WB	–20.5°C (–5°F) DB / –21.6°C (–6.8°F) WB

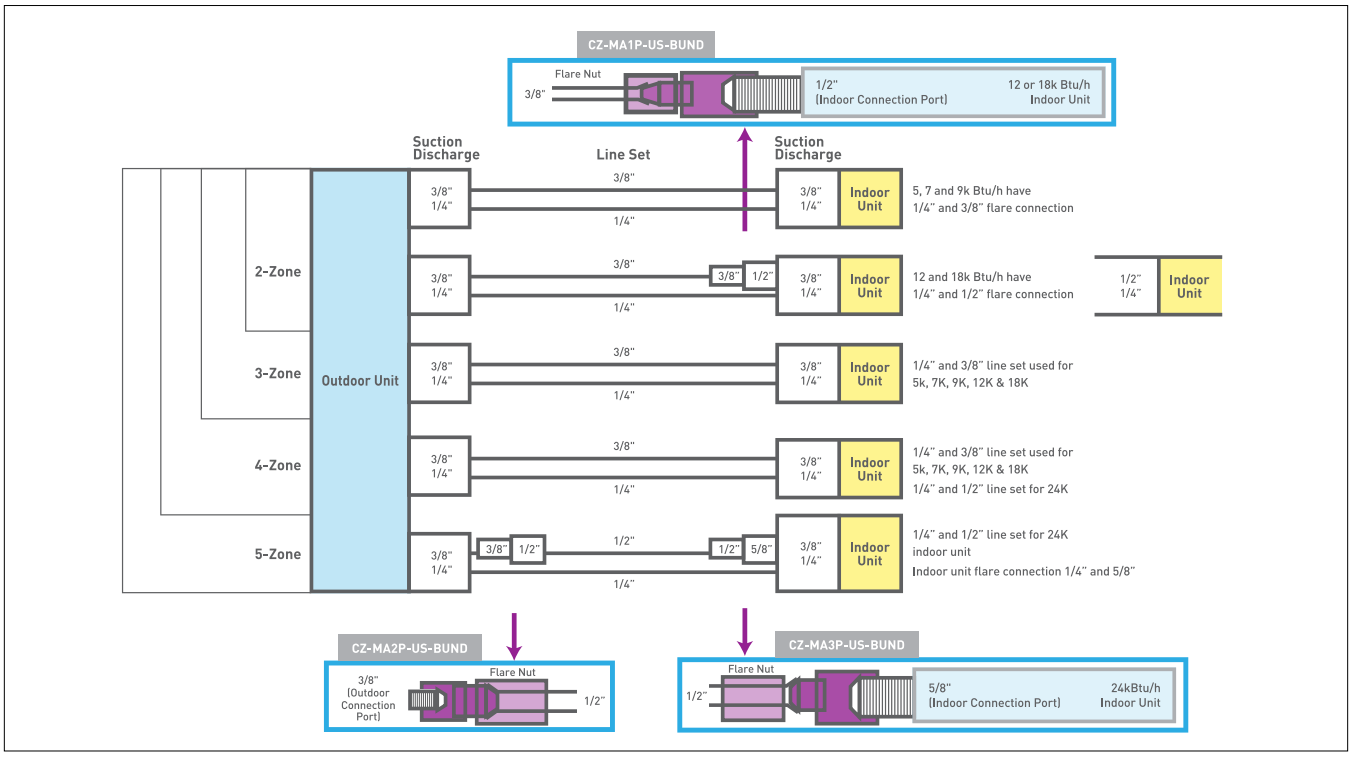
Single & Multi-Zone Wiring



UL Listed or CSA approved 4 conductor wires minimum AWG16. Wiring size may vary based on length and should be verify with a licensed electrician.
Supply power and inter connecting wiring must be ran in separate conduits.

Multi-Zone Tube Adapters

Model Number CU-5E36QBU-5



(Qty) and Adapter Required for Multi-Zone Installations

Adapter Chart		2 Zone CU-2E18NBU CU-2E18SBU-5		2-3 Zone CU-3E19RBU-5		2-4 Zone CU-4E24RBU-5		2-5 Zone CU-5E36QBU-5	
		O/D	I/D	O/D	I/D	O/D	I/D	O/D	I/D
Wall Mount	CS-ME5RKUA	none	none	none	none	none	none	none	none
	CS-ME7RKUA	none	none	none	none	none	none	none	none
	CS-E9RKUAW	none	none	none	none	none	none	none	none
	CS-E12RKUAW	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P
	CS-E18RKUAW	N/A	N/A	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P
	CS-E24RKUAW	N/A	N/A	N/A	N/A	(1) MA2P	(1) MA3P	(1) MA2P	(1) MA3P
	CS-XE9WKUAW	none	none	none	none	none	none	none	none
	CS-XE12WKUAW	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P
	CS-XE15WKUAW	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P
	CS-XE18WKUAW	N/A	N/A	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P
4-Way	CS-ME9SB4U	none	none	none	none	none	none	none	none
	CS-E12RB4UW	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P
	CS-E18RB4UW	N/A	N/A	N/A	(1) MA1P	none	(1) MA1P	none	(1) MA1P
Slim Duct	CS-ME5SD3UA	none	none	none	none	none	none	none	none
	CS-ME7SD3UA	none	none	none	none	none	none	none	none
	CS-E9SD3UAW	none	none	none	none	none	none	none	none
	CS-E12SD3UAW	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P	none	(1) MA1P
	CS-E18SD3UAW	N/A	N/A	N/A	(1) MA1P	none	(1) MA1P	none	(1) MA1P

none - no adapter required N/A - indoor does not match capacity of outdoor
Ducted Multi-Zone Applications Available March 2017.

Adapter Model	(male/female)
CZ-MA1P-US-BUND	3/8" M x 1/2"F
CZ-MA2P-US-BUND	3/8" F x 1/2"M
CZ-MA3P-US-BUND	1/2" M x 5/8"F
Flare Nut (included)	

Tube Size Adapter with Flare Nut
CZ-MA1P-US-BUND
CZ-MA2P-US-BUND
CZ-MA3P-US-BUND

Flare Nut

Note: Flare nut is usually supplied with all line sets.
Panasonic also provides flare nut with adapter for contractor convenience.

Model Identification

RAC

Indoor Unit

C	S	–	X	E	1	2	S	K	U	A
1	2		3	4	5	6	7	8	9	10

Outdoor Unit

C	U	–	X	E	1	2	S	K	U	A
1	2		3	4	5	6	7	8	9	10

System

E	1	2	S	K	U	A
4	5	6	7	8	9	10

1 Series	2 Model/Type	3 Connection configuration	4 Function	5,6 Capacity	7 Development	8 Category (Type)	9 Voltage	10 Others
C: Residential	**S:** Indoor unit **U:** Outdoor unit	**X:** Deluxe type **K/None:** Internal purpose **MK:** Indoor unit for Multi zone **Connected Type (Multi-zone) Numeral:** Numeral+K	**S:** Cooling only **E:** Heat pump	Cooling Capacity in BTU/h	**Development Series No.**	**K:** Wall Mount **B4:** Mini Ceiling Recessed **K:** Internal	**U:** 208/230V, 60Hz	**-1:** Non-Low Ambient **W:** Multi/Single Zone common use **-1:** Non-Low Ambient

PAC

Indoor Unit

S	–	26	P	U	2	U6
1		2	3	4	5	6

Outdoor Unit

U	–	36	P	E	1	U6
1		2	3	4	5	6

Set

26	P	E	2	U6
2	3	4	5	6

1 Model/Type	2 Capacity	3 Series	4 Category (Function)	5 Development	6 Voltage
S: Indoor unit	Cooling Capacity in BTU/h	**P:** Large Capacity series	**K:** Wall Mount **U:** Ceiling Recessed **T:** Ceiling suspended **F:** Concealed Duct	Development Series	**U6:** 208/230V 60Hz
U: Outdoor Unit			**S:** Cooling Only **E:** Heat Pump		

Sanyo to Panasonic Cross Reference

* H/P: Heat Pump, C/O: Cooling Only

PAC Outdoor 2 types / 10 models

Category		Capacity Kbtu/h	Sanyo Model No.	Panasonic Model No.
PAC-i (Split)	H/P	26	CH2672R	U-26PE1U6
		36	CH3672R	U-36PE1U6
		42	CH4272R	U-42PE1U6
		30	CH3082	CU-KE30NKU
		36	CH3682	CU-KE36NKU
	C/O	26	C2672R	U-26PS1U6
		36	C3672R	U-36PS1U6
		42	C4272R	U-42PS1U6
		30	C3082	CU-KS30NKUA
		36	C3682	CU-KS36NKUA

PAC Indoor 5 types / 15 models (13 models, Panel : 2 models)

Category		Capacity Kbtu/h	Sanyo Model No.	Panasonic Model No.
4-Way Cassette	H/P	26	XHW2672R	S-26PU1U6
		36	XHW3672R	S-36PU1U6
		42	XHW4272R	S-42PU1U6
		Panel	PNR-XH2442	CZ-24KPU1U
		Panel	PNR-XH3642	CZ-36KPU1U
Wall Mount	H/P	26	KHS2672R	S-26PK1U6
Wall Mount	C/O	36	KS3082	CS-KS30NKU
		42	KS3682	CS-KS36NKU
	H/P	30	KHS3082	CS-KE30NKU
		36	KHS3682	CS-KE36NKU
Ceiling Suspended	H/P	26	THW2672R	S-26PT1U6
		36	THW3672R	S-36PT1U6
		42	THW4272R	S-42PT1U6
Duct	H/P	26	UHW2672R	S-26PF1U6
		36	UHW3672R	S-36PF1U6

RAC (37 models)

Category		Capacity Kbtu/h	Sanyo Model No.	Panasonic Model No.
Mini Cassette	Inv C/O	12	XS1271	CS-KS12NB41
		Panel	PNR-XS1872	CZ-18BT1U
Outdoor Unit		12	CL1271	CU-KS12NK1A
		18	C1872	CU-KS18NKU
		18	CL1872	CU-KS18NKUA
		24	C2472	CU-KS24NKU
		24	CL2472	CU-KS24NKUA
Wall Mount	Inv H/P	18	KHS1872	CS-KE18NKU
		24	KHS2472	CS-KE24NKU
Mini Cassette		12	XHS1271	CS-KE12NB41
		18	XHS1872	CS-KE18NB4UW
		Panel	PNR-XS1872	CZ-18BT1U
Outdoor Unit		12	CH1271	CU-KE12NK1
		18	CH1872	CU-KE18NKU
		24	CH2472	CU-KE24NKU
Wall Mount	Flexi Multi C/O	7	KMS0772	CS-MKS7NKU
		9	KMS0972	CS-MKS9NKU
		12	KMS1272	CS-MKS12NKU
		18	KMS1872	CS-MKS18NKU
		24	KMS2472	CS-MKS24NKU
Mini Cassette		9	XMS0972	CS-MKS9NB4U
		12	XMS1272	CS-MKS12NB4U
		Panel	PNR-XS1872	CZ-18BT1U
Outdoor Unit		19	CM1972A	CU-3KS19NBU
		24	CM2472A	CU-4KS24NBU
		31	CM3172A	CU-4KS31NBU
Wall Mount	Flexi Multi H/P	7	KMHS0772	CS-MKE7NKU
		9	KMHS0972	CS-MKE9NKU
		12	KMHS1272	CS-MKE12NKU
		18	KMHS1872	CS-MKE18NKU
		24	KMHS2472	CS-MKE24NKU
Mini Cassette		9	XMHS0972	CS-MKE9NB4U
		12	XMHS1272	CS-MKE12NB4U
		Panel	PNR-XS1872	CZ-18BT1U
Outdoor Unit		19	CMH1972A	CU-3KE19NBU
		24	CMH2472A	CU-4KE24NBU
		31	CMH3172A	CU-4KE31NBU

Controllers

Category		Sanyo Model No.	Panasonic Model No.
Wireless RC	Common	RCS-BH80AAB.WL	CZ-RWSC1U
	4-Way	RCS-SH80AAB.WL	CZ-RWSU1U
	Wall Mount	RCS-SH1AAB	CZ-RWSK1U
System Controller		SHA-KC64UG	CZ-64ESMC1U
Simple Remote		RCS-KR1EG	CZ-RE2C2
Simple Wired RC		NEW	CZ-RELC2
Wireless RC	U1/T1 Series	RCS-SH80UA.WL	CZ-RWSU2U
Wired Kit		STK-KCW1	CZ-RC515U
		STK-KCW2	CZ-RC515UA
Wired RC		STK-RCS-7TWSUA	CZ-RD515U

Accessories

Category		Sanyo Model No.	Panasonic Model No.
Fresh Air intake	4-Way	CMB-GSJ80U	CZ-26BCU1U
	4-Way	CMB-GSJ140U	CZ-42BCU1U
Outdoor Bracket		STK-KSB2050	CZ-12UD1U
		STK-KSB5050	CZ-30UD1U

Rating Conditions

	Cooling	Heating
Inside air temperature	80°F DB / 67°F WB	70°F DB / 60°F WB
Outside air temperature	95°F DB (75°F WB)	47°F DB / 43°F WB

NOTES

NOTES

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Use of the AHRI Certified™ mark indicates a manufacture's participation in the certification program. For verification of certification for individual products, go to www.ahridirectory.org

C SP® US

Quality Management System Certificate

Certified to ISO 9001: 2008
Cert. No.: MY-AR 1010

Certified to ISO 9001: 2008

Panasonic Appliance Air Conditioning Malaysia Sdn.Bhd.
Cert. No.: MY-AR 1010

Environmental Management System Certificate

074

Certified to ISO 14001: 2004
Cert. No.: MY-ER 0112

Certified to ISO 14001: 2004

Panasonic Appliance Air Conditioning Malaysia Sdn.Bhd.
Cert. No.: MY-ER 0112

CAUTION RELATED TO SAFETY
Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of other refrigerant.

Standard warranty - 7 years compressor/5 years parts.
For extended product warranty, please contact your local authorized dealer for more information.

Panasonic Corporation of North America

Panasonic Appliances Air-Conditioning North America
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2 Riverfront Plaza, Newark, NJ 07102
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Panasonic Canada Inc.

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