Panasonic

RESIDENTIAL AIR CONDITIONERS
## 2019 / 2020
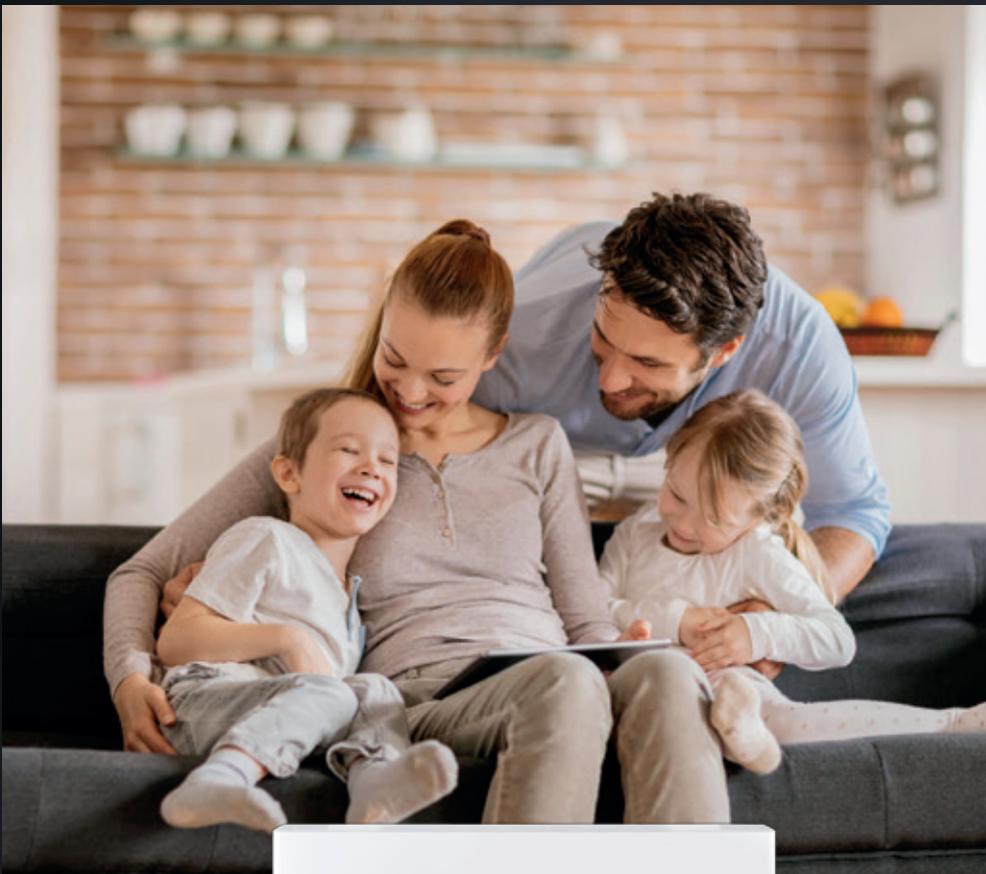
nanoeX

Panasonic Comfort Cloud
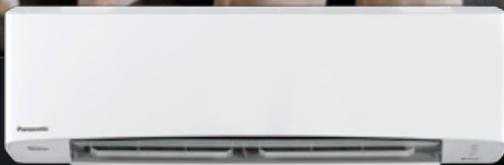
AERO SERIES
DEVELOPER SERIES
FLOOR CONSOLE
MULTI SPLIT SYSTEM

PREMIUM REVERSE
CYCLE INVERTER

AERO SERIES

nanoeX | R32 REFRIGERANT | INVERTER | SENSITIVE CHOICE

QUALITY AIR FOR LIFE

Indoor Air Quality Issues

Clean air is essential to healthy living. We spend more time indoors, making indoor air quality a serious issue.

Invisible issues with indoor air environments

Temperature control						Ventilation
Cold	Hot	CO	CO₂	Humidity	VOCs	Stale air

Mould · Pollen · PM2.5

Humidity · Dryness

| Humidity control					Purification
	Odours	Perspiration odour	Dust	Bacteria and viruses	
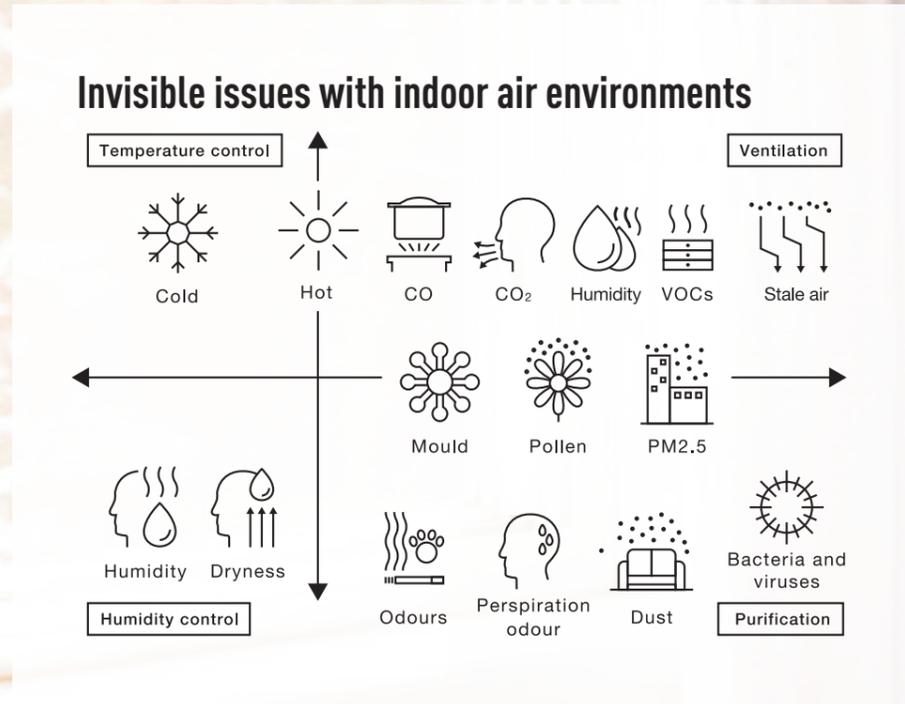
Living Room

Do you experience hot stagnated air when you get home? Do you feel uncomfortable in a living room full of people?

High Temperature & High Humidity

High Temperature & High Humidity
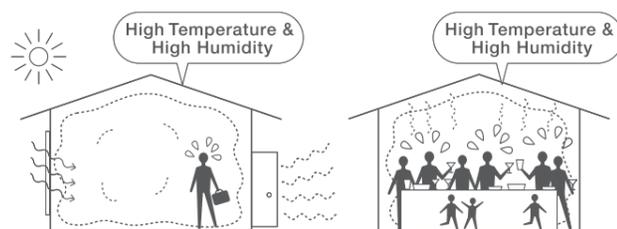
Hot air tends to stagnate in closed spaces. People contribute to the increase in temperature and humidity.

Does the difference in height between children and adults make a difference to their health?

Viruses
Mould
Dust mites
Dust
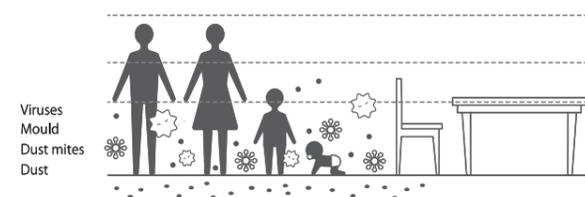
All day long, children breathe closer to the floor and furniture.

Bedroom

On average, which room do people spend the most time in at home?

Living room	Dining room	Bedroom
4h	2h	8h

(Of total 14 hours at home)
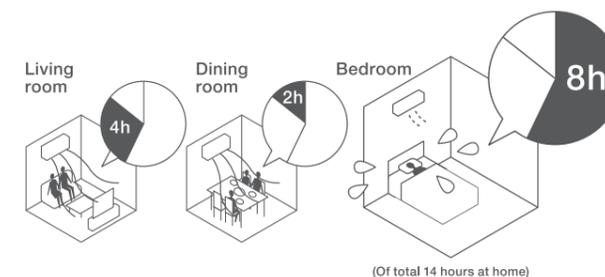
Most of us spend 8 hours a day sleeping in the bedroom and want to wake up refreshed the next day.

Study Room

Finding it hard to focus in your study?
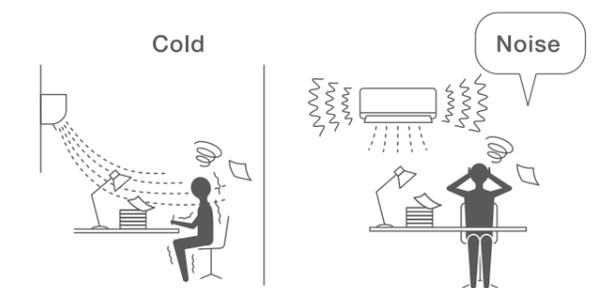
Cold

Noise

Concentration is disrupted by loud operating noises and feeling colder in smaller rooms.

Complete Air Purification Purifies Your Air Wherever You Are

nanoe X

Maintenance Free
No maintenance required for nanoe™ X generator device.

Purifies Home 24 hrs

nanoe TECHNOLOGY

Only at 25W/Hour[*2]
Low energy consumption with fan mode 25W per hour for a single unit.

Return to a fresh smelling home every time

nanoe
Leave nanoe™ mode ON to deodorise, and inhibits bacteria and viruses.[*1]

Cleaner and comfortable space for loved ones
Takes care of the air so you can enjoy more quality family time and restful sleep in your living space.

Purifies When You Are Away

Step 1:
Turn ON air conditioner with Panasonic's Comfort Cloud App

Step 2:
Select nanoe™ mode from 'Mode Selection'. nanoe™ mode is displayed on screen.

Living Room + Dining Room — Only purifies
Bedroom — Only purifies

Time spent away 10hrs

[*1] Wireless LAN Remote Control for Internet Connection required optional network adaptor.
[*2] Indoor temperature display and some special function are not available through the App for all models.

Purifies When You Are At Home

Step 1:
Turn OFF air conditioner

Step 2:
Turn ON nanoe™ mode

Living Room + Dining Room — Cools and purifies
Bedroom — Only purifies
Time spent in the room: 6hrs

Living Room + Dining Room — Only purifies
Bedroom — Cools and purifies
Time spent in the room: 8hrs
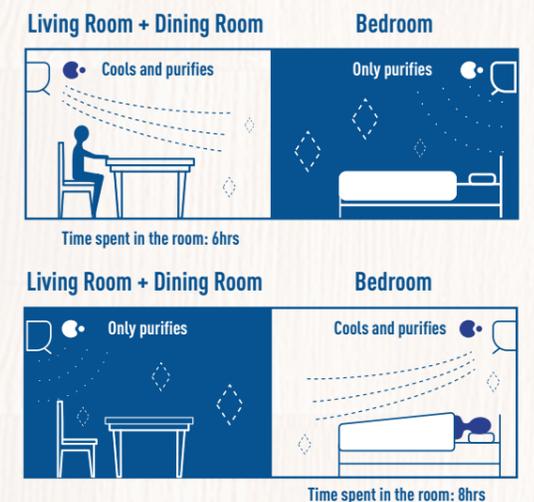
[*2] Energy consumption may vary depending on models.

Panasonic's Advanced
Air Purification System

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

SENSITIVE CHOICE

Approved by the
National Asthma Council Australia and
Asthma+Respiratory Foundation NZ

nanoe X

Professionals acknowledge the effectiveness of nanoe™ X

Inhibits Mould, Bacteria and Viruses

Professor Masafumi Mukamoto
Osaka Prefecture University
Veterinary Infectious
Disease Studies

Various types of moulds enter houses along with people and air. Even if preventive action is taken in our everyday lives, it is often very difficult to inhibit the growth of mould, especially in humid environments. With nanoe™ X, we have experimental results* that show we can inhibit the growth of the types of mould commonly found in various places in the house. As nanoe™ X is also capable of inhibiting invisible bacteria and viruses that exist in our living environment, we can expect it will deliver a clean environment. I recommend that equipment incorporating nanoe™ X technology be placed in buildings where cleanliness is required, such as in schools, childcare facilities and medical institutions.**

*Experimental results show that nanoe™ X is effective in inhibiting the growth of the following types of mould commonly found in homes: Cladosporium, Aspergillus, Penicillium, Alternaria, Fusarium, Eurotium, Mucor, and Stachybotrys.

Inhibits Allergens

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. As the safety of nanoe™ X has also been verified, nanoe™ X gives peace of mind to families with small children.**

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

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10 Reasons Why nanoe X?

24 hrs

Operates with Fan Mode.
Low Power Consumption at only
25W/Hour = LED Light Bulb

Purifies your air all day
• nanoe™ X is able to function independently to continue purifying and deodorising your living space.

nanoe™ → nanoe™ X
OH Radicals — Number of OH Radicals 10-fold — OH Radicals
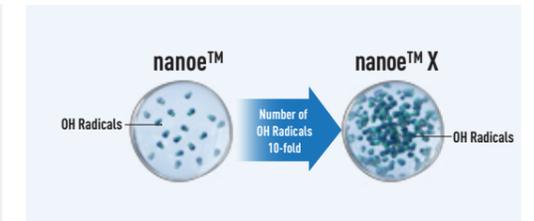
10X more effectiveness
• With improved nanoe™ Technology, nanoe™ X produces 10 times more OH radicals – 4.8 trillion OH radicals/sec.
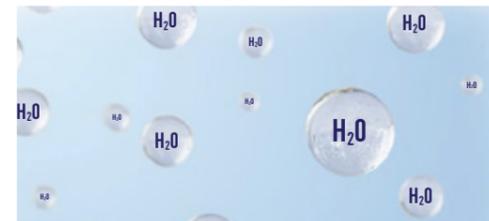
H_2O particles

Natural H_2O particles
• nanoe™ is generated from moisture in the air that contains highly reactive components known as hydroxyl (OH) radicals.
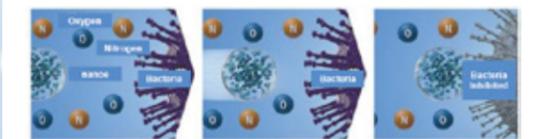
Lasts more than 600 secs in the air

Longer life span of nanoe™ particles
• 6-fold* longer lifespan enables OH radicals to reach a greater area.
*The lifespan of general air ions (negative ions) ranges from the tens of seconds to 100 seconds

Effective deodorisation
• Deodorises commonly encountered unpleasant smells like cigarette smoke, perspiration and even durian.

Inhibits bacteria and viruses in fabrics and surfaces
• Inhibits bacteria and viruses adhering to surfaces.

Inhibits allergens and pollen
• Inhibits and controls the spread of major allergens, including mites and pollen in the air.
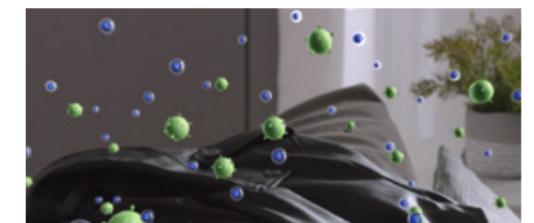
Inhibits growth of mould
• Inhibits airborne and adhered mould to keep living space fresh.


Counter Electrode
Atomization Electrode
Generation Zone of OH Radicals
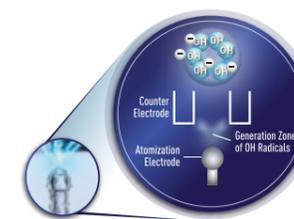
Maintenance free
• nanoe™ X generator device requires no maintenance as nanoe™ is generated from water in the air.

Safe and non-chemical particles
• Safety of nanoe™ X and nanoe™ has been tested and proven by institutes and laboratories. Visit our website for a list of safety test data.
https://www.panasonic.com/global/corporate/technology-design/technology/nanoe.html

Complete Air Connectivity

Convenient Centralised Solutions

The **Panasonic Comfort Cloud Application** enables you to conveniently manage and monitor multiple AC units from just 1 mobile device.

Intuitive Voice Control

Control air conditioning units by voice command connecting to Intelligent Voice Control System.*

* Time of release to be confirmed.
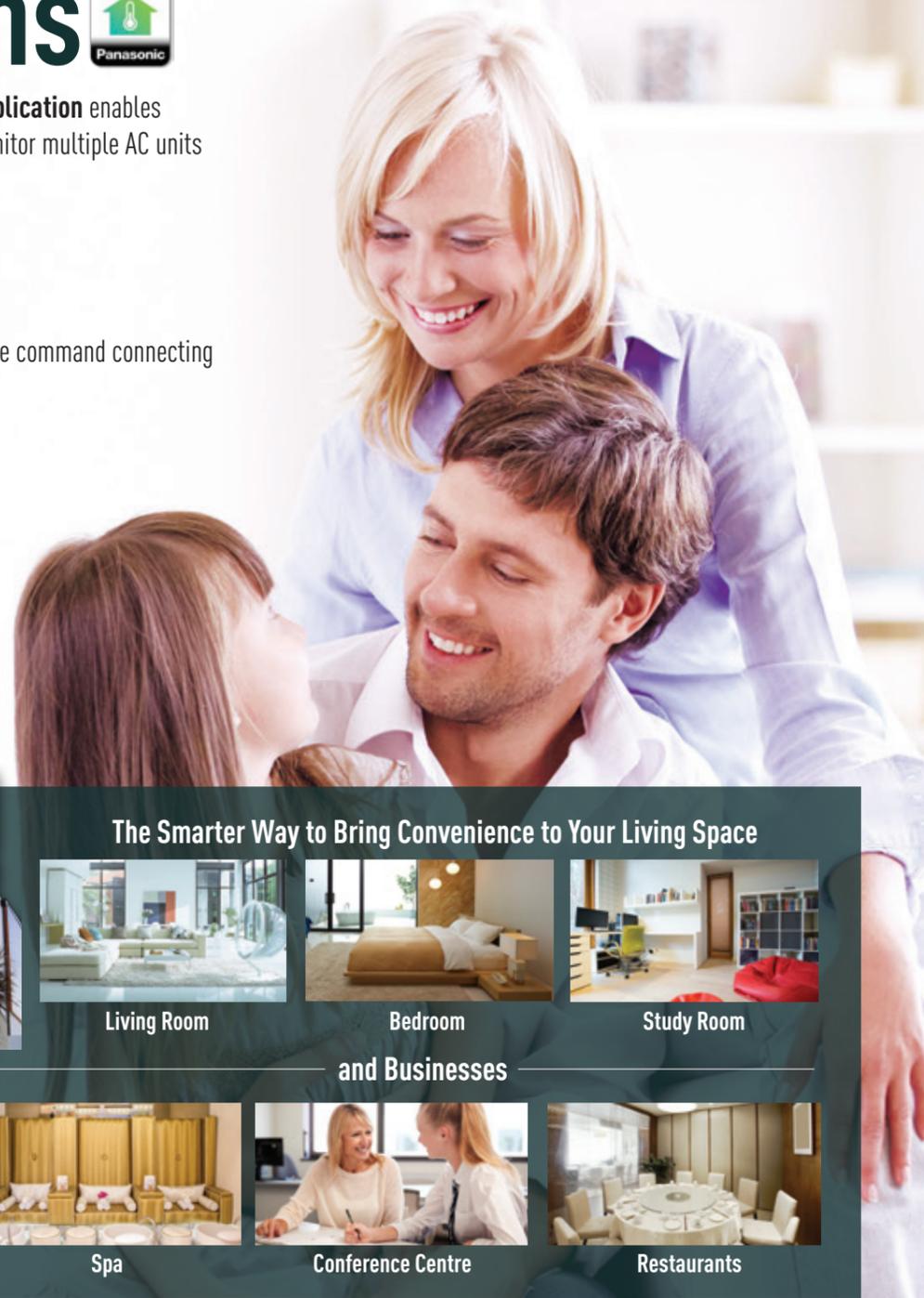
The Smarter Way to Bring Convenience to Your Living Space

Living Room

Bedroom

Study Room

and Businesses

KTVs

Spa

Conference Centre

Restaurants

Smartify Your Air

Applicable for Residential Properties and Premises

Smart Control

Controls Multiple AC Units in 1 Location

Home

Dining Room   Living Room   Study Room   Bedroom   Guest Room

Controls Multiple Units in Multiple Locations

Room A   Room B   Lounge   Room C   Cashier

KTVs

Reception   Room 1   Room 2   Rest Area   Office

Spa

Room A   Room B   Room C   Room D   Room E

Learning Institutes

Room A   Room B   Room C   Room D   Room E

Restaurants

Smart Comfort

Remotely Access AC Features

ON / OFF

Dining Room   Living Room

Study Room   Bedroom

Activate 24hours Air Purification

nanoe X

Pre-cool Spaces

Smart Efficiency

Analyse Energy Usage Patterns

Set Temperature

Saves Cost

Indoor Temperature

Outdoor Temperature

112 kwh   120 kwh

*Based on estimated energy consumption.

Compare Historical Usage for Better Budget Planning

killowatt (kWh)

JAN   FEB   MAR   APR   Month

Estimated energy consumption   Estimated energy consumption

112 kwh   120 kwh

112 kwh   120 kwh
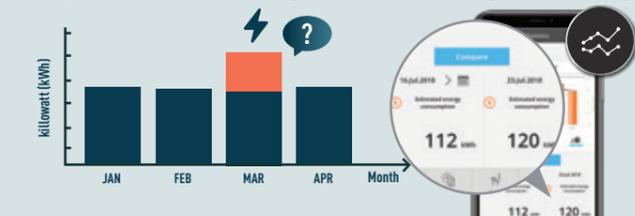
Smart Assist

Effortless Troubleshooting

Information

Users awaiting your approval

Error messages

Assign Other Users While You Are Away

Compatible Device and Browsers

1. iOS 9.0 or above
2. Android 4.4 or above

Download on the App Store

GET IT ON Google Play

Please note: This is not a definitive list of all compatible devices, other similiar 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.

*Wireless LAN Remote Control for Internet Connection required optional network adaptor.
*Indoor temperature display and some special function are not available through the App for all models.
*Indoor image displayed may not match with actual unit.

Eco-friendly Technologies

Make smarter, greener choices with energy saving technologies for sustainable living

INVERTER | **R32** REFRIGERANT

Inverter Technology

Energy Saving and Precise Temperature Control

Panasonic's INVERTER reduces power consumption by varying the speed of the compressor according to the temperature changes with the aim of minimising the temperature fluctuations so you can enjoy consistent cooling comfort.
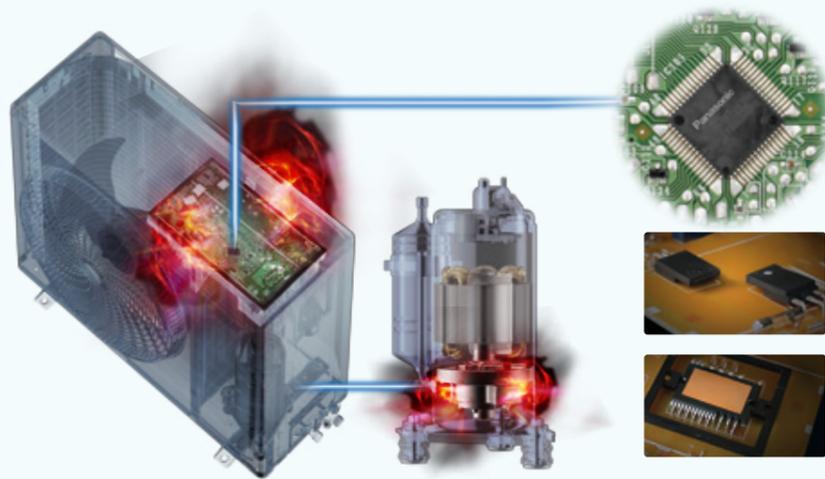
The "BRAIN" of the Inverter - The Micro Computer
Determines the most suitable operation mode as time passes and automatically adjusts power output for maximum comfort.

PAM (Pulse Amplitude Modulation)
Increases compressor voltage rapidly to provide powerful cooling to reach the set temperature fast at start up.

PWM (Pulse Width Modulated Wave)
Stabilises the compressor rotation speed when maintaining the set temperature.

DASH & HIGH COMPRESSOR FREQUENCY
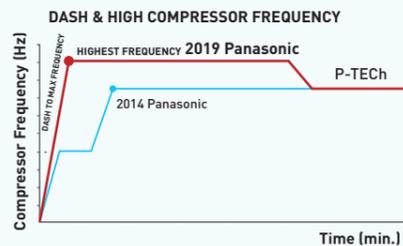
P-TECh – The Power Behind Fast Cooling
Compressor achieves maximum frequency in the shortest time from start up.

*P-Tech is only applicable for models with iAUTO-X function.
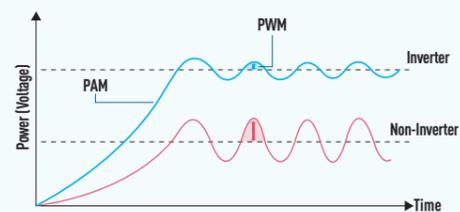
Quick Cooling and Constant Comfort
PAM increases the power output to accelerate compressor speed at start up for quick cooling and stabilises the set temperature without wasting energy, offering constant comfort.

INVERTER
The Panasonic INVERTER air conditioner varies the rotation speed of the compressor, providing a precise method of maintaining the set temperature. Thus, Panasonic INVERTER air conditioners give you exceptional energy saving performance while ensuring you stay comfortable at all times.

INVERTER

Room temperature / Little temperature fluctuations / Set temperature / ON

Legend: Output Power / Temperature
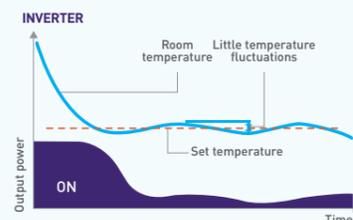
Remark: Saves energy by varying the rotation speed of the compressor to maintain the set temperature.

NON-INVERTER
A conventional non-INVERTER air conditioner can only operate at a constant speed which is too powerful to maintain the set temperature. Thus, it switches the compressor on and off repeatedly. This results in wider temperature fluctuations leading to wasteful consumption of energy.

NON-INVERTER

Room temperature / Big temperature fluctuations / Set temperature / ON OFF ON OFF ON

Legend: Output Power / Temperature

Remark: Energy is wasted by switching the compressor ON and OFF to maintain the set temperature.

Sustainable Refrigerant

An Environmentally-friendly Refrigerant

The commonly used refrigerants in air conditioning system contribute greatly to greenhouse gas emissions and ozone depletion, consequently putting our environment at stake.

At Panasonic, we are committed to healthier lifestyles and to reducing our environmental footprint. That's why our air conditioners have been increasingly adopting the more eco-friendly R32 refrigerant.

R32 refrigerant represents innovation in every way. It is an excellent heat transfer medium which leads to greater energy efficiency and cost effectiveness. R32 refrigerant also has low global warming potential, hence it's friendlier to the environment.

HIGHER COOLING CAPACITY
R32 has higher cooling capacity thereby increases heat transfer efficiency.

REDUCE ENERGY COSTS
It consumes less energy, helping you to save on electricity costs.

ECO FRIENDLY
R32 has zero impact on the ozone layer, therefore it's environment friendly.

REFRIGERANT PROPERTIES OF R22, R32, AND R410A

	R-32	R410A	R-22
Composition	Single Component	2 Components	Single Component
Chemical Formula	CH_2F_2	CH_2F_2 / CHF_2CF_3	$CHCLF_2$
Boiling Point (°C)	-51.7	-51.5	-40.8
Ozone Depletion Potential (ODP)	0	0	0.055
Global Warming Potential (GWP)	675	2090	1810
Pressure	1.6 x	1.6 x	1x
Refrigerant Oil	Synthetic Oil (FW50S)	Synthetic Oil (FV50S)	Mineral Oil
Toxicity	None	None	None
Flammability	A2L Mildly flammable	A1 Non-flammable	A1 Non-flammable

What is R32?

R32 REFRIGERANT

- CH_2F_2: Single composition
- $GWP_{R32} = \frac{1}{3} GWP_{R410A}$
- Lifetime in atmosphere is shorter, 4 – 9 years
- Ozone Depletion Potential (ODP) = 0
- Non toxic

AERO SERIES

AERO SERIES

PREMIUM REVERSE CYCLE INVERTER

AERO SERIES
- Slim & Sleek Outline

STANDARD REVERSE CYCLE INVERTER

DEVELOPER SERIES
- Stylish & Compact Design

AEROWINGS

Concentrated Airflow, Further

Further and faster airflow across the room.

Concentrated Airflow, Further, Faster

- Bigger Outer Flap
- Sub-Flap
- 2 Independent Motors
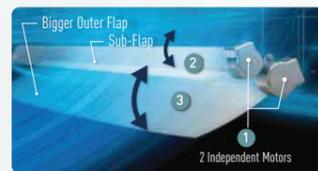
1. **2 Independent Motors**
   Control the Sub-Flap and Bigger Outer Flap separately.
2. **Sub-Flap**
   Compresses and concentrates cool air.
3. **Bigger Outer Flap**
   Helps to deliver airflow further.

· Further, faster, concentrated airflow with 2 independent flaps and motors.

Deodorises
· Deodorises commonly encountered smells such as cigarette smoke, perspiration and carpets.
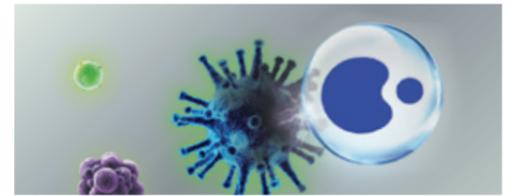
Inhibits Bacteria and Viruses
· Inhibits growth of bacteria and viruses adhering to surfaces.

*Applicable for selected models with nanoe™ X function.

Shower Cooling
· Shower airflow spreads across room and showers down gently.

Shower Cooling Airflow Assessment

Airflow Smoke Test

AEROWINGS directs airflow upwards over a wider area then showers down gently and evenly across the room.

Temperature Distribution Test

warmer ———→ cooler

AEROWINGS directs cool air further and higher towards the ceiling to avoid direct cooling.

Top Air Intake
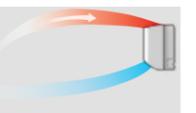
Hot air is drawn in from the top and cool air is discharged from the bottom to facilitate cool air showering down over the entire area.

Powerful Fast Cooling
· AEROWINGS twin flaps direct concentrated airflow downwards to cool you rapidly.

Fast Cooling Airflow Assessment

Airflow Smoke Test

AEROWINGS directs airflow downwards and towards you for instant cooling.

Temperature Distribution Test

warmer ———→ cooler
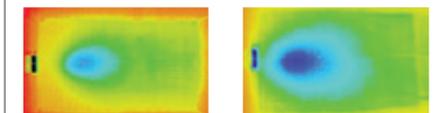
Conventional Cooling
Slow cooling will result in uneven cooling.

Fast Cooling
Concentrated airflow cools room instantly and evenly.

Panasonic Comfort Cloud App
· Easily pre-cool your space
· Monitor air quality with nanoe™ mode
· Easily monitor energy usage
· Remotely adjust real time temperature

*Wireless LAN Remote Control for Internet Connection required optional network adaptor.
*Indoor temperature display and some special function are not available through the App for all models.

Premier Series
Floor Console

●nanoeX

Deodorises
· Deodorises commonly encountered smells such as cigarette smoke, perspiration and carpets.

●nanoeX
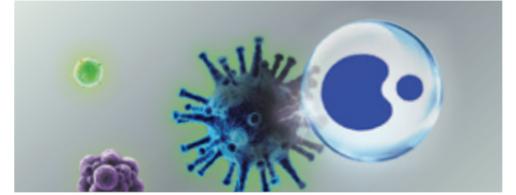
Inhibits Bacteria and Viruses
· Inhibits growth of bacteria and viruses adhering to surfaces.

Upper & Lower Vane Blow
Optimum air flow from the top and bottom of the unit assures that even your feet are kept comfortably warm. (Only during heating)

Heating	Cooling
· Upward and downward air flows warm the whole room uniformly.	· Upward air flow efficiently cools the entire room.

19dB*
Indoor

Super Quiet
· The indoor and outdoor units deliver quiet operation and pressing the Quiet mode button lowers operation noise even further to just 19dB for indoor unit with low fan speed.

*CS-Z25UFRAW & CS-Z35UFRAW: In the Quiet mode during heating operation with low fan speed.
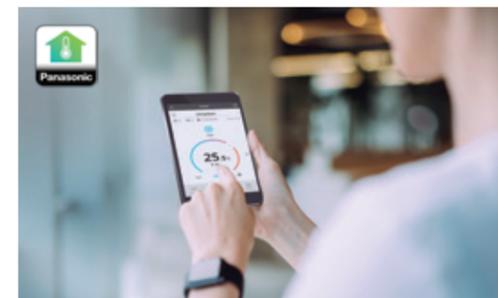
Panasonic Comfort Cloud App
· Easily **pre-cool your space**
· Monitor air quality with **nanoe™ mode**
· Easily **monitor energy usage**
· Remotely **adjust real time temperature**

*Wireless LAN Remote Control for Internet Connection required optional network adaptor.
*Indoor temperature display and some special function are not available through the App for all models.
*If you connect WLAN adaptor (CZ-TACG1) to an indoor unit other than wall mounted type and operate from the smartphone with Panasonic Comfort Cloud App, airflow direction may not be operated as it is shown on the display.

← 50mm →

Floor Console
Elegant & Compact Design

Compact Design
The design features a flat, elegant front panel that provides a neat appearance and the unit can be recessed into a wall up to 50 mm.

WALL-MOUNTED : AERO SERIES PREMIUM REVERSE CYCLE INVERTER Single -Split Type

CS-Z20VKR | CS-Z25VKR | CS-Z35VKR | CS-Z42VKR

CS-Z50VKR | CS-Z60VKR | CS-Z71VKR | CS-Z80VKR

Wireless Remote Controller | CZ-RD514C Wired Remoted Controller (Optional) | Network Adaptor*1 (Optional)

ENERGY RATING – CS/CU-Z25VKR — Cooling 5.0 / Heating 5.5

DRED ready

Cooling [ ]: Outdoor Unit   EER : Cooling Efficiency
Heating   COP: Heating Efficiency

SPECIFICATIONS

MODEL (240V / 1 Phase / 50Hz)			CS-Z20VKR [CU-Z20VKR]	CS-Z25VKR [CU-Z25VKR]	CS-Z35VKR [CU-Z35VKR]	CS-Z42VKR [CU-Z42VKR]	CS-Z50VKR [CU-Z50VKR]	CS-Z60VKR [CU-Z60VKR]	CS-Z71VKR [CU-Z71VKR]	CS-Z80VKR [CU-Z80VKR]
Cooling / Heating Capacity	(min-max)	kW	2.05 [0.90-2.40] / 2.70 [0.85-4.10]	2.50 [0.90-3.00] / 3.20 [0.90-5.00]	3.50 [0.90-4.00] / 4.30 [0.90-5.80]	4.20 [0.90-5.00] / 5.10 [0.90-7.10]	5.00 [0.95-6.00] / 6.00 [1.05-8.00]	6.00 [1.70-7.10] / 7.20 [1.70-8.50]	7.10 [1.70-8.10] / 8.00 [1.70-9.90]	8.00 [2.30-9.00] / 9.00 [2.20-11.00]
	(min-max)	Btu/h	6,990 [3,070-8,180] / 9,210 [2,900-14,000]	8,530 [3,070-10,200] / 10,900 [3,070-17,100]	11,900 [3,070-13,600] / 14,700 [3,070-19,800]	14,300 [3,070-17,100] / 17,400 [3,070-24,200]	17,100 [3,240-20,500] / 20,500 [3,580-27,300]	20,500 [5,800-24,200] / 24,600 [5,800-29,000]	24,200 [5,800-27,600] / 27,300 [5,800-33,800]	27,300 [7,840-30,700] / 30,700 [7,500-37,500]
Air Flow	Indoor	L/s	168/187	193/203	207/220	222/222	328/332	332/340	355/362	370/370
Dehumid		L/h	1.3	1.5	2.0	2.4	2.8	3.3	4.1	4.7
Electrical Data	Running Current	A	1.95/2.55	2.30/2.90	3.75/4.40	4.70/5.90	5.10/5.80	7.00/7.80	8.60/9.20	10.90/11.30
	Power Input (min-max)	kW	0.41 (0.18-0.57) / 0.55 (0.17-1.03)	0.50 (0.18-0.75) / 0.62 (0.17-1.30)	0.80 (0.20-1.06) / 0.94 (0.18-1.56)	1.07 (0.22-1.60) / 1.34 (0.23-2.25)	1.13 (0.21-2.05) / 1.31 (0.23-2.65)	1.58 (0.44-2.20) / 1.78 (0.40-2.50)	1.97 (0.44-2.48) / 2.11 (0.40-3.00)	2.32 (0.46-2.82) / 2.41 (0.50-3.30)
AEER / EER		W/W	4.84/5.00	4.87/5.00	4.31/4.38	3.88/3.93	4.38/4.42	3.77/3.80	3.58/3.60	3.43/3.45
ACOP / COP		W/W	4.79/4.91	5.06/5.16	4.51/4.57	3.77/3.81	4.54/4.58	4.02/4.04	3.77/3.79	3.72/3.73
Star Rating			5.0 / 5.0	5.0 / 5.0	4.0 / 4.5	3.0 / 4.5	4.0 / 4.5	3.0 / 3.5	2.5 / 3.0	2.0 / 2.5
Noise Level — Sound Pressure Level*2 dB(A)	Indoor (H / L / Q-Lo)		38/24/19 / 39/25/21	43/25/19 / 42/27/21	44/26/19 / 46/29/21	47/30/23 / 46/31/27	47/34/31 / 45/33/29	47/36/33 / 47/35/32	49/37/34 / 49/37/34	51/38/35 / 50/38/35
	Outdoor (H / Q-Lo)		45/- / 46/-	47/- / 47/-	49/- / 50/-	47/42 / 47/42	48/43 / 48/43	53/48 / 53/48	54/49 / 54/49	55/50 / 55/50
Noise Level — Sound Power Level dB	Indoor (H / L / Q-Lo)		54/40/35 / 55/41/37	59/41/35 / 58/43/37	60/42/35 / 62/45/37	63/46/39 / 62/47/43	63/50/47 / 61/49/45	63/52/49 / 63/51/48	65/53/50 / 65/53/50	67/54/51 / 66/54/51
	Outdoor (H / Q-Lo)		60/- / 61/-	62/- / 62/-	64/- / 65/-	62/57 / 62/57	62/57 / 62/57	67/62 / 67/62	68/63 / 68/63	69/64 / 69/64
Net Weight	Indoor (Outdoor)	kg	9(29)	10(31)	10(31)	10(43)	13(44)	13(50)	13(50)	13(60)
Dimensions	Indoor (H x W x D) / Outdoor (H x W x D)	mm	295 x 919 x 194 / 542 x 780 x 289	295 x 919 x 194 / 542 x 780 x 289	295 x 919 x 194 / 542 x 780 x 289	295 x 919 x 194 / 695 x 875 x 320	302 x 1,120 x 236 / 695 x 875 x 320	302 x 1,120 x 236 / 695 x 875 x 320	302 x 1,120 x 236 / 695 x 875 x320	302 x 1,120 x 236 / 795 x 875 x 320
Refrigerator Pipe Diameter	Liquid Side	mm/(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas Side	mm/(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.70 (1/2)	ø 12.70 (1/2)	ø 12.70 (1/2)	ø 15.88 (5/8)	ø 15.88 (5/8)
Pipe Extension Length	Min ~ Max (m)		3~20	3~20	3~20	3~30	3~30	3~30	3~30	3~30
Maximum Elevation Length		m	15	15	15	15	15	15	20	20
Pipe Length For Additional Gas		m	7.5	7.5	7.5	7.5	10	10	10	10
Additional Gas Amount		g/m	10	10	10	15	15	15	25	25
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Operating Range (Outdoor)	Cooling / Heating	Degree °C	+5 ~ +46 / -15 ~ +24	+5 ~ +46 / -15 ~ +24	+5 ~ +46 / -15 ~ +24	+5 ~ +46 / -15 ~ +24	+5 ~ +46 / -15 ~ +24	+5 ~ +46 / -15 ~ +24	+5 ~ +46 / -15 ~ +24	+5 ~ +46 / -15 ~ +24
Refrigerant Type			R32	R32	R32	R32	R32	R32	R32	R32

*1 Indoor temperature display and some special function are not available through the App for all models.

*2 Sound pressure level specification is measured according to JIS C9612.

SPECIFICATIONS & FEATURES

Products in this brochure contain R32 refrigerant. Please refer to Panasonic's installation instructions and service manuals before installation and servicing this product.

Only persons and/or companies qualified and experienced in the installation, service and repair of refrigerant products should be permitted to do so.

The purchaser must ensure that the person and/or company who is to install, service or repair this air conditioner has qualifications and experience in refrigerant products.

Suitable access for warranty and service is required.

Future improvement, specifications, designs of product and availability are subject to change without notice. Please check with your dealer.

ALL CAPACITY AND ENERGY EFFICIENCY RATINGS ARE BASED ON AS/NZS3823.1.1

COOLING	Indoor temperature / Outdoor temperature	27°C DB/19°C WB / 35°C DB
HEATING	Indoor temperature / Outdoor temperature	20°C DB / 7°C DB / 6°C WB

Running current is at rated conditions (AS3823) and does not include compressor start-up or variations in power supply and load conditions.

FEATURES

ENERGY SAVINGS

INVERTER CONTROL
Varies the rotation speed of the compressor for higher energy savings.

ECO MODE
More energy saving compared to the normal mode by automatically adjusting the set temperature by up to 2°C. It's ideal when you want to maintain room temperature for gentle cooling and heating.

COMFORT

iAUTO-X
Come home to ultra-fast cooling, and then enjoy continuous comfort Shower Cooling that evenly distributes cool air.

QUIET MODE
Enjoy the comfort of running your air conditioner at night and still have a relaxing sleep.

PERSONAL AIRFLOW CREATION
Vertical and horizontal airflow patterns can be combined as desired to achieve optimum comfort, with operation possible by remote, even from a distance.

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

FAN MODE
Allows you to run the fan without any cooling or heating, thus giving just ventilation.

AUTO CHANGEOVER (INVERTER)
In Auto Mode the unit will select if heating or cooling is required.

POWERFUL MODE
Pressing the Powerful button cools or heats the room quickly. It provides fast comfort, with full power and a strong airflow. This is perfect for use immediately after coming home, or when unexpected guests arrive.

SOFT DRY OPERATION MODE
Starts with cooling to dehumidify, then provides continuous breeze at a low frequency to keep a room dry without much change to the temperature.

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

CLEAN & HEALTHY AIR

nanoe™ X
nanoe™ X deodorises and inhibits the growth of bacteria and viruses, for a fresher and cleaner living space.

ODOUR-REMOVING FUNCTION
With this function, there's no unpleasant odor when the unit starts up. That's because the fan remains off momentarily, while the source of the odour inside the air conditioner is suppressed.

The unit must be in cool or dry mode and the fan speed must be set to automatic.

REMOVABLE, WASHABLE PANEL
Gives you easy access to the filter as well making the unit easy to clean.

CONVENIENCE

24-HOUR DUAL ON & OFF REAL SETTING TIMER
This feature enables you to preset two different sets of start/stop operation timer (hour and minute) within a 24-hour time frame.

3RD PARTY CONNECTIVITY
Allows limited control from an external source when wired to do so.

WIRED REMOTE CONTROL (OPTIONAL)
For use in commercial applications, or where users don't want a remote control.

DEMAND RESPONSE ENABLING DEVICE (DRED)
Allows Electrical Utility Companies to regulate the power supply to the units if connected.

LCD WIRELESS REMOTE CONTROL
Easy control of the unit from anywhere in the room.

WIRELESS LAN REMOTE CONTROL FOR INTERNET CONNECTION (OPTIONAL)
Control air conditioners remotely by turning your mobile desire into a remote controller using internet connection.

* Network adaptor (CZ-TACG1) is required

RELIABILITY

BLUE FIN CONDENSER
Extra protection from the elements with a longer lasting coil.

LONG PIPING
Long piping offers more flexible installation options.
*20m - CS-Z20VKR, CS-Z25VKR, CS-Z35VKR
*30m - CS-Z42VKR, CS-Z50VKR, CS-Z60VKR, CS-Z71VKR, CS-Z80VKR

SELF-DIAGNOSTIC FUNCTION
Should a malfunction occur, the unit diagnoses the problem and shows the corresponding alphanumeric code. This allows for quicker servicing.

RANDOM AUTO RESTART
When multiple units are connected and there is a power outage, they will turn on at different times in order to not spike the power supply.

TOP-PANEL MAINTENANCE ACCESS
Easy access for maintenance.

OUTDOOR

Blue Fin Condenser   R32 REFRIGERANT

CU-Z20VKR
CU-Z25VKR
CU-Z35VKR

CU-Z42VKR
CU-Z50VKR
CU-Z60VKR
CU-Z71VKR

CU-Z80VKR

WALL-MOUNTED : DEVELOPER SERIES STANDARD REVERSE CYCLE INVERTER Single -Split Type

CS-RZ25VKRW | CS-RZ35VKRW | CS-RZ42VKRW

CS-RZ50VKRW | CS-RZ60VKRW | CS-RZ71VKRW | CS-RZ80VKR

Wireless Remote Controller

CZ-RD514C Wired Remoted Controller (Optional)

Network Adaptor*1 (Optional)

Cooling 4.0 / Heating 4.5
ENERGY RATING - CS/CU-RZ25VKR

DRED ready

SPECIFICATIONS

Cooling | |: Outdoor Unit
Heating

EER : Cooling Efficiency
COP: Heating Efficiency

MODEL	[240V / 1 Phase / 50Hz]		CS-RZ25VKRW [CU-RZ25VKR]	CS-RZ35VKRW [CU-RZ35VKR]	CS-RZ42VKRW [CU-RZ42VKR]	CS-RZ50VKRW [CU-RZ50VKR]	CS-RZ60VKRW [CU-RZ60VKR]	CS-RZ71VKRW [CU-RZ71VKR]	CS-RZ80VKR [CU-RZ80VKR]
Cooling / Heating Capacity	(min-max)	kW	2.50 [0.90-3.00] / 3.00 [0.90-3.60]	3.50 [0.90-3.90] / 3.70 [0.90-5.10]	4.20 [0.90-4.60] / 5.10 [0.90-6.80]	5.00 [0.98-5.60] / 5.80 [0.98-7.80]	6.00 [0.98-6.60] / 6.50 [0.98-8.00]	7.10 [1.70-8.10] / 7.50 [1.70-9.90]	8.00 [2.30-9.00] / 9.00 [2.20-11.00]
	(min-max)	Btu/h	8,530 [3,070-10,200] / 10,200 [3,070-12,300]	11,900 [3,070-13,300] / 12,600 [3,070-17,400]	14,300 [3,070-15,700] / 17,400 [3,070-23,200]	17,100 [3,340-19,100] / 19,800 [3,340-26,600]	20,500 [3,340-22,500] / 22,200 [3,340-27,300]	24,200 [5,800-27,600] / 25,600 [5,800-33,800]	27,300 [7,840-30,700] / 30,700 [7,500-37,500]
Air Flow	Indoor	L/s	180/185	195/213	198/213	332/339	352/352	369/400	385/400
Dehumid		L/h	1.5	2.0	2.4	2.8	3.3	4.1	4.7
Electrical Data	Running Current	A	2.60/2.90	3.70/3.70	5.10/5.90	6.70/6.80	8.00/8.20	9.70/8.80	11.50/12.30
	Power Input (min-max)	kW	0.57 (0.20-0.89) / 0.64 (0.19-1.04)	0.80 (0.20-1.19) / 0.80 (0.19-1.42)	1.18 (0.25-1.64) / 1.36 (0.20-2.04)	1.47 (0.28-1.73) / 1.54 (0.26-2.30)	1.85 (0.28-2.20) / 1.89 (0.26-2.64)	2.19 (0.45-2.67) / 2.06 (0.40-2.85)	2.48 (0.46-2.98) / 2.66 (0.50-3.30)
AEER / EER		W/W	4.29/4.39	4.31/4.38	3.52/3.56	3.37/3.40	3.22/3.24	3.22/3.24	3.21/3.23
ACOP / COP		W/W	4.59/4.69	4.55/4.63	3.71/3.75	3.74/3.77	3.42/3.44	3.62/3.64	3.37/3.38
Star Rating			4.0 / 4.5	4.0 / 4.5	2.5 / 2.5	2.0 / 2.0	1.5 / 2.0	1.5 / 2.5	1.5 / 2.0
Noise Level	Sound Pressure Level*2 dB(A) — Indoor (H / L / Q-Lo)		40/25/19 / 40/27/21	44/26/19 / 44/29/22	45/31/29 / 44/35/28	44/34/31 / 44/33/29	46/36/33 / 46/36/33	49/37/34 / 49/37/34	51/38/35 / 50/38/35
	Outdoor (H / Q-Lo)		48/- / 49/-	49/- / 50/-	49/- / 51/-	48/43 / 49/44	49/44 / 51/46	52/47 / 54/49	55/50 / 55/50
	Sound Power Level dB — Indoor (H / L / Q-Lo)		56/41/35 / 56/43/37	60/42/35 / 60/45/38	61/47/45 / 60/51/44	60/50/47 / 60/49/45	62/52/49 / 62/52/49	65/53/50 / 65/53/50	67/54/51 / 66/54/51
	Outdoor (H / Q-Lo)		63/- / 64/-	64/- / 65/-	64/- / 66/-	63/58 / 64/59	64/59 / 66/61	66/61 / 68/63	69/64 / 69/64
Net Weight	Indoor (Outdoor)	kg	8(27)	8(31)	8(32)	12(34)	13(36)	13(50)	13(60)
Dimensions	Indoor (H x W x D)	mm	290 x 799 x 197	290 x 799 x 197	290 x 799 x 197	302 x 1,102 x 244	302 x 1,102 x 244	302 x 1,102x 244	302 x 1,102 x 244
	Outdoor (H x W x D)	mm	542 x 780 x 289	542 x 780 x 289	619 x 824 x 299	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	795 x 875 x320
Refrigerator Pipe Diameter	Liquid Side	mm(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas Side	mm(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.70 (1/2)	ø 12.70 (1/2)	ø 12.70 (1/2)	ø 15.88 (5/8)	ø 15.88 (5/8)
Pipe Extension Length	Min ~ Max	(m)	3-20	3-20	3-20	3-30	3-30	3-30	3-30
Maximum Elevation Length		m	15	15	15	15	15	20	20
Pipe Length For Additional Gas		m	7.5	7.5	7.5	10	10	10	10
Additional Gas Amount		g/m	10	10	10	15	15	25	25
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Operating Range (Outdoor)	Cooling / Heating	Degree °C	-10 ~ +46 / -15 ~ +24	-10 ~ +46 / -15 ~ +24	-10 ~ +46 / -15 ~ +24	-10 ~ +46 / -15 ~ +24	-10 ~ +46 / -15 ~ +24	-10 ~ +46 / -15 ~ +24	-10 ~ +46 / -15 ~ +24
Refrigerant Type			R32	R32	R32	R32	R32	R32	R32

*1 Indoor temperature display and some special function are not available through the App for all models.

*2 Sound pressure level specification is measured according to JIS C9612.

SPECIFICATIONS & FEATURES

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Suitable access for warranty and service is required.

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ALL CAPACITY AND ENERGY EFFICIENCY RATINGS ARE BASED ON AS/NZS3823.1.1

COOLING	Indoor temperature	27°C DB/19°C WB
	Outdoor temperature	35°C DB
HEATING	Indoor temperature	20°C DB
	Outdoor temperature	7°C DB / 6°C WB

Running current is at rated conditions (AS3823) and does not include compressor start-up or variations in power supply and load conditions.

FEATURES

ENERGY SAVINGS

INVERTER CONTROL
Varies the rotation speed of the compressor for higher energy savings.

ECO MODE
More energy saving compared to the normal mode by automatically adjusting the set temperature by up to 2ºC. It's ideal when you want to maintain room temperature for gentle cooling and heating.

COMFORT

FAN MODE
Allows you to run the fan without any cooling or heating, thus giving just ventilation.

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

POWERFUL MODE
Pressing the Powerful button cools or heats the room quickly. It provides fast comfort, with full power and a strong airflow. This is perfect for use immediately after coming home, or when unexpected guests arrive.

SOFT DRY OPERATION MODE
Starts with cooling to dehumidify, then provides continuous breeze at a low frequency to keep a room dry without much change to the temperature.

MANUAL HORIZONTAL AIRFLOW DIRECTION CONTROL
* CS-RZ25VKRW, CS-RZ35VKRW & CS-RZ42VKRW only

QUIET MODE
Enjoy the comfort of running your air conditioner at night and still have a relaxing sleep.

AUTO CHANGEOVER (INVERTER)
In Auto Mode the unit will select if heating or cooling is required.

PERSONAL AIRFLOW CREATION
Vertical and horizontal airflow patterns can be combined as desired to achieve optimum comfort, with operation possible by remote, even from a distance.
* CS-RZ50VKRW, CS-RZ60VKRW, CS-RZ71VKRW & CS-RZ80VKR only

AIRFLOW DIRECTION CONTROL (UP & DOWN)
Vertical airflow patterns can be controlled with operation by remote, even from a distance.
*CS-RZ25VKRW, CS-RZ35VKRW & CS-RZ42VKRW only

CLEAN & HEALTHY AIR

ANTI-BACTERIAL FILTER
The Anti-Bacterial Filter combines three effects in one: anti-allergen, anti-virus and anti-bacterial protection to provide clean air.

ODOUR-REMOVING FUNCTION
With this function, there's no unpleasant odor when the unit starts up. That's because the fan remains off momentarily, while the source of the odour inside the air conditioner is suppressed.

The unit must be in cool or dry mode and the fan speed must be set to automatic.

REMOVABLE, WASHABLE PANEL
Gives you easy access to the filter as well making the unit easy to clean.

CONVENIENCE

24-HOUR DUAL ON & OFF REAL SETTING TIMER
This feature enables you to preset two different sets of start/stop operation timer (hour and minute) within a 24-hour time frame.

3RD PARTY CONNECTIVITY
Allows limited control from an external source when wired to do so.

WIRED REMOTE CONTROL (OPTIONAL)
For use in commercial applications, or where users don't want a remote control.

DEMAND RESPONSE ENABLING DEVICE (DRED)
Allows Electrical Utility Companies to regulate the power supply to the units if connected.

LCD WIRELESS REMOTE CONTROL
Easy control of the unit from anywhere in the room.

WIRELESS LAN REMOTE CONTROL FOR INTERNET CONNECTION (OPTIONAL)
Control air conditioners remotely by turning your mobile desire into a remote controller using internet connection.
* Network adaptor (CZ-TACG1) is required

RELIABILITY

BLUE FIN CONDENSER
Extra protection from the elements with a longer lasting coil.

TOP-PANEL MAINTENANCE ACCESS
Easy access for maintenance.

RANDOM AUTO RESTART
When multiple units are connected and there is power outage, they will turn on at different times in order to not spike the power supply.

LONG PIPING
Long piping offers more flexible installation options.
*20m - CS-RZ25VKRW, CS-RZ35VKRW, CS-RZ42VKRW
*30m - CS-RZ50VKRW, CS-RZ60VKRW, CS-RZ71VKRW, CS-RZ80VKR

SELF-DIAGNOSTIC FUNCTION
Should a malfunction occur, the unit diagnoses the problem and shows the corresponding alphanumeric code. This allows for quicker servicing.

OUTDOOR

Blue Fin Condenser

R32 REFRIGERANT

CU-RZ25VKR
CU-RZ35VKR

CU-RZ42VKR
CU-RZ50VKR
CU-RZ60VKR

CU-RZ71VKR

CU-RZ80VKR

FLOOR CONSOLE : PREMIER SERIES Single-Split Type

CS-Z25UFRAW | CS-Z35UFRAW | CS-Z50UFRAW

Wireless Remote Controller

CZ-RD514C Wired Remoted Controller (Optional)

Network Adaptor*1 (Optional)

DRED ready — DEMAND RESPONSE ENABLING DEVICE

Cooling | ( ): Outdoor Unit   EER : Cooling Efficiency
Heating   COP: Heating Efficiency

SPECIFICATIONS

MODEL	[240V / 1 Phase / 50Hz]		CS-Z25UFRAW	CS-Z35UFRAW	CS-Z50UFRAW
			(CU-Z25UBRA)	(CU-Z35UBRA)	(CU-Z50UBRA)
Cooling / Heating Capacity	(min-max)	kW	2.50 (0.85–3.40) / 3.40 (0.85–5.00)	3.50 (0.85–3.80) / 4.30 (0.85–6.00)	5.00 (0.90–5.70) / 5.60 (0.90–8.10)
	(min-max)	Btu/h	8,530 (2,900–11,600) / 11,600 (2,900–17,100)	11,900 (2,900–13,000) / 14,700 (2,900–20,500)	17,100 (3,070–19,400)] / 19,100 (3,070–27,600)
Air Flow	Indoor	L/s	163/173	170/182	198/227
Dehumid		L/h	1.5	2.0	2.8
Electrical Data	Running Current	A	2.30/3.25	3.70/4.60	6.00/6.40
	Power Input (min-max)	kW	0.50 (0.24–0.90) / 0.74 (0.24–1.35)	0.86 (0.24–1.02) / 1.06 (0.24–1.75)	1.37 (0.26–1.81) / 1.47 (0.26–2.60)
EER / COP		W/W	5.00 / 4.59	4.07 / 4.06	3.65 / 3.81
Star Rating			5.0 / 4.5	3.5 / 3.5	2.5 / 3.0
Noise Level	Sound Pressure Level*2 dB(A)	Indoor (H / L / Q-Lo)	38/25/20 / 38/25/19	39/26/20 / 39/25/19	44/31/27 / 46/33/29
		Outdoor (H / Q-Lo)	46/- / 47/-	48/- / 50/-	48/43 / 49/44
	Sound Power Level dB	Indoor (H / L / Q-Lo)	54/41/36 / 54/41/35	55/42/36 / 55/41/35	60/47/43 / 62/49/45
		Outdoor (H / Q-Lo)	61/- / 62/-	63/- / 65/-	63/58 / 64/59
Net Weight	Indoor (Outdoor)	kg	13(33)	13(35)	13(42)
Dimensions	Indoor (H x W x D) / Outdoor (H x W x D)	mm	600 x 750 x 207 / 542 x 780 x 289	600 x 750 x 207 / 619 x 824 x 299	600 x 750 x 207 / 695 x 875 x 320
Refrigerator Pipe Diameter	Liquid Side	mm/(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas Side	mm/(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.70 (1/2)
Pipe Extension Length	Min – Max (m)		3–20	3–20	3–30
Maximum Elevation Length		m	15	15	20
Pipe Length For Additional Gas		m	7.5	7.5	7.5
Additional Gas Amount		g/m	10	10	15
Power Supply			Outdoor	Outdoor	Outdoor
Operating Range (Outdoor)	Cooling / Heating	Degree °C	-10 ~ +46 / -15 ~ +24	-10 ~ +46 / -15 ~ +24	-10 ~ +46 / -15 ~ +24
Refrigerant Type			R32	R32	R32

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*2 Sound pressure level specification is measured according to JIS C9612.

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COOLING	Indoor temperature	27°C DB/19°C WB
	Outdoor temperature	35°C DB
HEATING	Indoor temperature	20°C DB
	Outdoor temperature	7°C DB / 6°C WB

Running current is at rated conditions (AS3823) and does not include compressor start-up or variations in power supply and load conditions.

FEATURES

ENERGY SAVINGS

INVERTER CONTROL
Varies the rotation speed of the compressor for higher energy savings.

COMFORT

QUIET MODE
Enjoy the comfort of running your air conditioner at night and still have a relaxing sleep.

AUTO CHANGEOVER (INVERTER)
In Auto Mode the unit will select if heating or cooling is required.

POWERFUL MODE
Pressing the Powerful button cools or heats the room quickly. It provides fast comfort, with full power and a strong airflow. This is perfect for use immediately after coming home, or when unexpected guests arrive.

SOFT DRY OPERATION MODE
Starts with cooling to dehumidify, then provides continuous breeze at a low frequency to keep a room dry without much change to the temperature.

MANUAL HORIZONTAL AIRFLOW DIRECTION CONTROL

AIRFLOW DIRECTION CONTROL (UP & DOWN)
Vertical airflow patterns can be controlled with operation by remote, even from a distance.

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

CLEAN & HEALTHY AIR

nanoe™ X
nanoe™ X deodorises and inhibits the growth of bacteria and viruses, for a fresher and cleaner living space.

ODOUR-REMOVING FUNCTION
With this function, there's no unpleasant odor when the unit starts up. That's because the fan remains off momentarily, while the source of the odour inside the air conditioner is suppressed.

The unit must be in cool or dry mode and the fan speed must be set to automatic.

REMOVABLE, WASHABLE PANEL
Gives you easy access to the filter as well making the unit easy to clean.

CONVENIENCE

24-HOUR DUAL ON & OFF REAL SETTING TIMER
This feature enables you to preset two different sets of start/stop operation timer (hour and minute) within a 24-hour time frame.

3RD PARTY CONNECTIVITY
Allows limited control from an external source when wired to do so.

WIRED REMOTE CONTROL (OPTIONAL)
For use in commercial applications, or where users don't want a remote control.

DEMAND RESPONSE ENABLING DEVICE (DRED)
Allows Electrical Utility Companies to regulate the power supply to the units if connected.

LCD WIRELESS REMOTE CONTROL
Easy control of the unit from anywhere in the room.

WIRELESS LAN REMOTE CONTROL FOR INTERNET CONNECTION (OPTIONAL)
Control air conditioners remotely by turning your mobile desire into a remote controller using internet connection.
* Network adaptor (CZ-TACG1) is required

RELIABILITY

BLUE FIN CONDENSER
Extra protection from the elements with a longer lasting coil.

LONG PIPING
Long piping offers more flexible installation options.
*20m - CS-Z25UFRAW, CS-Z35UFRAW
*30m - CS-Z50UFRAW

SELF-DIAGNOSTIC FUNCTION
Should a malfunction occur, the unit diagnoses the problem and shows the corresponding alphanumeric code. This allows for quicker servicing.

RANDOM AUTO RESTART
When multiple units are connected and there is a power outage, they will turn on at different times in order to not spike the power supply.

TOP-PANEL MAINTENANCE ACCESS
Easy access for maintenance.

OUTDOOR

Blue Fin Condenser

R32 REFRIGERANT

CU-Z25UBRA   CU-Z35UBRA   CU-Z50UBRA

Multi-Split Air Conditioning System

Panasonic's multi-split conditioning systems are designed to provide more space saving installation for outdoor units. A neater alternative to preserve the exterior appearance of buildings such as condominiums, single and multi-storey residences.

Compact and lightweight design to fit every building type
- The multi-split system offers greater installation versatility and space-saving choices for condominium with limited free space.

Wall-Mounted

Reverse cycle models

Wireless Remote Controller Included / CZ-RD514C Wired Remote Controller (Optional) / Network Adaptor*¹ (Optional)

Model No	CS-MRZ16VKR	CS-MRZ20VKR	CS-RZ25VKRW	CS-RZ35VKRW
Capacity	1.6kW	2.0kW	2.5kW	3.5kW

Model No	CS-RZ42VKRW	CS-RZ50VKRW	CS-RZ60VKRW	CS-RZ71VKRW
Capacity	4.2kW*¹	5.0kW*¹	6.0kW*²	7.1kW*²*³

Ultra Slim Ducted

Wired Remote Controller Included / Network Adaptor*¹ (Optional)

Model No	CS-Z25UD3RAW	CS-Z35UD3RAW	CS-Z50UD3RAW	CS-Z60UD3RAW
Capacity	2.5kW	3.5kW	5.0kW*¹	6.0kW*⁴

4-Way Mini Cassette

Panel CZ-BT30EW / Wireless Remote Controller Included / CZ-RD52CP Wired Remote Controller (Optional) / Network Adaptor*¹ (Optional)

Model No	CS-Z25UB4RAW	CS-Z35UB4RAW	CS-Z50UB4RAW	CS-Z60UB4RAW
Capacity	2.5kW	3.5kW	5.0kW*¹	6.0kW*⁴

Floor Console

Wireless Remote Controller Included / CZ-RD514C Wired Remote Controller (Optional) / Network Adaptor*¹ (Optional)

Model No	CS-Z25UFRAW	CS-Z35UFRAW	CS-Z50UFRAW
Capacity	2.5kW	3.5kW	5.0kW*¹

*¹ Wireless LAN Remote Control for Internet Connection required optional network adaptor. Indoor temperature display and some special function are not available through the App for all models.

Advantages Of Multi-Split Air Conditioning System

Space Saving

Single Split	Multi Split
1 outdoor unit connect to 1 indoor unit	1 outdoor unit connect up to 5 indoor units

Reduce outdoor units
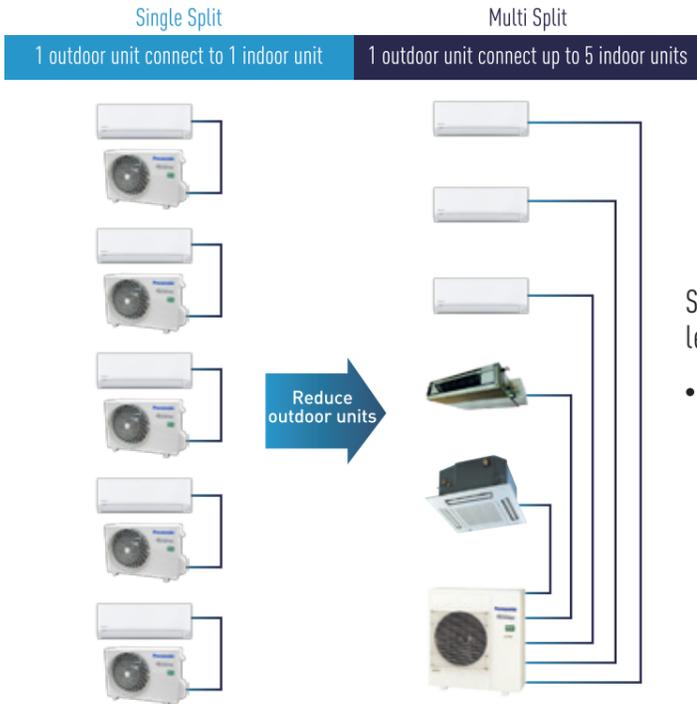
Space-saving installation with less outdoor units required
- As 1 outdoor unit is able to connect up to 5 indoor units, this provide flexible customization according to the layout of your house.

Independent Operation Control

Outdoor unit connects to each indoor unit independently
- Able to adjust the operation settings for each indoor unit separately. If one indoor unit is malfunctions, other indoor units can continue to operate by provide cooling comfort to the rooms.

Flexible Installation

❶ Maximum height up to 15 meters for indoor and outdoor unit.
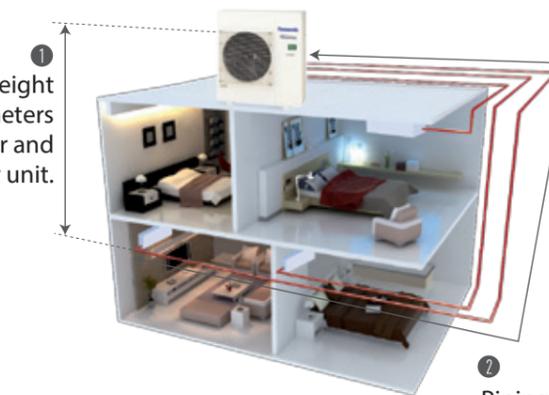
The multi-split system accommodates long pipelines up to 80 meters
- Flexible arrangement and installation of indoor and outdoor units based on the room condition, location and installation convenience of the site.

❷ Piping can be extended up to 80 meters.*

* Applicable to CU-5Z100VBR

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Specifications

CU-2Z52VBR

5.2kW *4

Dimensions (HxWxD):
619 x 824(+70) x 299 mm
Weight: 39 kg

* At least two indoor units must be connected.

Models	Indoor Units: Possible Combination Patterns (Must be within capacity range)	Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Maximum Pipe Length [1 room]	Maximum Pipe Length [Total]	Maximum Chargeless Length	Additional Gas	Maximum Height	Type Capacity [kW class]	Wall-Mounted	Cassette (4-Way)	Ultra Slim Ducted	Floor Console
	PORT A: 1.6 2.0 2.5 3.5 4.2 5.0 *Either unit	3.2 to 7.7 kW	Room A	ø 6.35	ø 9.52	20 m	30 m	20 m	15 g/m	10 m	1.6	●			
	PORT B: 1.6 2.0 2.5 3.5 4.2 5.0 *Either unit										2.0	●			
											2.5	●	●	●	●
											3.5	●	●	●	●
			Room B	ø 6.35	ø 9.52						4.2	●			
		Make sure to keep combinations within this range.									5.0	●	●	●	●

CU-3Z54VBR

5.4kW *4

Dimensions (HxWxD):
795 x 875(+95) x 320 mm
Weight: 71 kg

* At least two indoor units must be connected.

Models	Indoor Units: Possible Combination Patterns	Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Maximum Pipe Length [1 room]	Maximum Pipe Length [Total]	Maximum Chargeless Length	Additional Gas	Maximum Height	Type Capacity	Wall-Mounted	Cassette (4-Way)	Ultra Slim Ducted	Floor Console
	PORT A: 1.6 2.0 2.5 3.5 4.2 5.0 *Either unit	4.5 to 9.5 kW	Room A	ø 6.35	ø 9.52	25 m	50 m	30 m	20 g/m	15 m	1.6	●			
	PORT B: 1.6 2.0 2.5 3.5 4.2 5.0 *Either unit										2.0	●			
	PORT C: 1.6 2.0 2.5 3.5 4.2 5.0 *Either unit		Room B	ø 6.35	ø 9.52						2.5	●	●	●	●
											3.5	●	●	●	●
		Make sure to keep combinations within this range.	Room C	ø 6.35	ø 9.52						4.2	●			
											5.0	●	●	●	●

CU-4Z71VBR

7.1kW *4

Dimensions (HxWxD):
795 x 875(+95) x 320 mm
Weight: 72 kg

* At least two indoor units must be connected.

Models	Indoor Units: Possible Combination Patterns	Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Maximum Pipe Length [1 room]	Maximum Pipe Length [Total]	Maximum Chargeless Length	Additional Gas	Maximum Height	Type Capacity	Wall-Mounted	Cassette (4-Way)	Ultra Slim Ducted	Floor Console
	PORT A: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 *Either unit	4.5 to 11.5 kW	Room A	ø 6.35	ø 9.52	25 m	60 m	30 m	20 g/m	15 m	1.6	●			
	PORT B: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 *Either unit										2.0	●			
	PORT C: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 *Either unit		Room B	ø 6.35	ø 9.52						2.5	●	●	●	●
	PORT D: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 *Either unit										3.5	●	●	●	●
		Make sure to keep combinations within this range.	Room C	ø 6.35	ø 9.52						4.2	●			
											5.0	●	●	●	●
			Room D	ø 6.35	ø 9.52						6.0	●	●	●	●

*4 To enable demand response management, an optional accessory needs to be installed (CZ-CAP2)

Outdoor

Blue Fin Condenser — R32 REFRIGERANT

Up to 2 rooms — CU-2Z52VBR

Up to 3 rooms — CU-3Z54VBR

Up to 4 rooms — CU-4Z71VBR

Specifications

CU-4Z80VBR

8.0kW *4

Dimensions (HxWxD):
999 x 940 x 340 mm
Weight: 80 kg

* At least two indoor units must be connected.

Models	Indoor Units: Possible Combination Patterns	Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Maximum Pipe Length [1 room]	Maximum Pipe Length [Total]	Maximum Chargeless Length	Additional Gas	Maximum Height	Type Capacity [kW class]	Wall-Mounted	Cassette (4-Way)	Ultra Slim Ducted	Floor Console
	PORT A: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 *Either unit	4.5 to 14.7 kW	Room A	ø 6.35	ø 9.52	25 m	70 m	45 m	20 g/m	15 m	1.6	●			
	PORT B: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 *Either unit										2.0	●			
	PORT C: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 *Either unit		Room B	ø 6.35	ø 9.52						2.5	●	●	●	●
	PORT D: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 *Either unit										3.5	●			
		Make sure to keep combinations within this range.	Room C	ø 6.35	ø 9.52						4.2	●			
											5.0	●	●	●	●
			Room D	ø 6.35	ø 9.52						6.0	●	●	●	●
											7.1	●			

CU-5Z100VBR

10.0kW *4

Dimensions (HxWxD):
999 x 940 x 340 mm
Weight: 81 kg

* At least two indoor units must be connected.

Models	Indoor Units: Possible Combination Patterns	Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Maximum Pipe Length [1 room]	Maximum Pipe Length [Total]	Maximum Chargeless Length	Additional Gas	Maximum Height	Type Capacity	Wall-Mounted	Cassette (4-Way)	Ultra Slim Ducted	Floor Console
	PORT A: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 *Either unit	4.5 to 18.3 kW	Room A	ø 6.35	ø 9.52	25 m	80 m	45 m	20 g/m	15 m	1.6	●			
	PORT B: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 *Either unit										2.0	●			
	PORT C: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 *Either unit		Room B	ø 6.35	ø 9.52						2.5	●	●	●	●
	PORT D: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 *Either unit										3.5	●	●	●	●
	PORT E: 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 *Either unit	Make sure to keep combinations within this range.	Room C	ø 6.35	ø 9.52						4.2	●			
			Room D	ø 6.35	ø 9.52						5.0	●			
											6.0	●			
			Room E	ø 6.35	ø 9.52						7.1	●			

*4 To enable demand response management, an optional accessory needs to be installed (CZ-CAP2)

Accessories

CZ-MA1P	CZ-MA2P	CZ-MA3P	CZ-CAP2	CZ-TACG1
*1 CZ-MA1P is to be used to reduce the connection size on the indoor unit from ½" to ⅜".	*2 CZ-MA2P is to be used to increase the connection size on the outdoor unit from ⅜" to ½".	*3 CZ-MA3P is to be used to reduce the connection size on the indoor unit from ⅝" to ½".	*4 Demand response module CZ-CAP2.	*5 Network Adaptor (Optional)

Outdoor

Blue Fin Condenser — R32 REFRIGERANT

Up to 4 rooms — CU-4Z80VBR

Up to 5 rooms — CU-5Z100VBR

Indoor units

Cooling / Heating

Model			Wall-Mounted							
Model			CS-MRZ16VKR	CS-MRZ20VKR	CS-RZ25VKRW	CS-RZ35VKRW	CS-RZ42VKRW	CS-RZ50VKRW	CS-RZ60VKRW	CS-RZ71VKRW
Capacity		kW	1.6	2.0	2.5	3.5	4.2	5.0	6.0	7.1
Power Source			Single Phase 240V, 50Hz							
Noise (H/L)	Cooling	dB(A)	41/27	42/27	42/27	46/28	47/33	46/36	48/38	51/39
	Heating		41/29	42/29	42/29	46/31	46/37	46/35	48/38	51/39
	Cooling	dB	57/43	58/43	58/43	62/44	63/49	62/52	64/54	67/55
	Heating		57/45	58/45	58/45	62/47	62/53	62/51	64/54	67/55
Airflow	Cooling/ Heating	L/s	183/192	190/198	190/193	195/213	198/213	332/338	353/353	385/395
Dimensions	Height	mm	290	290	290	290	290	302	302	302
	Width	mm	799	799	799	799	799	1,102	1,102	1,102
	Depth	mm	197	197	197	197	197	244	244	244
Net Weight		kg	8	8	8	8	8	12	13	13
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 9.52	ø 9.52	ø 9.52	ø 9.52*¹	ø 9.52*¹	ø 12.70*²	ø 12.70*²*³

Cooling / Heating

Model			Ultra Slim Ducted				4-Way Mini Cassette				Floor Console		
Model			CS-Z25UD3RAW	CS-Z35UD3RAW	CS-Z50UD3RAW	CS-Z60UD3RAW	CS-Z25UB4RAW	CS-Z35UB4RAW	CS-Z50UB4RAW	CS-Z60UB4RAW	CS-Z25UFRAW	CS-Z35UFRAW	CS-Z50UFRAW
Capacity		kW	2.5	3.5	5.0	6.0	2.5	3.5	5.0	6.0	2.5	3.5	5.0
Power Source			Single Phase 240V, 50Hz										
Noise (H/L)	Cooling	dB(A)	35/29	35/28	41/31	43/32	36/27	36/28	40/30	45/34	40/27	41/28	46/33
	Heating		36/29	37/29	41/32	43/34	37/30	39/30	41/31	47/34	40/27	41/27	48/35
Noise (H)	Cooling	dB	51	51	57	59	52	52	56	61	56	57	62
	Heating		52	53	57	59	53	55	57	63	56	57	64
Airflow	Cooling/Heating	L/s	175/175	187/187	255/255	262/262	175/180	175/195	192/197	237/253	163/173	170/182	198/227
Dimensions	Height	mm	200	200	200	200	260	260	260	260	600	600	600
	Width	mm	750	750	750	750	575	575	575	575	750	750	750
	Depth	mm	640	640	640	640	575	575	575	575	207	207	207
Net Weight		kg	19	19	19	19	18	18	18	18	13	13	13
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 9.52	ø 9.52*¹	ø 12.70*²	ø 9.52	ø 9.52	ø 9.52*¹	ø 12.70*²	ø 9.52	ø 9.52	ø 9.52*¹

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

Outdoor Units

Cooling / Heating

Model		(50Hz)	CU-2Z52VBR	CU-3Z54VBR	CU-4Z71VBR	CU-4Z80VBR	CU-5Z100VBR
Indoor Units Combination			2.50kW + 2.50kW	1.60kW + 1.60kW +2.00kW	1.60kW + 1.60kW + 2.00kW + 2.00kW	2.00kW + 2.00kW + 2.00kW + 2.00kW	2.00kW + 2.00kW + 2.00kW + 2.00kW + 2.00kW
Power Source			Single Phase 240V, 50Hz				
Cooling Operation	Capacity (min-max)	kW	5.20 (1.50-6.00)	5.40 (1.80-7.30)	7.10 (1.90-8.80)	8.00 (2.30-9.20)	10.00 (2.30-11.50)
Maximum Connectable Capacity		kW	7.7	9.5	11.5	14.7	18.3
Maximum Connectable Indoors		Units	2	3	4	4	5
Electrical Data	Running Current	A	5.9	5.1	7.4	8.9	11.8
	Power Input (min-max)	kW	1.35 (0.25-1.62)	1.12 (0.36-2.18)	1.66 (0.34-2.47)	1.98(0.42-2.87)	2.60 (0.43-3.59)
	AEER/EER	W/W	3.79 / 3.85	4.74 / 4.82	4.23 / 4.28	4.00 / 4.04	3.81 / 3.85
Noise (H)	Sound Pressure Level	dB(A)	51	48	49	51	53
	Sound Power Level	dB	66	62	63	67	69
Heating Operation	Capacity	kW	6.10 (1.10-7.20)	7.00 (1.60-9.00)	8.50 (3.00-10.70)	9.40 (3.00-11.60)	12.00 (3.40-14.50)
Electrical Data	Running Current	A	6.2	6.8	8.6	9.3	12.1
	Power Input (min-max)	kW	1.43 (0.21-1.90)	1.54 (0.32-2.63)	1.95 (0.50-2.72)	2.03 (0.50-3.42)	2.76 (0.58-4.02)
	ACOP/COP	W/W	4.21 / 4.27	4.49 / 4.55	4.32 / 4.36	4.58 / 4.63	4.31 / 4.35
Noise (H)	Sound Pressure Level	dB(A)	53	49	51	52	56
	Sound Power Level	dB	68	63	65	68	72
Maximum Current		A	11.5	15.2	15.6	19.0	21.3
Starting Current		A	6.4	7.0	8.8	9.7	12.5
Compressor Output		W	900	1300	1300	1700	1700
Dimensions	Height	mm	619	795	795	999	999
	Width	mm	824 (+70)	875 (+95)	875 (+95)	940	940
	Depth	mm	299	320	320	340	340
Net Weight		kg	39	71	72	80	81
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Pipe Length Range (1 room)		m	3~20	3~25	3~25	3~25	3~25
Maximum Pipe Length (Total) *		m	30	50	60	70	80
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 9.52	ø 9.52	ø 9.52	ø 9.52
Operating Range	Cooling	Degree (°C)	-10~+46	-10~+46	-10~+46	-10~+46	-10~+46
	Heating	Degree (°C)	-15~+24*¹	-15~+24*¹	-15~+24*¹	-15~+24*¹	-15~+24*¹

* Additional Gas might be required for some models. Refer to Page 38 for information on Additional Gas.

Rating Conditions

	Cooling	Heating
Inside air temperature	27°C DB /19°C WB	20°C DB
Outside air temperature	35°C DB	7°C DB /6°C WB

Panasonic

Authorised Dealer

Panasonic New Zealand Limited

Panasonic Global Air Conditioner

Global Site : aircon.panasonic.com
PROClub : panasonicproclub.global

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