

Residential Air Conditioners



QUALITY AIR FOR LIFE



Quality air has been a prime concern of many in today's world. While we spend most of our time indoors, we often take the perception that indoor air is cleaner than the outside air.

Panasonic is committed to advance frontiers through air quality improvement with "Quality Air For Life" initiatives and bring a great range of air solutions to mitigate indoor air concerns. Quality Air For Life solutions aim to deliver comfortable, clean air and clean energy solutions through four different enabling technologies: Air Purification, Air Conditioning, Air Connectivity and Air Ventilation.

Quality Air Solutions at Home

Panasonic offers a wide range of air conditioning solutions to purify and heat/cool indoor spaces for comfort with energy efficiency for a lesser environmental impact. Connect with the Panasonic Comfort Cloud App that keeps you in touch with your home air conditioner remotely while you're away from home.



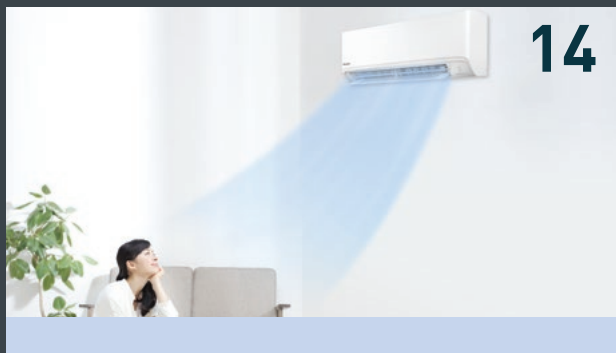
AIR PURIFICATION

Purifies air and surfaces 24 hours a day



AIR CONNECTIVITY

Stay connected and in control anywhere, anytime



AIR CONDITIONING

Comfortable warm/cool air for you and your family



AIR EFFICIENCY

Eco-friendly and cost saving technologies for sustainable living

SPECIFICATIONS OF AERO Z SERIES

20

SPECIFICATIONS OF DEVELOPER RZ SERIES

22

SPECIFICATIONS OF PREMIER SERIES FLOOR CONSOLE

24

MULTI-SPLIT AIR CONDITIONING SYSTEM

26

SPECIFICATIONS OF MULTI-SPLIT AIR CONDITIONING SYSTEM

28

TECHNICAL EXPLANATION (nanoe™ X)

32



24-HOUR AIR PURIFICATION

with nanoe™ X + Comfort Cloud

Your health starts with you at home from the outside world. nanoe™ X with hydroxyl radicals contained in water helps families to ensure constantly clean and safe indoor environments by inhibiting bacteria, viruses, mould and other pollutants while deodorising for clean and fresh air.

Choose Panasonic air conditioners equipped with nanoe™ X and stay connected by downloading the Panasonic Comfort Cloud App* to manage your air conditioners with one device.



Comfort Cloud App
(Air Connectivity)

*A router with internet connection is required to connect your air conditioner with Panasonic Comfort Cloud App. The CZ-TACG1 accessory is required for AC models (DEVELOPER RZ SERIES, FLOOR CONSOLE, SLIM DUCTED and MINI CASSETTE). CZ-RTC6BLW or CZ-CAPWFC1 accessory is required for MINI CASSETTE WITH nanoe™ X. Built-in Wi-Fi is only available for AERO Z SERIES model.

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



Stay Safe Indoors with 24-Hour nanoe™ X Air Purification¹

nanoe™ X technology with the benefits of hydroxyl radicals can effectively inhibit adhered and airborne pollutants, and reduce odours. You can switch ON nanoe™ X mode with the air conditioning operation ON or OFF to actively clean your air when you are at home or operate independently when you are away from home.

nanoe™ X mode operates on low energy consumption and requires no maintenance – thanks to the titanium-made nanoe™ X device. nanoe™ X keeps you and your family safe indoors with 24-hour active air purification.



Switch nanoe™ X mode ON to inhibit pollutants and deodorise while you're away.

*Energy consumption may vary depending on models.



Provides a cleaner and comfortable space for you and your loved ones.

Smartify Your Air Conditioner Anytime, Anywhere

Take control of single or multiple air conditioning units wherever you are. Purify your home with the Panasonic Comfort Cloud App on your mobile device on-the-move or use your voice assistant-enabled devices for hands-free help at home.

Purify On-The-Go



Switch on nanoe™ X mode without cooling/heating while away from home.

Convenience at Your Command



Turn ON/OFF your air conditioner with cooling/heating mode using Voice Control.

¹ The nanoe™ X mode can be run independently from cooling/heating mode, and needs to be ON for the 24-hour air purification to function.

Activate nanoe™ X All Day Long

24-hour Air Purification



MORNING

WAKE UP REFRESHED



Kick start the day at breakfast with quality air that refreshes and energises your morning.



Odours



Allergens



Bacteria & Viruses

AWAY FROM HOME



Control your home air conditioner remotely, with the Panasonic Comfort Cloud App to inhibit pollutants indoors, even when you are away from home.



Bacteria & Viruses



Hazardous Substances



Mould



NOON



EVENING

FAMILY EVENING MOMENTS



Return home to cooling/heating and refreshing air as nanoe™ X inhibits pollutants with the air conditioner, while cool/heat your home at the same time.



Odours

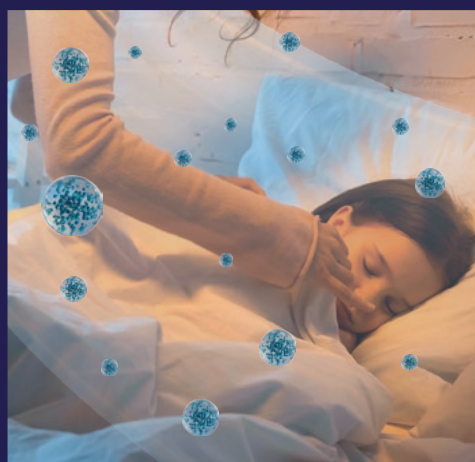


Pollen



Bacteria & Viruses

PRECIOUS NIGHT SLEEP



Enjoy a good night's sleep while nanoe™ X keeps your air clean and safe throughout the night. nanoe™ X also helps to moisturise skin and hair for a refreshing morning the next day.



Moisturise Hair & Skin



Bacteria & Viruses



NIGHT

nanoe™ X, Technology with the Benefits of Hydroxyl Radicals

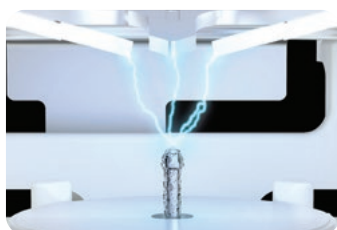
Known as nature's detergent, hydroxyl radicals (also known as OH radicals) are natural reactive molecules looking to react with other elements such as hydrogen. This reaction enables hydroxyl radicals to inhibit the growth of pollutants.

Panasonic's nanoe™ X technology brings these benefits to the comfort of your home to purify surfaces, soft furnishings and the indoor environment for a pleasant and comfortable living space.

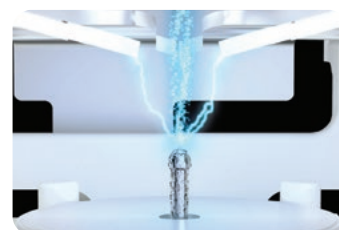
How the nanoe™ X device generates hydroxyl radicals contained in water?



1 Atomised electrode produces condensation.



2 Electrical discharge is applied to the water.



3 Hydroxyl radicals contained in water are generated and released to the room.

Uniqueness of nanoe™ X

Fills Space Actively



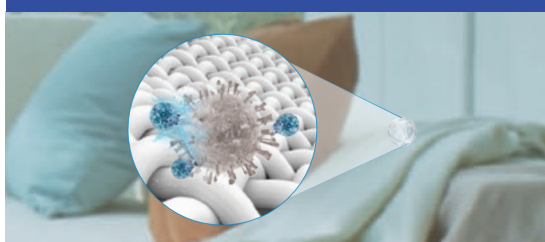
nanoe™ X actively fills the entire room and goes beyond the filter to inhibit adhered and airborne pollutants.

Maintenance-Free



No maintenance, no replacement required. nanoe™ X is a filter-free solution using a titanium-made atomised electrode that does not require maintenance.

Effective on Fabrics and Surfaces



Sized smaller than a steam droplet, nanoe™ X penetrates deeply into cloth fabrics to inhibit and deodorise effectively.

Safe to Use



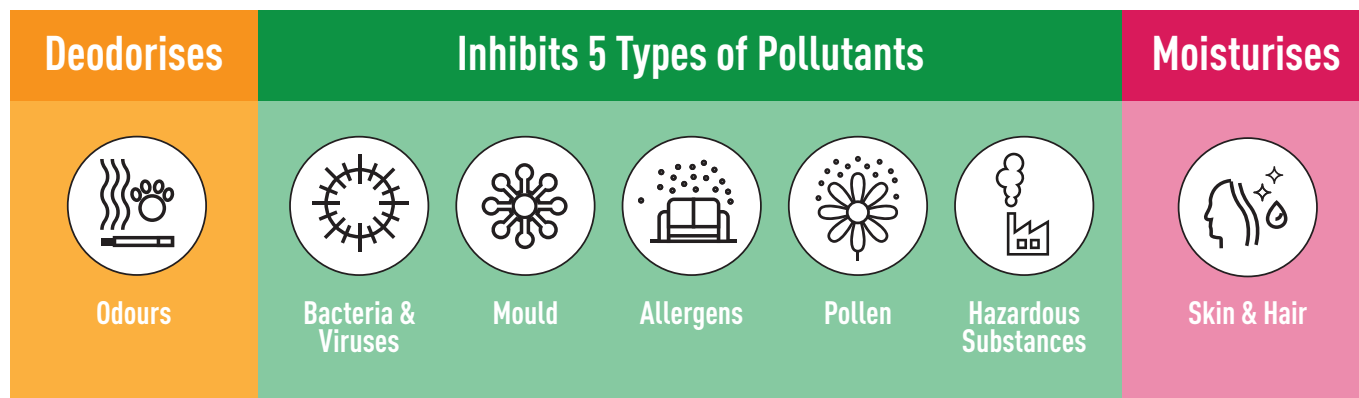
The safety of nanoe™ X has been tested in labs and institutions.

Visit our website for a list of safety data:
www.panasonic.com/global/consumer/clean/hydroxyl/technology.html



7 Effects of nanoe™ X

nanoe™ X technology effectively inhibits 5 types of pollutants, deodorises and moisturises with the benefits of hydroxyl radicals contained in water.



Deodorises Various Types of Odours

nanoe™ X reduces strong, adhesive odours¹ by deeply penetrating into fabrics, resulting in lasting freshness in your living space.



BBQ Odour



Sweat Odour

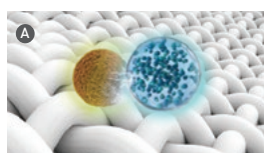


Cigarette Odour

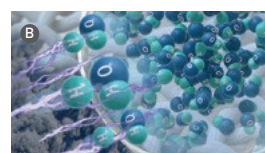


Garbage Odour

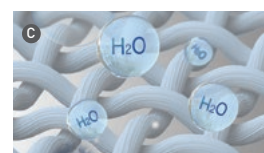
How nanoe™ X Reduces Odour



nanoe™ X reaches odour in fabric



Hydroxyl radicals break down odour-causing substances



Odour is eliminated

Inhibits 5 Types of Pollutants

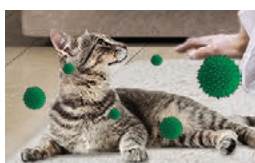
nanoe™ X inhibits airborne and adhered pollutants², providing better air quality for your loved ones.



Bacteria & Viruses



Mould



Allergens

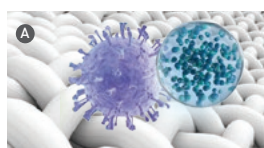


Hazardous Substances

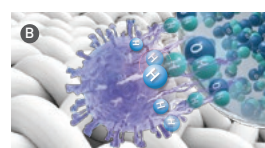


Pollen

How nanoe™ X Inhibits Pollutants



nanoe™ X reaches pollutants in fabrics



Hydroxyl radicals take hydrogen away from pollutants



Hydroxyl radicals transform hydrogen to inhibit the activity of pollutants

¹Please refer to page 46 ²Please refer to page 47 ³Please refer to page 53

Manage at Ease Using Panasonic Comfort Cloud App

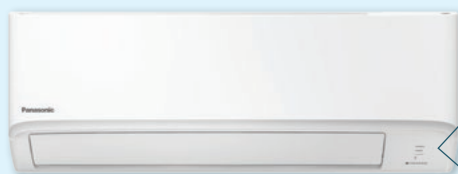
Bringing simplicity and convenience to your fingertips, Panasonic Comfort Cloud application gives you complete control of your air conditioning units anytime, anywhere.

Turn ON nanoe™ Mode
Switching Air Con Mode
Adjust Air Swing & Fan Speed
Set timer

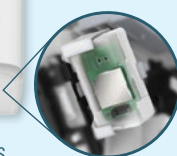
Track Energy Consumption
Error Notifications
User Assignment & Management

The Panasonic Comfort Cloud application enables your mobile device to act as a remote controller, synchronising with your air conditioner in a matter of seconds. Perfect for multiple air conditioning units in single and multiple locations.

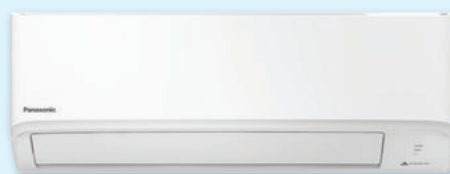
AERO Z SERIES WITH BUILT-IN Wi-Fi



Easy connectivity to Panasonic Comfort Cloud and removes the need to purchase and install optional network adaptor



DEVELOPER RZ SERIES WITH OPTIONAL NETWORK ADAPTOR



Optional network adaptor is required



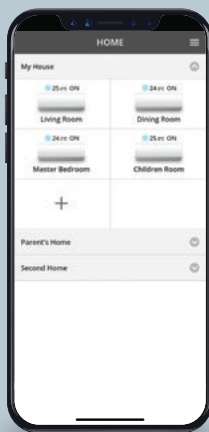
Smartify Your Air

Applicable for Residential Properties and Premises

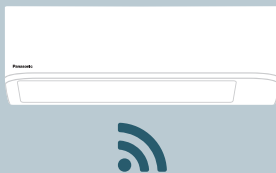
SMART CONTROL

Control Multiple Air Conditioners in Single/Multiple Locations

Managing Air Conditioners in Single Location



Requirements for Connecting with Panasonic Comfort Cloud App



Indoor Unit-Network

Air Conditioner equipped with built-in Wi-Fi/ optional network adaptor (CZ-TACG1/ CZ-CAPWFC1)/ CONEX Wired Remote Controller*



Other Hardware Requirements*

Router - Internet - Smartphone
(Required 2.4GHz transmission channel)

*Purchase and subscribe separately.



Compatible Device and Browsers

1. iOS 9.0 or above
2. Android™ 5.0 Lollipop or later

Download Free App



Download on the App Store



GET IT ON Google Play

*For AC models (DEVELOPER RZ SERIES, FLOOR CONSOLE, SLIM DUCTED and MINI CASSETTE), you need accessory CZ-TACG1 connected to port CN-CNT. CZ-RTC6BLW or CZ-CAPWFC1 accessory is required for MINI CASSETTE WITH nanoe™ X.

Built-in Wi-Fi is only available for AERO Z SERIES model.

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

Screen capture based on current Comfort Cloud app version 1.12.0



Embrace Intelligent Living, with Voice Control

Upgrade to an effortless, yet easy control with voice control that connects with your air conditioner for a seamless and integrated experience for the whole family.

Seamless Simple Setup



Comfort Cloud App

1

Setup your Comfort Cloud App



2

Set up your Google Nest or Amazon Echo devices and App



3

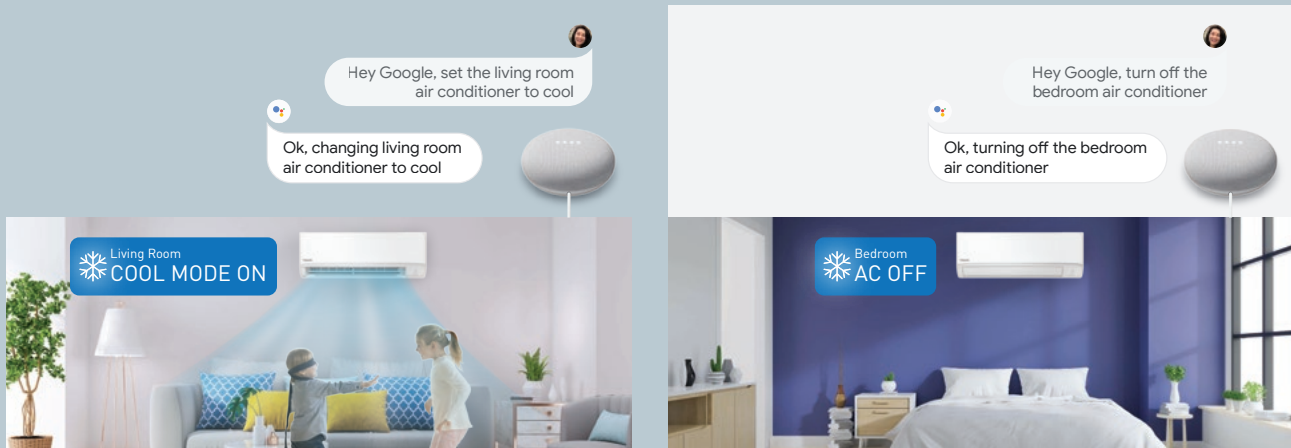
Link your Google Nest or Amazon Echo devices with the Comfort Cloud App

Smart Voice Control

One Device for Multiple Air Conditioners

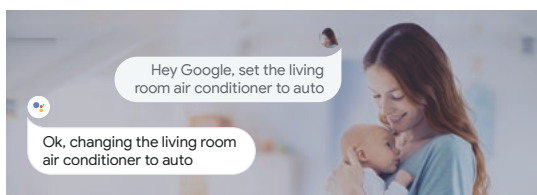
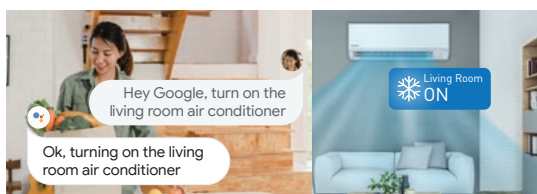
Utilising a single device to control multiple air conditioners simultaneously, control of all your air conditioners using your voice.

Voice Assistant Enabled Devices



Contactless Command for Your Convenience

Control your air conditioner using just your voice, without the touch of a button.



TURN ON/OFF AIR CONDITIONER

Additional help when you have a hectic day

Conveniently turn ON/OFF air conditioner when your hands are full.

CHANGE MODE

Convenience Control for blissful rest

Changing air conditioner mode with ease when preparing a comfortable space for your little ones.

ADJUST TEMPERATURE

Easy control for uninterrupted quality time

Adjust air conditioner temperature for your family comfort with a simple voice command.

CHECK CURRENT STATUS

Hands-free convenience for the whole family

Easy access for the elderly to check current AC operation status and adjust AC setting.

Compatible Device and Browsers

1. iOS 9.0 or above
2. Android™ 5.0 Lollipop or later

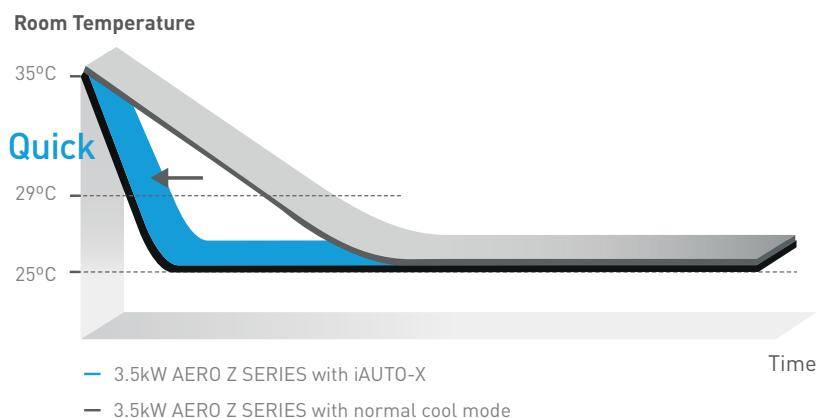


- Google, Android, Google Nest, Google Play, and Google Home are trademarks of Google LLC.
- Google Nest requires a Wi-Fi network, a nearby electrical outlet, a compatible mobile device, and a Google Account.
- Alexa compatible AC devices is available for CS-Z*AKRW, CS-Z*AKRW-1, CS-Z80YKR, CS-RZ*AKRW, CS-RZ80YKR, CS-Z*UFRW, CS-Z*UD3RAW & S-*PY3E.



Faster Cooling with iAUTO-X¹

iAUTO-X provides strong faster cooling through the use of Panasonic Thermal Enhancement Technology (P-TEch) enabling the compressor to achieve maximum frequency quickly from start-up. With the new iAUTO-X function, you can reactivate iAUTO-X for faster cooling even after reaching stable temperatures.



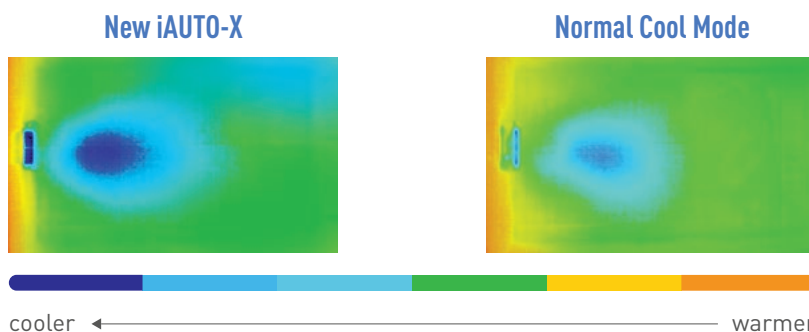
25%*
**COOLER
FASTER**

*** Comparison of iAUTO-X Mode & normal COOL mode by using 3.5kW AERO Z SERIES**

iAUTO-X Mode:
iAUTO-X Mode, Outside temperature : 35°C/24°C
Remote setting temperature : 25°C, with Fan Speed: Auto
Horizontal Airflow direction : Auto
Vertical Airflow direction : Straight

Normal Mode:
Cool Mode, Outside temperature : 35°C/24°C
Remote setting temperature : 25°C, with Fan Speed: High
Horizontal Airflow direction : Middle
Vertical Airflow direction : Straight

Total time needed to cool down the room from 35°C to 29°C is measured.
At Panasonic Amenity Room [size:16.6m²]
The effect differs according to conditions in installation and usage.



Concentrated airflow cools instantly.
Room is evenly cooled.

Cool air blows downwards and cools the room
at a slow pace, resulting in uneven cooling.



Stay Warm/Cool With Faster, Further Airflow

Panasonic's air solutions offer ideal heating/cooling airflow to keep your family warm and comfortable.

AEROWINGS



Heating

- AEROWINGS twin flaps direct airflow down along the floor to rapidly create a warm space with better comfort levels.



Cooling

- AEROWINGS twin flaps move upward to spread fast and cool air across the room and to the ceiling, then showers down gently for even cooling distribution.

Shower Cooling Airflow Assessment



Airflow Smoke Test

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



warmer → cooler

Temperature Distribution Test

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

Upper and Lower Flap Blow

The floor console consists of upper and lower flap which enables double airflow for heating/cooling to improve comfort and temperature dispersion.



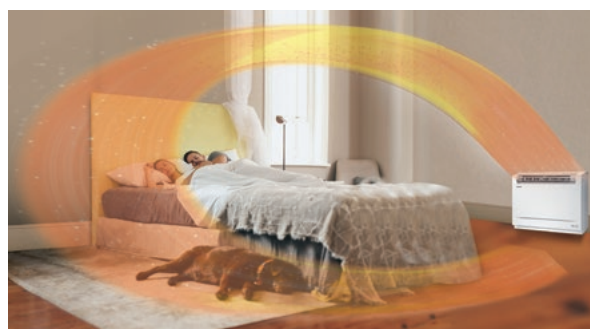
Heating

- Upward and downward air flow uniformly warms the whole room, so even your feet are kept comfortably warm during colder weather.



Cooling

- Upward air flow provides all-around cooling to the entire room for cooling comfort during warmer weather.



¹Applicable to AERO Z SERIES [(5.0kW for CS-Z50AKRW-1), (6.0kW-8.0kW)] and DEVELOPER RZ SERIES (6.0kW-8.0kW).



Better Living, Together with Eco-Friendly Technologies

Panasonic's Air Efficiency provides a sustainable living environment with technologies that reduce carbon emissions into the Earth's atmosphere while saving costs on the use of electricity, providing an eco-friendly solution for you and the environment.

Enjoy intelligent cooling with eco-friendly features such as reduced power usage, adjusted cooling/heating power and efficient energy usage for better savings and energy consumption that's good for both you and the environment, altogether.

INVERTER

R32
REFRIGERANT

AI ECONAVI

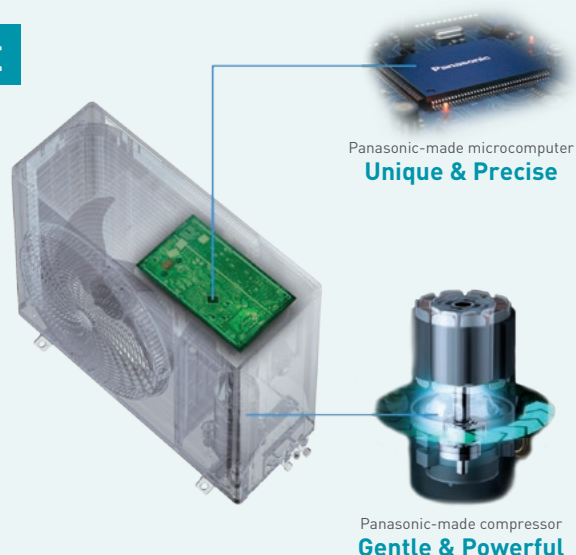
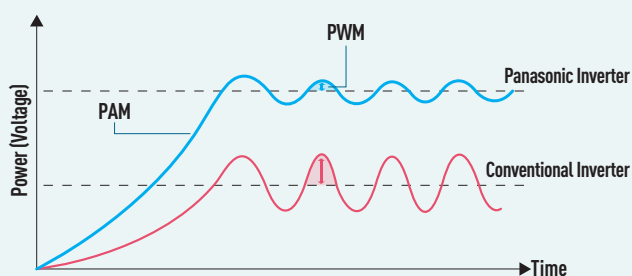


Powerful Performance with Efficiency

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/heating comfort.

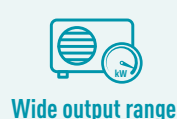
Quick Cooling/Heating and Constant Comfort

PAM (Pulse Amplitude Modulation) increases the power output to accelerate compressor speed at start up for quick cooling/heating and PWM (Pulse Width Modulated Wave) stabilises the set temperature without wasting energy, offering constant comfort.

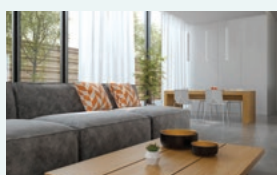


Benefits of Panasonic Inverter Technology

The energy-saving abilities of Inverters provide a host of benefits for your comfort, including fast cooling/heating upon start-up, constantly maintaining a set temperature, a wider power output range and reduced noise levels.



Reasons to Choose Panasonic Inverter Air-Conditioner



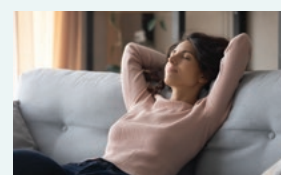
Save on Your Electricity Bill

Panasonic inverter air conditioner prevents overcooling or overheating regardless of room size or condition.



Stay Comfortable Throughout the Day

A wide power output range for inverter air conditioner models provides a balanced comfort regardless of temperature fluctuations caused by the occupancy level or heat-generating appliances.



Cut Down on Waiting Time

With powerful and quick start-up, you no longer have to wait to experience refreshing comfort.



An Environmentally-Friendly Refrigerant

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

HIGHER COOLING CAPACITY

R32 has **higher heating/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 R32, R410A and R22

	R32	R410A	R22
Composition	Single Component	2 Components	Single Component
Chemical Formula	CH_2F_2	$\text{CH}_2\text{F}_2 / \text{CHF}_2\text{CF}_3$	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



Intelligently Balances Energy Savings and Comfort

As each room in your home is different, ECO Mode with Artificial Intelligence (A.I.) Control efficiently cools your room based on the amount of heat load and air conditioning capacity. It finds the perfect ECO balance between power consumption and time taken to reach the desired temperature to maintain your comfort with minimal energy waste.

ECO Mode with A.I. Control will automatically learn and judge what is the optimal ECO level based on:

- 1 Room condition**
- 2 Heat Source can be due to:**
 - (A) Sunlight and lighting in the room
 - (B) Computers and appliances
 - (C) Body heat

When Your Air Conditioner is Switched On



Daytime with sunlight

- Requires Fast Cooling
ECO Mode with A.I. prioritises on maximising cooling comfort while saving energy through ECO Mode.



Night time with cool breeze

- Does not require Fast Cooling
ECO Mode with A.I. prioritises on maximising energy savings over cooling comfort.

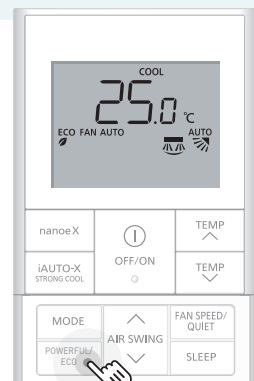
After Reaching Set Temperature



- Consistent comfort day or night
- Saves energy after reaching set temperature
ECO Mode with A.I. continues to save energy and automatically adjusts room temperature for consistent cooling comfort

How to switch on ECO Mode with A.I. Control

- Press **POWERFUL/ECO** to switch ON POWERFUL mode.
- Press **POWERFUL/ECO** second time to switch ON ECO mode.
- Press **POWERFUL/ECO** third time to cancel/switch OFF ECO mode.



*Comparison of ECO Mode & normal mode by using 3.5kW Inverter Model

ECO Mode:

ECO Mode, Outside temperature : 35°C/24°C
Remote setting temperature : 25°C, with Fan Speed: High.
Horizontal Airflow direction : Middle
Vertical Airflow direction : Straight

Normal Mode:

Normal Mode, Outside temperature : 35°C/24°C
Remote setting temperature : 25°C, with Fan Speed: High.
Horizontal Airflow direction : Middle
Vertical Airflow direction : Straight

Total power consumption amount is measured for 1 hour under stable operation.
At Panasonic Amenity Room (size : 13.3m²)
The effect differs according to conditions in installation and usage

*ECO+A.I. function applicable to AERO Z SERIES (Single-Split) and DEVELOPER RZ SERIES (Single-Split) only.

CLOSE TO CEILING



CLOSE TO WALL



ABOVE DOOR

Fits Perfectly Anywhere

Panasonic air conditioners are designed to be compact in size, minimalist with matt finishing, enabling them to be easily fitted and seamlessly harmonized with any interior. Its uniquely designed structure enhances durability, yet conveniently eases installation and maintenance routines.

The Good Design Award 2020 has recognised its achievement of balancing product design and function for the benefit of the global community¹.



**GOOD DESIGN
AWARD 2020**

¹ Good Design Award 2020 applicable to AERO Z SERIES [(2.5kW-4.2kW), (5.0kW for CS-Z50AKRW)] and DEVELOPER RZ SERIES (2.5kW-5.0kW).

WALL-MOUNTED

AERO Z SERIES Single -Split Type



CS-Z20AKRW | CS-Z25AKRW-1 |
CS-Z35AKRW | CS-Z42AKRW |
CS-Z50AKRW



CS-Z50AKRW-1 | CS-Z60AKRW-1 |
CS-Z71AKRW | CS-Z80YKR



CS-Z95AKR

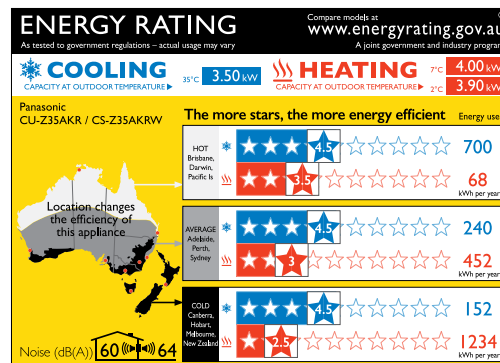


Standard



Wired

CZ-RD517C (Optional)



MODEL		INDOOR UNIT (230V / 1 Phase / 50Hz)	CS-Z20AKRW CU-Z20AKR	CS-Z25AKRW-1 CU-Z25AKR-1	CS-Z35AKRW CU-Z35AKR	CS-Z42AKRW CU-Z42AKR	CS-Z50AKRW CU-Z50AKR	CS-Z50AKRW-1 CU-Z50AKR-1	CS-Z60AKRW-1 CU-Z60AKR-1	CS-Z71AKRW CU-Z71AKR	CS-Z80YKR CU-Z80YKR	CS-Z95AKR CU-Z95AKR
Cooling / Heating Capacity	(min-max) kW		2.05 (0.95-2.80) 2.80 (0.90-4.10)	2.50 (0.95-3.70) 3.20 (0.90-4.40)	3.50 (1.00-4.20) 4.00 (0.90-5.70)	4.20 (1.15-5.10) 5.00 (0.90-6.80)	5.00 (1.15-6.10) 6.00 (0.98-7.70)	5.00 (1.25-6.70) 6.00 (1.10-8.00)	6.00 (1.70-7.50) 7.20 (1.70-9.80)	7.10 (1.70-8.50) 8.00 (1.70-10.60)	8.00 (2.30-9.00) 9.00 (2.20-11.60)	9.50 (2.80-11.20) 10.30 (2.40-12.30)
	(min-max) Btu/h		6,990 (3,240-9,550) 9,550 (3,070-14,000)	8,530 (3,240-12,600) 10,900 (3,070-15,000)	11,900 (3,410-14,300) 13,600 (3,070-19,400)	14,300 (3,920-17,400) 17,100 (3,070-23,200)	17,100 (3,920-20,800) 20,500 (3,340-26,300)	17,100 (4,260-22,800) 20,500 (3,750-27,300)	20,500 (5,800-25,600) 24,600 (5,800-36,100)	24,200 (5,800-29,000) 27,300 (5,800-36,100)	27,300 (7,840-30,700) 30,700 (7,500-39,600)	32,400 (9,550-38,200) 35,100 (8,180-41,900)
Air Flow	Indoor L/s		178/195	188/200	193/202	193/202	208/228	328/328	337/359	352/367	367/377	407/420
Dehumid	L/h		1.3	1.5	2.0	2.4	2.8	3.3	4.1	4.7	5.0	5.0
Electrical Data	Running Current A		2.00/2.70	2.55/3.20	3.60/3.85	5.00/5.45	6.50/7.30	5.60/6.10	7.10/7.80	8.80/8.90	10.10/9.80	12.00/11.70
	Max Current A		4.8	6.3	7.2	8.9	11.0	10.8	13.2	14.8	15.0	16.6
	Power Input (min-max) kW		0.45 (0.20-0.80) 0.60 (0.19-1.10)	0.58 (0.20-1.20) 0.73 (0.19-1.29)	0.82 (0.21-1.29) 0.87 (0.19-1.65)	1.18 (0.22-1.64) 1.30 (0.20-2.04)	1.51 (0.24-2.10) 1.72 (0.26-2.50)	1.31 (0.23-2.00) 1.42 (0.22-2.25)	1.67 (0.44-2.40) 1.83 (0.40-3.00)	2.06 (0.45-2.90) 2.09 (0.43-3.40)	2.39 (0.46-3.33) 2.34 (0.43-3.50)	2.84 (0.50-3.50) 2.78 (0.44-3.50)
AEER / EER ACOP / COP		W/W	4.47/4.56 4.60/4.67	4.28/4.31 4.33/4.38	4.22/4.27 4.55/4.60	3.53/3.56 3.87/3.85	3.29/3.31 3.47/3.49	3.79/3.82 4.20/4.23	3.57/3.59 3.92/3.93	3.43/3.45 3.81/3.83	3.34/3.35 3.83/3.85	3.33/3.35 3.69/3.71
Star Rating Residential / Commercial	Hot Climate TCSPF HSPF		4.5/5.5 3.5/3.5	4.5/5.5 3.5/3.5	4.5/5.5 3.5/3.5	3.5/4.5 3.5/3.5	3.5/4.5 3.0/3.0	4.5/5.5 3.5/3.5	3.5/4.0 3.5/3.5	3.5/4.5 3.5/3.5	3.5/4.5 3.5/3.5	3.5/4.0 3.0/3.5
	Average Climate TCSPF HSPF		3.5/5.5 3.0/3.0	4.0/6.0 3.0/3.0	4.5/6.5 3.0/3.5	3.5/5.0 2.5/3.0	3.5/6.0 2.5/2.5	4.0/6.5 3.0/3.0	3.5/5.0 2.5/3.0	3.5/5.0 2.5/3.0	3.5/5.0 2.5/3.0	3.0/4.5 2.5/3.0
	Cold Climate TCSPF HSPF		3.5/6.5 2.5/2.5	4.0/7.0 2.5/2.5	4.5/8.0 2.5/3.0	3.5/6.0 2.0/2.5	3.5/8.0 2.0/2.0	4.5/8.0 2.5/2.5	3.5/6.0 2.0/2.5	3.5/6.0 2.0/2.5	3.5/6.0 2.0/2.5	3.5/5.5 2.0/2.5
Noise Level	Sound Pressure Level* dB(A)	Indoor (H / L / O-Lo)	38/24/19 39/25/21	40/25/19 40/27/21	44/26/19 44/29/22	44/31/28 44/32/28	44/34/28 44/33/29	47/34/31 47/33/29	48/36/33 48/35/32	49/37/34 49/37/34	51/38/35 50/38/35	53/40/38 52/40/35
	Sound Power Level dB(A)	Indoor (H / L / O-Lo)	54/40/35 55/41/37	56/41/35 56/43/37	60/42/35 60/45/38	60/47/44 60/48/44	60/50/44 60/49/45	63/50/47 63/49/45	64/52/49 64/51/48	65/53/50 65/53/50	67/54/51 66/54/51	69/56/54 68/56/51
Net Weight	Indoor (Outdoor) kg		61/56 62/57	63/58 64/59	64/59 65/60	64/59 66/61	63/58 64/59	63/58 64/59	67/62 67/62	68/63 68/63	69/64 69/64	69/64 69/64
	Indoor (Outdoor) mm		8 (25)	8 (25)	8 (31)	8 (31)	8 (35)	12 (35)	13 (45)	13 (45)	13 (51)	17 (55)
Dimensions	Indoor (H x W x D) mm		290 x 779 x 209	290 x 779 x 209	290 x 779 x 209	290 x 779 x 209	290 x 779 x 209	295 x 1,040 x 244	295 x 1,040 x 244	295 x 1,040 x 244	295 x 1,040 x 244	309 x 1,212 x 269
	Outdoor (H x W x D) mm		542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	795 x 875 x 320	795 x 875 x 320
Refrigerant 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)	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 12.70 (1/2)	ø 15.88 (5/8)	ø 15.88 (5/8)	ø 15.88 (5/8)
Pipe Extension Length	Min - Max (m)		3-20	3-20	3-20	3-20	3-30	3-30	3-30	3-30	3-30	3-30
Maximum Elevation Length	m		15	15	15	15	15	15	20	20	20	20
Pipe Length For Additional Gas	m		7.5	7.5	7.5	7.5	10.0	10.0	10.0	10.0	10.0	10.0
Additional Gas Amount	g/m		10	10	10	10	15	15	15	25	25	25
Power Supply			Outdoor	Outdoor	Outdoor	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	-10 ~ +46 -15 ~ +24	-10 ~ +46 -15 ~ +24	-10 ~ +46 -15 ~ +24
Refrigerant Type			R32	R32	R32	R32	R32	R32	R32	R32	R32	R32

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

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

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 the specifications except star rating are based on average climate.

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 EXPLANATION

ENERGY SAVINGS

INVERTER CONTROL

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



ECO MODE WITH A.I.

Auto-adjusts to the optimal ECO level based on heat load conditions and air conditioning cooling capacity.

ECO+AI

COMFORT

iAUTO-X

Come home to ultra-fast cooling, and then enjoy continuous comfort Shower Cooling that evenly distributes cool air. Reactivate faster cooling with a second press of the iAUTO-X button.



QUIET MODE

Enjoy the comfort of running your air conditioner at night for a relaxing sleep.



MANUAL HORIZONTAL AIRFLOW DIRECTION CONTROL

Horizontal airflow patterns can be manually adjusted.

*Applicable to CS-Z20AKRW, CS-Z25AKRW-1, CS-Z35AKRW, CS-Z42AKRW & CS-Z50AKRW



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.



AIRFLOW DIRECTION CONTROL (UP & DOWN)

Vertical airflow patterns can be controlled with operation by remote, even from a distance.

*Applicable to CS-Z20AKRW, CS-Z25AKRW-1, CS-Z35AKRW, CS-Z42AKRW & CS-Z50AKRW



FAN MODE

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



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.



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.

*Applicable to CS-Z50AKRW-1, CS-Z60AKRW-1, CS-Z71AKRW & CS-Z80YKR



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.



CLEANER AIR

nanoe™ X

nanoe™ X effectively deodorises and inhibits various pollutants 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 as 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.



DEMAND RESPONSE ENABLING DEVICE (DRED)

Allows Electrical Utility Companies to regulate the power supply to the units if connected.



3RD PARTY CONNECTIVITY

Allows limited control from an external source when wired to do so.



LCD WIRELESS REMOTE CONTROL

Easy control of the unit from anywhere in the room.



WIRED REMOTE CONTROL

Control at the unit from fixed location where wired remote controller is installed.



Wireless LAN REMOTE CONTROL FOR INTERNET CONNECTION (BUILT-IN)

Control air conditioners remotely by turning your mobile device into a remote controller using internet connection.



RELIABILITY

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.



LONG PIPING

Long piping offers more flexible installation options.

20m: CS-Z20AKRW, CS-Z25AKRW-1, CS-Z35AKRW & CS-Z42AKRW
30m: CS-Z50AKRW, CS-Z50AKRW-1, CS-Z60AKRW-1, CS-Z71AKRW & CS-Z80YKR



BLUE FIN CONDENSER

Extra protection from the elements with a longer lasting coil.



SELF-DIAGNOSTIC FUNCTION

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



TOP-PANEL MAINTENANCE ACCESS

Easy access for maintenance.



OUTDOOR UNIT



CU-Z20AKR
CU-Z25AKR-1
CU-Z35AKR
CU-Z42AKR



CU-Z50AKR
CU-Z50AKR-1



CU-Z60AKR-1
CU-Z71AKR



CU-Z80YKR
CU-Z95AKR

DEVELOPER RZ SERIES Single -Split Type

CS-RZ25AKRW | CS-RZ35AKRW |
CS-RZ42AKRW | CS-RZ50AKRW



CS-RZ60AKRW | CS-RZ71AKRW |
CS-RZ80YKR



CS-RZ95AKR



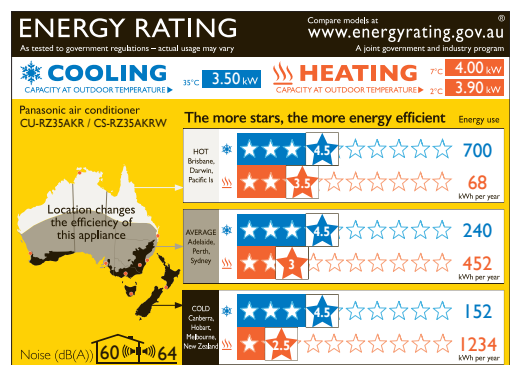
Standard



Wired
CZ-RD517C
(Optional)



**Network
Adaptor**
CZ-TACG1
(Optional)



ANTI-BACTERIAL FILTER

**POWERFUL**

MODEL		INDOOR UNIT	CS-RZ25AKRW		CS-RZ35AKRW		CS-RZ42AKRW		CS-RZ50AKRW		CS-RZ60AKRW		CS-RZ71AKRW		CS-RZ80YKR		NEW CS-RZ95AKR	
		120V / 1 Phase / 50Hz	CU-RZ25SAKR		CU-RZ35SAKR		CU-RZ42SAKR		CU-RZ50SAKR		CU-RZ60SAKR		CU-RZ71SAKR		CU-RZ80YKR		CU-RZ95SAKR	
Cooling / Heating Capacity	(min-max)	kW	2.50 (0.95-3.70) 3.00 (0.90-4.40)		3.50 (1.00-4.20) 4.00 (0.90-5.70)		4.20 (1.15-5.10) 5.00 (0.90-6.80)		5.00 (1.15-6.10) 6.00 (0.98-7.20)		6.00 (1.25-6.90) 6.50 (0.98-8.20)		7.10 (1.70-8.50) 8.00 (1.70-10.60)		8.00 (2.30-9.00) 9.00 (2.20-11.60)		9.50 (2.80-11.20) 10.30 (2.40-12.30)	
	(min-max)	Btu/h	8,530 (3,240-12,600) 10,200 (3,078-15,000)		11,900 (3,410-14,300) 13,600 (3,070-19,400)		14,300 (3,920-17,400) 17,100 (3,870-23,200)		17,100 (3,920-20,800) 20,500 (3,340-26,300)		20,500 (4,260-23,500) 22,200 (3,340-28,000)		24,200 (5,800-29,000) 27,300 (5,000-36,100)		27,300 (7,840-30,700) 30,700 (7,500-39,600)		32,400 (9,550-38,200) 35,100 (8,180-41,900)	
Air Flow	Indoor	L/s	188/200		193/202		193/202		208/228		328/339		352/367		367/377		407/420	
Dehumid		L/h	1.5		2.0		2.4		2.8		3.3		4.1		4.7		5.0	
Electrical Data	Running Current	A	2.55/2.90		3.60/3.85		5.00/5.45		6.50/7.30		7.90/8.00		8.80/8.90		10.10/9.80		12.00/11.70	
	Max Current	A	6.3		7.2		8.9		11.0		11.6		14.8		15.0		16.6	
	Power Input (min-max)	kW	0.58 (0.20-1.20) 0.65 (0.19-1.29)		0.82 (0.21-1.29) 0.87 (0.19-1.65)		1.18 (0.22-1.64) 1.30 (0.20-2.14)		1.51 (0.24-2.10) 1.72 (0.26-2.50)		1.85 (0.35-2.20) 1.89 (0.26-2.64)		2.06 (0.45-2.90) 2.09 (0.40-3.30)		2.39 (0.46-3.03) 2.34 (0.43-3.42)		2.84 (0.50-3.50) 2.78 (0.44-3.50)	
AEER / EER ACOP / COP		W/W	4.28/4.31 4.57/4.62		4.22/4.27 4.55/4.60		3.53/3.56 3.82/3.85		3.29/3.31 3.47/3.49		3.23/3.24 3.42/3.44		3.43/3.45 3.81/3.83		3.34/3.35 3.83/3.85		3.33/3.35 3.69/3.71	
Star Rating Residential / Commercial	Hot Climate	TCSPP HSPP	4.5/5.5 3.5/3.5		4.5/5.5 3.5/3.5		3.5/4.5 3.5/3.5		3.5/4.5 3.0/3.0		3.5/4.5 3.5/3.5		3.5/4.5 3.5/3.5		3.5/4.5 3.5/3.5		3.5/4.0 3.0/3.5	
	Average Climate	TCSPP HSPP	4.0/6.0 3.0/3.0		4.5/6.5 3.0/3.5		3.5/5.0 2.5/3.0		3.5/6.0 2.5/2.5		3.5/5.5 3.0/3.0		3.5/5.0 2.5/3.0		3.5/5.0 2.5/3.0		3.0/4.5 2.5/3.0	
	Cold Climate	TCSPP HSPP	4.0/7.0 2.5/2.5		4.5/8.0 2.5/3.0		3.5/6.0 2.0/2.5		3.5/8.0 2.0/2.0		3.5/7.0 2.0/2.5		3.5/6.0 2.0/2.5		3.5/6.0 2.0/2.5		3.5/5.5 2.0/2.5	
Noise Level	Sound Pressure Level* dB(A)	Indoor (H / L / O-L-O)	40/25/19 40/27/21		44/26/19 44/29/22		44/31/28 44/32/28		44/34/28 44/33/29		47/36/33 48/36/33		49/37/34 49/37/34		51/38/35 50/38/35		53/40/38 52/40/35	
		Outdoor (H / O-L-O)	48/43 49/44		49/44 50/45		49/44 51/46		48/43 49/44		49/44 51/46		54/49 54/49		55/50 55/50		55/50 55/50	
	Sound Power Level dB(A)	Indoor (H / L / O-L-O)	56/41/35 56/43/37		60/42/35 60/45/38		60/47/44 60/48/44		60/50/44 60/49/45		63/52/49 64/52/49		65/53/50 65/53/50		67/54/51 66/54/51		69/56/54 68/56/51	
Outdoor (H / O-L-O)		63/58 64/59		64/59 65/60		64/59 66/61		63/58 64/59		64/59 66/61		68/63 68/63		69/64 69/64		69/64 69/64		
Net Weight		Indoor (Outdoor)	kg		8 (25)		8 (31)		8 (31)		12 (35)		13 (45)		13 (51)		17 (55)	
Dimensions	Indoor (H x W x D)	mm	290 x 779 x 209		290 x 779 x 209		290 x 779 x 209		290 x 779 x 209		295 x 1,040 x 244		295 x 1,040 x 244		295 x 1,040 x 244		309 x 1,212 x 269	
	Outdoor (H x W x D)	mm	542 x 780 x 289		542 x 780 x 289		542 x 780 x 289		619 x 824 x 299		619 x 824 x 299		695 x 875 x 320		795 x 875 x 320		795 x 875 x 320	
Refrigerant 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 12.70 (1/2)		ø 12.70 (1/2)		ø 12.70 (1/2)		ø 15.88 (5/8)		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		20		20		20	
Pipe Length For Additional Gas		m	7.5		7.5		7.5		10.0		10.0		10.0		10.0		10.0	
Additional Gas Amount		g/m	10		10		10		15		15		25		25		25	
Power Supply			Outdoor		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		-10 ~ +46 -15 ~ +24	
Refrigerant Type			R32		R32		R32		R32		R32		R32		R32		R432	

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

Cooling (): Outdoor Unit
Heating

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 the specifications except star rating are based on average climate.

**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 EXPLANATION

ENERGY SAVINGS

INVERTER CONTROL

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



ECO MODE WITH A.I.

Auto-adjusts to the optimal ECO level based on heat load conditions and air conditioning cooling capacity.

ECO+AI

COMFORT

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.



SLEEP MODE

Delays off timer with temperature control for better sleep.



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

Horizontal airflow patterns can be manually adjusted.



* Applicable to CS-RZ25AKRW, CS-RZ35AKRW, CS-RZ42AKRW & CS-RZ50AKRW

QUIET MODE

Enjoy the comfort of running your air conditioner at night for a relaxing sleep.



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.



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.



* Applicable to CS-RZ60AKRW, CS-RZ71AKRW & CS-RZ80YKR.

AUTO CHANGEOVER (INVERTER)

In Auto Mode the unit will select if heating or cooling is required.



AIRFLOW DIRECTION CONTROL (UP & DOWN)

Vertical airflow patterns can be controlled with operation by remote, even from a distance.



* Applicable to CS-RZ25AKRW, CS-RZ35AKRW, CS-RZ42AKRW & CS-RZ50AKRW

CLEANER 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 as 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.



DEMAND RESPONSE ENABLING DEVICE (DRED)

Allows Electrical Utility Companies to regulate the power supply to the units if connected.



3RD PARTY CONNECTIVITY

Allows limited control from an external source when wired to do so.



LCD WIRELESS REMOTE CONTROL

Easy control of the unit from anywhere in the room.



WIRED REMOTE CONTROL

Control at the unit from fixed location where wired remote controller is installed.



Wireless LAN REMOTE CONTROL FOR INTERNET CONNECTION (OPTIONAL)

Control air conditioners remotely by turning your mobile device into a remote controller using internet connection.



* Network adaptor (C2-TACG1) is required

RELIABILITY

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.



LONG PIPING

Long piping offers more flexible installation options.



20m: CS-RZ25AKRW, CS-RZ35AKRW & CS-RZ42AKRW
30m: CS-RZ50AKRW, CS-RZ60AKRW, CS-RZ71AKRW & CS-RZ80YKR

BLUE FIN CONDENSER

Extra protection from the elements with a longer lasting coil.



SELF-DIAGNOSTIC FUNCTION

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



TOP-PANEL MAINTENANCE ACCESS

Easy access for maintenance.



OUTDOOR UNIT



CU-RZ25AKR
CU-RZ35AKR
CU-RZ42AKR



CU-RZ50AKR
CU-RZ60AKR



CU-RZ71AKR



CU-RZ80YKR
CU-RZ95AKR

FLOOR CONSOLE

PREMIER FLOOR CONSOLE Single- Split Type



CS-Z25UFWA | CS-Z35UFWA | CS-Z50UFWA

Wireless
(Standard)Wired
CZ-RD517C
(Optional)Network
Adaptor
CZ-TACG1 (Optional)

ENERGY RATING		
4.0★	HOT climate	2.5★
3.5★	AVERAGE climate	2.5★
3.5★	COLD climate	2.0★

*Star rating : CS-Z50UFWA (Residential)

ENERGY RATING		
4.5★	HOT climate	2.5★
5.5★	AVERAGE climate	2.0★
6.5★	COLD climate	2.0★

*Star rating : CS-Z50UFWA (Commercial)



MODEL			INDOOR UNIT (230V / 1 Phase / 50Hz)	OUTDOOR UNIT	CS-Z25UFWA	CS-Z35UFWA	CS-Z50UFWA
					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
	Max Current	A			5.9	8.0	11.4
	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		W/W			5.00 4.59	4.07 4.06	3.65 3.81
Star Rating Residential / Commercial	Hot Climate	TCSPP HSPF			4.0/4.5 2.5/2.0	3.5/4.5 2.5/2.5	4.0/4.5 2.5/2.5
	Average Climate	TCSPP HSPF			3.5/4.5 2.5/2.0	3.5/5.0 2.5/2.5	3.5/5.5 2.5/2.0
	Cold Climate	TCSPP HSPF			3.0/5.0 2.0/2.0	3.5/5.5 2.0/2.0	3.5/6.5 2.0/2.0
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(A)	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)	mm			600 x 750 x 207	600 x 750 x 207	600 x 750 x 207
	Outdoor (H x W x D)	mm			542 x 780 x 289	619 x 824 x 299	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

*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.

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

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 the specifications except star rating are based on average climate.

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 EXPLANATION

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 for a relaxing sleep.



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.



AUTO CHANGEOVER (INVERTER)

In Auto Mode the unit will select if heating or cooling is required.



MANUAL HORIZONTAL AIRFLOW DIRECTION CONTROL

Horizontal airflow patterns can be manually adjusted.



AIRFLOW DIRECTION CONTROL (UP & DOWN)

Vertical airflow patterns can be controlled with operation by remote, even from a distance.



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.



CLEANER AIR

nanoe™ X

nanoe™ X effectively deodorises and inhibits various pollutants 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.



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30m: CS-Z50UFWA

BLUE FIN CONDENSER

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TOP-PANEL MAINTENANCE ACCESS

Easy access for maintenance.



OUTDOOR UNIT



CU-Z25UBRA



CU-Z35UBRA



CU-Z50UBRA



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.

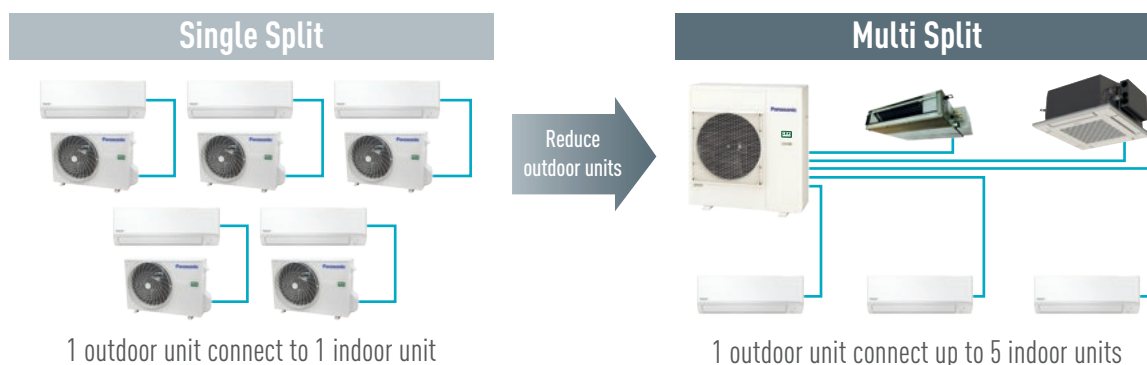


Multi-Split Air Conditioning System

Panasonic's multi-split air 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.

Space Saving

Space-saving installation with less outdoor units required



- As 1 outdoor unit is able to connect up to 5 indoor units, this provide flexible customisation according to the layout of your house.

Independent Operation Control

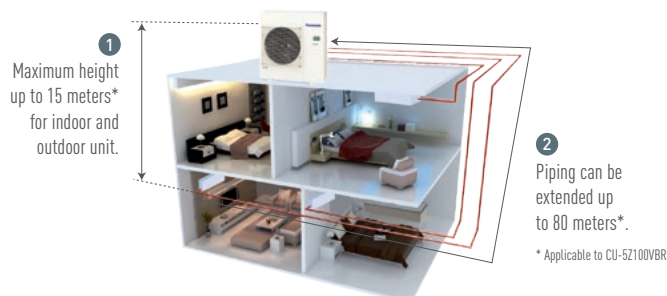
Outdoor unit connects to each indoor unit independently



- 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

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.

WALL-MOUNTED – AERO Z SERIES



Wireless Remote
Controller Included



CZ-RD517C Wired Remote
Controller (Optional)

Model No	CS-Z20AKRW	CS-Z25AKRW-1	CS-Z35AKRW	CS-Z42AKRW
Capacity	2.0kW	2.5kW	3.5kW	4.2kW ^{*1}

Model No	CS-Z50AKRW	CS-Z50AKRW-1	CS-Z60AKRW-1	CS-Z71AKRW
Capacity	5.0kW ^{*1}	5.0kW ^{*1}	6.0kW ^{*2}	7.1kW ^{*2*3}

WALL-MOUNTED – DEVELOPER RZ SERIES



Wireless Remote
Controller Included



CZ-RD517C Wired Remote
Controller (Optional)



CZ-TACG1 Network
Adaptor^{*5} (Optional)

Model No	CS-MRZ16WKR	CS-MRZ20WKR	CS-RZ25AKRW	CS-RZ35AKRW
Capacity	1.6kW	2.0kW	2.5kW	3.5kW

Model No	CS-RZ42AKRW	CS-RZ50AKRW	CS-RZ60AKRW	CS-RZ71AKRW
Capacity	4.2kW ^{*1}	5.0kW ^{*1}	6.0kW ^{*2}	7.1kW ^{*2*3}

ULTRA SLIM DUCTED



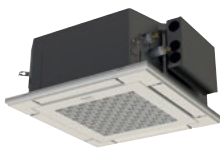
CZ-RD514C Wired Remote
Controller Included



CZ-TACG1 Network
Adaptor^{*5} (Optional)

Model No	CS-Z25UD3RAW	CS-Z35UD3RAW	CS-Z50UD3RAW	CS-Z60UD3RAW
Capacity	2.5kW	3.5kW	5.0kW ^{*1}	6.0kW ^{*2}

MINI CASSETTE WITH nanoe™ X



Panel CZ-KPY4



CZ-RWS3 + CZ-RWRY3
Wireless Remote
Controller (Optional)



CZ-RTCSB
Wired Remote Controller
(Optional)



CZ-RTC4
Wired Remote Controller
(Optional)



CZ-RTC6BL/ CZ-RTC6BLW
CONEX Wired Remote
Controller (Optional)



CZ-CAPWFC1
Network Adaptor^{*5}
(Optional)



CZ-CENSC1
ECONDNAVI Sensor Ready
(Optional)

Model No	S-25PY3E	S-36PY3E	S-50PY3E	S-60PY3E
Capacity	2.5kW ^{*1}	3.5kW ^{*1}	5.0kW ^{*1}	6.0kW ^{*2}

PREMIER SERIES FLOOR CONSOLE



Wireless Remote
Controller Included



CZ-TACG1 Network
Adaptor^{*5} (Optional)



CZ-RD517C Wired Remote
Controller (Optional)

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

^{*1} CZ-MA1PA is to be used to reduce the connection size on the indoor unit from 1/2" to 3/8". ^{*2} CZ-MA2PA is to be used to increase the connection size on the outdoor unit from 3/8" to 1/2".

^{*3} CZ-MA3PA is to be used to reduce the connection size on the indoor unit from 5/8" to 1/2". ^{*4} To enable demand response management, an optional accessory needs to be installed (CZ-CAP2).

^{*5} To connect Panasonic Comfort Cloud App, the CZ-TACG1 accessory is required for DEVELOPER RZ SERIES, FLOOR CONSOLE, SLIM DUCTED and MINI CASSETTE, and CZ-RTC6BLW or CZ-CAPWFC1 is required for MINI CASSETTE WITH nanoe™ X. Built-in Wi-Fi is only available for AERO Z SERIES model. Function availability may vary depending on models.

MODEL		Indoor Units Combination Range	Refrigerant Pipe Diameter			Pipe Extension					Indoor Unit Combinations				
			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	Ultra Slim Ducted	Floor Console
Up to 2 rooms	CU-2Z52VBR INDOOR UNITS: Possible Combination Patterns Must be within capacity range  5.2kW #4 Dimensions (HxWxD): 619 x 824(+70) x 299 mm Weight: 39 kg * At least two indoor units must be connected.	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	●			
											2.0	●			
											2.5	●	●	●	●
			Room B	ø 6.35	ø 9.52						3.5	●	●	●	●
											4.2	●			
											5.0	●	●	●	●
Up to 3 rooms	CU-3Z54VBR INDOOR UNITS: Possible Combination Patterns Must be within capacity range  5.4kW #4 Dimensions (HxWxD): 795 x 875(+95) x 320 mm Weight: 71 kg * At least two indoor units must be connected.	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	●			
											2.0	●			
			Room B	ø 6.35	ø 9.52						2.5	●	●	●	●*
											3.5	●	●	●	●*
			Room C	ø 6.35	ø 9.52						4.2	●			
											5.0	●	●	●	●*
Up to 4 rooms	CU-4Z71VBR INDOOR UNITS: Possible Combination Patterns Must be within capacity range  7.1kW #4 Dimensions (HxWxD): 795 x 875(+95) x 320 mm Weight: 72 kg * At least two indoor units must be connected.	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	●			
											2.0	●			
			Room B	ø 6.35	ø 9.52						2.5	●	●	●	●*
											3.5	●	●	●	●*
			Room C	ø 6.35	ø 9.52						4.2	●			
											5.0	●	●	●	●*
			Room D	ø 6.35	ø 9.52						6.0	●	●	●	

* Floor consoles require R32 LFL load considerations. Please refer to Table A on installation manual.
 *4 To enable demand response management, an optional accessory needs to be installed (CZ-CAP2)

OUTDOOR UNIT



Up to 2 rooms



CU-2Z52VBR

Up to 3 rooms

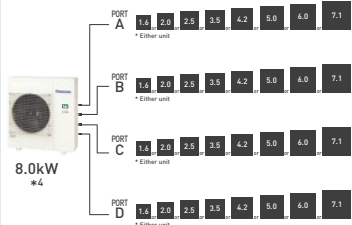
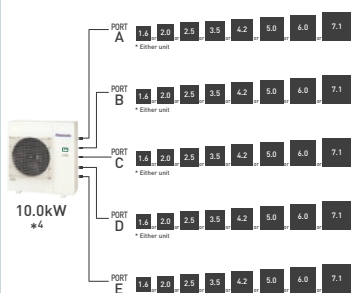


CU-3Z54VBR

Up to 4 rooms



CU-4Z71VBR

MODEL		Indoor Units Combination Range	Refrigerant Pipe Diameter			Pipe Extension					Indoor Unit Combinations									
			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	Ultra Slim Ducted	Floor Console					
Up to 4 rooms	CU-4Z80VBR INDOOR UNITS: Possible Combination Patterns Must be within capacity range  8.0kW *4 Dimensions (HxWxD): 999 x 940 x 340 mm Weight: 80 kg At least two indoor units must be connected.	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	●								
			Room B	ø 6.35	ø 9.52						2.0	●								
											2.5	●	●	●	●*					
											3.5	●	●	●	●*					
			Room C	ø 6.35	ø 9.52						4.2	●								
											5.0	●	●	●	●*					
			Room D	ø 6.35	ø 9.52						6.0	●	●	●						
											7.1	●								
Up to 5 rooms	CU-5Z100VBR INDOOR UNITS: Possible Combination Patterns Must be within capacity range  10.0kW *4 Dimensions (HxWxD): 999 x 940 x 340 mm Weight: 81 kg At least two indoor units must be connected.	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	●								
			Room B	ø 6.35	ø 9.52						2.0	●								
											2.5	●	●	●	●*					
											3.5	●	●	●	●*					
			Room C	ø 6.35	ø 9.52						4.2	●								
											5.0	●	●	●	●*					
			Room D	ø 6.35	ø 9.52						6.0	●	●	●						
											7.1	●								
Room E	ø 6.35	ø 9.52						6.0	●	●	●									
								7.1	●											

* Floor consoles require R32 LFL load considerations. Please refer to Table A on installation manual.

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

ACCESSORIES



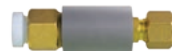
CZ-MA1PA

*1 CZ-MA1PA is to be used to reduce the connection size on the indoor unit from 1/2" to 3/8".



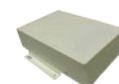
CZ-MA2PA

*2 CZ-MA2PA is to be used to increase the connection size on the outdoor unit from 3/8" to 1/2".



CZ-MA3PA

*3 CZ-MA3PA is to be used to reduce the connection size on the indoor unit from 5/8" to 1/2".



CZ-CAP2

*4 Demand response module CZ-CAP2.

OUTDOOR UNIT



Up to 4 rooms



CU-4Z80VBR

Up to 5 rooms



CU-5Z100VBR

INDOOR UNIT

MODEL			WALL-MOUNTED (AERO Z SERIES)							
			CS-Z20AKRW	CS-Z25AKRW-1	CS-Z35AKRW	CS-Z42AKRW	CS-Z50AKRW	CS-Z50AKRW-1	CS-Z60AKRW-1	CS-Z71AKRW
Capacity		kW	2.0	2.5	3.5	4.2	5.0	5.0	6.0	7.1
Power Source			Single Phase 230V, 50Hz							
Sound Pressure Level (H/L/Q-Lo)	Cooling	dB[A]	40/26/21	42/27/21	46/28/21	46/33/30	46/36/30	49/36/33	50/38/35	51/39/36
	Heating		41/27/23	42/29/23	46/31/24	46/34/30	46/36/30*	49/35/31	50/37/34	51/39/36
Sound Power Level (H/L/Q-Lo)	Cooling	dB[A]	56/42/37	58/43/37	62/44/37	62/49/46	62/52/46	65/52/49	66/54/51	67/55/52
	Heating		57/43/39	58/45/39	62/47/40	62/50/46	62/52/46*	65/51/47	66/53/50	67/55/52
Airflow	Cooling/Heating	L/s	178/195	188/200	193/202	193/202	208/228	328/328	337/358	352/367
Dimensions	Height	mm	290	290	290	290	290	295	295	295
	Width	mm	779	779	779	779	779	1,040	1,040	1,040
	Depth	mm	209	209	209	209	209	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 ^{*1}	ø 9.52 ^{*1}	ø 9.52 ^{*1}	ø 12.70 ^{*2}	ø 12.70 ^{*2*3}

*For connection to CU-Z25ZVBR, indoor Sound Pressure Level (Heating) is 46/35/31 and Sound Power Level (Heating) is 62/51/47.

MODEL			WALL-MOUNTED (DEVELOPER RZ SERIES)							
			CS-MRZ16WKR	CS-MRZ20WKR	CS-RZ25AKRW	CS-RZ35AKRW	CS-RZ42AKRW	CS-RZ50AKRW	CS-RZ60AKRW	CS-RZ71AKRW
Capacity		kW	1.6	2.0	2.5	3.5	4.2	5.0	6.0	7.1
Power Source			Single Phase 230V, 50Hz							
Sound Pressure Level (H/L/Q-Lo)	Cooling	dB[A]	41/27/24	42/27/24	42/27/21	46/28/21	46/33/30	46/36/30	49/38/35	51/39/36
	Heating		41/29/26	42/29/26	42/29/23	46/31/24	46/34/30	46/36/30*	50/38/35	51/39/36
Sound Power Level (H/L/Q-Lo)	Cooling	dB[A]	57/43/40	58/43/40	58/43/37	62/44/37	62/49/46	62/52/46	65/54/51	67/55/52
	Heating		57/45/42	58/45/42	58/45/39	62/47/40	62/50/46	62/52/46*	66/54/51	67/55/52
Airflow	Cooling/Heating	L/s	183/193	188/198	188/200	193/202	193/202	208/228	328/338	352/367
Dimensions	Height	mm	290	290	290	290	290	290	295	295
	Width	mm	779	779	779	779	779	779	1,040	1,040
	Depth	mm	209	209	209	209	209	209	244	244
Net Weight		kg	8	8	8	8	8	8	12	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}

*For connection to CU-Z25ZVBR, indoor Sound Pressure Level (Heating) is 46/35/31 and Sound Power Level (Heating) is 62/51/47.

MODEL			MINI CASSETTE WITH nanoe™ X			
			S-25PY3E	S-36PY3E	S-50PY3E	S-60PY3E
Capacity		kW	2.5	3.5	5.0	6.0
Power Source			Single Phase 230V, 50Hz			
Sound Pressure Level (H/L)	Cooling	dB[A]	33/27	36/27	41/29	45/33
	Heating		33/27	36/27	41/29	45/33
Sound Power Level (H)	Cooling	dB[A]	48	51	56	60
	Heating		48	51	56	60
Airflow	Cooling/Heating	L/s	142/142	158/158	200/200	233/233
Dimensions	Height	mm	243	243	243	243
	Width	mm	575	575	575	575
	Depth	mm	575	575	575	575
Net Weight		kg	15	15	15	15
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52 ^{*1}	ø 9.52 ^{*1}	ø 9.52 ^{*1}	ø 12.70 ^{*2}

*1 CZ-MA1PA is to be used to reduce the connection size on the indoor unit from 1/2" to 3/8".
*2 CZ-MA2PA is to be used to increase the connection size on the outdoor unit from 3/8" to 1/2".
*3 CZ-MA3PA is to be used to reduce the connection size on the indoor unit from 5/8" to 1/2".

INDOOR UNIT

MODEL			ULTRA SLIM DUCTED				FLOOR CONSOLE		
			CS-Z25UD3RAW	CS-Z35UD3RAW	CS-Z50UD3RAW	CS-Z60UD3RAW	CS-Z25UFRAW	CS-Z35UFRAW	CS-Z50UFRAW
Capacity	kW		2.5	3.5	5.0	6.0	2.5	3.5	5.0
Static pressure	Pa		15-43	15-44	15-49	15-51	15-43	15-44	15-49
Power Source			Single Phase 230V, 50Hz						
Sound Pressure Level (H/L)	Cooling	dB(A)	35/29	35/28	41/31	43/32	40/27	41/28	46/33
	Heating		36/29	37/29	41/32	43/34	40/27	41/27	48/35
Sound Power Level (H)	Cooling	dB(A)	51	51	57	59	56	57	62
	Heating		52	53	57	59	56	57	64
Airflow	Cooling/Heating	L/s	175/175	187/187	255/255	262/262	163/173	170/182	198/227
Dimensions	Height	mm	200	200	200	200	600	600	600
	Width	mm	750	750	750	750	750	750	750
	Depth	mm	640	640	640	640	207	207	207
Net Weight		kg	19	19	19	19	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
	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

OUTDOOR UNIT

MODEL			(50Hz)	CU-Z252VBR	CU-Z354VBR	CU-Z771VBR	CU-Z780VBR	CU-Z100VBR
Power Source				Single Phase 230V, 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(A)		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(A)		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
	Height	mm		619	795	795	999	999
Dimensions	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	[°C]		-10~+46	-10~+46	-10~+46	-10~+46	-10~+46
	Heating	[°C]		-15~+24**	-15~+24**	-15~+24**	-15~+24**	-15~+24**

** Additional Gas might be required for some models. Refer to Page 32 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

Deodorises frequently encountered odours

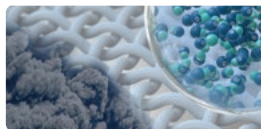
Odour causing substances such as cigarette smoke and garbage are removed to a hardly noticeable level.



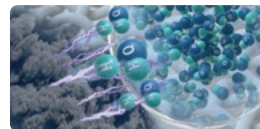
Acts on odour causing substances & deodorises them

nanoe[™]X particles, which are smaller than steam particles, penetrate into deepest parts of fibres allowing for highly effective deodorisation.

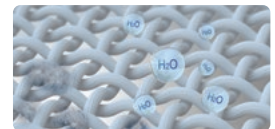
How nanoe[™]X Reduces Odour



nanoe[™]X reliably reaches odours embedded in fibres.

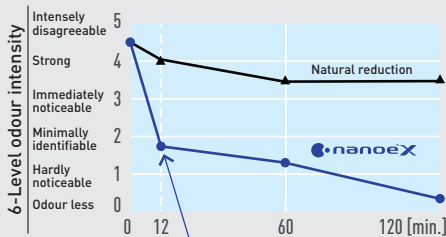


Hydroxyl radicals break down odour causing substances.



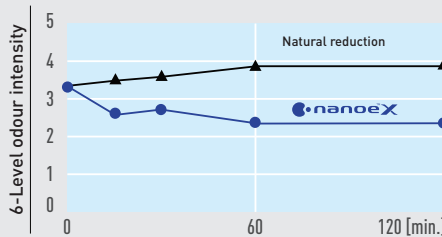
Odour is eliminated.

Cigarette Smoke Odour



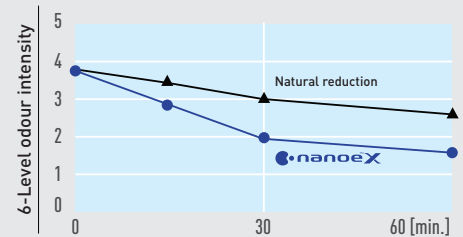
nanoe[™]X can reduced cigarette smoke odour intensity by 2.4 levels in 12 minutes.

Pet Odour



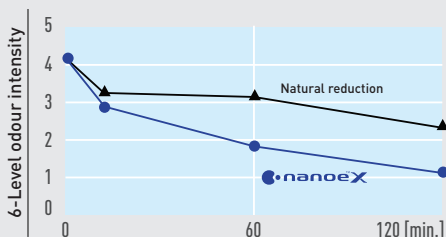
nanoe[™]X reduced pet odour intensity by 1.5 levels in 1 hour

Durian Odour



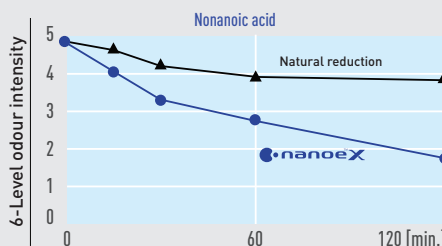
nanoe[™]X reduced durian odour intensity faster than natural reduction.

BBQ Odour



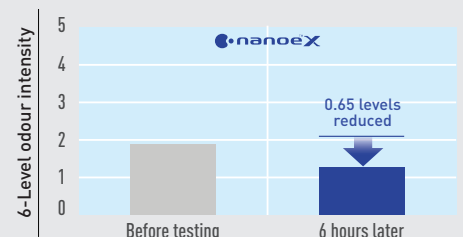
nanoe[™]X reduced BBQ odour intensity faster than natural reduction.

Sweat Odour



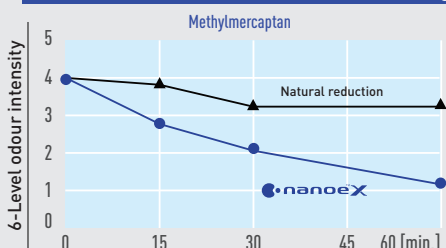
nanoe[™]X reduced sweat odour intensity massively in 1 hour.

Scalp Odour

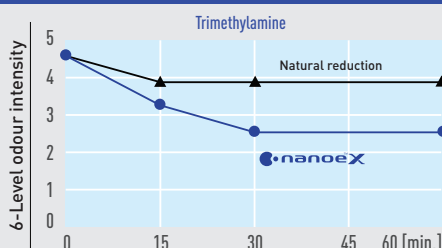


nanoe[™]X reduced scalp odour massively in 6 hours.

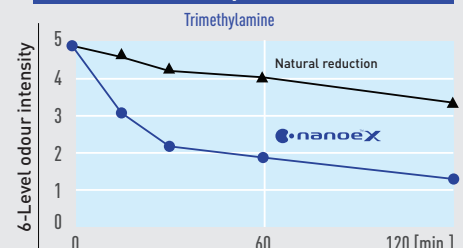
Garbage Odour



nanoe[™]X reduced garbage odour intensity in 0.5 hours.



Damp Odour



nanoe[™]X reduced damp odour intensity to a hardly noticeable level in 1 hour.

[Representative evidence]

** : Units based on Panasonic standards

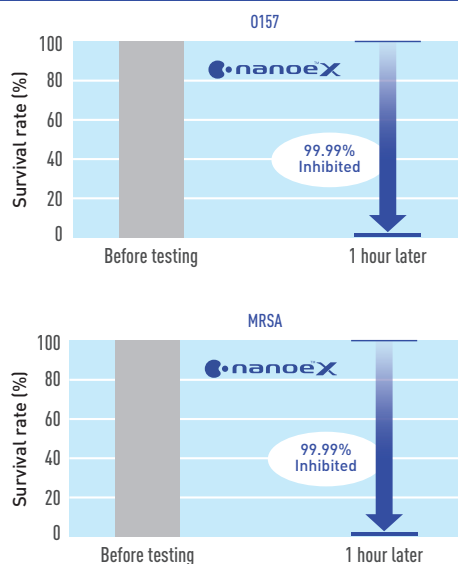
	Odours	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Adhered	Cigarette smoke odour	Odour intensity reduced by 2.4 levels	Approx. 23m ³	0.2	Panasonic Product Analysis Center	4AA33-160615-N04
	Pet odour	Odour intensity reduced by 1.5 levels	Approx. 23m ³	1	Panasonic Product Analysis Center	4AA33-160315-A34
	Durian odour	Odour intensity reduced by 1.0 levels	Approx. 23m ³	0.5	Panasonic Product Analysis Center	1V332-180402-K01
	BBQ odour	Odour intensity reduced by 1.2 levels	Approx. 23m ³	2	Panasonic Product Analysis Center	4AA33-151221-N01
	Sweat odour (Nonanoic acid)	Odour intensity reduced by 1.1 levels	Approx. 23m ³	1	Panasonic Product Analysis Center	Y16HM016
	Sweat odour (Hexanoic acid)	Odour intensity reduced by 2.6 levels	Approx. 23m ³	1	Panasonic Product Analysis Center	4AA33-160315-A35
	Scalp odour (Pillow cover)	Odour intensity reduced by 0.65 levels	Approx. 23m ³	6	[Supervision] Odour and Aroma Design Course, Department of Integrated Informatics, Faculty of Informatics, Daido University	
	Garbage odour (Methylmercaptan)	Odour intensity reduced by 1.2 levels	Approx. 23m ³	0.5	Panasonic Product Analysis Center	1V332-18220-K11
	Garbage odour (Trimethylamine)	Odour intensity reduced by 1.4 levels	Approx. 23m ³	0.5	Panasonic Product Analysis Center	1V332-180220-K12
	Damp odour (Triethylamine)	Odour intensity reduced by 1.7 levels	Approx. 23m ³	0.5	Panasonic Product Analysis Center	Y16RA002

Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoeTM X and nanoeTM inhibit activity or growth of viruses, but do not prevent infection. Deodorisation effect varies according to the environment (temperature and humidity), operation time, odour, and fabric types.

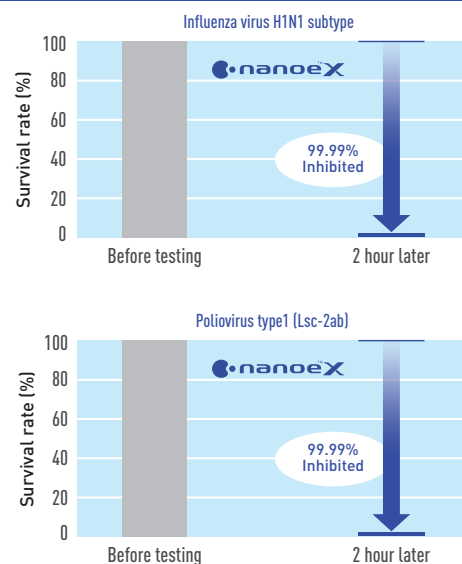
Inhibits activity of airborne, adhered bacteria and viruses

nanoeTM X inhibits the activity of airborne and adhered bacteria and viruses.

Adhered Bacteria



Adhered Viruses



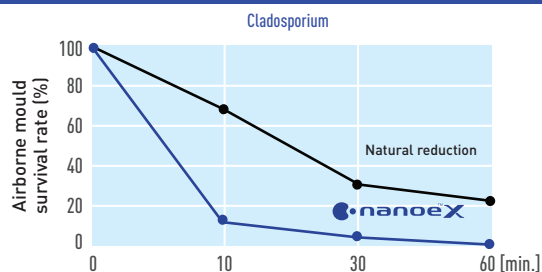
	Bacteria & viruses	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Airborne	Virus Bacteriophage ΦX174	99.7% inhibited	Approx. 25m ³	6	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria Staphylococcus aureus	99.9% inhibited	Approx. 25m ³	4	Kitasato Research Center for Environmental Science	2016_0279
Adhered	Virus Bacteriophage ΦX174	99.8% inhibited	Approx. 25m ³	8	Japan Food Research Laboratories	13001265005-01
	Bacteria Staphylococcus aureus	99.1% inhibited	Approx. 25m ³	8	Japan Food Research Laboratories	13044083003-01
Adhered Novel Coronavirus	SARS-CoV-2	99.9% inhibited	45L	2	Texcell France	1140-01 A1
	SARS-CoV-2	91.4% inhibited	6.7m ³	8	Texcell France	1140-01 C3
	SARS-CoV-2	99.7% inhibited	6.7m ³	24	Texcell France	1140-01 C3
Adhered virus	Influenza virus (H1N1 subtype)	99.9% inhibited	1m ³	2	Kitasato Research Center for Environmental Science	21_0084_1
	Feline calicivirus (Related form of norovirus)	99.9% inhibited	25L	2	Japan Food Research Laboratories	207031493-001
	Coxsackievirus (B6)	99.1% inhibited	45L	2	Kitasato Research Center for Environmental Science	22_0085
	Poliovirus type 1 (Lsc-2ab)	99.7% inhibited	45L	2	Kitasato Research Center for Environmental Science	22_0096
Adhered bacteria	Bacterium enterohemorrhagic escherichia coli (O157)	99.99% inhibited	45L	1	Japan Food Research Laboratories	208120880-001
	Methicillin-resistant staphylococcus aureus (MRSA)	99.99% inhibited	45L	1	Japan Food Research Laboratories	208120880-002
	Staphylococcus aureus	99.99% inhibited	1m ³	24	Kitasato Research Center for Environmental Science	20_0154_2
	Bacillus	99.6% inhibited	45L	0.5	Japan Food Research Laboratories	11000924001-01
	Micrococcus	99.9% inhibited	45L	2	Japan Food Research Laboratories	11000924001-02
	Serratia	99.9% inhibited	45L	2	Japan Food Research Laboratories	11000924001-03
	Kocuria	99.9% inhibited	45L	1	Japan Food Research Laboratories	11000922001-01

Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe[™] X and nanoe[™] inhibit activity or growth of viruses, but do not prevent infection.

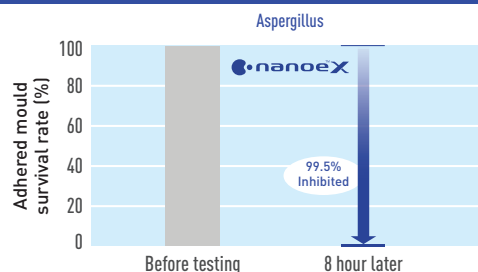
Inhibits activity of airborne mould and adhered mould

nanoe[™] X is effective in removing various airborne mould within a room as well as inhibiting the growth of adhered mould.

Airborne Mould



Adhered Mould



[Representative evidence] ** : Units based on Panasonic standards

	Mould	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Airborne	Cladosporium	99% inhibited	Approx. 23m ³	1	Japan Food Research Laboratories	205061541-001
	Alternaria	Inhibited	Approx. 23m ³	8	Japan Food Research Laboratories	18077411001-0201
Adhered	Aspergillus	Inhibited	Approx. 23m ³	8	Japan Food Research Laboratories	17145307001-0801
	Cladosporium	Inhibited	Approx. 23m ³	8	Japan Food Research Laboratories	17145307001-0901
	Eurotium	Inhibited	Approx. 23m ³	8	Japan Food Research Laboratories	17145307001-1001
	Fusarium	Inhibited	Approx. 23m ³	8	Japan Food Research Laboratories	17145307001-1101
	Mucor	Inhibited	Approx. 23m ³	8	Japan Food Research Laboratories	17145307001-1201
	Penicillium	Inhibited	Approx. 23m ³	8	Japan Food Research Laboratories	17145307001-1301
	Stachybotrys	Inhibited	Approx. 23m ³	8	Japan Food Research Laboratories	17145307001-1401
	Aspergillus	99.5% inhibited	45L	8	Japan Food Research Laboratories	11038081001-02
	Penicillium	99.5% inhibited	45L	4	Japan Food Research Laboratories	11028760001-01
	Fusarium	99.9% inhibited	45L	4	Japan Food Research Laboratories	11018692001-02
	Eurotium	99.9% inhibited	45L	8	Kitasato Research Center for Environmental Science	22_0455
	Mucor	99.9% inhibited	45L	8	Japan Food Research Laboratories	11038080001-01
	Stachybotrys	99.9% inhibited	45L	8	Kitasato Research Center for Environmental Science	22_0455
	Alternaria	99.9% inhibited	45L	16	Japan Food Research Laboratories	11038082001-01

Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection.

Inhibits pet-derived allergens and major allergens

[Representative evidence]

** : Units based on Panasonic standards

	Allergens	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Mites	Dermatophagoides pteronyssinus	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	4AA33-160615-F01
	Dermatophagoides farinae	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	4AA33-170301-F15
Mould	Alternaria (Sooty moulds)	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	4AA33-160615-F02
	Aspergillus (Aspergillus genus)	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	
	Candida	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	
	Malassezia	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	
Insect	Cockroach	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	4AA33-160615-F03
	Moth	Inhibited	Approx. 23m ³	24		
Animal	Dog (dander)	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	4AA33-160620-F01
	Cat (dander)	Inhibited	Approx. 23m ³	24		

Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection.

Inhibits pollens globally all year round

nanoe[™] X is effective in inhibiting a variety of pollens globally all year round. The inhibition effect has been confirmed for the 13 varieties of pollens, including those found in Europe and North America.

[Representative evidence]

** : Units based on Panasonic standards

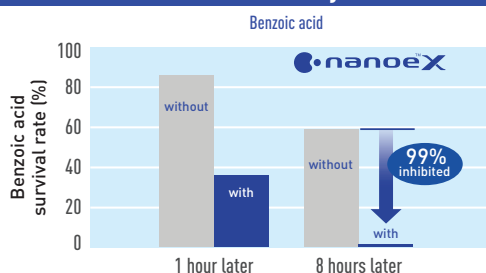
Pollen Allergens	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Cedar	97% inhibited	Approx. 23m ³	8	Panasonic Product Analysis Center	4AA33-151001-F01
Cypress	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	4AA33-151028-F01
Orchard grass	Inhibited	Approx. 23m ³	24		
Ragweed	Inhibited	Approx. 23m ³	24		
Alnus japonica	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	4AA33-160601-F01
Japanese white birch	Inhibited	Approx. 23m ³	24		
Artemisia	Inhibited	Approx. 23m ³	24		
Olive	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	4AA33-160601-F02
Juniper	Inhibited	Approx. 23m ³	24		
Casuarina	Inhibited	Approx. 23m ³	24		
Miscanthus	Inhibited	Approx. 23m ³	24		
Timothy grass	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	4AA33-160701-F01
Humulus japonicus	Inhibited	Approx. 23m ³	24	Panasonic Product Analysis Center	1V332-180301-F01

Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe[™] X and nanoe[™] inhibit activity or growth of viruses, but do not prevent infection.

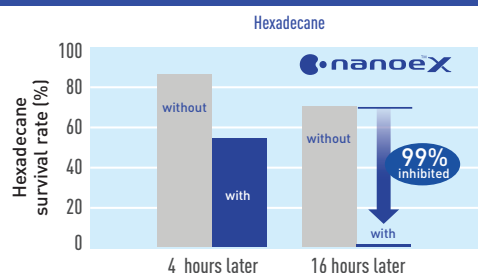
Inhibition of hazardous substances known to be found in PM2.5

Breakdown effects of aromatic carboxylic acid (benzoic acid) and paraffin (hexadecane), harmful substances, have been verified.

Aromatic Carboxylic Acid



Paraffin



[Representative evidence]

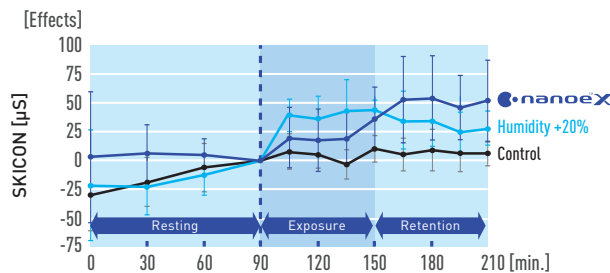
** : Units based on Panasonic standards

Hazardous substances		Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Pollutants	Paraffin (Hexadecane)	99% inhibited	Approx. 23m ³	16	Panasonic Product Analysis Center	Y17NF089
	Aromatic carboxylic acid (Benzoic acid)	99% inhibited	Approx. 23m ³	8	Panasonic Product Analysis Center	Y17NF096
Carcinogen	Benz [a] anthracene (BaA)	78% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF141
	Benzo [b] fluoranthene (BbF)	79% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF142
	Benzo [a] pyrene (BaP)	97% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF143
	Indeno [1,2,3-cd] pyrene (IcP)	97% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF144
	Dibenzo [a,h] anthracene (Dha)	81% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF145

Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection.

Moisturised skin, straighter & sleeker hair

nanoe™ X combines with natural sebum to coat the skin, leading to smooth, well-hydrated skin. Furthermore, the abundant moisture found in nanoe™ X hydrates the hair, contributing to straighter, sleeker hair.



nanoe™ X achieved an improvement in skin moisture content equivalent to a 20 percentage point increase in environmental humidity.

[Representative evidence]

** : Units based on Panasonic standards

Skin and hair	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Skin	Effective	Approx. 34m ³	1	Panasonic Product Analysis Center	USG-KT-14K-012-TM
	Effective	Standard household	28 days	FCG Research Institute, Inc.	19104
Hair	Effective	Approx. 46m ³	8 Hr. × 15 days	Panasonic Product Analysis Center	USD-KS-15S-009-TM

Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection.

Test reports of nanoe™ X

The effects of nanoe™ X have been proven through experiment tests conducted by institute and laboratory. It has also been verified by the relevant authority.

Indonesia
PT. Anugrah
Analisis Sempurna

Singapore
Temasek Polytechnic

Malaysia
SIRIM Berhad

Vietnam
Pasteur Institute

Thailand
King Mongkut's University
of Technology Thonburi

Notes

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Panasonic NZ Ltd
18 Sir Woolf Fisher Drive, Highbrook, Auckland 2013

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