Panasonic

AIR CONDITIONING

Residential
Air Conditioners
2023/24

QUALITY AIR FOR LIFE

A Better Life, A Better World

QUALITY AIR FOR LIFE

Air Conditioning

Air Ventilation

Air Purification

Air Connectivity

Air Conditioning
Ventilation
Panasonic Comfort Cloud
nanoe X

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.

04

AIR PURIFICATION
Purifies air and surfaces 24 hours a day

10

AIR CONNECTIVITY
Stay connected and in control anywhere, anytime

14
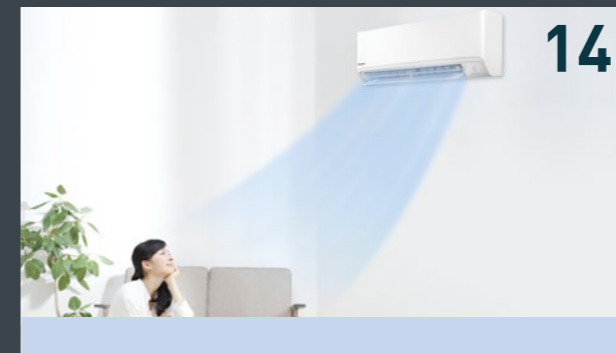
AIR CONDITIONING
Comfortable warm/cool air for you and your family

16

AIR EFFICIENCY
Eco-friendly and cost saving technologies for sustainable living

DAY

NIGHT

24-hour
nanoe X
Air Purification

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.

nanoe X
(Air Purification)

+

Panasonic
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 Purification[1]

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.

nanoe X

PURIFY WITH COOLING /HEATING OFF LOW ENERGY CONSUMPTION

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

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

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

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

*Energy consumption may vary depending on models.

## 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

Convenience at Your Command

Panasonic

works with **Hey Google**

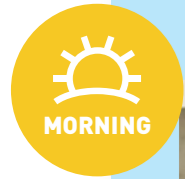Switch on nanoe™ X mode without cooling/heating while away from home.
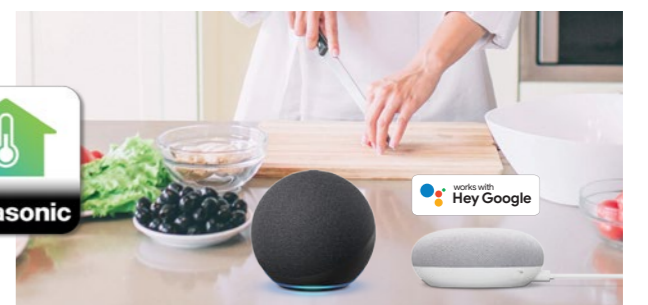
Turn ON/OFF your air conditioner with cooling/heating mode using Voice Control.

[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

WAKE UP REFRESHED

MORNING

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

Odours   Allergens   Bacteria & Viruses

AWAY FROM HOME

NOON

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

FAMILY EVENING MOMENTS

EVENING

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

NIGHT

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

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
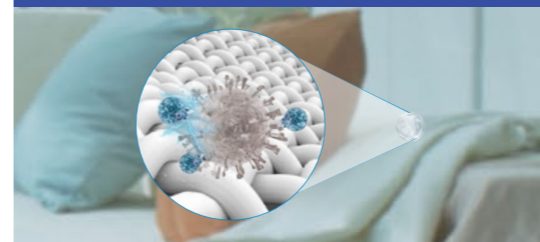
Fills Space Actively

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

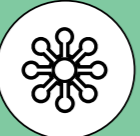The safety of nanoe™ X has been tested in labs and institutions.

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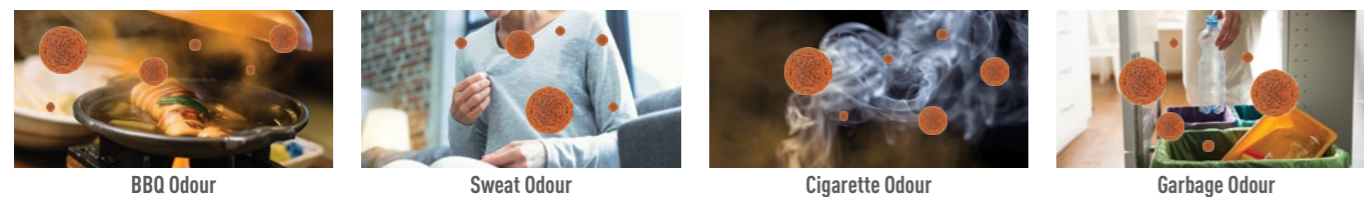www.panasonic.com/global/consumer/clean/hydroxyl/technology.html

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.

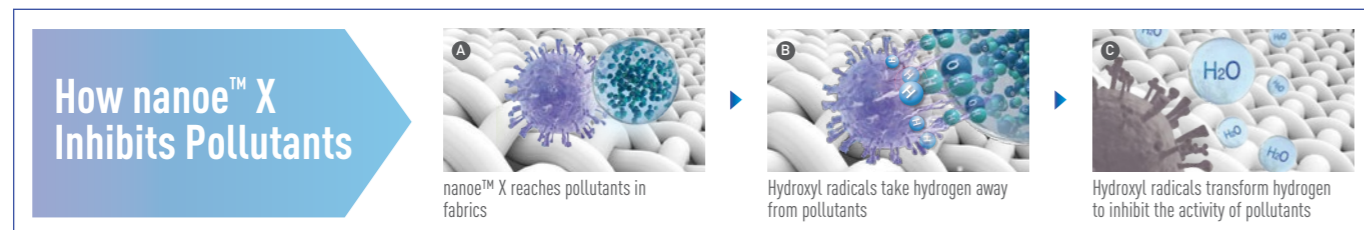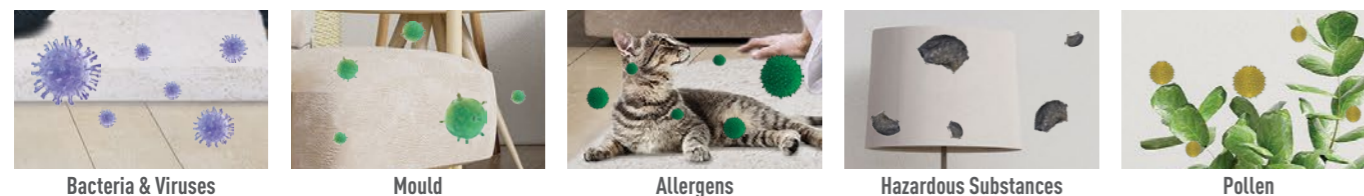| Deodorises	Inhibits 5 Types of Pollutants					Moisturises
Odours	Bacteria & Viruses	Mould	Allergens	Pollen	Hazardous Substances	Skin & Hair

Deodorises Various Types of Odours

nanoe™ X reduces strong, adhesive odours[1] 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

A — nanoe™ X reaches odour in fabric ▶ B — Hydroxyl radicals break down odour-causing substances ▶ C — H_2O — Odour is eliminated

Inhibits 5 Types of Pollutants

nanoe™ X inhibits airborne and adhered pollutants[2], providing better air quality for your loved ones.

Bacteria & Viruses   **Mould**   **Allergens**   **Hazardous Substances**   **Pollen**

How nanoe™ X Inhibits Pollutants

A — nanoe™ X reaches pollutants in fabrics ▶ B — Hydroxyl radicals take hydrogen away from pollutants ▶ C — H_2O — Hydroxyl radicals transform hydrogen to inhibit the activity of pollutants

[1] Please refer to page 46   [2] Please refer to page 47   [3] Please 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
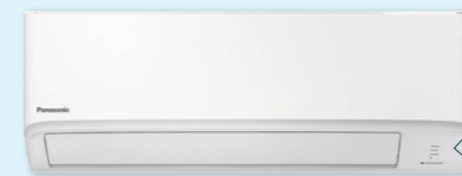
Easy connectivity to Panasonic Comfort Cloud and removes the need to purchase and install optional network adaptor

DEVELOPER RZ SERIES WITH OPTIONAL NETWORK ADAPTOR

Optional Network Adaptor (CZ-TACG1)
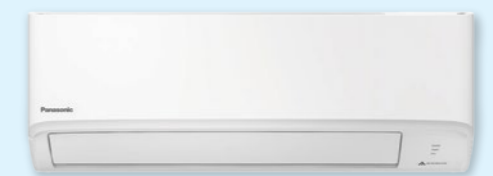
Optional network adaptor is required

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

- Living Room
- Master Bedroom
- Children Room
- Dining Room

Requirements for Connecting with Panasonic Comfort Cloud App

Compatible Device and Browsers
1. iOS 9.0 or above
2. Android™ 5.0 Lollipop or later

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.

Download Free App

*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

works with Hey Google

Panasonic Comfort Cloud App

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

Panasonic 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

Hey Google, set the living room air conditioner to cool

Ok, changing living room air conditioner to cool

Hey Google, turn off the bedroom air conditioner

Ok, turning off the bedroom air conditioner

Living Room
COOL MODE ON

Bedroom
AC OFF

Contactless Command for Your Convenience

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

Hey Google, turn on the living room air conditioner

Ok, turning on the living room air conditioner

Living Room
ON

TURN ON/OFF AIR CONDITIONER

Additional help when you have a hectic day
Conveniently turn ON/OFF air conditioner when your hands are full.

Hey Google, set the living room air conditioner to auto

Ok, changing the living room air conditioner to auto

CHANGE MODE

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

"Alexa, set living room air conditioner to 25°C."

"Living room is set to 25°C."

ADJUST TEMPERATURE

Easy control for uninterrupted quality time
Adjust air conditioner temperature for your family comfort with a simple voice command.

"Alexa, what is the living room air conditioner set to?"

"The AC is set to 18°C."

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
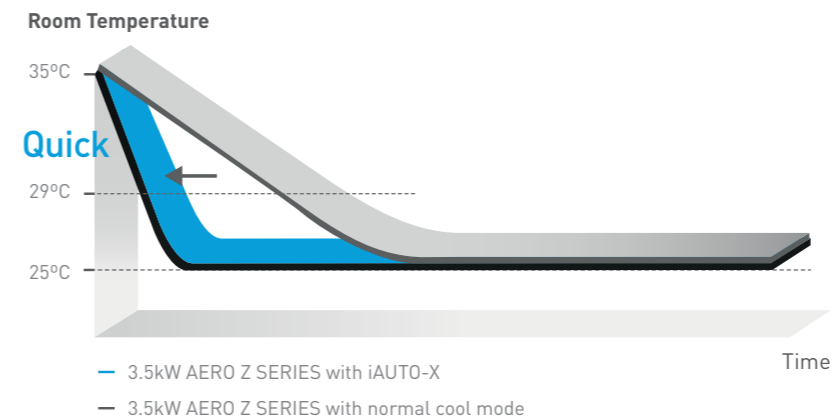
Download on the App Store

GET IT ON Google Play

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

Faster Cooling with iAUTO-X[1]

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.
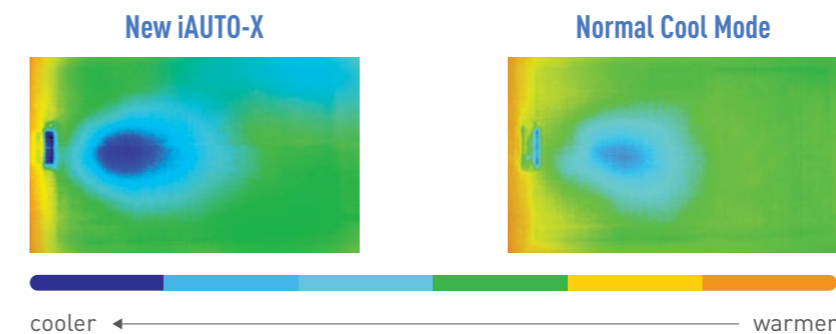
iAuto-X
INTELLIGENT. DYNAMIC. COOL.

Room Temperature

Quick

35°C

29°C

25°C

Time

— 3.5kW AERO Z SERIES with iAUTO-X
— 3.5kW AERO Z SERIES with normal cool mode

25% COOLER FASTER *

New iAUTO-X

Normal Cool Mode

cooler ← → warmer

Concentrated airflow cools instantly. Room is evenly cooled.

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

* 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:16.6m^2]
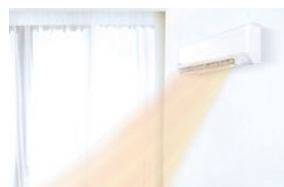The effect differs according to conditions in installation and usage.

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

warmer ———————► cooler

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

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.
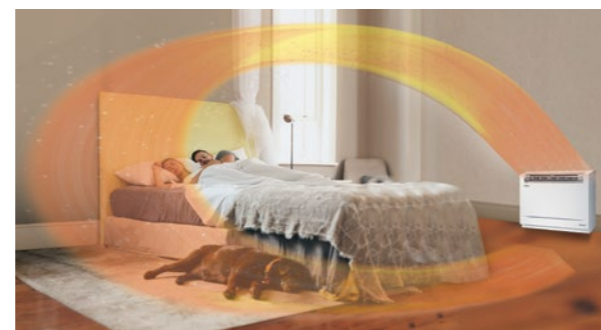

Heating
- Upward and downward air flow uniformly warms the whole room, so even your feet are kept comfortably warm during colder weather.

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-Z50XKRW-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.
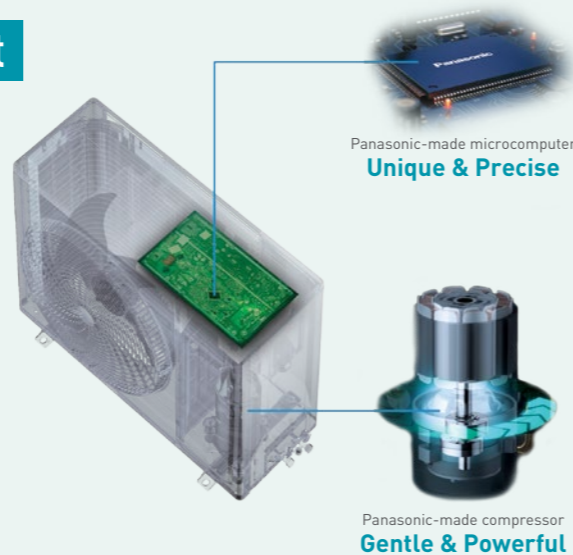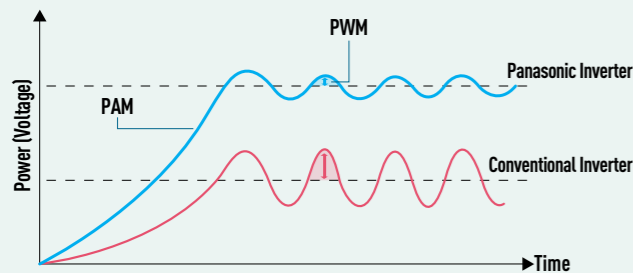
Powerful Performance with Efficiency

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.

Panasonic-made microcomputer
Unique & Precise

PWM

Panasonic Inverter

PAM

Conventional Inverter

Power (Votage)

Time

Panasonic-made compressor
Gentle & Powerful

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.
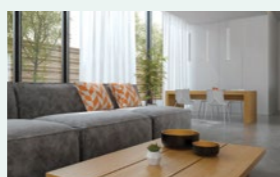
|			
Fast cooling/heating at start-up	**Maintain a stable set temperature**	**Wide output range**	**Quiet operation**

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.
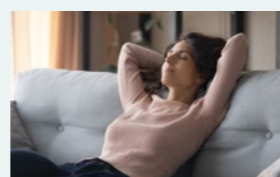
Cut Down on Waiting Time

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

R32 REFRIGERANT

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	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

AI ECONAVI

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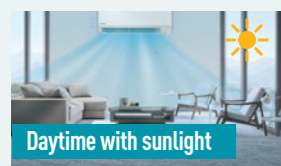
- Requires Fast Cooling
  ECO Mode with A.I. prioritises on maximising cooling comfort while saving energy through ECO Mode.

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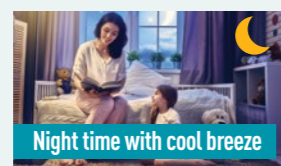
- Does not require Fast Cooling
  ECO Mode with A.I. prioritises on maximising energy savings over cooling comfort.

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.

UP TO 20%* ENERGY SAVING AI ECONAVI
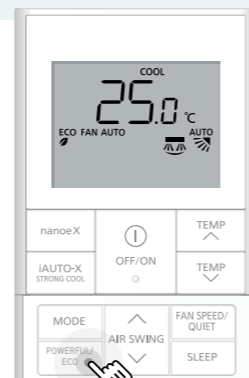
*Comparison of ECO Mode & normal mode by using 3.5kW Inverter Model

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 community[1].

GOOD DESIGN AWARD 2020

[1] Good Design Award 2020 applicable to AERO Z SERIES [(2.5kW-4.2kW), (5.0kW for CS-Z50XKRW)] and DEVELOPER RZ SERIES (2.5kW-5.0kW).

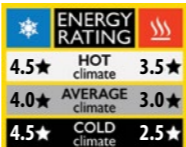## WALL-MOUNTED — AERO Z SERIES Single -Split Type

CS-Z20XKRW | CS-Z25XKRW-1 | CS-Z35XKRW | CS-Z42XKRW | CS-Z50XKRW

Wireless (Standard)

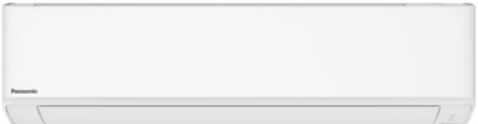Wired CZ-RD517C (Optional)

ENERGY RATING
	HOT climate	AVERAGE climate	COLD climate
❄	4.5★	4.0★	4.5★
☀	3.5★	3.0★	2.5★

*Star rating : CS-Z35XKRW (Residential)

CS-Z50XKRW-1 | CS-Z60XKRW-1 | CS-Z71XKRW | CS-RZ80YKR

Wireless (Standard)

Wired CZ-RD517C (Optional)

ENERGY RATING
	HOT climate	AVERAGE climate	COLD climate
❄	5.5★	6.5★	7.5★
☀	3.5★	3.5★	3.0★

*Star rating : CS-Z35XKRW (Commercial)

nanoe X | BUILT-IN | iAuto X (INTELLIGENT. DYNAMIC. COOL.) | AEROWINGS | INVERTER | AI ECONAVI

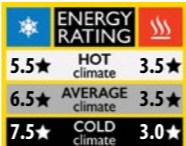| MODEL	INDOOR UNIT (240V / 1 Phase / 50Hz)		CS-Z20XKRW	CS-Z25XKRW-1	CS-Z35XKRW	CS-Z42XKRW	CS-Z50XKRW	CS-Z50XKRW-1	CS-Z60XKRW-1	CS-Z71XKRW	CS-RZ80YKR
	OUTDOOR UNIT		CU-Z20XKR	CU-Z25XKR-1	CU-Z35XKR	CU-Z42XKR	CU-Z50XKR	CU-Z50XKR-1	CU-Z60XKR-1	CU-Z71XKR	CU-RZ80YKR
Cooling / Heating Capacity	(min-max)	kW	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) 5.10 (0.90-6.80)	5.00 (1.25-6.70) 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)
	(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) 17,400 (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 (5,800-33,400)	24,200 (5,800-29,000) 27,300 (5,800-36,100)	27,300 (7,840-30,700) 30,700 (7,500-39,600)
Air Flow	Indoor	L/s	178/195	188/200	193/202	193/202	208/228	328/328	337/359	352/367	367/377
Dehumid		L/h	1.3	1.5	2.0	2.4	2.8	2.8	3.3	4.1	4.7
Electrical Data	Running Current	A	1.95/2.55	2.50/3.20	3.50/3.80	5.00/5.70	6.50/7.30	5.60/6.10	7.10/7.80	8.80/9.90	11.30/11.40
	Max Current	A	4.8	6.4	7.2	8.9	11.0	10.8	13.2	14.8	15.8
	Power Input (min-max)	kW	0.45 (0.22-0.80) 0.60 (0.19-1.10)	0.57 (0.22-1.20) 0.73 (0.19-1.29)	0.80 (0.22-1.29) 0.86 (0.19-1.65)	1.18 (0.24-1.64) 1.36 (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 (0.40-3.30)	2.44 (0.46-3.10) 2.46 (0.44-3.60)
AEER / EER ACOP / COP		W/W W/W	4.47/4.56 4.60/4.67	4.32/4.39 4.33/4.38	4.33/4.38 4.61/4.65	3.53/3.56 3.73/3.75	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	3.26/3.28 3.64/3.66
Star Rating Residential / Commercial	Hot Climate	TCSPF HSPF	4.5/5.5 3.5/3.5	4.5/6.0 3.0/3.0	4.5/5.5 3.5/3.5	3.5/4.5 3.0/3.0	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	3.5/4.0 3.5/3.5
	Average Climate	TCSPF HSPF	3.5/5.5 3.0/3.0	4.0/6.5 2.5/3.0	4.0/6.5 3.0/3.5	3.5/5.0 2.5/2.5	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
	Cold Climate	TCSPF HSPF	3.5/6.5 2.5/2.5	4.0/8.0 2.0/2.5	4.5/7.5 2.5/3.0	3.5/6.0 2.0/2.0	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
Noise Level	Sound Pressure Level*² dB(A) — Indoor (H / L / Q-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
	Outdoor (H / Q-Lo)		46/41 47/42	48/43 49/44	49/44 50/45	49/44 51/46	48/43 49/44	48/43 49/44	53/48 53/48	54/49 54/49	55/50 55/50
	Sound Power Level dB(A) — Indoor (H / L / Q-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
	Outdoor (H / Q-Lo)		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
Net Weight	Indoor (Outdoor)	kg	8 (25)	8 (25)	8 (30)	8 (31)	8 (35)	12 (35)	13 (45)	13 (45)	13 (60)
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
	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	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	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)	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)
Pipe Extension Length	Min ~ Max (m)		3~20	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	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
Additional Gas Amount		g/m	10	10	10	10	15	15	15	25	25
Power Supply			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
Refrigerant Type			R32	R32	R32	R32	R32	R32	R32	R32	R32

*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	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 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.

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.

AIRFLOW DIRECTION CONTROL (UP & DOWN)
Vertical airflow patterns can be controlled with operation by remote, even from a distance.
*Applicable to CS-Z20XKRW, CS-Z25XKRW-1, CS-Z35XKRW, CS-Z42XKRW & CS-Z50XKRW

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-Z50XKRW-1, CS-Z60XKRW-1, CS-Z71XKRW & CS-RZ80YKR

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.

MANUAL HORIZONTAL AIRFLOW DIRECTION CONTROL
Horizontal airflow patterns can be manually adjusted.
*Applicable to CS-Z20XKRW, CS-Z25XKRW-1, CS-Z35XKRW, CS-Z42XKRW & CS-Z50XKRW

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.

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.

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

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.

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

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

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 (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.

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

TOP-PANEL MAINTENANCE ACCESS
Easy access for maintenance.

LONG PIPING
Long piping offers more flexible installation options.
20m: CS-Z20XKRW, CS-Z25XKRW-1, CS-Z35XKRW & CS-Z42XKRW
30m: CS-Z50XKRW, CS-Z50XKRW-1, CS-Z60XKRW-1, CS-Z71XKRW & CS-RZ80YKR.

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

OUTDOOR UNIT

Blue Fin Condenser | R32 REFRIGERANT | DRED ready

CU-Z20XKR
CU-Z25XKR-1
CU-Z35XKR

CU-Z42XKR
CU-Z50XKR
CU-Z50XKR-1

CU-Z60XKR-1
CU-Z71XKR

CU-RZ80YKR

WALL-MOUNTED — DEVELOPER RZ SERIES Single -Split Type

CS-RZ25XKRW | CS-RZ35XKRW | CS-RZ42XKRW | CS-RZ50XKRW

Wireless (Standard)

Wired CZ-RD517C (Optional)

Network Adaptor CZ-TACG1 (Optional)

ENERGY RATING

	HOT climate	
4.5★		3.5★
4.0★	AVERAGE climate	3.0★
4.5★	COLD climate	2.5★
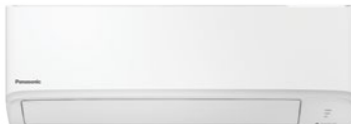
*Star rating: CS-RZ35XKRW (Residential)

CS-RZ60XKRW | CS-RZ71XKRW | CS-RZ80YKR

Wireless (Standard)

Wired CZ-RD517C (Optional)

Network Adaptor CZ-TACG1 (Optional)

ENERGY RATING

	HOT climate	
5.5★		3.5★
6.5★	AVERAGE climate	3.5★
7.5★	COLD climate	3.0★

*Star rating: CS-RZ35XKRW (Commercial)

ANTI-BACTERIAL FILTER · **AEROWINGS** · **INVERTER** · **AI ECONAVI**

MODEL			CS-RZ25XKRW	CS-RZ35XKRW	CS-RZ42XKRW	CS-RZ50XKRW	CS-RZ60XKRW	CS-RZ71XKRW	CS-RZ80YKR
INDOOR UNIT (240V / 1 Phase / 50Hz) OUTDOOR UNIT			CU-RZ25XKR	CU-RZ35XKR	CU-RZ42XKR	CU-RZ50XKR	CU-RZ60XKR	CU-RZ71XKR	CU-RZ80YKR
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) 5.10 (0.90-6.80)	5.00 (1.15-6.10) 6.00 (0.98-7.70)	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)
	(min-max)	Btu/h	8,530 (3,240-12,600) 10,200 (3,070-15,000)	11,900 (3,410-14,300) 13,600 (3,070-19,400)	14,300 (3,920-17,400) 17,400 (3,070-23,200)	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 (5,800-36,100)	27,300 (7,840-30,700) 30,700 (7,500-39,600)
Air Flow	Indoor	L/s	188/200	193/202	193/202	208/228	328/339	352/367	367/377
Dehumid		L/h	1.5	2.0	2.4	2.8	3.3	4.1	4.7
Electrical Data	Running Current	A	2.50/2.80	3.50/3.80	5.00/5.70	6.50/7.30	7.90/8.00	8.80/8.90	10.10/9.80
	Max Current	A	6.4	7.2	8.9	11.0	11.6	14.8	15.0
	Power Input (min-max)	kW	0.57 (0.22-1.20) 0.66 (0.19-1.29)	0.80 (0.22-1.29) 0.86 (0.19-1.65)	1.18 (0.24-1.64) 1.36 (0.20-2.04)	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)
AEER / EER ACOP / COP		W/W W/W	4.32/4.39 4.63/4.69	4.33/4.38 4.61/4.65	3.53/3.56 3.73/3.75	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
Star Rating Residential/ Commercial	Hot Climate	TCSPF HSPF	4.5/6.0 3.5/3.5	4.5/5.5 3.5/3.5	3.5/4.5 3.0/3.0	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
	Average Climate	TCSPF HSPF	4.0/6.5 3.0/3.0	4.0/6.5 3.0/3.5	3.5/5.0 2.5/2.5	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
	Cold Climate	TCSPF HSPF	4.0/8.0 2.5/2.5	4.5/7.5 2.5/3.0	3.5/6.0 2.0/2.0	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
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	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
		Outdoor (H / Q-Lo)	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
	Sound Power Level dB(A)	Indoor (H / L / Q-Lo)	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
		Outdoor (H / Q-Lo)	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
Net Weight	Indoor (Outdoor)	kg	8 (25)	8 (30)	8 (31)	8 (35)	12 (35)	13 (45)	13 (51)
Dimensions	Indoor (H x W x D) Outdoor (H x W x D)	mm mm	290 x 779 x 209 542 x 780 x 289	290 x 779 x 209 542 x 780 x 289	290 x 779 x 209 619 x 824 x 299	290 x 779 x 209 619 x 824 x 299	295 x 1,040 x 244 619 x 824 x 299	295 x 1,040 x 244 695 x 875 x 320	295 x 1,040 x 244 795 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	10.0	10.0	10.0	10.0
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.

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	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 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.

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-RZ25XKRW, CS-RZ35XKRW, CS-RZ42XKRW & CS-RZ50XKRW

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-RZ60XKRW, CS-RZ71XKRW & 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-RZ25XKRW, CS-RZ35XKRW, CS-RZ42XKRW & CS-RZ50XKRW

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 (CZ-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-RZ25XKRW, CS-RZ35XKRW & CS-RZ42XKRW
30m: CS-RZ50XKRW, CS-RZ60XKRW, CS-RZ71XKRW & 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.

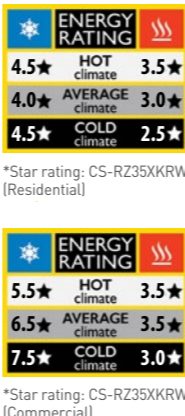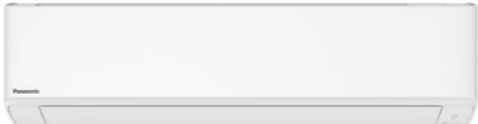**TOP-PANEL MAINTENANCE ACCESS**
Easy access for maintenance.

OUTDOOR UNIT

Blue Fin Condenser · R32 REFRIGERANT · DRED ready (DEMAND RESPONSE ENABLING DEVICE)

CU-RZ25XKR
CU-RZ35XKR

CU-RZ42XKR
CU-RZ50XKR
CU-RZ60XKR

CU-RZ71XKR

CU-RZ80YKR

FLOOR CONSOLE
PREMIER FLOOR CONSOLE Single- Split Type

ENERGY RATING

❄ COOLING	🔥 HEATING
4.0★ HOT climate	2.5★
3.5★ AVERAGE climate	2.5★
3.5★ COLD climate	2.0★

*Star rating : CS-Z50UFRAW (Residential)

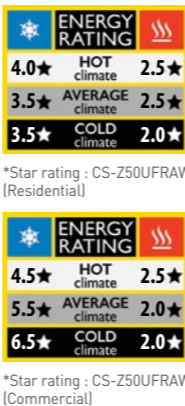| ❄ COOLING	🔥 HEATING
4.5★ HOT climate	2.5★
5.5★ AVERAGE climate	2.0★
6.5★ COLD climate	2.0★

*Star rating : CS-Z50UFRAW (Commercial)

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

CS-Z25UFRAW | CS-Z35UFRAW | CS-Z50UFRAW

nanoe X · INVERTER

MODEL	INDOOR UNIT (240V / 1 Phase / 50Hz)			CS-Z25UFRAW	CS-Z35UFRAW	CS-Z50UFRAW
	OUTDOOR UNIT			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 COP			W/W W/W	5.00 4.59	4.07 4.06	3.65 3.81
Star Rating Residential / Commercial	Hot Climate	TCSPF 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	TCSPF 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	TCSPF 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)		38/26/20 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) Outdoor (H x W x D)		mm 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

*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	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 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 odour 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 (CZ-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-Z25UFRAW & CS-Z35UFRAW
30m: CS-Z50UFRAW

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

Blue Fin Condenser · R32 REFRIGERANT · DRED ready

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

Single Split	Multi Split

Reduce outdoor units
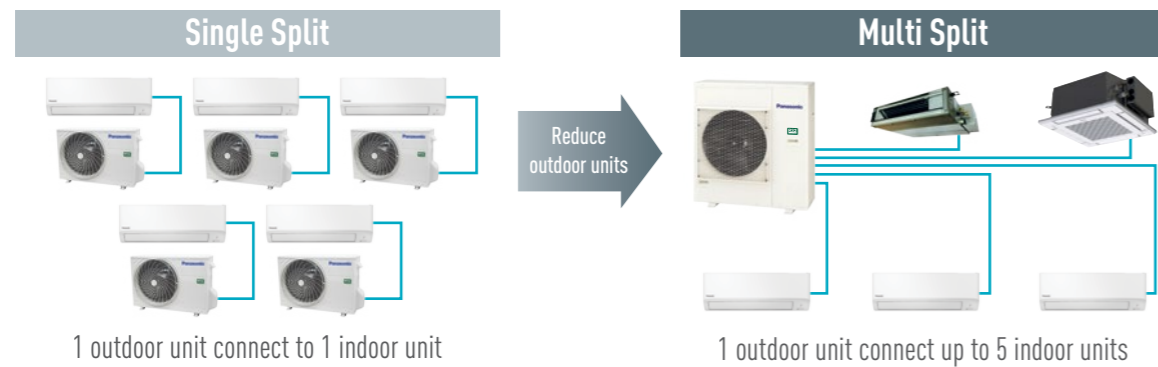
1 outdoor unit connect to 1 indoor unit

1 outdoor unit connect up to 5 indoor units

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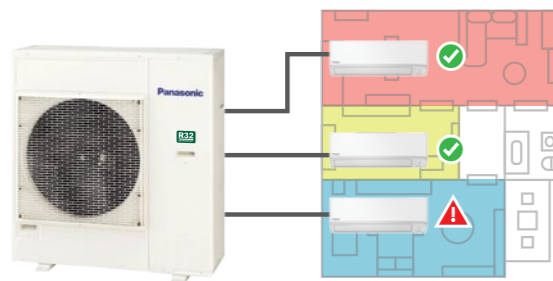
- Able to adjust the operation settings for each indoor unit separately. If one indoor unit is malfunctions, other indoor units can continue to operate by provide cooling comfort to the rooms.

Flexible Installation

The multi-split system accommodates long pipelines up to 80 meters
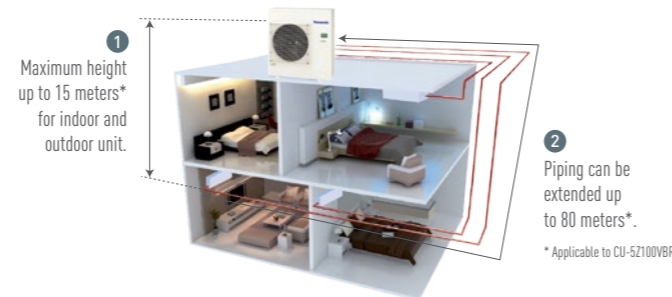
❶ Maximum height up to 15 meters* for indoor and outdoor unit.

❷ Piping can be extended up to 80 meters*.

* Applicable to CU-5Z100VBR

- 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-Z20XKRW	CS-Z25XKRW-1	CS-Z35XKRW	CS-Z42XKRW
Capacity	2.0kW	2.5kW	3.5kW	4.2kW*¹

Model No	CS-Z50XKRW	CS-Z50XKRW-1	CS-Z60XKRW-1	CS-Z71XKRW
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-RZ25XKRW	CS-RZ35XKRW
Capacity	1.6kW	2.0kW	2.5kW	3.5kW

Model No	CS-RZ42XKRW	CS-RZ50XKRW	CS-RZ60XKRW	CS-RZ71XKRW
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-RTC5B 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 ECONAVI 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
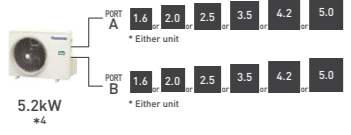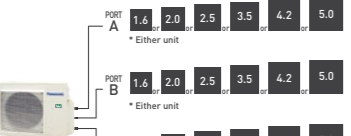
Wireless Remote Controller Included

CZ-RD517C Wired Remote Controller (Optional)

CZ-TACG1 Network Adaptor*⁵ (Optional)

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

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*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.

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CU-2Z52VBR

INDOOR UNITS: Possible Combination Patterns
Must be within capacity range

Up to **2 rooms**

5.2kW *4

PORT A — 1.6 2.0 2.5 3.5 4.2 5.0 * Either unit
PORT B — 1.6 2.0 2.5 3.5 4.2 5.0 * Either unit

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

* At least two indoor units must be connected.

Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Max Pipe Length (1 room)	Max Pipe Length (Total)	Max Chargeless Length	Additional Gas	Max Height	Type Capacity [kW class]	Wall-Mounted	Cassette	Ultra Slim Ducted	Floor Console
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	●	●	●	●
									3.5	●	●	●	●
Make sure to keep combinations within this range.	Room B	ø 6.35	ø 9.52						4.2	●			
									5.0	●	●	●	●

CU-3Z54VBR

INDOOR UNITS: Possible Combination Patterns
Must be within capacity range

Up to **3 rooms**

5.4kW *4

PORT A — 1.6 2.0 2.5 3.5 4.2 5.0 * Either unit
PORT B — 1.6 2.0 2.5 3.5 4.2 5.0 * Either unit
PORT C — 1.6 2.0 2.5 3.5 4.2 5.0 * Either unit

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

* At least two indoor units must be connected.

Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Max Pipe Length (1 room)	Max Pipe Length (Total)	Max Chargeless Length	Additional Gas	Max Height	Type Capacity [kW class]	Wall-Mounted	Cassette	Ultra Slim Ducted	Floor Console
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	●	●	●	●
Make sure to keep combinations within this range.	Room C	ø 6.35	ø 9.52						4.2	●			
									5.0	●	●	●	●

CU-4Z71VBR

INDOOR UNITS: Possible Combination Patterns
Must be within capacity range

Up to **4 rooms**

7.1kW *4

PORT A — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 * Either unit
PORT B — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 * Either unit
PORT C — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 * Either unit
PORT D — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 * Either unit

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

* At least two indoor units must be connected.

Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Max Pipe Length (1 room)	Max Pipe Length (Total)	Max Chargeless Length	Additional Gas	Max Height	Type Capacity [kW class]	Wall-Mounted	Cassette	Ultra Slim Ducted	Floor Console
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	●	●	●	●
	Room C	ø 6.35	ø 9.52						3.5	●	●	●	●
									4.2	●			
Make sure to keep combinations within this range.	Room D	ø 6.35	ø 9.52						5.0	●	●	●	●
									6.0	●	●	●	

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

OUTDOOR UNIT
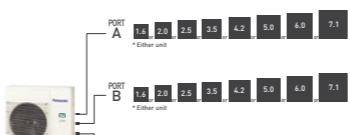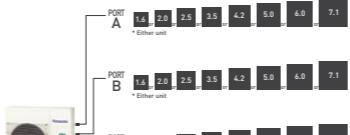
Blue Fin Condenser — R32 REFRIGERANT

Up to 2 rooms	Up to 3 rooms	Up to 4 rooms
CU-2Z52VBR	CU-3Z54VBR	CU-4Z71VBR

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CU-4Z80VBR

INDOOR UNITS: Possible Combination Patterns
Must be within capacity range

Up to **4 rooms**

8.0kW *4

PORT A — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 * Either unit
PORT B — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 * Either unit
PORT C — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 * Either unit
PORT D — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 * Either unit

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

At least two indoor units must be connected.

Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Max Pipe Length (1 room)	Max Pipe Length (Total)	Max Chargeless Length	Additional Gas	Max Height	Type Capacity [kW class]	Wall-Mounted	Cassette	Ultra Slim Ducted	Floor Console
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	●			
									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	●	●	●	●
Make sure to keep combinations within this range.	Room D	ø 6.35	ø 9.52						6.0	●	●	●	
									7.1	●			

CU-5Z100VBR

INDOOR UNITS: Possible Combination Patterns
Must be within capacity range

Up to **5 rooms**

10.0kW *4

PORT A — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 * Either unit
PORT B — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 * Either unit
PORT C — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 * Either unit
PORT D — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 * Either unit
PORT E — 1.6 2.0 2.5 3.5 4.2 5.0 6.0 7.1 * Either unit

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

At least two indoor units must be connected.

Indoor Units Combination Range	Indoor Unit	Liquid Side [mm]	Gas Side [mm]	Max Pipe Length (1 room)	Max Pipe Length (Total)	Max Chargeless Length	Additional Gas	Max Height	Type Capacity [kW class]	Wall-Mounted	Cassette	Ultra Slim Ducted	Floor Console
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	●			
									2.0	●			
	Room B	ø 6.35	ø 9.52						2.5	●	●	●	●
									3.5	●	●	●	●
	Room C	ø 6.35	ø 9.52						4.2	●			
	Room D	ø 6.35	ø 9.52						5.0	●	●	●	●
Make sure to keep combinations within this range.									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-MA1PA	CZ-MA2PA	CZ-MA3PA	CZ-CAP2
*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 Demand response module CZ-CAP2.

OUTDOOR UNIT

Blue Fin Condenser — R32 REFRIGERANT

Up to 4 rooms	Up to 5 rooms
CU-4Z80VBR	CU-5Z100VBR

INDOOR UNIT

MODEL			WALL-MOUNTED (AERO Z SERIES)							
			CS-Z20XKRW	CS-Z25XKRW-1	CS-Z35XKRW	CS-Z42XKRW	CS-Z50XKRW	CS-Z50XKRW-1	CS-Z60XKRW-1	CS-Z71XKRW
Capacity		kW	2.0	2.5	3.5	4.2	5.0	5.0	6.0	7.1
Power Source			Single Phase 240V, 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-2Z52VBR, 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-RZ25XKRW	CS-RZ35KKRW	CS-RZ42XKRW	CS-RZ50XKRW	CS-RZ60XKRW	CS-RZ71XKRW
Capacity		kW	1.6	2.0	2.5	3.5	4.2	5.0	6.0	7.1
Power Source			Single Phase 240V, 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-2Z52VBR, 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 240V, 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

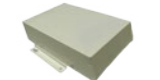| MODEL			ULTRA SLIM DUCTED				FLOOR CONSOLE		
			CS-Z25UD3RAW	CS-Z35UD3RAW	CS-Z50UD3RAW	CS-Z60UD3RAW	CS-Z25UFRAW	CS-Z35UFRAW	CS-Z50UFRAW
Capacity		kW	2.5	3.5	5.0	6.0	2.5	3.5	5.0
Static pressure		Pa	15-43	15-44	15-49	15-51	15-43	15-44	15-49
Power Source			Single Phase 240V, 50Hz						
Sound Pressure 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-2Z52VBR	CU-3Z54VBR	CU-4Z71VBR	CU-4Z80VBR	CU-5Z100VBR
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(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
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	(°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

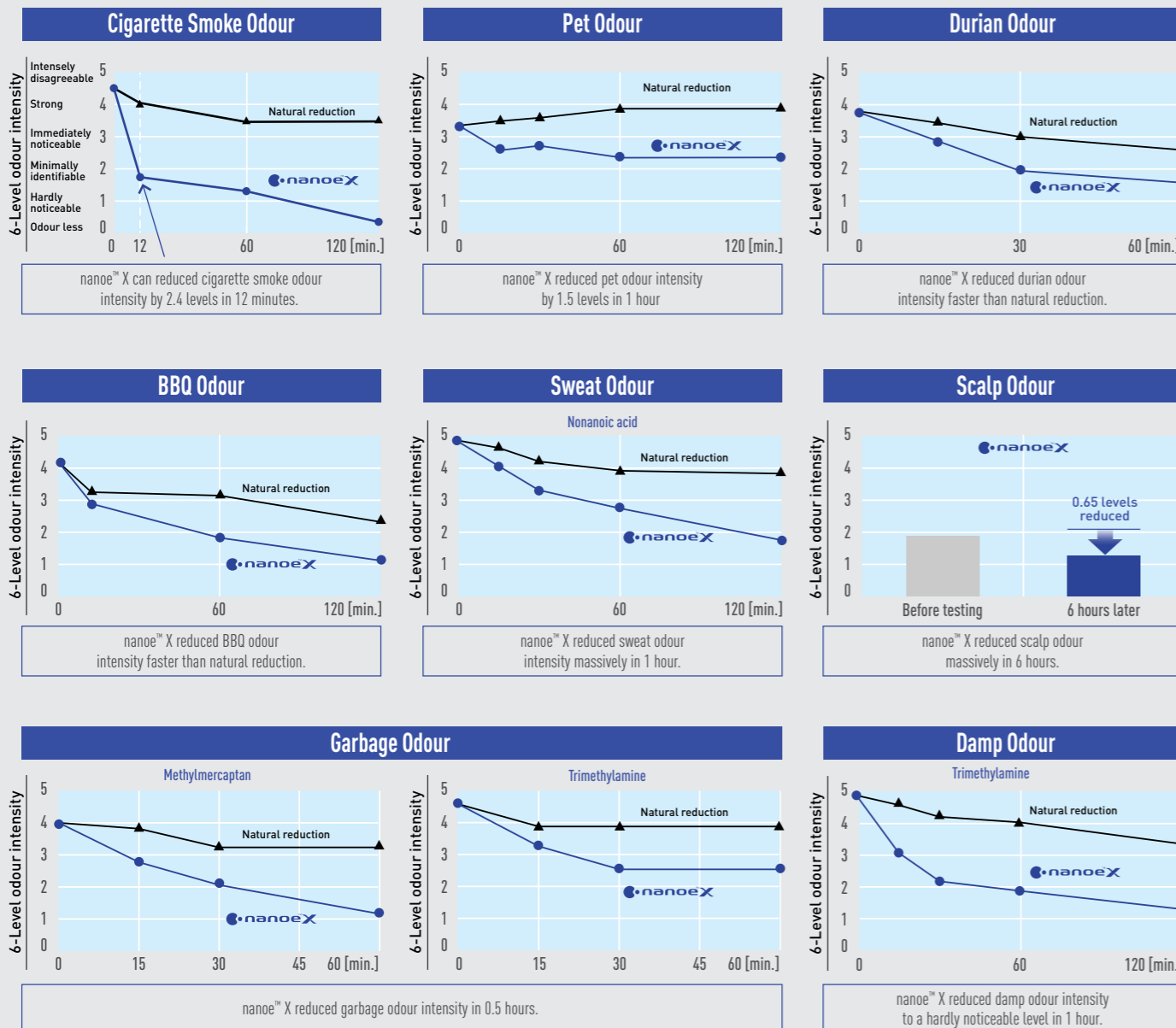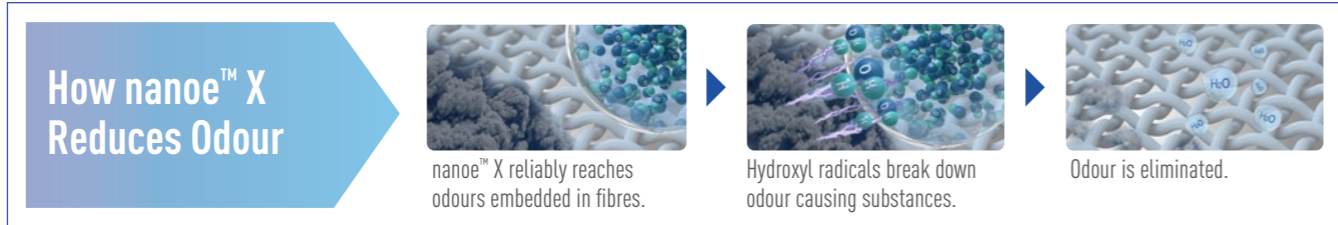|	Cooling	Heating
Inside air temperature	27°C DB /19°C WB	20°C DB
Outside air temperature	35°C DB	7°C DB /6°C WB

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.
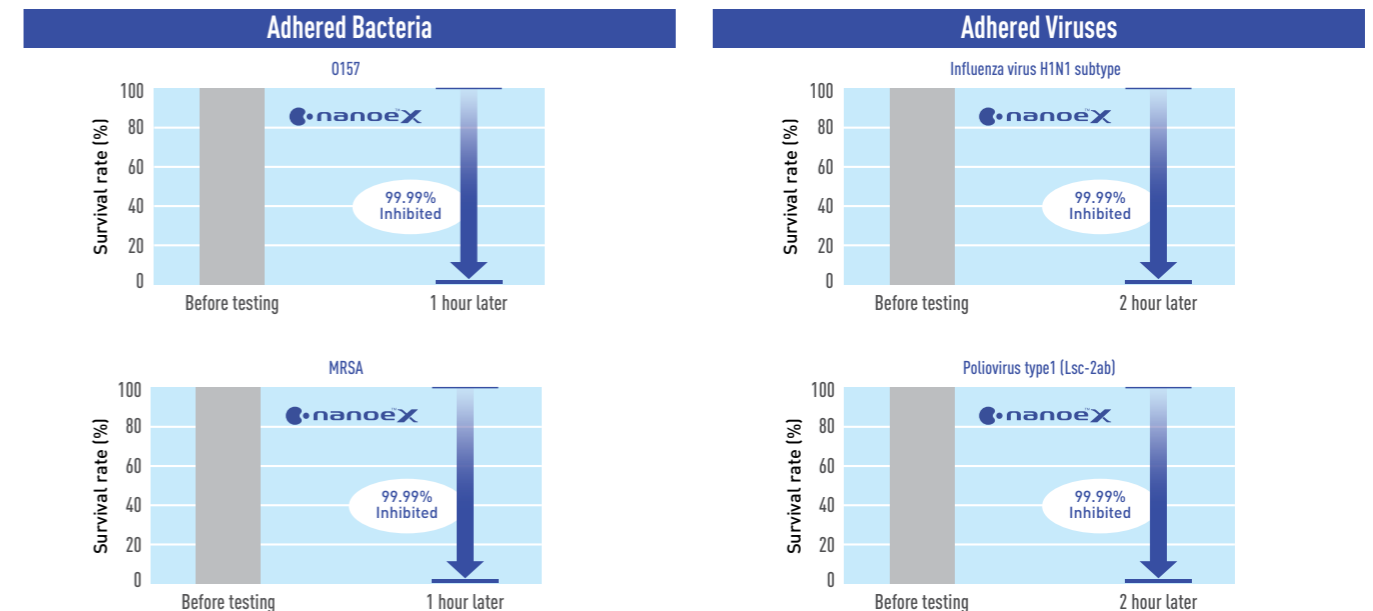
How nanoe™ X Reduces Odour

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

Nonanoic acid

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

Scalp Odour

0.65 levels reduced

Before testing / 6 hours later

nanoe™ X reduced scalp odour massively in 6 hours.

Garbage Odour

Methylmercaptan

Trimethylamine

nanoe™ X reduced garbage odour intensity in 0.5 hours.

Damp Odour

Trimethylamine

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. 23m³	0.2	Panasonic Product Analysis Center	4AA33-160615-N04
	Pet odour	Odour intensity reduced by 1.5 levels	Approx. 23m³	1	Panasonic Product Analysis Center	4AA33-160315-A34
	Durian odour	Odour intensity reduced by 1.0 levels	Approx. 23m³	0.5	Panasonic Product Analysis Center	1V332-180402-K01
	BBQ odour	Odour intensity reduced by 1.2 levels	Approx. 23m³	2	Panasonic Product Analysis Center	4AA33-151221-N01
	Sweat odour (Nonanoic acid)	Odour intensity reduced by 1.1 levels	Approx. 23m³	1	Panasonic Product Analysis Center	Y16HM016
	Sweat odour (Hexanoic acid)	Odour intensity reduced by 2.6 levels	Approx. 23m³	1	Panasonic Product Analysis Center	4AA33-160315-A35
	Scalp odour (Pillow cover)	Odour intensity reduced by 0.65 levels	Approx. 23m³	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. 23m³	0.5	Panasonic Product Analysis Center	1V332-18220-K11
	Garbage odour (Trimethylamine)	Odour intensity reduced by 1.4 levels	Approx. 23m³	0.5	Panasonic Product Analysis Center	1V332-180220-K12
	Damp odour (Triethylamine)	Odour intensity reduced by 1.7 levels	Approx. 23m³	0.5	Panasonic Product Analysis Center	Y16RA002

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

Inhibits activity of airborne, adhered bacteria and viruses

nanoe™ X inhibits the activity of airborne and adhered bacteria and viruses.

Adhered Bacteria

O157

99.99% Inhibited

Before testing / 1 hour later

MRSA

99.99% Inhibited

Before testing / 1 hour later

Adhered Viruses

Influenza virus H1N1 subtype

99.99% Inhibited

Before testing / 2 hour later

Poliovirus type1 (Lsc-2ab)

99.99% Inhibited

Before testing / 2 hour later

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

	Bacteria & viruses	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Airborne	Virus Bacteriophage ΦX174	99.7% inhibited	Approx. 25m³	6	Kitasato Research Center for Environmental Science	24_0300_1
Airborne	Bacteria Staphylococcus aureus	99.9% inhibited	Approx. 25m³	4	Kitasato Research Center for Environmental Science	2016_0279
Adhered	Virus Bacteriophage ΦX174	99.8% inhibited	Approx. 25m³	8	Japan Food Research Laboratories	13001265005-01
Adhered	Bacteria Staphylococcus aureus	99.1% inhibited	Approx. 25m³	8	Japan Food Research Laboratories	13044083003-01
Adhered Novel Coronavirus	SARS-CoV-2	99.9% inhibited	45L	2	Texcell France	1140-01 A1
Adhered Novel Coronavirus	SARS-CoV-2	91.4% inhibited	6.7m³	8	Texcell France	1140-01 C3
Adhered Novel Coronavirus	SARS-CoV-2	99.7% inhibited	6.7m³	24	Texcell France	1140-01 C3
Adhered virus	Influenza virus (H1N1 subtype)	99.9% inhibited	1m³	2	Kitasato Research Center for Environmental Science	21_0084_1
Adhered virus	Feline calicivirus (Related form of norovirus)	99.9% inhibited	25L	2	Japan Food Research Laboratories	207031493-001
Adhered virus	Coxackievirus (B6)	99.1% inhibited	45L	2	Kitasato Research Center for Environmental Science	22_0085
Adhered virus	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
Adhered bacteria	Methicillin-resistant staphylococcus aureus (MRSA)	99.99% inhibited	45L	1	Japan Food Research Laboratories	208120880-002
Adhered bacteria	Staphylococcus aureus	99.99% inhibited	1m³	24	Kitasato Research Center for Environmental Science	20_0154_2
Adhered bacteria	Bacillus	99.6% inhibited	45L	0.5	Japan Food Research Laboratories	11000924001-01
Adhered bacteria	Micrococcus	99.9% inhibited	45L	2	Japan Food Research Laboratories	11000924001-02
Adhered bacteria	Serratia	99.9% inhibited	45L	2	Japan Food Research Laboratories	11000924001-03
Adhered bacteria	Kocuria	99.9% inhibited	45L	1	Japan Food Research Laboratories	11000922001-01

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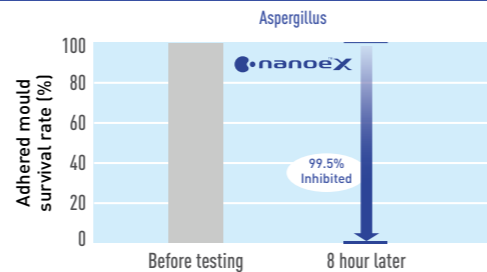
Inhibits activity of airborne mould and adhered mould

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

Airborne Mould
Cladosporium

Adhered Mould
Aspergillus

[Representative evidence] ** : Units based on Panasonic standards
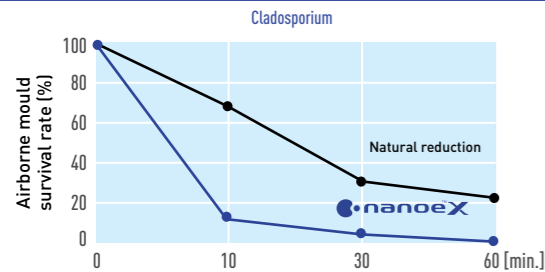
	Mould	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Airborne	Cladosporium	99% inhibited	Approx. 23m³	1	Japan Food Research Laboratories	205061541-001
Adhered	Alternaria	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	18077411001-0201
Adhered	Aspergillus	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-0801
Adhered	Cladosporium	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-0901
Adhered	Eurotium	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-1001
Adhered	Fusarium	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-1101
Adhered	Mucor	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-1201
Adhered	Penicillium	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-1301
Adhered	Stachybotrys	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-1401
Adhered	Aspergillus	99.5% inhibited	45L	8	Japan Food Research Laboratories	11038081001-02
Adhered	Penicillium	99.5% inhibited	45L	4	Japan Food Research Laboratories	110028760001-01
Adhered	Fusarium	99.9% inhibited	45L	4	Japan Food Research Laboratories	11018692001-02
Adhered	Eurotium	99.9% inhibited	45L	8	Kitasato Research Center for Environmental Science	22_0455
Adhered	Mucor	99.9% inhibited	45L	8	Japan Food Research Laboratories	11038080001-01
Adhered	Stachybotrys	99.9% inhibited	45L	8	Kitasato Research Center for Environmental Science	22_0455
Adhered	Alternaria	99.9% inhibited	45L	16	Japan Food Research Laboratories	11038082001-01

Results may vary based on usage, and seasonal and enviroment 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. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F01
Mites	Dermatophagoides farinae	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-170301-F15
Mould	Alternaria (Sooty moulds)	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F02
Mould	Aspergillus (Aspergillus genus)	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F02
Mould	Candida	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F02
Mould	Malassezia	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F02
Insect	Cockroach	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F03
Insect	Moth	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F03
Animal	Dog (dander)	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160620-F01
Animal	Cat (dander)	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160620-F01

Results may vary based on usage, and seasonal and enviroment 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.

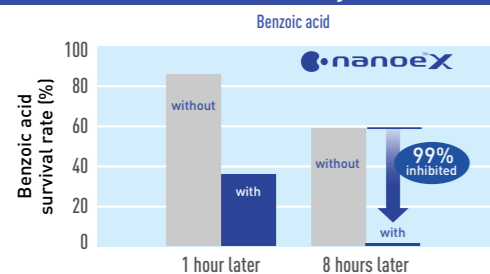[Representative evidence]

** : Units based on Panasonic standards

Pollen Allergens	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Cedar	97% inhibited	Approx. 23m³	8	Panasonic Product Analysis Center	4AA33-151001-F01
Cypress	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-151028-F01
Orchard grass	Inhibited	Approx. 23m³	24		
Ragweed	Inhibited	Approx. 23m³	24		
Alnus japonica	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160601-F01
Japanese white birch	Inhibited	Approx. 23m³	24		
Artemisia	Inhibited	Approx. 23m³	24		
Olive	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160601-F02
Juniper	Inhibited	Approx. 23m³	24		
Casuarina	Inhibited	Approx. 23m³	24		
Miscanthus	Inhibited	Approx. 23m³	24		
Timothy grass	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160701-F01
Humulus japonicus	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	1V332-180301-F01

Results may vary based on usage, and seasonal and enviroment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection.
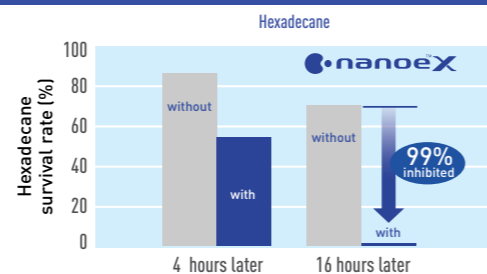
Inhibition of hazardous substances known to be found in PM2.5

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

### Aromatic Carboxylic Acid
Benzoic acid

Paraffin
Hexadecane

[Representative evidence]

** : Units based on Panasonic standards

	Hazardous substances	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Pollutants	Paraffin (Hexadecane)	99% inhibited	Approx. 23m³	16	Panasonic Product Analysis Center	Y17NF089
	Aromatic carboxylic acid (Benzoic acid)	99% inhibited	Approx. 23m³	8	Panasonic Product Analysis Center	Y17NF096
Carciongen	Benz [a] anthracena (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 enviroment 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.
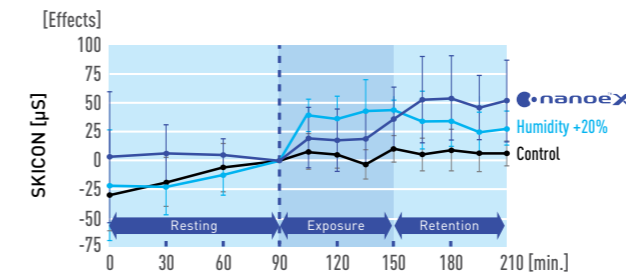
nanoe™ X achieved an improvement in skin moisture content equivalent to a 20 percentage point increase in environmental humidity.

[Representative evidence]

** : Units based on Panasonic standards

Skin and hair	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Skin	Effective	Approx. 34m³	1	Panasonic Product Analysis Center	USG-KT-14K-012-TM
	Effective	Standard household	28 days	FCG Research Institute, Inc.	19104
Hair	Effective	Approx. 46m³	8 Hr. × 15 days	Panasonic Product Analysis Center	USD-KS-15S-009-TM

Results may vary based on usage, and seasonal and enviroment 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	Singapore	Malaysia	Vietnam	Thailand
PT. Anugrah Analisis Sempurna	Temasek Polytechnic	SIRIM Berhad	Pasteur Institute	King Mongkut`s University of Technology Thonburi

Notes

Panasonic
AIR CONDITIONING

- Please read the Installation Instructions carefully before installing the unit, and the Operating Instructions before using it.
- Specifications are subject to change without prior notice.
- The contents of this catalogue are accurate as of August 2021.
- Due to printing considerations, actual colours may vary slightly from those shown.
- All graphics are provided solely for the purpose of illustrating a point.

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

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