Panasonic

RESIDENTIAL AIR CONDITIONERS 2020/2021

AERO SERIES

DEVELOPER SERIES

nanoe™X | R32 REFRIGERANT | SENSITIVE CHOICE

A Better Life, A Better World

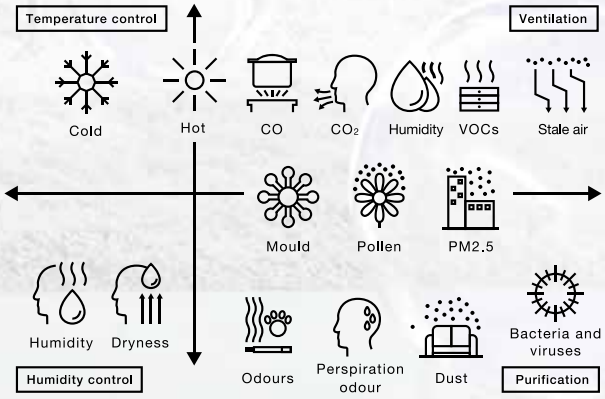
QUALITY AIR FOR LIFE

Quality Air For Life

Stay Protected With Virus Inhibiting Technology

Give your air the strength to protect your loved ones easily with active virus inhibiting technology such as nanoe™ X and convenient control via the Comfort Cloud app.

Common issues with indoor air quality



* Unit must be constantly turned on and operating in the air purification mode – nanoe™ X.

INDEX

02 - 03
Quality Air For Life

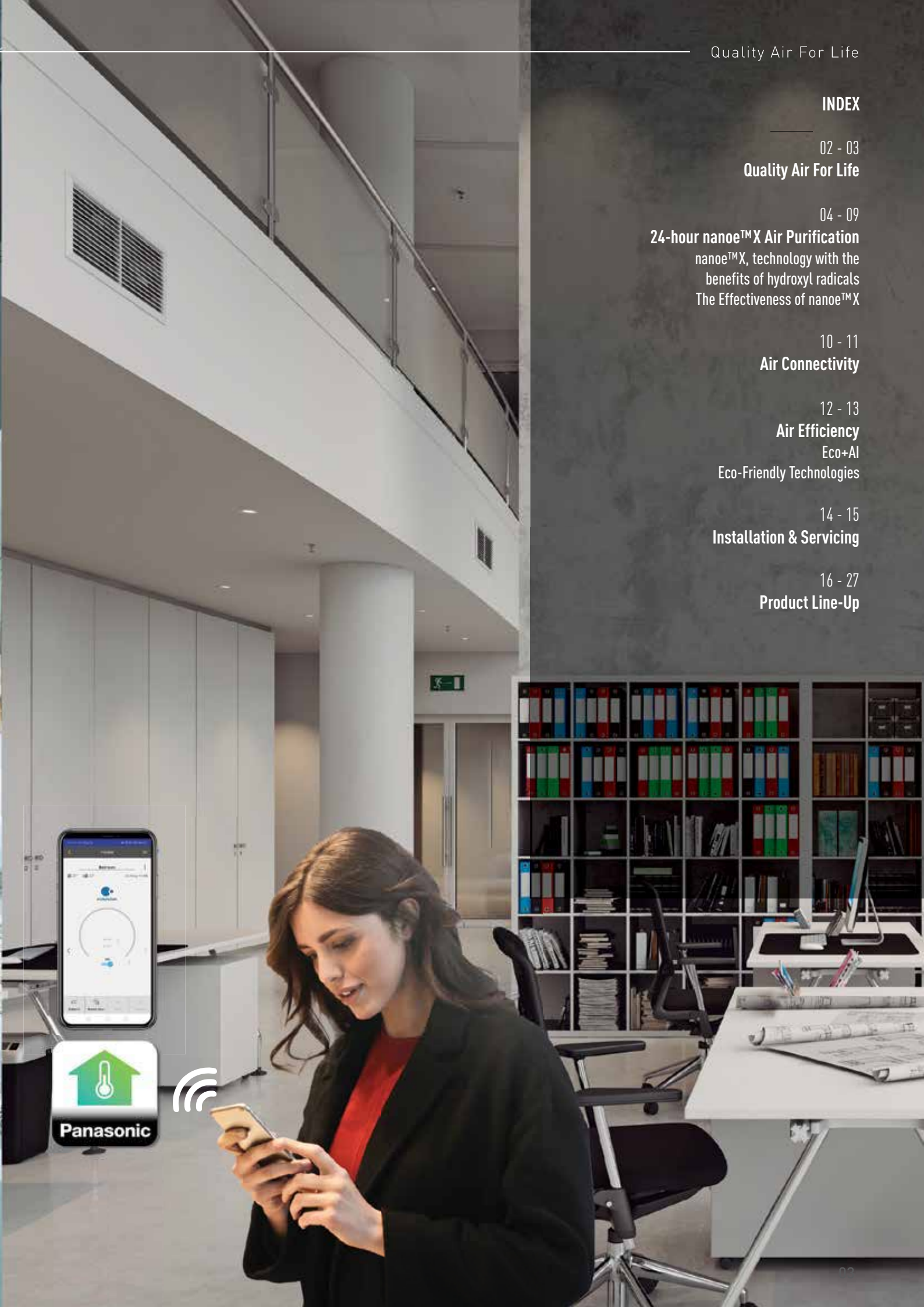
04 - 09
24-hour nanoe™X Air Purification
nanoe™X, technology with the benefits of hydroxyl radicals
The Effectiveness of nanoe™X

10 - 11
Air Connectivity

12 - 13
Air Efficiency
Eco+AI
Eco-Friendly Technologies

14 - 15
Installation & Servicing

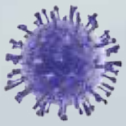
16 - 27
Product Line-Up



nanoe™ X

Live better with
24-hour nanoe™ X Air Purification*1

Panasonic's nanoe™ X technology uses hydroxyl radicals to effectively inhibit airborne and adhered viruses and other pollutants such as mould, allergens, pollen and hazardous substances.
In addition, it can even reduce strong odours and moisturise skin and hair.



AIRBORNE VIRUSES LAST UP TO **3 HOURS***2

ADHERED VIRUSES LAST FROM **2-7 DAYS***2

WOOD
VIRUSES LIFESPAN **2 DAYS***2

CLOTH
VIRUSES LIFESPAN **2 DAYS***2

PLASTIC
VIRUSES LIFESPAN **3 DAYS***2

How nanoe™ X works?

1. nanoe™ X reliably reaches viruses.

2. Hydroxyl radicals transform viruses proteins.

3. Viruses are inhibited.

24-hour nanoe™ X Air Purification

Actively purifies your air and inhibits pollutants all day long

Purify independently when you are away

Turn ON air conditioner with nanoe™ mode only when you are away.

Cool/Heat and purify when you are at home

Turn ON air conditioner with Cooling/Heating and nanoe™ mode when you are at home.

Leave nanoe™ mode ON to inhibit pollutants and deodorise before you return home.

Enjoy a cleaner and more comfortable space with your loved ones.

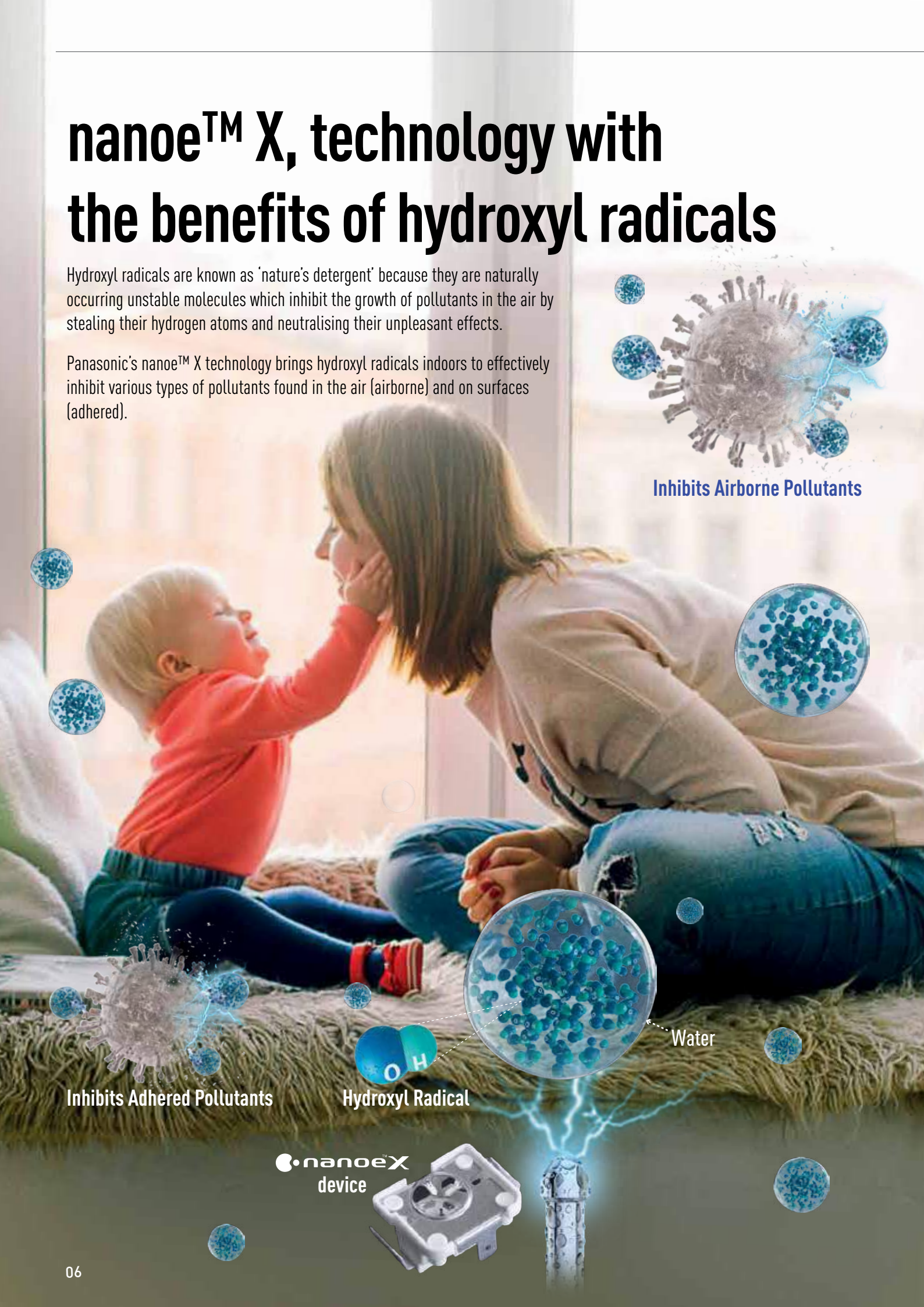
*1 Unit must be constantly turned on and operating in the air purification mode – nanoe™ X.
*2 Virus Lifespan: https://www.businessinsider.com/coronavirus-lifespan-on-surfaces-graphic-2020-3
*3 Energy consumption may vary depending on models.

- Wireless LAN Remote Control for Internet Connection requires optional network adaptor.
- Indoor temperature display and some special functions are not available through the App for all models.
- Results may vary based on usage, and seasonal and environmental variables (temperature and humidity). nanoe™ X inhibit activity or growth of viruses, but do not prevent infection.

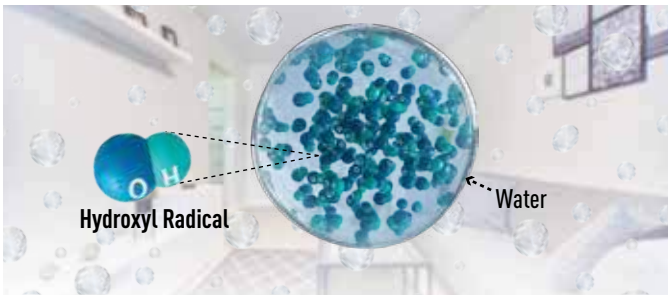
nanoe™ X, technology with the benefits of hydroxyl radicals

Hydroxyl radicals are known as 'nature's detergent' because they are naturally occurring unstable molecules which inhibit the growth of pollutants in the air by stealing their hydrogen atoms and neutralising their unpleasant effects.

Panasonic's nanoe™ X technology brings hydroxyl radicals indoors to effectively inhibit various types of pollutants found in the air (airborne) and on surfaces (adhered).

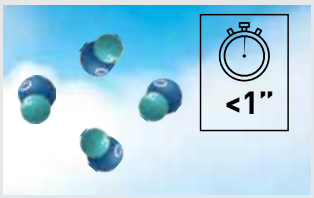


Uniqueness of nanoe™ X



Huge quantity

- 4.8 trillion (per second) hydroxyl radicals are generated and spread throughout a room.

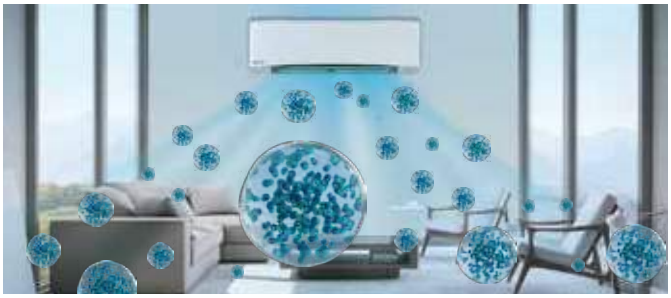


Hydroxyl Radicals in nature

Hydroxyl Radicals contained in water

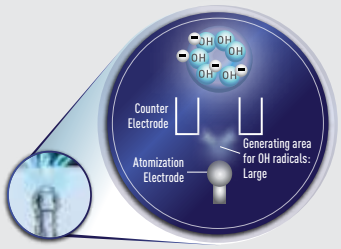
Longer lifespan

- By creating hydroxyl radicals contained in water, nanoe™ X technology, increasing hydroxyl radicals lifetime from less than a second in nature, to more than 600 seconds – 10 minutes so that nanoe™ X can spread over long distance.



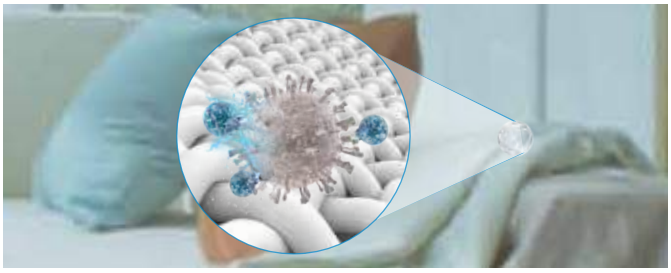
Actively fill in the room

- Hydroxyl radicals contained in water actively fill an entire room and go beyond the filter to inhibit adhered and airborne pollutants.



Maintenance-free

- The nanoe™ X device requires no maintenance as its atomisation electrode is enveloped with water during its generation process and it is made of Titanium.



Effective on fabrics and surfaces

- Nano-sized (5-20nm) nanoe™ X can penetrate cloth fibres to inhibit adhered pollutants.

Safe and non-chemical particles

- The safety of nanoe™ X has been tested and proven by institutes and laboratories.

  Visit our website for a list of safety data:
  https://www.panasonic.com/global/corporate/technology-design/technology/nanoe.html

nanoe™ X approved by sensitive choice

Asthma and allergy friendly

- nanoe™ X is approved by Sensitive Choice, which helps consumers worldwide live better with asthma and allergies.

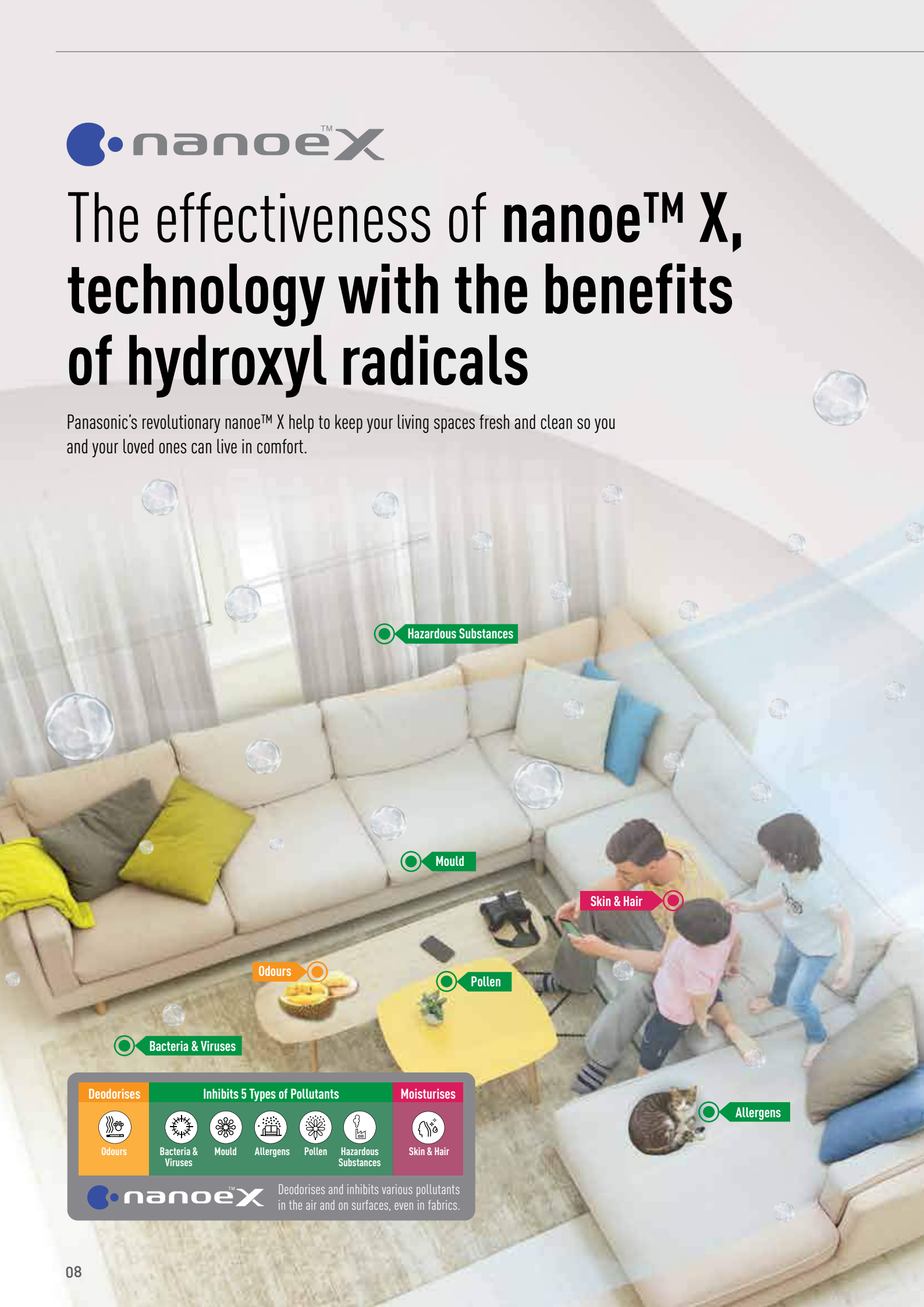
Sensitive Choice is a community service program that aims to educate people about the importance of managing their asthma and allergies. Developed by the National Asthma Council Australia in 2006, the program also encourages companies to produce products and services that are more asthma and allergy aware.

Panasonic and Sensitive Choice have partnered to introduce the nanoe™ X to the Australian market. Purifying your air 24 hours, the nanoe™ X feature can function independently or concurrently with your air conditioner. This market leading Air Sterilisation technology works towards the inhibition of bacteria, viruses, allergens, pollens and mould within your indoor environment, whilst deodorising, keeping your home or office fresh and clean. Panasonic & Sensitive Choice are committed to bringing you Quality Air, for Life.

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

The effectiveness of **nanoe™ X, technology with the benefits of hydroxyl radicals**

Panasonic's revolutionary nanoe™ X help to keep your living spaces fresh and clean so you and your loved ones can live in comfort.



Inhibits 5 Types of Pollutants

Harmful pollutants affect your health

How nanoe™ X works

Inhibits airborne and adhered pollutants

nanoe™ X inhibits harmful pollutants*1, keeping your loved ones away from allergies or diseases.

*1 Please refer to page 40-45.

Deodorises

Discomfort caused by various types of odours

How nanoe™ X works

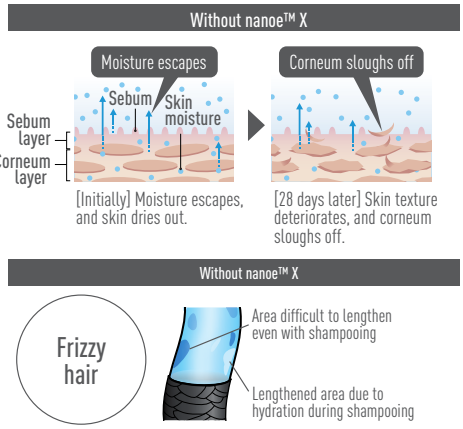
Reduces frequently encountered odours

nanoe™ X reduces strong, adhesive odours*2 by deeply penetrating into fabrics, resulting in lasting freshness in your living space.

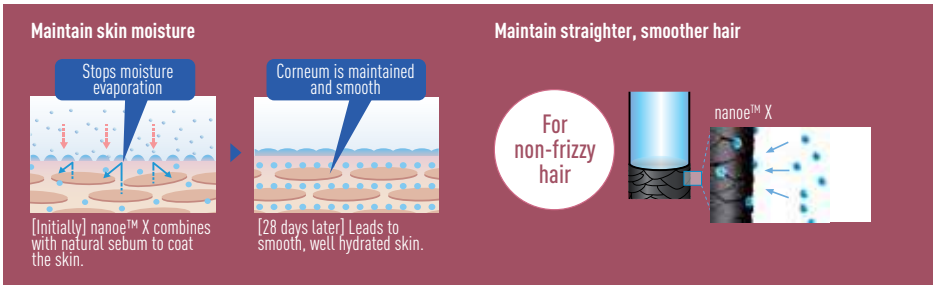
*1 Please refer to page 39-40.

Moisturises

Insufficient moisture in skin and hair



How nanoe™ X works



Moisture retained in skin and hair

nanoe™ X water particles helps to achieve proper moisture balance*3, resulting in smooth, hydrated skin and hair.

*3 Please refer to page 45.

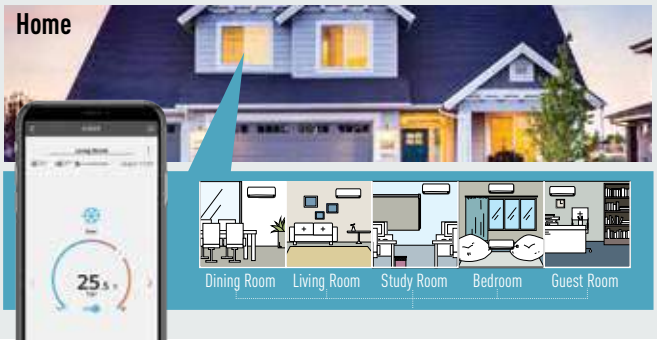
- Results may vary based on usage, and seasonal and environmental variables (temperature and humidity). nanoe™ X inhibit activity or growth of viruses, but do not prevent infection.

Smartify Your Air

Applicable for Residential Properties and Premises

Smart Control

Control Multiple AC Units in 1 Location



Control Multiple Units in Multiple Locations

Smart Comfort

Remotely Access All AC Features

Activate 24-hour Air Purification

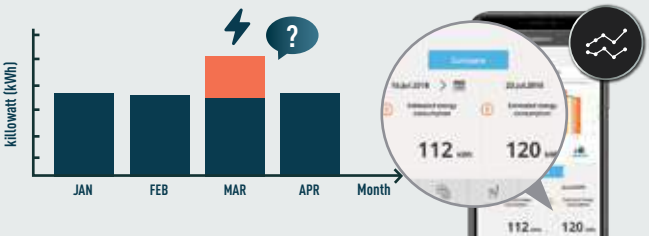
Pre-cool Spaces

Smart Efficiency

Analyse Energy Usage Patterns

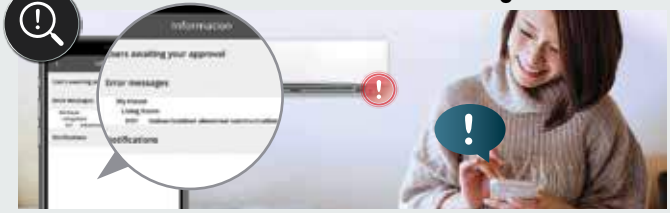
*Based on estimated energy consumption.

Compare Usage History for Better Budget Planning



Smart Assist

Effortless Troubleshooting



Assign Other Users While You Are Away

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

Please note:

- This is not a definitive list of all compatible devices, other similiar devices which use supported Operating Systems should also work either via dedicated Apps. Please note that user experience may vary slightly depending on hardware and software combination.
- Google, Android, Google Nest Mini, Google Play, and Google Home are trademarks of Google LLC.
- Amazon, Alexa, Echo Dot and all related logos are trademarks of Amazon.com. Inc. or its affiliates.

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

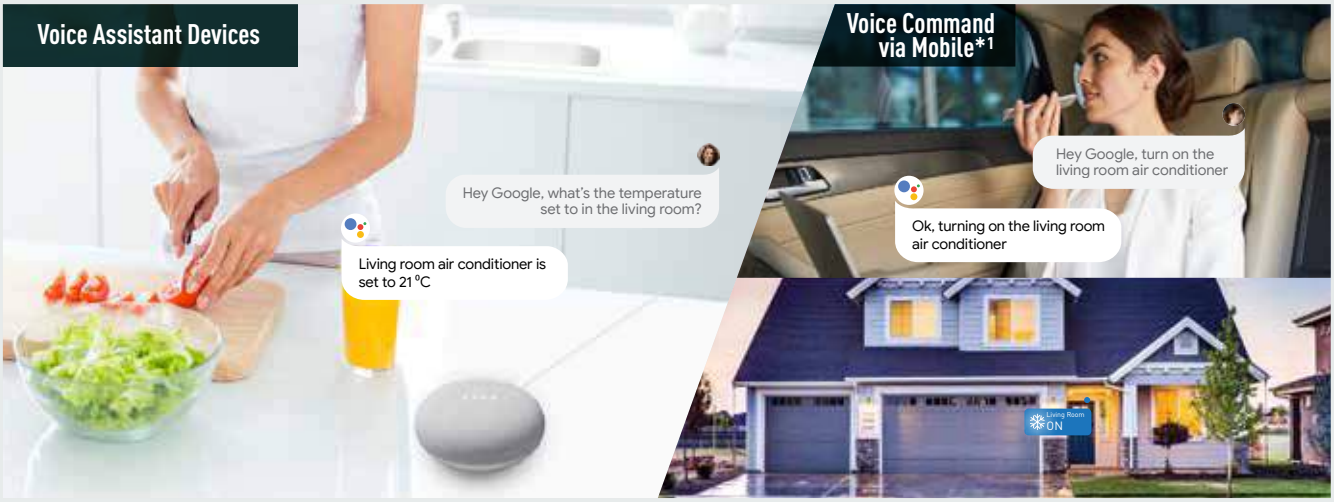
Smart Voice Control

with Google Nest Mini or Amazon Alexa

Centralised Solutions

One device to control multiple air conditioners

Whether you are home or away, take charge of all your air conditioners with just your voice.

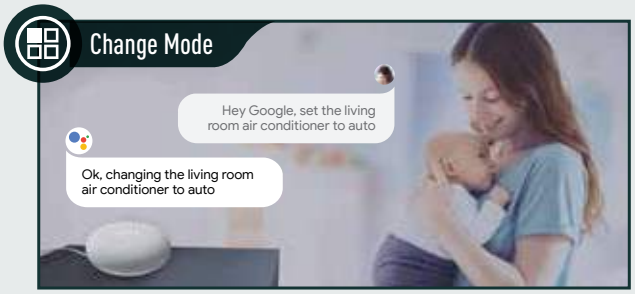


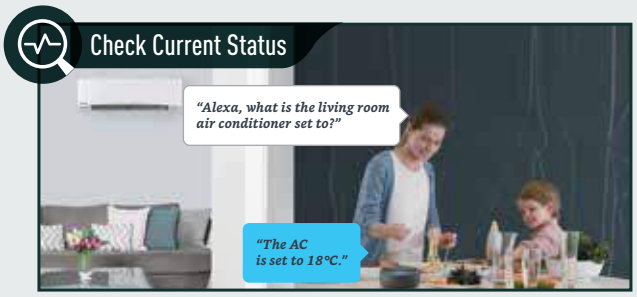
*1Download of Panasonic Comfort Cloud App is required for activation.
*Customising Routines require prior set up in the Google Home app. Grouping in Amazon Alexa is required.

Contactless Command

Contactless command for convenience

Control your air conditioner using simple commands, without lifting a finger!





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 Mini, Google Play, and Google Home are trademarks of Google LLC.
- Amazon Echo and all related logos are trademarks of Amazon.com. Inc. or its affiliates.

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

Air Efficiency

NEW

ECO+A.I.

Intelligently Balances Energy Savings and Comfort

The new Panasonic ECO Mode with Artificial Intelligence (A.I.) Control learns about your room environment. Energy saving is maximised in each room's environment as it auto-adjusts to the optimal ECO level based on heat load conditions and air conditioning capacity.

ECO+A.I.

Automatically adapts to your home and maximises energy savings

As each room in your home is different, ECO Mode with A.I. Control efficiently cools your room based on the amount of heat load contained. 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 due to:
   (A) Sunlight and lighting in the room
   (B) Computers and appliances
   (C) Body heat

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

- Press POWERFUL/ ECO once to switch ON POWERFUL mode.
- **Press POWERFUL/ ECO 2nd time to switch ON ECO mode.**
- Press POWERFUL/ ECO 3rd time to cancel/ switch OFF ECO mode.

When Your Air Conditioner is Switched On

Scenario 1 - Daytime with sunlight in a big, warm room

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

Scenario 2 - Nighttime 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

UP TO 20%* ENERGY SAVING ECO+A.I.

***Comparison of ECO Mode & normal mode by using 3.50kW 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

* Applicable to STANDARD REVERSE CYCLE INVERTER (2.50kW - 5.00kW) and COOLING ONLY INVERTER (2.50kW - 5.00kW) only.

Eco-friendly Technologies

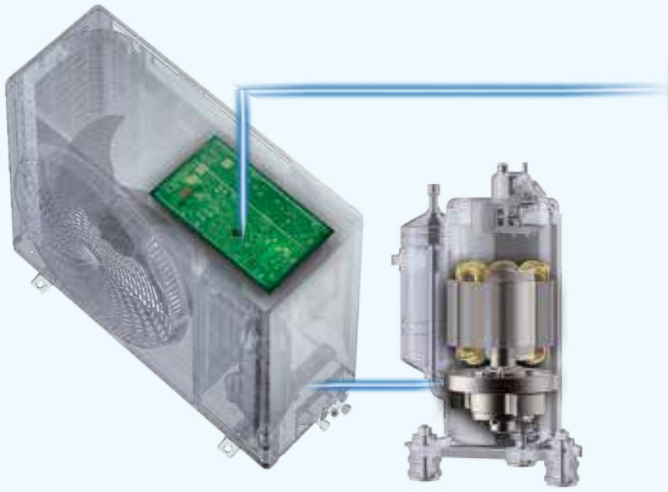
Make smarter, greener choices with energy saving technologies for sustainable living

NEW ECO+A.I. | INVERTER | R32 REFRIGERANT

INVERTER

Energy Saving and Precise Temperature Control

Panasonic's INVERTER reduces power consumption by varying the speed of the compressor according to the temperature changes with the aim of minimising the temperature fluctuations so you can enjoy consistent cooling comfort.



The "BRAIN" of the Inverter - The Micro Computer

Determines the most suitable operation mode as time passes and automatically adjusts power output for maximum comfort.

PAM (Pulse Amplitude Modulation)

Increases compressor voltage rapidly to provide powerful cooling to reach the set temperature fast at start up.

PWM (Pulse Width Modulated Wave)

Stabilises the compressor rotation speed when maintaining the set temperature.

Sustainable Refrigerant

An Environmentally-Friendly Refrigerant

REFRIGERANT PROPERTIES OF R22, R32, and R410A

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

HIGHER COOLING CAPACITY

R32 has higher cooling capacity thereby increases heat transfer efficiency.

REDUCE ENERGY COSTS

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

ECO FRIENDLY

R32 has zero impact on the ozone layer, therefore it is environmentally friendly.

Save Time With Easy Breezy Installation & Servicing

Panasonic air conditioners are designed to be compact in size, minimalist with matt finishing, enabling them to be easily fitted and seamlessly harmonize with any interior. Its uniquely designed structure enhances durability and 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.

GOOD DESIGN AWARD 2020

FITS PERFECTLY ANYWHERE

CLOSE TO WALL

CLOSE TO CEILING

ABOVE DOOR

NEW Installation & Servicing Features

Easy Removal

User-friendly slider locks

Easy to lock & unlock the front grille.

One-piece front grille

Makes installation & servicing easier when dismantling or assembling.

Simple steps for circuit board (PCB) removal

Remove control board cover.

Disconnect all the connectors.

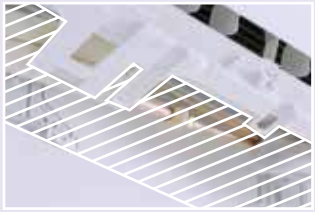
Pull out main PCB, Screw-free design makes it easy to remove PCB.

Easy Access

Built-in support holders

Built-in support holder makes it easy to securely hold the indoor unit against the wall.

Piping storage



180mm bigger piping space improves work efficiency during installation and servicing.

Easy access to drain hose & piping

More open working spaces provides easy view and unobstructed access to setup drain hose and piping.

Easy wire insertion and connection

Single wire insert tunnel with wider opening provides front visibility and easy wire insertion and connection.

Neat Installation

Stronger installation plate

Stronger & more solid installation plate which provides more stability to better support indoor units.

Screw holders for uneven surfaces

Ensures indoor units fit well on the wall without any gaps.

* Applicable to STANDARD REVERSE CYCLE INVERTER (2.50kW - 5.00kW) only.

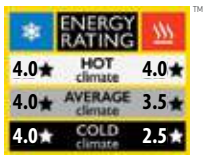
WALL-MOUNTED : **AERO SERIES -** PREMIUM REVERSE CYCLE INVERTER Single -Split Type

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

Wireless Remote Controller

CZ-RD514C Wired Remoted Controller (Optional)

CZ-TACG1 Network Adaptor*1 (Optional)



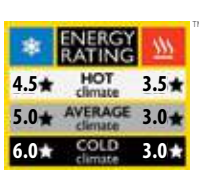
*Star rating : CS-Z50VKR (Residential)

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

Wireless Remote Controller

CZ-RD514C Wired Remoted Controller (Optional)

CZ-TACG1 Network Adaptor*1 (Optional)



*Star rating : CS-Z50VKR (Commercial)

SPECIFICATIONS

MODEL (240V / 1 Phase / 50Hz)			CS-Z20VKR [CU-Z20VKR]	CS-Z25VKR [CU-Z25VKR]	CS-Z35VKR [CU-Z35VKR]	CS-Z42VKR [CU-Z42VKR]	CS-Z50VKR [CU-Z50VKR]	CS-Z60VKR [CU-Z60VKR]	CS-Z71VKR [CU-Z71VKR]	CS-Z80VKR [CU-Z80VKR]
Cooling / Heating Capacity	(min-max)	kW	2.05 [0.90-2.40] 2.70 [0.85-4.10]	2.50 [0.90-3.00] 3.20 [0.90-5.00]	3.50 [0.90-4.00] 4.30 [0.90-5.80]	4.20 [0.90-5.00] 5.10 [0.90-7.10]	5.00 [0.95-6.00] 6.00 [1.05-8.00]	6.00 [1.70-7.10] 7.20 [1.70-8.50]	7.10 [1.70-8.10] 8.00 [1.70-9.90]	8.00 [2.30-9.00] 9.00 [2.20-11.00]
	(min-max)	Btu/h	6,990 [3,070-8,180] 9,210 [2,900-14,000]	8,530 [3,070-10,200] 10,900 [3,070-17,100]	11,900 [3,070-13,600] 14,700 [3,070-19,800]	14,300 [3,070-17,100] 17,400 [3,070-24,200]	17,100 [3,240-20,500] 20,500 [3,580-27,300]	20,500 [5,800-24,200] 24,600 [5,800-29,000]	24,200 [5,800-27,600] 27,300 [5,800-33,800]	27,300 [7,840-30,700] 30,700 [7,500-37,500]
Air Flow	Indoor	L/s	168/187	193/203	207/220	222/222	328/332	332/340	355/362	370/370
Dehumid		L/h	1.3	1.5	2.0	2.4	2.8	3.3	4.1	4.7
Electrical Data	Running Current	A	1.95/2.55	2.30/2.90	3.75/4.40	4.70/5.90	5.10/5.80	7.00/7.80	8.60/9.20	10.90/11.30
	Max Current	A	4.6	5.7	7.0	10.7	11.9	13.0	15.0	15.4
	Power Input (min-max)	kW	0.41 [0.18-0.57) 0.55 [0.17-1.03]	0.50 [0.18-0.75] 0.62 [0.17-1.30]	0.80 [0.20-1.06] 0.94 [0.18-1.56]	1.07 [0.22-1.60] 1.34 [0.23-2.25]	1.13 [0.21-2.05] 1.31 [0.23-2.65]	1.58 [0.44-2.20] 1.78 [0.40-2.50]	1.97 [0.44-2.48] 2.11 [0.40-3.00]	2.32 [0.46-2.82] 2.41 [0.50-3.30]
AEER / EER ACOP / COP		W/W W/W	4.84/5.00 4.79/4.91	4.87/5.00 5.06/5.16	4.31/4.38 4.51/4.57	3.88/3.93 3.77/3.81	4.38/4.42 4.54/4.58	3.77/3.80 4.02/4.04	3.58/3.60 3.77/3.79	3.43/3.45 3.72/3.73
Star Rating Residential / Commercial	Hot Climate	TCSPF HSPF	5.0 5.0	4.0/4.5 3.5/3.5	4.0/4.5 3.5/3.5	3.5/4.0 3.0/2.5	4.0/4.5 4.0/3.5	3.5/3.5 3.0/3.0	3.0/3.5 3.0/3.0	3.0/3.5 3.0/3.0
	Average Climate	TCSPF HSPF	3.5/5.0 3.0/3.5	3.5/5.0 3.0/3.5	3.5/5.0 3.0/3.0	3.5/4.5 2.5/2.5	4.0/5.0 3.5/3.0	3.0/4.0 2.5/2.5	3.0/4.0 2.5/2.5	3.0/4.0 2.5/2.5
	Cold Climate	TCSPF HSPF	3.5/5.5 3.0/3.0	3.5/5.5 3.0/3.0	3.5/5.5 2.5/2.5	3.5/5.5 2.0/2.0	4.0/6.0 2.5/3.0	3.0/4.5 2.0/2.0	3.0/4.5 1.5/2.0	3.0/4.5 2.0/2.0
Noise Level — Sound Pressure Level*2 dB(A)	Indoor (H / L / Q-Lo)		38/24/19 39/25/21	43/25/19 42/27/21	44/26/19 46/29/21	47/30/23 46/31/27	47/34/31 45/33/29	47/36/33 47/35/32	49/37/34 49/37/34	51/38/35 50/38/35
	Outdoor (H / Q-Lo)		45/- 46/-	47/- 47/-	49/- 50/-	47/42 47/42	48/43 48/43	53/48 53/48	54/49 54/49	55/50 55/50
Noise Level — Sound Power Level dB(A)	Indoor (H / L / Q-Lo)		54/40/35 55/41/37	59/41/35 58/43/37	60/42/35 62/45/37	63/46/39 62/47/43	63/50/47 61/49/45	63/52/49 63/51/48	65/53/50 65/53/50	67/54/51 66/54/51
	Outdoor (H / Q-Lo)		60/- 61/-	62/- 62/-	64/- 65/-	62/57 62/57	62/57 62/57	67/62 67/62	68/63 68/63	69/64 69/64
Net Weight	Indoor (Outdoor)	kg	9(29)	10(31)	10(31)	10(43)	13(44)	13(50)	13(50)	13(60)
Dimensions	Indoor (H x W x D) Outdoor (H x W x D)	mm mm	295 x 919 x 194 542 x 780 x 289	295 x 919 x 194 542 x 780 x 289	295 x 919 x 194 542 x 780 x 289	295 x 919 x 194 695 x 875 x 320	302 x 1,120 x 236 695 x 875 x 320	302 x 1,120 x 236 695 x 875 x 320	302 x 1,120 x 236 695 x 875 x320	302 x 1,120 x 236 795 x 875 x 320
Refrigerator Pipe Diameter	Liquid Side	mm/(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas Side	mm/(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.70 (1/2)	ø 12.70 (1/2)	ø 12.70 (1/2)	ø 15.88 (5/8)	ø 15.88 (5/8)
Pipe Extension Length		min-max (m)	3~20	3~20	3~20	3~30	3~30	3~30	3~30	3~30
Maximum Elevation Length		m	15	15	15	15	15	15	20	20
Pipe Length For Additional Gas		m	7.5	7.5	7.5	7.5	10	10	10	10
Additional Gas Amount		g/m	10	10	10	15	15	15	25	25
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Operating Range (Outdoor)	Cooling Heating	Degree °C	+5 ~ +46 -15 ~ +24	+5 ~ +46 -15 ~ +24	+5 ~ +46 -15 ~ +24	+5 ~ +46 -15 ~ +24	+5 ~ +46 -15 ~ +24	+5 ~ +46 -15 ~ +24	+5 ~ +46 -15 ~ +24	+5 ~ +46 -15 ~ +24
Refrigerant Type			R32	R32	R32	R32	R32	R32	R32	R32

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

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

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

COMFORT

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

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

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

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

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

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

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

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

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

CLEAN & HEALTHY AIR

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

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

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

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

CONVENIENCE

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

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

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

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

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

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

* Network adaptor (CZ-TACG1) is required

RELIABILITY

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

LONG PIPING
Long piping offers more flexible installation options.

*20m - CS-Z20VKR, CS-Z25VKR, CS-Z35VKR
*30m - CS-Z42VKR, CS-Z50VKR, CS-Z60VKR, CS-Z71VKR, CS-Z80VKR

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

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

(Random)

TOP-PANEL MAINTENANCE ACCESS
Easy access for maintenance.

OUTDOOR

Blue Fin Condenser

R32 REFRIGERANT

DRED ready

CU-Z20VKR
CU-Z25VKR
CU-Z35VKR

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

CU-Z80VKR

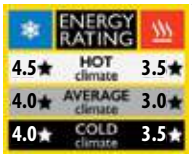
CS-RZ25WKRW | CS-RZ35WKRW | CS-RZ42WKRW | CS-RZ50WKRW

CS-RZ60VKRW-M | CS-RZ71VKRW-M | CS-RZ80VKR-M

Wireless Remote Controller

CZ-RD514C Wired Remoted Controller (Optional)

CZ-TACG1 Network Adaptor*1 (Optional)

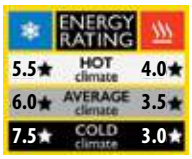


*Star rating: CS-RZ35WKRW (Residential)

Wireless Remote Controller

CZ-RD514C Wired Remoted Controller (Optional)

CZ-TACG1 Network Adaptor*1 (Optional)



*Star rating: CS-RZ35WKRW (Commercial)

SPECIFICATIONS

MODEL (240V / 1 Phase / 50Hz)			CS-RZ25WKR [CU-RZ25WKR]	CS-RZ35WKRW [CU-RZ35WKR]	CS-RZ42WKRW [CU-RZ42WKR]	CS-RZ50WKRW [CU-RZ50WKR]	CS-RZ60VKRW-M [CU-RZ60VKR]	CS-RZ71VKRW-M [CU-RZ71VKR]	CS-RZ80VKR-M [CU-RZ80VKR]
Cooling / Heating Capacity	(min-max)	kW	2.50 [0.95-3.00] 3.00 [0.90-3.60]	3.50 [1.00-3.90] 3.70 [0.90-5.10]	4.20 [1.15-5.00] 5.10 [0.90-6.80]	5.00 [1.15-5.50] 5.80 [0.98-7.50]	6.00 [0.98-6.60] 6.50 [0.98-8.00]	7.10 [1.70-8.10] 7.50 [1.70-9.90]	8.00 [2.30-9.00] 9.00 [2.20-11.00]
	(min-max)	Btu/h	8,530 [3,240-10,200] 10,200 [3,070-12,300]	11,900 [3,410-13,300] 12,600 [3,070-17,400]	14,300 [3,920-17,100] 17,400 [3,070-23,200]	17,100 [3,920-18,800] 19,800 [3,340-25,600]	20,500 [3,340-22,500] 22,200 [3,340-27,300]	24,200 [5,800-27,600] 25,600 [5,800-33,800]	27,300 [7,840-30,700] 30,700 [7,500-37,500]
Air Flow	Indoor	L/s	184/191	193/202	193/202	208/219	352/352	369/400	385/400
Dehumid		L/h	1.5	2.0	2.4	2.8	3.3	4.1	4.7
Electrical Data	Running Current	A	2.60/2.90	3.70/3.70	5.20/5.90	6.50/7.30	8.00/8.20	9.70/8.80	11.50/12.30
	Max Current	A	5.0	6.5	9.1	10.5	11.6	14.8	15.4
	Power Input (min-max)	kW	0.57 (0.21-0.89) 0.64 (0.19-1.04)	0.80 (0.21-1.19) 0.80 (0.19-1.42)	1.18 (0.23-1.64) 1.36 (0.20-2.04)	1.51 (0.23-1.80) 1.70 (0.26-2.30)	1.85 (0.28-2.20) 1.89 (0.26-2.64)	2.19 (0.45-2.67) 2.06 (0.40-2.85)	2.48 (0.46-2.98) 2.66 (0.50-3.30)
AEER / EER ACOP / COP		W/W W/W	4.29/4.39 4.59/4.69	4.30/4.38 4.55/4.63	3.52/3.56 3.71/3.75	3.28/3.31 3.38/3.41	3.22/3.24 3.42/3.44	3.22/3.24 3.62/3.64	3.21/3.23 3.37/3.38
Star Rating Residential/ Commercial	Hot Climate	TCSPF HSPF	4.5/6.0 3.5/3.5	4.5/5.5 4.0/4.0	3.5/4.5 3.0/3.0	3.5/4.5 3.0/3.0	3.5/4.0 3.0/3.0	3.0/3.5 3.0/3.0	3.0/3.0 3.0/2.5
	Average Climate	TCSPF HSPF	4.0/6.0 3.0/3.0	4.0/6.0 3.5/3.5	3.0/4.5 2.5/2.5	3.5/5.5 2.5/2.5	3.0/4.5 2.5/2.5	3.0/4.5 2.5/2.5	2.5/3.5 2.0/2.5
	Cold Climate	TCSPF HSPF	4.0/7.5 2.5/2.5	4.0/7.5 2.5/3.0	3.5/5.5 2.0/2.0	3.5/7.0 2.0/2.0	3.5/5.5 2.0/2.0	3.0/5.0 2.0/2.0	3.0/4.0 1.5/2.0
Noise Level	Sound Pressure Level*2 dB(A)	Indoor (H / L / Q-Lo)	40/25/19 40/27/21	44/26/19 44/29/22	44/31/28 44/33/28	44/34/28 44/33/28	46/36/33 46/36/33	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	52/47 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 60/49/44	60/50/44 60/49/44	62/52/49 62/52/49	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	66/61 68/63	69/64 69/64
Net Weight	Indoor (Outdoor)	kg	8(25)	8(31)	8(31)	8(36)	13(36)	13(50)	13(60)
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	302 x 1,102 x 244 619 x 824 x 299	302 x 1,102x 244 695 x 875 x 320	302 x 1,102 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	10	10	10
Additional Gas Amount		g/m	10	10	10	15	15	25	25
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Operating Range (Outdoor)	Cooling Heating	Degree °C	-10 ~ +46 -15 ~ +24	-10 ~ +46 -15 ~ +24	-10 ~ +46 -15 ~ +24	+10 ~ +46 -15 ~ +24	-10 ~ +46 -15 ~ +24	-10 ~ +46 -15 ~ +24	-10 ~ +46 -15 ~ +24
Refrigerant Type			R32	R32	R32	R32	R32	R32	R32

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

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

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

* Applicable to CS-RZ60VKRW-M, CS-RZ71VKRW-M & CS-RZ80VKR-M only

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

* Applicable to CS-RZ25WKRW, CS-RZ35WKRW, CS-RZ42WKRW & CS-RZ50WKRW only

COMFORT

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

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

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

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

MANUAL HORIZONTAL AIRFLOW DIRECTION CONTROL
* Applicable to CS-RZ25WKRW, CS-RZ35WKRW, CS-RZ42WKRW & CS-RZ50WKRW only

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

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

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

* Applicable to CS-RZ60VKRW-M, CS-RZ71VKRW-M & CS-RZ80VKR-M only

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

* Applicable to CS-RZ25WKRW, CS-RZ35WKRW, CS-RZ42WKRW & CS-RZ50WKRW only

SLEEP MODE
Delays off timer with temperature control for better sleep.

CLEAN & HEALTHY AIR

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

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

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

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

CONVENIENCE

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

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

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

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

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

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

* Network adaptor (CZ-TACG1) is required

RELIABILITY

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

LONG PIPING
Long piping offers more flexible installation options.

*20m - CS-RZ25WKRW, CS-RZ35WKRW, CS-RZ42WKRW

*30m - CS-RZ50WKRW, CS-RZ60VKRW-M, CS-RZ71VKRW-M, CS-RZ80VKR-M

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

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

TOP-PANEL MAINTENANCE ACCESS
Easy access for maintenance.

OUTDOOR

Blue Fin Condenser

R32 REFRIGERANT

DRED ready

CU-RZ25WKR
CU-RZ35WKR

CU-RZ42WKR
CU-RZ50WKR
CU-RZ60VKR

CU-RZ71VKR

CU-RZ80VKR

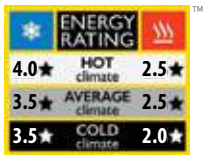
FLOOR CONSOLE : PREMIER SERIES - REVERSE CYCLE FLOOR CONSOLE Single- Split Type

CS-Z25UFRAW | CS-Z35UFRAW | CS-Z50UFRAW

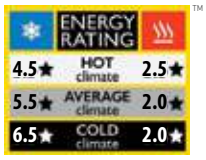
Wireless Remote Controller

CZ-RD514C Wired Remoted Controller (Optional)

CZ-TACG1 Network Adaptor*1 (Optional)



*Star rating : CS-Z50UFRAW (Residential)



*Star rating : CS-Z50UFRAW (Commercial)

SPECIFICATIONS

MODEL			(240V / 1 Phase / 50Hz)	CS-Z25UFRAW (CU-Z25UBRA)	CS-Z35UFRAW (CU-Z35UBRA)	CS-Z50UFRAW (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)		38/25/20 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) 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 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 and still have a relaxing sleep.

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

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

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

MANUAL HORIZONTAL AIRFLOW DIRECTION CONTROL

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

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

CLEAN & HEALTHY AIR

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

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

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

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

CONVENIENCE

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

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

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

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

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

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

* Network adaptor (CZ-TACG1) is required

RELIABILITY

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

LONG PIPING
Long piping offers more flexible installation options.

*20m - CS-Z25UFRAW, CS-Z35UFRAW
*30m - CS-Z50UFRAW

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

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

TOP-PANEL MAINTENANCE ACCESS
Easy access for maintenance.

OUTDOOR

Blue Fin Condenser

R32 REFRIGERANT

DRED ready

CU-Z25UBRA

CU-Z35UBRA

CU-Z50UBRA

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.

Compact and lightweight design to fit every building type

- The multi-split system offers greater installation versatility and space-saving choices for condominium with limited free space.

Wall-Mounted

Wireless Remote Controller Included

CZ-RD514C Wired Remote Controller (Optional)

Network Adaptor*5 (Optional)

Reverse cycle models

Model No	CS-MRZ16WKR	CS-MRZ20WKR	CS-RZ25WKRW	CS-RZ35WKRW
Capacity	1.6kW	2.0kW	2.5kW	3.5kW

Model No	CS-RZ42WKRW	CS-RZ50WKRW	CS-RZ60VKRW-M	CS-RZ71VKRW-M
Capacity	4.2kW*1	5.0kW*1	6.0kW*2	7.1kW*2*3

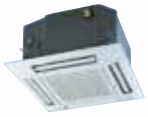
Ultra Slim Ducted

Wired Remote Controller Included

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

4-Way Mini Cassette



Panel CZ-BT30EW

Wireless Remote Controller Included

CZ-RD52CP Wired Remote Controller (Optional)

Network Adaptor*5 (Optional)

Model No	CS-Z25UB4RAW	CS-Z35UB4RAW	CS-Z50UB4RAW	CS-Z60UB4RAW
Capacity	2.5kW	3.5kW	5.0kW*1	6.0kW*2

Floor Console

Wireless Remote Controller Included

CZ-RD514C Wired Remote Controller (Optional)

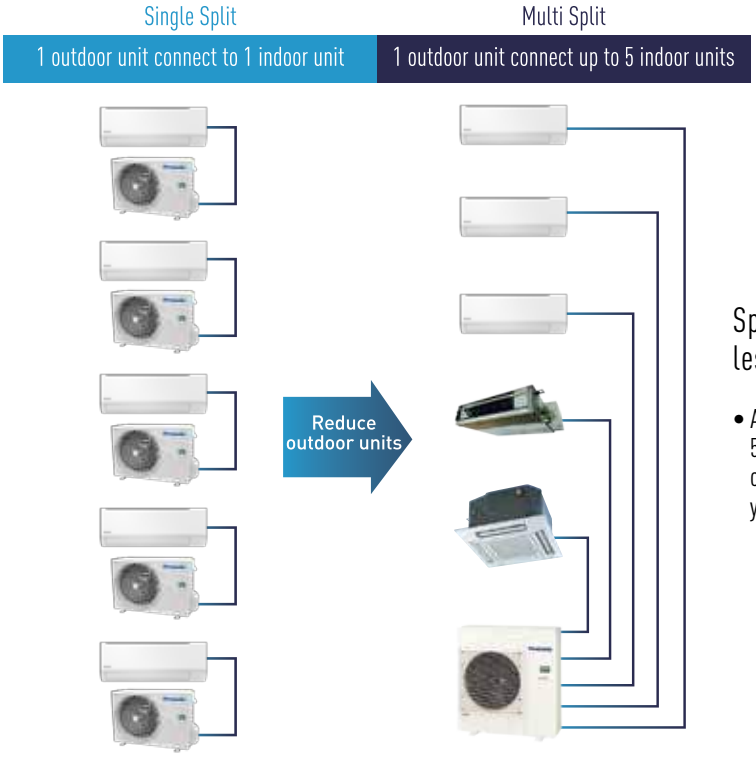
Network Adaptor*5 (Optional)

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

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

Advantages Of Multi-Split Air Conditioning System

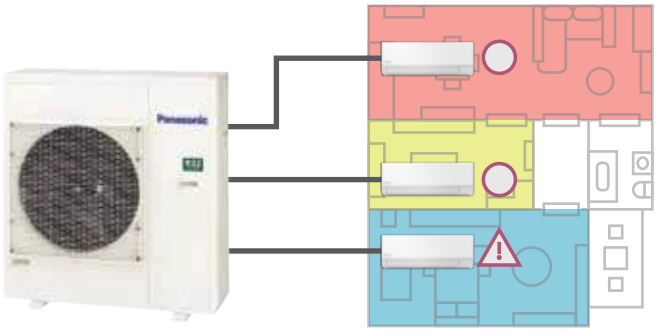
Space Saving



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.

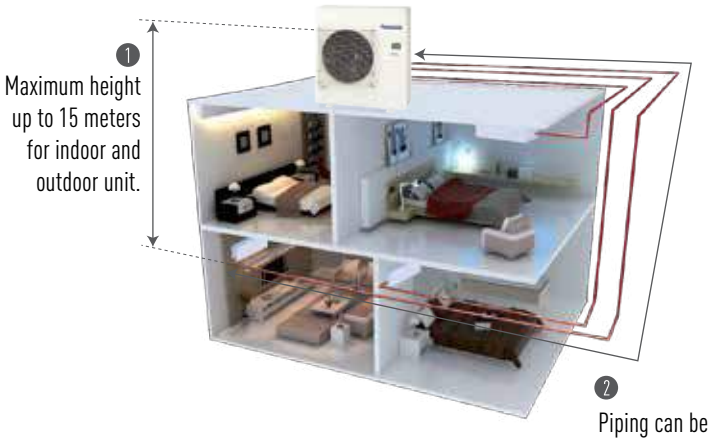
Independent Operation Control



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.

* Applicable to CU-5Z100VBR

Specifications

Models	Indoor Units: Possible Combination Patterns (Must be within capacity range)	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 (4-Way)	Ultra Slim Ducted	Floor Console
Up to 2 rooms	CU-2Z52VBR 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.	3.2 to 7.7 kW Make sure to keep combinations within this range.	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 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.	4.5 to 9.5 kW Make sure to keep combinations within this range.	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 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.	4.5 to 11.5 kW Make sure to keep combinations within this range.	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	●	●	●	

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

Outdoor

Blue Fin Condenser

R32 REFRIGERANT

Up to 2 rooms

CU-2Z52VBR

Up to 3 rooms

CU-3Z54VBR

Up to 4 rooms

CU-4Z71VBR

Specifications

Models	Indoor Units: Possible Combination Patterns (Must be within capacity range)	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 (4-Way)	Ultra Slim Ducted	Floor Console
Up to 4 rooms	CU-4Z80VBR 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.	4.5 to 14.7 kW Make sure to keep combinations within this range.	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	●	●	●	
			Room D	ø 6.35	ø 9.52						6.0	●	●	●	
											7.1	●			
Up to 5 rooms	CU-5Z100VBR 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.	4.5 to 18.3 kW Make sure to keep combinations within this range.	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	●			
											5.0	●	●	●	
			Room D	ø 6.35	ø 9.52						6.0	●	●	●	
											7.1	●			
			Room E	ø 6.35	ø 9.52										

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

Accessories

CZ-MA1P

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

CZ-MA2P

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

CZ-MA3P

*3 CZ-MA3P 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.

CZ-TACG1

*5 Network Adaptor (Optional)

Outdoor

Blue Fin Condenser

R32 REFRIGERANT

Up to 4 rooms

CU-4Z80VBR

Up to 5 rooms

CU-5Z100VBR

Indoor units

Cooling
Heating

Model			Wall-Mounted							
			CS-MRZ16WKR	CS-MRZ20WKR	CS-RZ25WKRW	CS-RZ35WKRW	CS-RZ42WKRW	CS-RZ50WKRW	CS-RZ60VKRW-M	CS-RZ71VKRW-M
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)	Cooling	dB(A)	41/27	42/27	42/27	46/28	47/33	46/36	48/38	51/39
	Heating		41/29	42/29	42/29	46/31	46/37	46/35	48/38	51/39
Sound Power Level (H/L)	Cooling	dB(A)	57/43	58/43	58/43	62/44	63/49	62/52	64/54	67/55
	Heating		57/45	58/45	58/45	62/47	62/53	62/51	64/54	67/55
Airflow	Cooling/Heating	L/s	183/192	190/198	190/193	195/213	198/213	332/338	353/353	385/395
Dimensions	Height	mm	290	290	290	290	290	290	302	302
	Width	mm	779	779	779	779	779	779	1,102	1,102
	Depth	mm	209	209	209	209	209	209	244	244
Net Weight		kg	8	8	8	8	8	8	13	13
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 9.52	ø 9.52	ø 9.52	ø 9.52*1	ø 9.52*1	ø 12.70*2	ø 12.70*2*3

Cooling
Heating

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

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

Outdoor Units

Cooling
Heating

Model			(50Hz)	CU-2Z52VBR	CU-3Z54VBR	CU-4Z71VBR	CU-4Z80VBR	CU-5Z100VBR
Indoor Units Combination				2.50kW + 2.50kW	1.60kW + 1.60kW + 2.00kW	1.60kW + 1.60kW +1.60kW + 2.00kW	2.00kW + 2.00kW + 2.00kW + 2.00kW	2.00kW + 2.00kW + 2.00kW + 2.00kW + 2.00kW
Power Source				Single Phase 240V, 50Hz				
Cooling Operation	Capacity (min-max)		kW	5.20 (1.50-6.00)	5.40 (1.80-7.30)	7.10 (1.90-8.80)	8.00 (2.30-9.20)	10.00 (2.30-11.50)
Maximum Connectable Capacity			kW	7.7	9.5	11.5	14.7	18.3
Maximum Connectable Indoors			Units	2	3	4	4	5
Electrical Data	Running Current		A	5.9	5.1	7.4	8.9	11.8
	Power Input (min-max)		kW	1.35 (0.25-1.62)	1.12 (0.36-2.18)	1.66 (0.34-2.47)	1.98(0.42-2.87)	2.60 (0.43-3.59)
	AEER/EER		W/W	3.79 / 3.85	4.74 / 4.82	4.23 / 4.28	4.00 / 4.04	3.81 / 3.85
Noise (H)	Sound Pressure Level		dB(A)	51	48	49	51	53
	Sound Power Level		dB(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	Degree (°C)		-10~+46	-10~+46	-10~+46	-10~+46	-10~+46
	Heating	Degree (°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

Panasonic®

- 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 October 2020.
- 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.

Authorised Dealer

Panasonic New Zealand Limited

18 Sir Woolf Fisher Drive,
Highbrook, East Tamaki,
Auckland 2013, New Zealand
Tel : 09 272 0100
Fax : 09 272 0134
Website: www.panasonicaircon.co.nz

Panasonic Heating & Cooling Solutions

Global site : aircon.panasonic.com
PRO Club : panasonicproclub.global
airconpanasonicglobal

AC-NZ-C-20