

# 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 September 2021.
- Due to printing considerations, the actual colours may vary slightly from those shown.
- All graphics are provided merely 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 Heating & Cooling Solutions

Global site : [aircon.panasonic.com](http://aircon.panasonic.com)  
 PRO Club : [panasonicproclub.global](http://panasonicproclub.global)

Panasonic HVAC Global

## Panasonic Customer Care Center

Ortigas Avenue Extension, Taytay, Rizal, 1920 Philippines  
 Hotline : (02)8-706-7603  
 PLDT Toll Free : 1800-10-7262782  
 GLOBE Toll Free : 1800-82-934357  
 Email : [pmpc\\_csdccic@ph.panasonic.com](mailto:pmpc_csdccic@ph.panasonic.com)  
 SMS (Text only) : TYPE Panasonic<space>message and send to  
 Globe/TM subscribers : 21584703  
 SMART, SUN, TNT subscribers : 225654703

Fax : (02)8-706-7612  
 Facebook : Panasonic Philippines  
 Official Website : <https://www.panasonic.com/ph>

## RESIDENTIAL AIR CONDITIONERS 2021/2022

WAKE UP REFRESHED



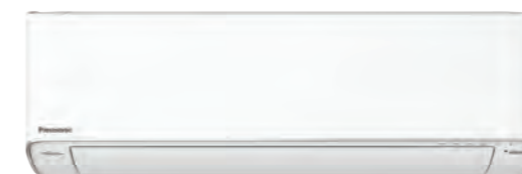
AWAY FROM HOME



PRECIOUS NIGHT SLEEP



FAMILY EVENING MOMENTS



PREMIUM INVERTER



DELUXE INVERTER



A Better Life, A Better World

QUALITY AIR FOR LIFE

# QUALITY AIR FOR LIFE



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

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

# Quality Air Solutions at Home

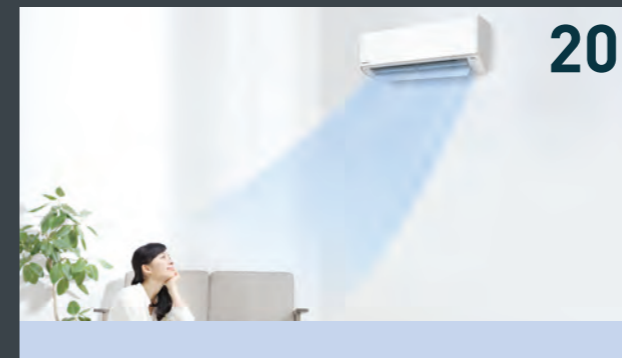
Panasonic offers a wide range of air conditioning solutions to purify and cool indoor spaces for comfort with energy efficiency for a lesser environmental impact. Connect with the Panasonic Comfort Cloud App that keeps you in touch with your home air conditioner remotely while you're away from home.



**AIR PURIFICATION**  
Purifies air and surfaces 24 hours a day



**AIR CONNECTIVITY**  
Stay connected and in control anywhere, anytime



**AIR CONDITIONING**  
Comfortable cool air for you and your family



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

<b>EASY INSTALLATION AND SERVICING</b>	<b>30</b>	<b>SPECIFICATIONS OF PREMIUM INVERTER</b>	<b>32</b>
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# 24-HOUR PROTECTION

with nanoe™ X + Comfort Cloud

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

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



Comfort Cloud App  
(Air Connectivity)



\*A router with Internet connection is required to connect your air conditioner with the Panasonic Comfort Cloud App. The CZ-TACG1 accessory is required for PREMIUM INVERTER (3.0HP), DELUXE INVERTER and STANDARD INVERTER (1.0HP-2.5HP). Built-in Wireless LAN is only available for PREMIUM INVERTER (1.0HP-2.5HP).

For more information on comfort cloud, please refer to page 14.

# Stay Safe Indoors with 24-Hour nanoe™ X Air Protection<sup>1</sup>

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 protection.



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

\*Energy consumption may vary depending on models.



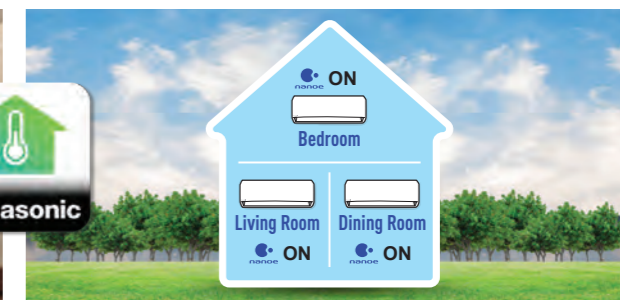
Provides a cleaner and comfortable space for you and your loved ones.

# Smartify Your Air Conditioner Anytime, Anywhere

Take control of single or multiple air conditioning units wherever you are. Purify your home with the Panasonic Comfort Cloud App on your mobile device on-the-move.



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



Convenience to monitor and manage the air conditioners with one mobile device.

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


# Activate nanoe™ X All Day Long

Making your home a safe place to be. nanoe™ X works at all hours of the day to bring you pleasant mornings and comfortable nights. Giving you a peace of mind, in the comfort of your own home.



**MORNING**

## WAKE UP REFRESHED



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


Odours

Allergens

Bacteria & Viruses

**NOON**

## AWAY FROM HOME



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

Bacteria & Viruses

Hazardous Substances

Mould

**EVENING**

## FAMILY EVENING MOMENTS



Return home to cooling and refreshing air as the air conditioner cools your home and nanoe™ X inhibits pollutants at the same time.


Odours

Pollen

Bacteria & Viruses

**NIGHT**

## PRECIOUS NIGHT SLEEP



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

Moisturise Hair & Skin

Bacteria & Viruses

Cool + nanoex



nanoex

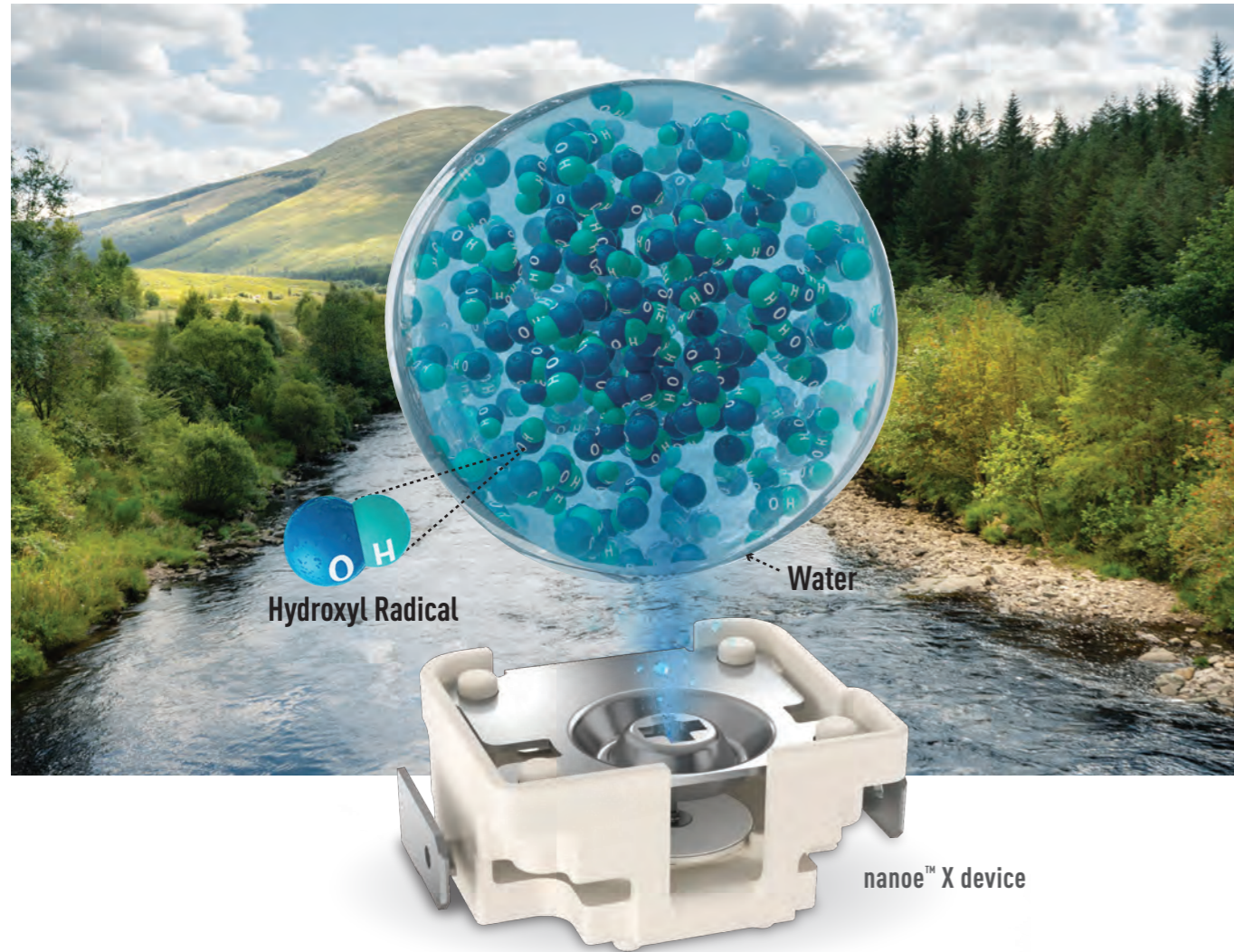


Cool + nanoex



Cool + nanoex



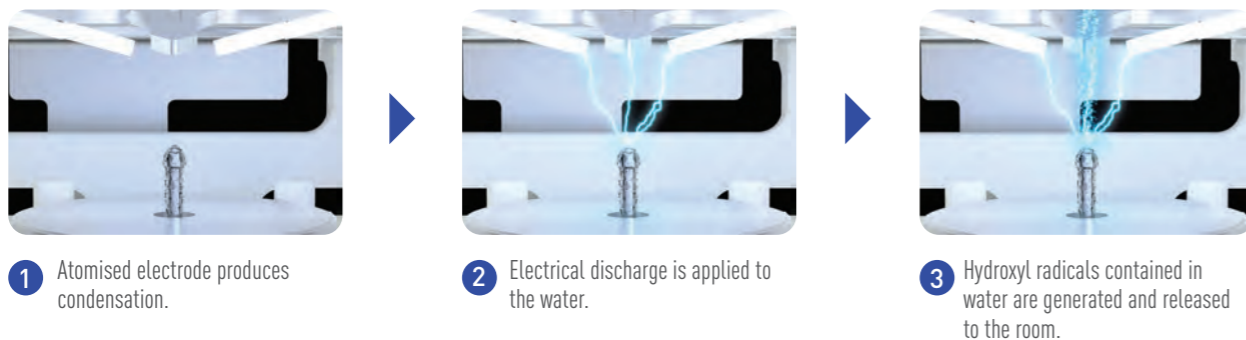


# nanoe™ X, Technology with the Benefits of Hydroxyl Radicals

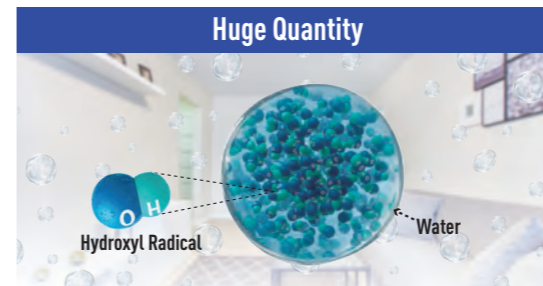
Known as nature's detergent, hydroxyl radicals (also known as OH radicals) are natural reactive molecules looking to react with other elements such as hydrogen. This reaction enables hydroxyl radicals to inhibit the growth of pollutants.

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?

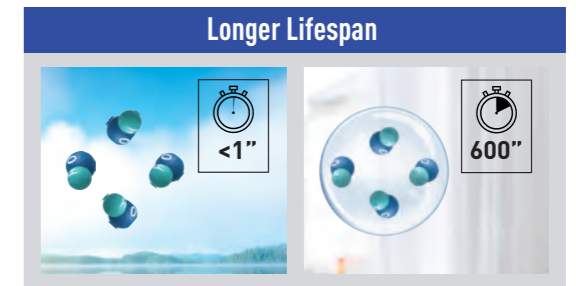


# Uniqueness of nanoe™ X



nanoe™ X produces 9.6 trillion hydroxyl radicals per second\*. Large amounts of hydroxyl radicals contained in nanoe™ X lead to outstanding effects in inhibiting pollutants.

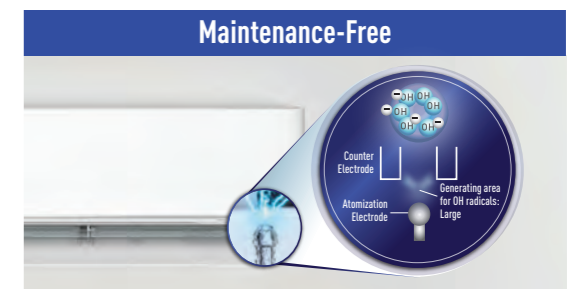
\*nanoe X Generator Mark 2 generates 9.6 trillion hydroxyl radicals per second (Applicable to PREMIUM INVERTER 1.0HP-2.5HP). nanoe X Generator Mark 1 generates 4.8 trillion hydroxyl radicals per second (Applicable to DELUXE INVERTER).



nanoe™ X technology creates hydroxyl radicals contained in water, enhancing their lifespan from less than a second to more than 600 seconds (10 mins) to spread across long distances.



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



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



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



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

Visit our website for a list of safety data: <https://www.panasonic.com/ph/nanoe.html>



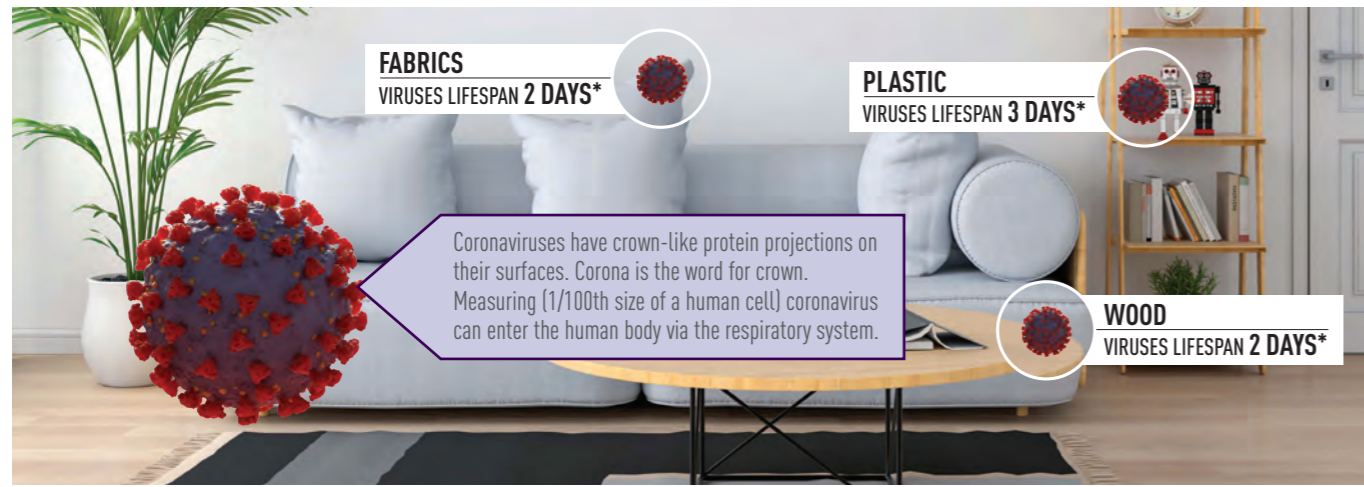
## Asthma and Allergy Friendly



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 Asian 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 bring you Quality Air, for Life.



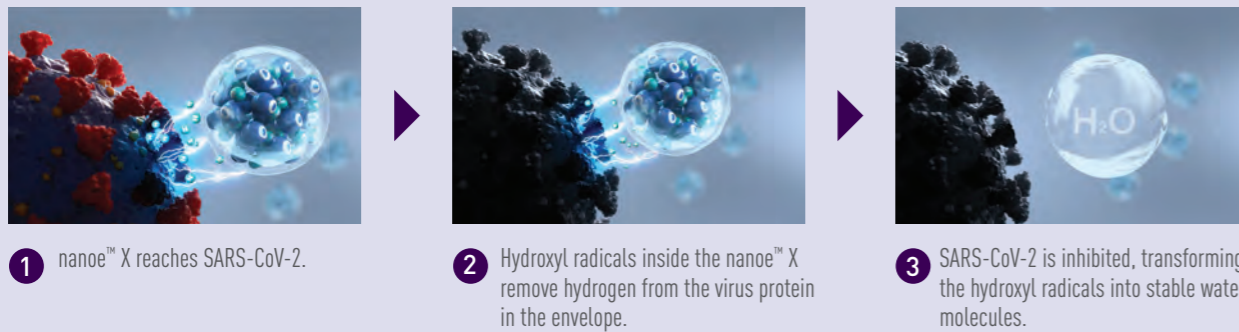
\*Virus Lifespan: <https://www.businessinsider.com/coronavirus-lifespan-on-surfaces-graphic-2020-3>

# Effective in Inhibiting Novel Coronavirus

COVID-19 pandemic triggered by the Novel Coronavirus (SARS-CoV-2) has brought social distancing and constant sanitisation as the new normal in our daily lives. nanoe™ X enables you to engage in more proactive activities through active purification to inhibit coronavirus around the clock.

## Inhibiting SARS-CoV-2 with nanoe™ X

nanoe™ X with hydroxyl radicals contained in water denatures the envelope's lipids and protein of viruses and inhibits it.

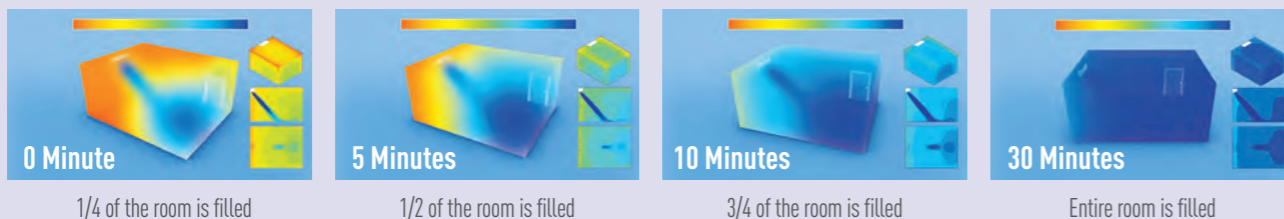


# The Power of nanoe™ X

Featuring a long lasting lifespan and huge amounts of hydroxyl radicals contained in water, nanoe™ X has the ability to travel for widespread coverage, especially in large spaces of 54m³ to inhibit airborne and surface pollutants throughout the area.

## nanoe™ X Concentration Simulation

nanoe™ X concentration has been simulated in a 54m³ (4m x 5m x 2.7m) room to fill for a duration of 30 mins. The bluer the colour, the higher the nanoe™ X concentration.



\*Photograph is for illustrative purposes.



### Overview

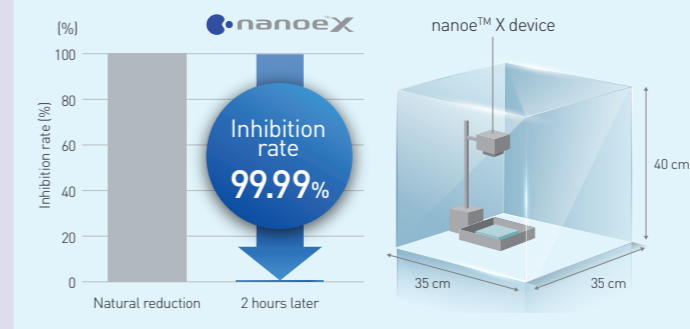
The objective of this test was to determine if nanoe™ X inhibits the activity of the SARS-CoV-2 virus. Gauze saturated with SARS-CoV-2 virus solution was exposed to a generator of nanoe™ X from a distance of 15cm in a 45L box for 2 hours. Over 99.99% of the activity of the SARS-CoV-2 virus was inhibited.

### Details

- (1) Testing organisation: TEXCELL (France)
- (2) Test subject: novel coronavirus (SARS-CoV-2)
- (3) Test volume: 45L enclosed box (400 mm x 350 mm x 350 mm)
- (4) Exposure time: 2 hours
- (5) Exposure distance: 15cm

## Test of a generator of nanoe™ X

Test results: SARS-CoV-2



Notes: (1) The virus infectious titer was measured and used to calculate the inhibition rate. (2) This verification was designed to generate basic research data on the effects of nanoe™ X on the novel coronavirus in laboratory conditions. It was not designed to evaluate product performance.

### Overview

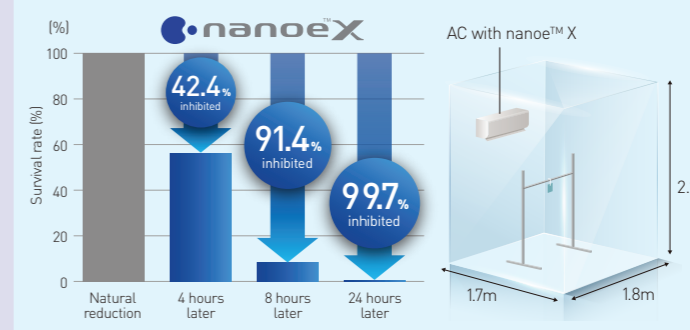
The objective of this test was to determine if nanoe™ X inhibits the activity of the SARS-CoV-2 virus. Gauze saturated with SARS-CoV-2 virus solution was exposed to an air conditioner with nanoe™ X from a distance of 0.7 m in a 6.7 m³ room for 8 hours. Over 91% of the activity of the SARS-CoV-2 virus was inhibited.

### Details

- (1) Testing organisation: Texcell (France)
- (2) Test subject: novel coronavirus (SARS-CoV-2)
- (3) Test volume: 6.7 m³ room (1.7 m x 1.8 m x 2.2 m)
- (4) Exposure time: 8 hours

## Test of an air conditioner with nanoe™ X

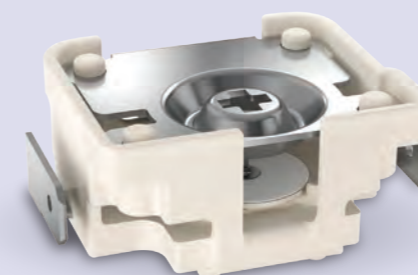
Test results: SARS-CoV-2



Notes: (1) The virus infectious titer was measured and used to calculate the inhibition rate. (2) This verification was designed to generate basic research data on the effects of nanoe™ X on the novel coronavirus in laboratory conditions. Actual effects will vary depending on the environment and usage of the product.

## The Development of nanoe™ X Generators

Enhancing the effectiveness of hydroxyl radicals contained in water through every new and improved nanoe™ X generator.

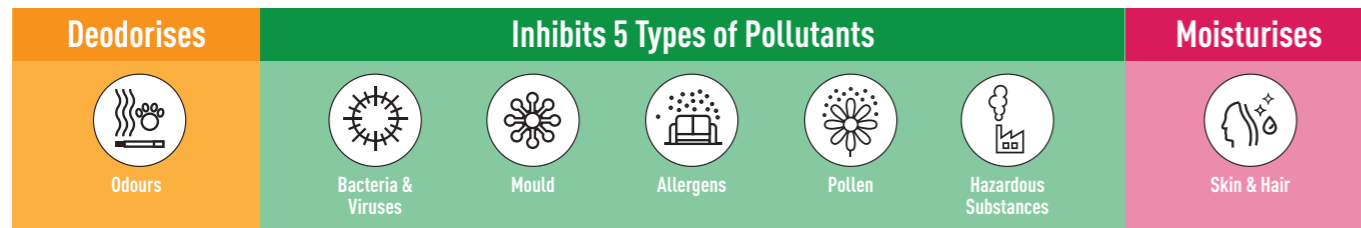


nanoe™ X		
Generator	Mark 1	Mark 2 <b>NEW</b>
	4.8 trillion hydroxyl radicals/sec	9.6 trillion hydroxyl radicals/sec
Ion particle structure		



# 7 Effects of nanoe™ X

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



## Deodorises Various Types of Odours

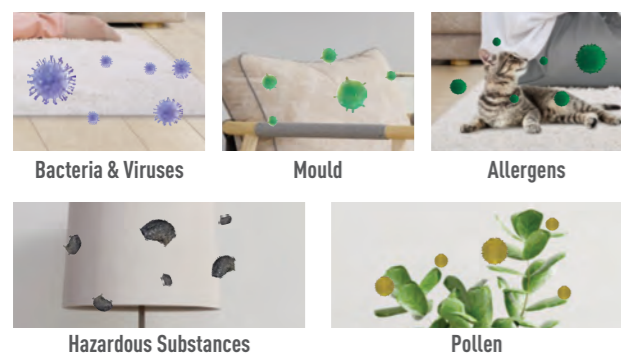


nanoe™ X reduces strong, adhesive odours<sup>1</sup> by deeply penetrating into fabrics, resulting in lasting freshness in your living space.

### How nanoe™ X Reduces Odour



## Inhibits 5 Types of Pollutants



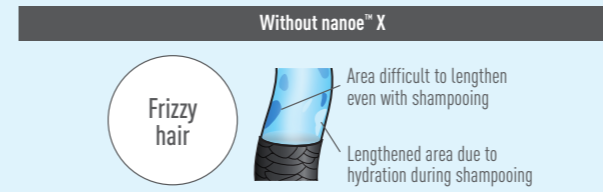
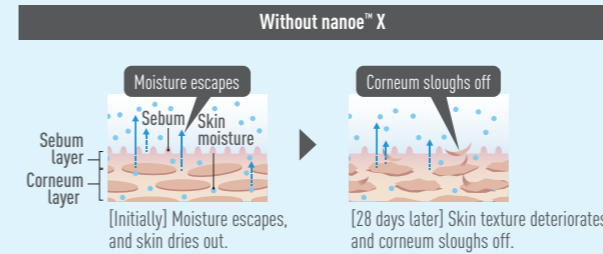
nanoe™ X inhibits airborne and adhered pollutants<sup>2</sup>, providing better air quality for your loved ones.

### How nanoe™ X Inhibits Pollutants

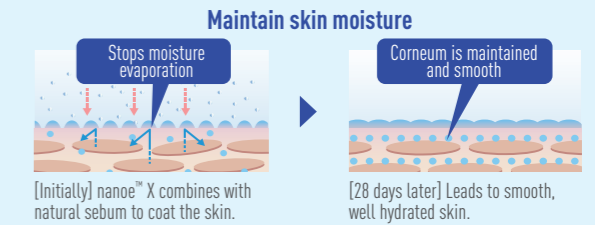


## Moisturises Skin and Hair

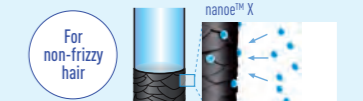
nanoe™ X water particles help to achieve proper moisture balance, resulting in smooth, hydrated skin and hair<sup>3</sup>.



### How nanoe™ X works



### Maintain straighter, smoother hair



## nanoe-G

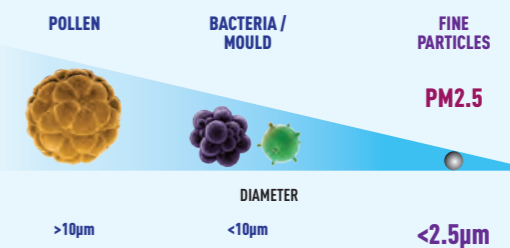
Effective in removing 99% of dust particles<sup>4</sup>, nanoe-G releases negative ions to capture dust particles sized as small as PM2.5, carrying them back to the filter to provide a clean and pristine living space.

## Dust Removal (PM2.5)

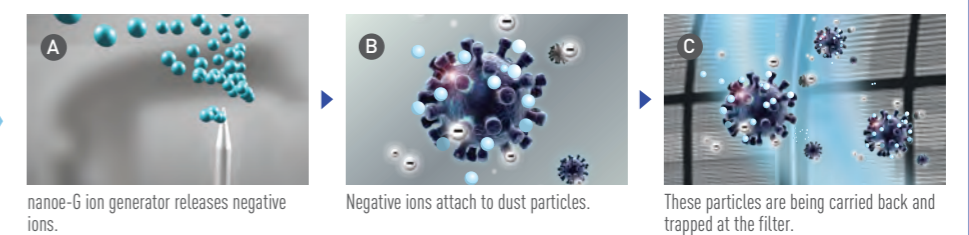


### What is PM2.5?

PM or "Particulate Matter" comprises of tiny particles and liquid droplets. Measuring less than 2.5 micrometers (PM2.5), these particles pose health risks as they can enter our lungs easily. PM2.5 can be found airborne, including dust, dirt, smog and water droplets.



### How nanoe-G works



<sup>1</sup>Please refer to page 57 <sup>2</sup>Please refer to page 58 <sup>3</sup>Please refer to page 63 <sup>4</sup>Please refer to page 65



# 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.

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.

### XU SERIES WITH BUILT-IN WIRELESS LAN

NEW 2021



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

### AIR CONDITIONER WITH OPTIONAL NETWORK ADAPTOR



Optional network adaptor is required

# Smartify Your Air

Applicable for Residential Properties and Premises

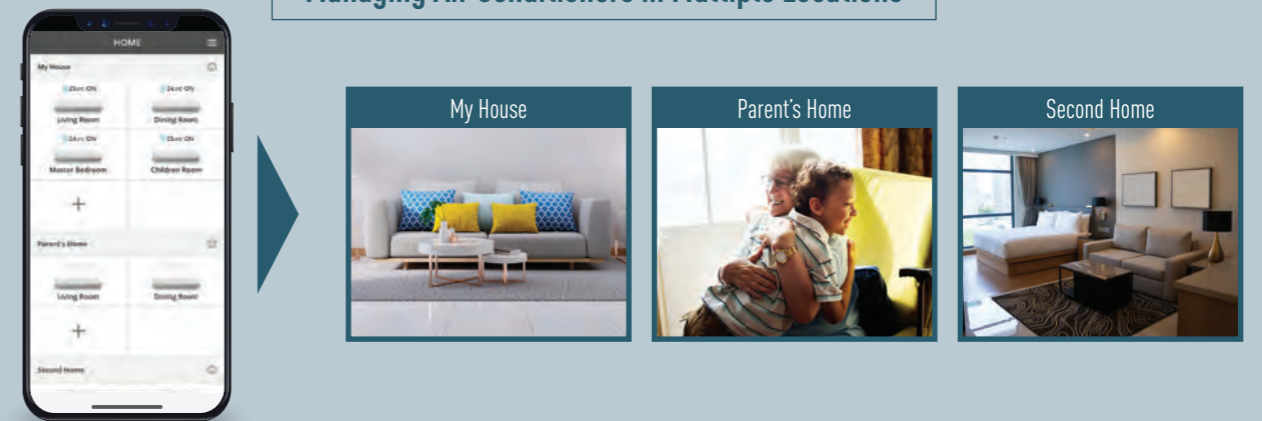
## SMART CONTROL

### Control Multiple Air Conditioners in Single/Multiple Locations

#### Managing Air Conditioners in Single Location



#### Managing Air Conditioners in Multiple Locations



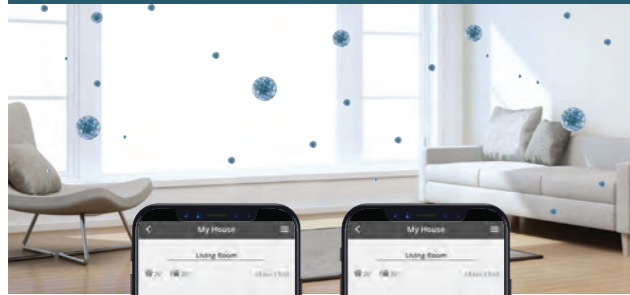
Monitor and control single and multiple air conditioners at one or more locations simultaneously anytime, anywhere with the Panasonic Comfort Cloud App. Switch ON or OFF all air conditioners at a single location also available at your convenience.



## SMART COMFORT

### Turn ON nanoe™ Mode

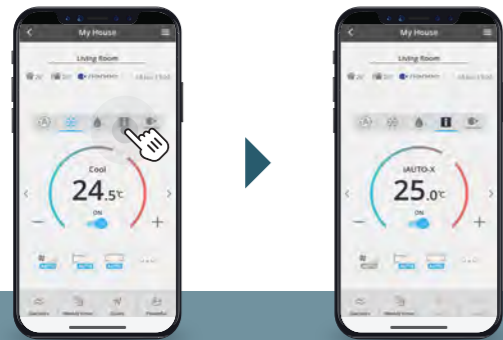
Switch on nanoe™ mode with cooling OFF



Switch on nanoe™ mode with cooling ON

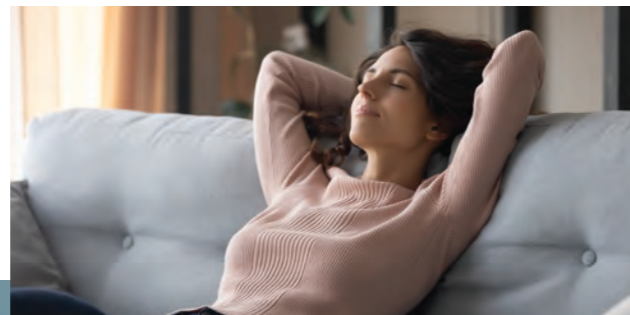


### Switching Air Conditioner Mode



Activate iAUTO-X to enjoy rapid cooling on a hot day.

### Adjust Fan Speed And Air Swing



Enjoy comfortable cooling by adjusting the fan speed, air swing (up & down) or (left & right).

\*Functions availability may vary depending on models.

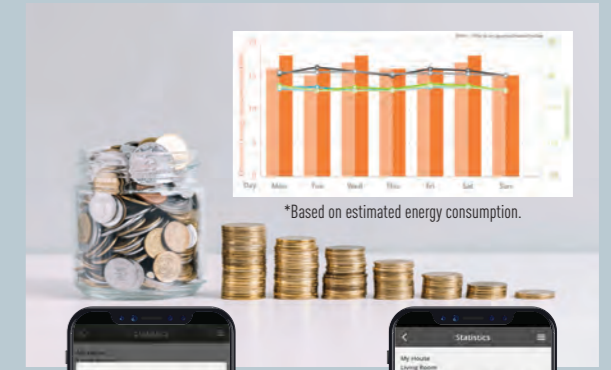
## SMART EFFICIENCY

### Set Timer

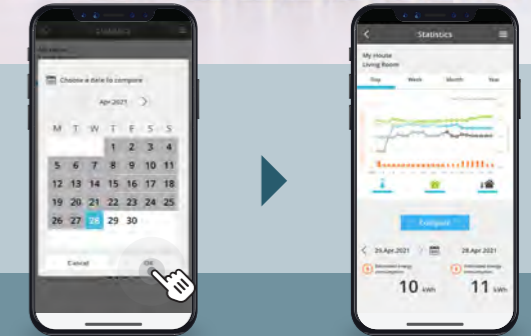


Schedule nanoe™ X with cooling ON or OFF and pre-cool your house for you to enjoy clean air and comfortable cooling.

### Track Energy Consumption



\*Based on estimated energy consumption.



View energy consumption of individual units by comparing the usage patterns daily/weekly/monthly/yearly.

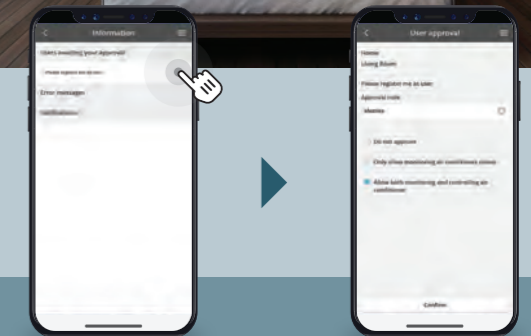
## SMART ASSIST

### Error Notifications



Identify errors by checking error notifications to inform your technician to repair your air conditioner quickly.

### User Assignment & Management



Assign user profiles to control or view selected air conditioning units.

# Panasonic Comfort Cloud App

## Main Function Overview

**Main Device Screen**

- 1** Living Room (Room selection)
- 2** My House (Home overview)
- 3** Indoor Air Temperature (26°)
- 3** Outdoor Ambient Temperature (28°)
- 3** ECO+A.I. mode
- 3** nanoe (Air purification)
- 3** 18 Jan 13:02 (Time/Date)
- 3** Operation Mode (Cool, Heat, Dry, Auto)
- 3** Set Temperature Display (24.5°C)
- 3** Switch AC in Same Location Group
- 3** ON/OFF Air Conditioner
- 3** Setting Temperature Change
- 3** Fan Speed Adjustment (AUTO, AUTO, AUTO)
- 3** Air Swing Adjustment
- 5** Statistics
- 6** Weekly timer
- 6** Quiet
- 6** Powerful
- Basic Features**

**1 Group Status**

My House

- Living Room: ON 24.5°C
- Dining Room: ON 25.0°C
- Master Bedroom: ON 24.5°C
- Children Room: ON 25.0°C

All OFF | All ON

**2 Main Menu**

- Owner
- Device list
- Group list
- Application settings
- User's manual
- Terms of use
- Privacy Notice
- Copyright
- Logout

**3 Notification**

Users awaiting your approval

Please register the device

Error messages

Notifications

**4 ON/OFF nanoe™ & ECO**

nanoe

ECO

OK

**5 Statistics**

My House Living Room

Day Week Month Year

Compare

28 Apr 2021

Estimated energy consumption: 11 kWh

**6 Weekly Timer**

My House Living Room

Monday

No.	Time	Settings
1.	10:00	24°C
2.	19:00	24°C
3.	-	-
4.	-	-
5.	-	-
6.	-	-

Copy | Apply

## Requirements for Connecting with Panasonic Comfort Cloud App

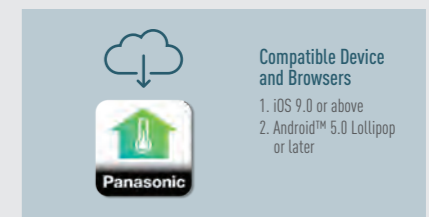


**Indoor Unit-Network**  
Air Conditioner equipped with built-in Wireless LAN/CZ-TACG1 optional network adaptor connected to port CN-CNT\*



**Other Hardware Requirements\***  
Router - Internet - Smartphone (Required 2.4GHz transmission channel)

\*Purchase and subscribe separately.



**Download Free App**



Download on the App Store



GET IT ON Google Play

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

\*For PREMIUM INVERTER (3.0HP), DELUXE INVERTER and STANDARD INVERTER (1.0HP-2.5HP), you need accessory CZ-TACG1 connected to port CN-CNT. Built-in Wireless LAN is only available for PREMIUM INVERTER (1.0HP-2.5HP).

\*Screen capture based on current Comfort Cloud app version 1.12.0

\*Illustration of app screens may differ from actual screen appearance.



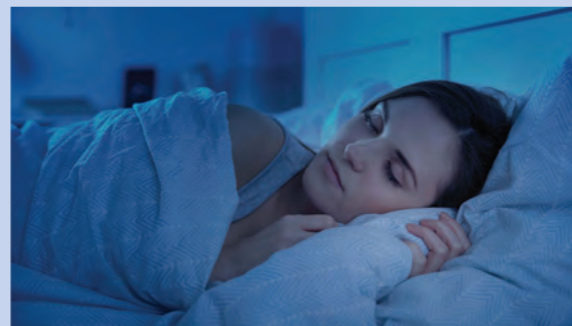
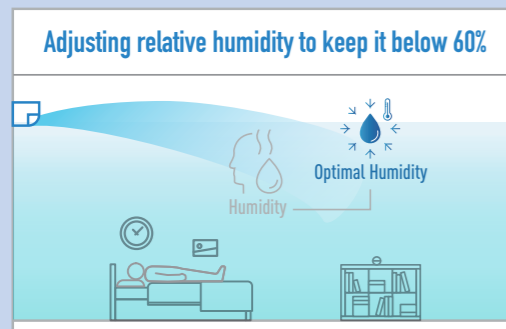
### Problems Caused by High Humidity

A high relative humidity even with a low temperature may increase the risk of heat stroke. Causing discomfort and irregular sleep cycles.



## Humidity Sensor Optimises An Ideal Sleeping Environment<sup>1</sup>

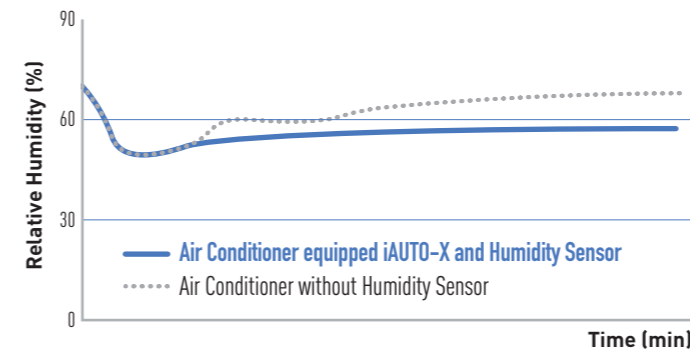
Panasonic's new iAUTO-X with the Humidity Sensor constantly monitors and adjusts relative humidity levels to below 60% for an optimal sleeping environment, so you can enjoy better sleep with comfortable cooling.



<sup>1</sup>Applicable to PREMIUM INVERTER (1.0HP-2.5HP) only.

## How Humidity Control Works

The new iAUTO-X with the Humidity Sensor constantly monitors and adjusts relative humidity to below 60% according to different environments with the set temperature that ensures a balanced cooling sensation throughout by reducing heat for optimal cooling.



\* Comparison of iAUTO-X Mode & normal COOL mode by using 1.5HP PREMIUM INVERTER Model

**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 Cool 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

Average Room RH is measured every 1 hour up to 4th hour (under stable condition).  
 At Panasonic Amenity Room [size:16.6m<sup>2</sup>]  
 The effect differs according to conditions in installation and usage.



Without the humidity sensor, relative humidity increases in the room during stable operation causing uncomfortable sleeping environments.

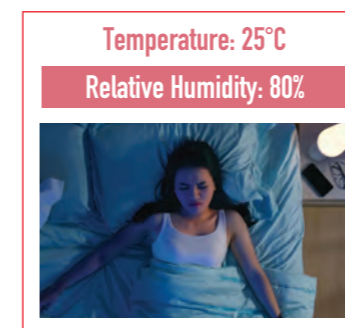


The humidity sensor automatically controls relative humidity below 60% to remain stable and comfortable during bedtime.

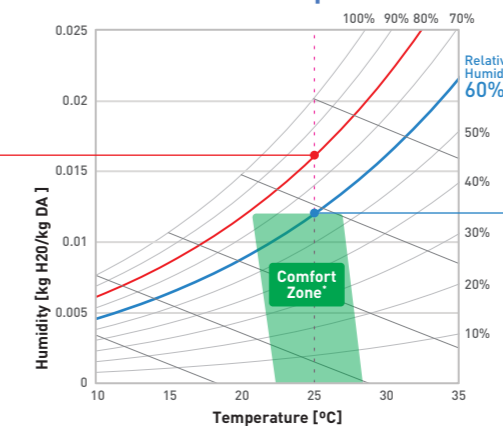
## Balancing Temperature and Humidity for Comfort

With lower humidity at the same temperature, the room will feel more comfortable and cooler compared to higher humidity.

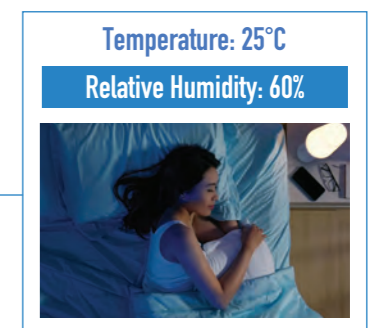
### Comfort Zone Based on Temperature vs Humidity



At set temperature of 25°C, the room feels uncomfortable in high humidity.



Comfort zone defined by ASHRAE STANDARD.  
 \*ANSI/ASHRAE Standard 55-2010

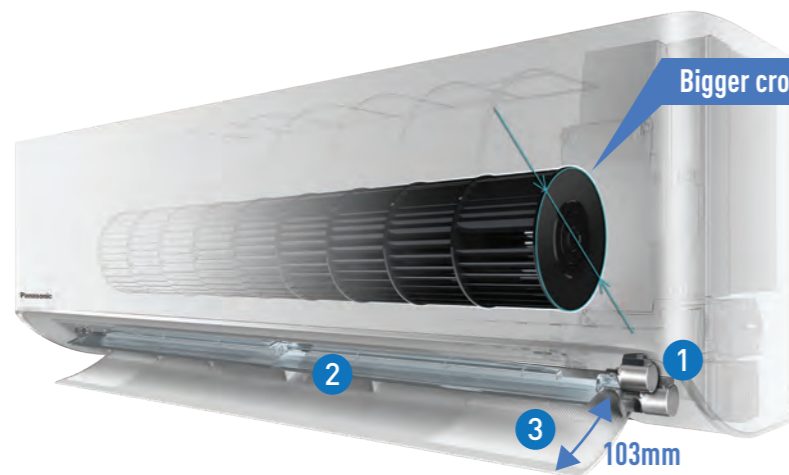


At set temperature of 25°C, the room feels more comfortable when the relative humidity is below 60%.



# 15 Meters Long Air Distance with The Improved New AEROWINGS<sup>1</sup>

Evolving to provide fast and cooling comfort, the New AEROWINGS incorporates two independently controlled flaps to cool the room in the shortest time possible with a bigger cross flow fan (105mm) and flap (103mm), improving the ability to lift air speed efficiently.



The new AEROWINGS provides longer airflow up to 15 meters with increased airflow by 10% and air speed by 20%<sup>2</sup>.

**1 2 Independent Motors**  
Control the Sub-Flap and Bigger Outer Flap separately.

**2 Sub-Flap**  
Compresses and concentrates cool air.

**3 Bigger Outer Flap (103mm)**  
Helps to deliver airflow further.

<sup>1</sup>Applicable to PREMIUM INVERTER (1.0HP-2.5HP) only. <sup>2</sup>Compared to previous PREMIUM model (1.5HP)

## NEW AEROWINGS



### Shower Cooling

Shower airflow spreads fast, cool and concentrated air across room and to the wall, then showers down gently.



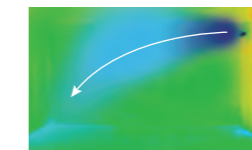
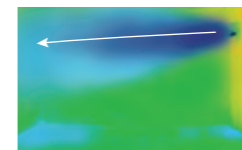
### Fast Cooling

AEROWINGS twin flaps direct concentrated airflow downwards to cool you rapidly.

### Shower Cooling Airflow Assessment

New AEROWINGS

Previous AEROWINGS



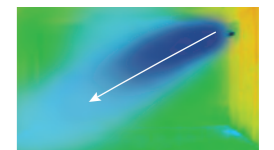
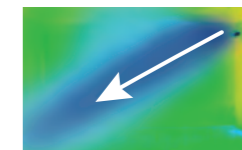
cooler ← warmer

The New AEROWINGS provides stronger and cooler air further up to 15 meters and directs airflow more upwards towards the ceiling to avoid direct and over cooling.

### Fast Cooling Airflow Assessment

New AEROWINGS

Previous AEROWINGS



cooler ← warmer

The New AEROWINGS directs concentrated airflow downwards for instant cooling. The room is cooled faster with stronger and cooler air.

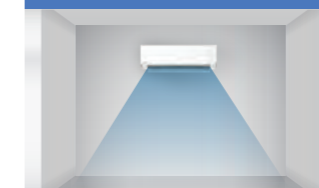
## Efficient Airflow with Location Information Setting<sup>3</sup>

Store and set the location of your installed air conditioner unit using the remote controller. Based on location information, airflow will be automatically optimised, sending airflow to the centre of the room. This gives more flexible installation options and efficient cooling enjoyment to its full potential with location information setting.

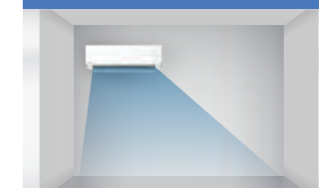
### With location information

Air flows at the centre to cool evenly.

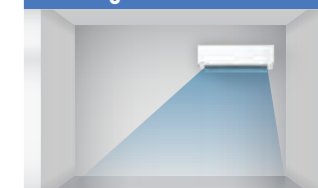
Centre Installation



Left Installation



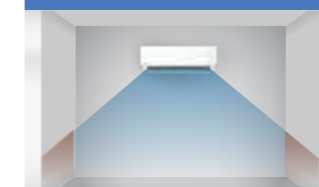
Right Installation



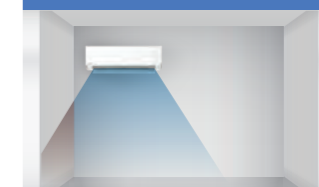
### Without location information

Air flows unevenly, reducing cooling efficiency.

Centre Installation



Left Installation



Right Installation

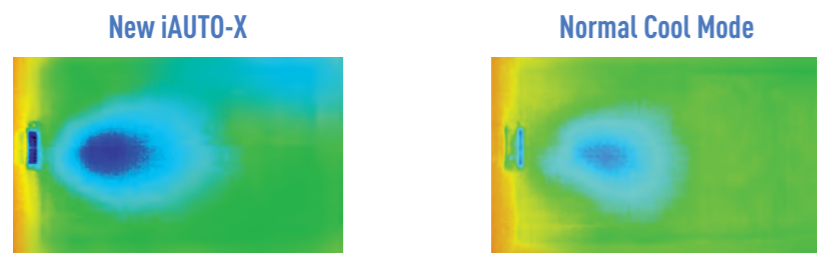
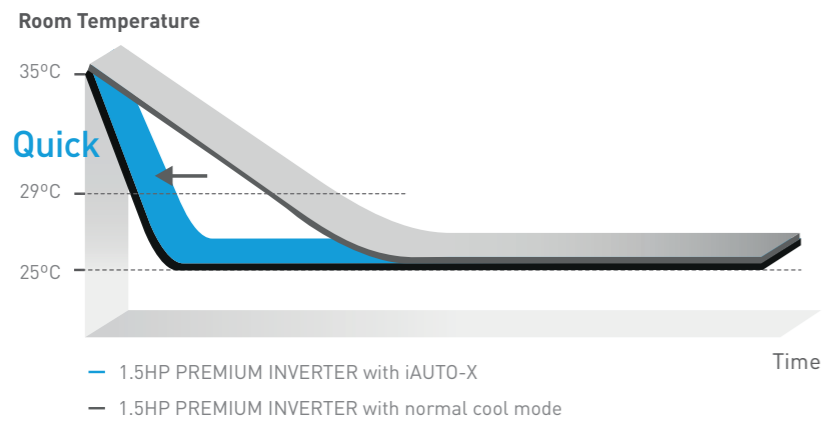


<sup>3</sup>Applicable to PREMIUM INVERTER (1.0HP-2.5HP) only. For setting the airflow with location information, please contact authorised AC services providers or installers.



## Faster Cooling with iAUTO-X<sup>1</sup>

iAUTO-X provides stronger and 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.



cooler ← → warmer

New iAUTO-X: Concentrated airflow cools instantly. Room is evenly cooled.

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

**25%\***  
COOLER  
FASTER

\* Comparison of iAUTO-X Mode & normal COOL mode by using 1.5HP PREMIUM INVERTER Model

**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

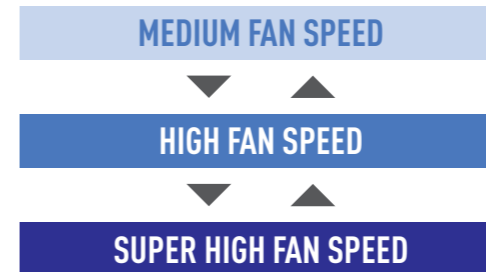
**Normal Mode:**  
Cool Mode, Outside temperature : 35°C/24°C  
Remote setting temperature : 25°C, with Fan Speed: High  
Horizontal Airflow direction : Middle  
Vertical Airflow direction : Straight

Total time needed to cool down the room from 35°C to 29°C is measured.  
At Panasonic Amenity Room [size:16.6m<sup>2</sup>]  
The effect differs according to conditions in installation and usage.

## Uniqueness of iAUTO-X<sup>1</sup>

### Automatic Fan Speed

iAUTO-X automatically switches fan speed to medium fan speed, high fan speed and super high fan speed depending on the temperature difference between the room and set temperature.



### Flap Movement

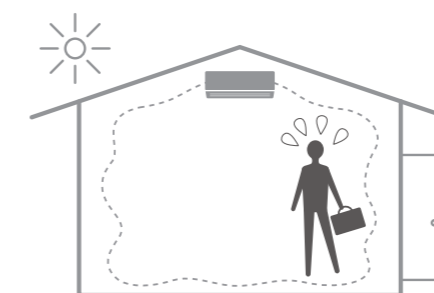
After reaching the set temperature, the flap moves upwards automatically to perform shower cooling for an even cooling sensation at the set temperature avoiding direct cooling towards the body.



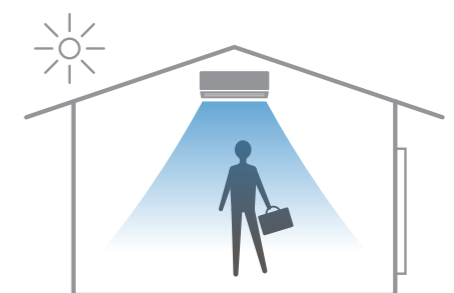
### Reactivate iAUTO-X<sup>1</sup>



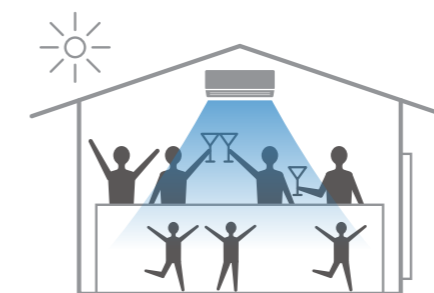
Reactivate faster cooling with a second press of the iAUTO-X button!



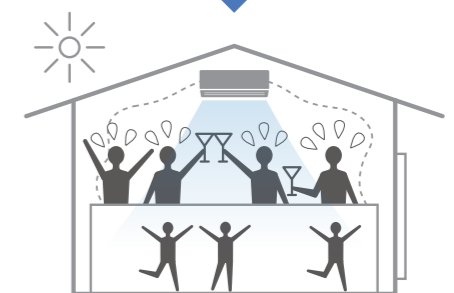
Arriving home from a hot day outside



Turn on iAUTO-X on start-up for instant cooling



Reactivate iAUTO-X for you and your family to enjoy instant cooling again!



The room becomes hot with more people during stable temperature

<sup>1</sup> Applicable to PREMIUM INVERTER (1.0HP-2.5HP) only.



## 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 power and efficient energy usage for better savings and energy consumption that's good for both you and the environment.

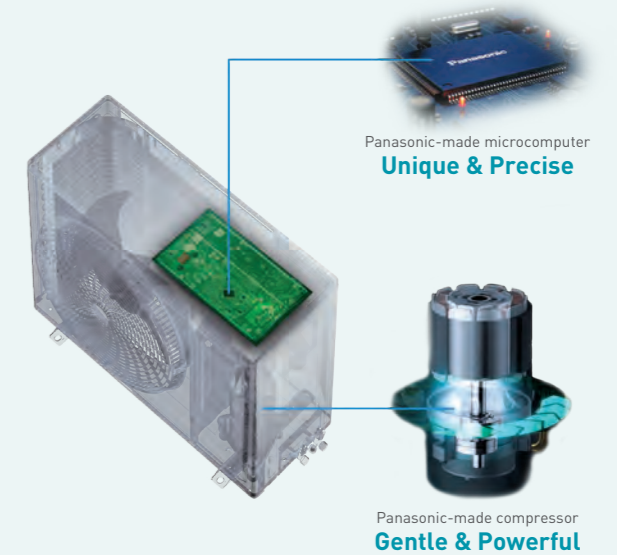
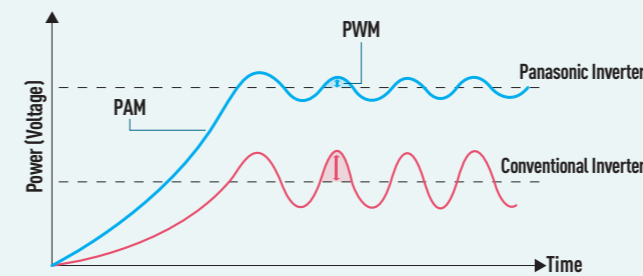


## Powerful Performance with Efficiency

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 comfort.

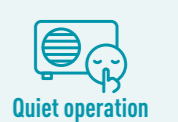
### Quick Cooling and Constant Comfort

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



### Benefits of Panasonic Inverter Technology

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



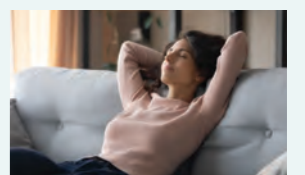
### Reasons to Choose Panasonic Inverter Air-Conditioner



**Save on Your Electricity Bill**  
Panasonic inverter air conditioner prevents overcooling or overheating regardless of room size or condition.



**Stay Cool 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.



Learn more about Inverter Technology at <https://www.panasonic.com/ph/consumer/air-conditioner-learn/features-explanation/inverter-technology.html>



## An Environmental-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 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 <sub>2</sub> F <sub>2</sub>	CH <sub>2</sub> F <sub>2</sub> / CHF <sub>2</sub> CF <sub>3</sub>	CHClF <sub>2</sub>
Boiling Point (°C)	-51.7	-51.5	-40.8
Ozone Depletion Potential (ODP)	0	0	0.055
Global Warming Potential (GWP)	675	2090	1810
Pressure	1.6 x	1.6 x	1x
Refrigerant Oil	Synthetic Oil (FW50S)	Synthetic Oil (FV50S)	Mineral Oil
Toxicity	None	None	None
Flammability	A2L Mildly flammable	A1 Non-flammable	A1 Non-flammable



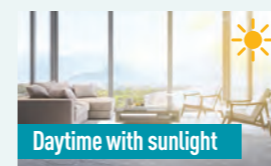
## Intelligently Balances Energy Savings and Comfort

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

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

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

### When Your Air Conditioner is Switched On



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



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



\*Comparison of ECO Mode & normal mode by using 1.5HP 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 : 13.3m<sup>2</sup>)  
The effect differs according to conditions in installation and usage

\* Applicable for models with ECO+A.I. function 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<sup>1</sup>.



<sup>1</sup> Good Design Award 2020 applicable to DELUXE INVERTER (1.0HP-2.0HP), STANDARD INVERTER (1.0HP- 2.0HP) and STANDARD NON-INVERTER (1.0HP-1.5HP).

## Easy Breezy Installation & Servicing

### 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.

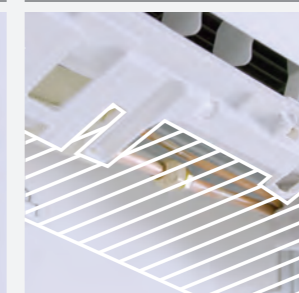
### EASY ACCESS

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 and piping



More open working spaces provide 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 plus 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



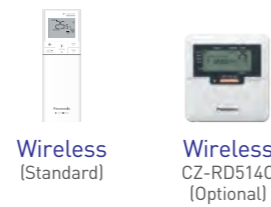
Ensures indoor units fit well on the wall without any gaps.



**WALL-MOUNTED** PREMIUM **INVERTER** Single-Split Type **NEW**



CS-XU9XKQ | CS-XU12XKQ



Wireless (Standard) Wireless CZ-RD514C (Optional)



CS-XU18XKQ | CS-XU24XKQ



Wireless (Standard) Wireless CZ-RD514C (Optional)



MODEL	INDOOR UNIT (60Hz)		CS-XU9XKQ	CS-XU12XKQ	CS-XU18XKQ	CS-XU24XKQ
	OUTDOOR UNIT		CU-XU9XKQ	CU-XU12XKQ	CU-XU18XKQ	CU-XU24XKQ
Cooling Capacity	[min-max]	kW	2.55 [0.92-3.20]	3.50 [1.02-4.20]	5.30 [1.10-6.21]	6.10 [1.12-7.18]
	[min-max]	kJ/h	9,180 [3,310-11,520]	12,600 [3,670-15,120]	19,080 [3,960-22,360]	21,960 [4,030-25,850]
EER	[min-max]	kJ/hW	14.34 [14.71-13.09]	14.00 [14.12-12.81]	15.14 [15.84-13.15]	14.17 [16.12-12.61]
Electrical Data	Voltage	V	230	230	230	230
	Current	A	3.1	4.1	5.7	6.9
	Power Input (min-max)	W	640 [225-880]	900 [260-1,180]	1,260 [250-1,700]	1,550 [250-2,050]
Moisture Removal		L/h [Pt/h]	1.6 [3.4]	2.0 [4.2]	2.9 [6.1]	3.4 [7.2]
Air Circulation	Indoor	m <sup>3</sup> /min [ft <sup>3</sup> /min]	11.8 [415]	12.5 [440]	18.7 [660]	19.2 [680]
	Outdoor	m <sup>3</sup> /min [ft <sup>3</sup> /min]	27.6 [970]	30.9 [1,090]	34.9 [1,230]	46.3 [1,635]
Noise Level	Indoor [H / L / Q-Lo]	dB [A]	38/26/19	40/28/19	44/32/27	45/34/28
	Outdoor [H]	dB [A]	47	48	50	51
Unit Dimensions Indoor [Outdoor]	Height	mm	295 [511]	295 [542]	295 [619]	295 [695]
		inch	11-5/8 [20-1/8]	11-5/8 [21-1/32]	11-5/8 [24-3/8]	11-5/8 [27-3/8]
	Width	mm	870 [650]	870 [780]	1,040 [824]	1,040 [875]
		inch	34-9/32 [25-19/32]	34-9/32 [30-23/32]	40-31/32 [32-15/32]	40-31/32 [34-15/32]
	Depth	mm	229 [230]	229 [289]	244 [299]	244 [320]
		inch	9-1/32 [9-1/16]	9-1/32 [11-13/32]	9-5/8 [11-25/32]	9-5/8 [12-5/8]
Packaging Dimensions Indoor [Outdoor]	Height	mm	283 [578]	283 [603]	314 [680]	314 [761]
		inch	11-5/32 [22-25/32]	11-5/32 [23-3/4]	12-3/8 [26-25/32]	12-3/8 [29-31/32]
	Width	mm	952 [784]	952 [891]	1,148 [958]	1,148 [1,049]
		inch	37-1/2 [30-7/8]	37-1/2 [35-3/32]	45-7/32 [37-23/32]	45-7/32 [41-5/16]
	Depth	mm	374 [347]	374 [396]	383 [416]	383 [460]
		inch	14-3/4 [13-11/16]	14-3/4 [15-19/32]	15-3/32 [16-13/32]	15-3/32 [18-1/8]
Net Weight	Indoor / Outdoor	kg [lb]	10 [22] / 18 [40]	10 [22] / 23 [51]	12 [26] / 30 [66]	12 [26] / 39 [86]
Gross Weight	Indoor / Outdoor	kg [lb]	12 [26] / 20 [44]	12 [26] / 25 [55]	14 [31] / 33 [73]	14 [31] / 43 [95]
Refrigerant Pipe Diameter	Liquid Side	mm (inch)	ø 6.35 [1/4]	ø 6.35 [1/4]	ø 6.35 [1/4]	ø 6.35 [1/4]
	Gas Side	mm (inch)	ø 9.52 [3/8]	ø 9.52 [3/8]	ø 12.70 [1/2]	ø 12.70 [1/2]
Pipe Extension	Chargeless Pipe Length	m	7.5	7.5	10.0	10.0
	Maximum Pipe Length	m	20	20	30	30
	Maximum Elevation Length	m	15	15	20	20
	Additional Refrigerant Gas*	g/m	10	10	15	15
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor

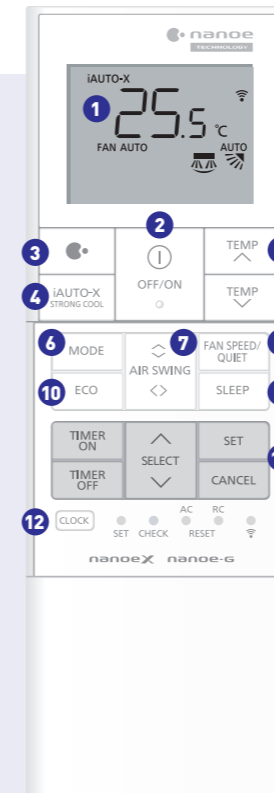
\*When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.

FEATURES



EASY-TO-USE REMOTE CONTROLLER

Panasonic's wireless remote controller features a large Liquid Crystal Display (LCD) panel which makes it even more user-friendly. So you can sit back and enjoy easy operation and long-lasting comfort from your Panasonic Air Conditioner.



Wireless Applicable to PREMIUM INVERTER

- 1 LCD display for an easy overview of the operation status.
- 2 Power button.
- 3 Switch on nanoe™ mode to activate nanoe™ X and nanoe-G for air purification and deodorisation even when the air conditioner is switched off.
- 4 iAUTO-X cools your home with fast cooling together with Shower Cooling which avoids direct cooling while providing continuous comfort. Reactivate faster cooling during stable temperature with a second press of the iAUTO-X button.
- 5 Press up or down to set the temperature.
- 6 Toggles between iAUTO-X, COOL and DRY setting mode.
- 7 Set the airflow direction.
- 8 Adjusts the FAN SPEED or QUIET mode so you can sleep comfortably at night.
- 9 Delays off timer with temperature control for better sleep.
- 10 Switch on the ECO + A.I. mode to let you enjoy the comfort cooling with minimal energy waste.
- 11 Set the 24-hour Dual ON & OFF Timer.
- 12 Set the actual time [hour and minute].



DUAL TIMER FOR 2 ON AND OFF TIMES PER DAY  
Set the actual time (hour and minute).

- 1 Select ON or OFF Timer.
- 2 Set the time.

OUTDOOR UNIT



**WALL-MOUNTED** PREMIUM **INVERTER** Single-Split Type



CS-XU30VKQ



Wireless (Standard)



Wireless CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)



MODEL	INDOOR UNIT (60Hz)		CS-XU30VKQ	
	OUTDOOR UNIT		CU-XU30VKQ	
Cooling Capacity	(min-max)	kW	8.20 [1.15-10.00]	
	(min-max)	kJ/h	29,520 [4,140-36,000]	
EER	(min-max)	kJ/hW	12.83 [11.83-11.25]	
Electrical Data	Voltage	V	230	
	Current	A	11.0	
	Power Input (min-max)	W	2,300 [350-3,200]	
Moisture Removal		L/h (Pt/h)	4.8 [10.1]	
Air Circulation	Indoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	21.3 [750]	
	Outdoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	50.2 [1,770]	
Noise Level	Indoor (H / L / Q-Lo)	dB (A)	47/37/34	
	Outdoor (H)	dB (A)	53	
Unit Dimensions Indoor (Outdoor)	Height	mm	302 [795]	
		inch	11-29/32 [31-5/16]	
	Width	mm	1,120 [875]	
		inch	44-1/8 [34-15/32]	
	Depth	mm	241 [320]	
		inch	9-1/2 [12-5/8]	
Packaging Dimensions Indoor (Outdoor)	Height	mm	287 [899]	
		inch	11-5/16 [35-13/32]	
	Width	mm	1,190 [1,049]	
		inch	46-7/8 [41-5/16]	
	Depth	mm	378 [485]	
		inch	14-29/32 [19-1/8]	
Net Weight	Indoor / Outdoor	kg (lb)	13 [29] / 55 [121]	
Gross Weight	Indoor / Outdoor	kg (lb)	15 [33] / 60 [132]	
Refrigerant Pipe Diameter	Liquid Side	mm (inch)	ø 6.35 [1/4]	
	Gas Side	mm (inch)	ø 15.88 [5/8]	
Pipe Extension	Chargeless Pipe Length	m	10.0	
	Maximum Pipe Length	m	30	
	Maximum Elevation Length	m	20	
	Additional Refrigerant Gas*	g/m	25	
Power Supply			Outdoor	

\*When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.

FEATURES



EASY-TO-USE REMOTE CONTROLLER

Panasonic's wireless remote controller features a large Liquid Crystal Display (LCD) panel which makes it even more user-friendly. So you can sit back and enjoy easy operation and long-lasting comfort from your Panasonic Air Conditioner.



Wireless Applicable to PREMIUM INVERTER

- 1 LCD display for an easy overview of the operation status.
- 2 iAUTO-X lets you come home to fast cooling. Then enjoy continuous comfort with Shower Cooling which avoids direct cooling.
- 3 Switch on nanoe™ mode to activate nanoe™ X and nanoe-G for air purification and deodorisation even when the air conditioner is switched off.
- 4 Press up or down to set the temperature.
- 5 Toggles between iAUTO-X, COOL and DRY setting mode.
- 6 Delays off timer with temperature control for better sleep.
- 7 Set the airflow direction.
- 8 Adjusts the fan speed.
- 9 Quiet function allows you to sleep comfortably at night.
- 10 Set 24-hour Dual ON & OFF Timer.
- 11 Set the actual time (hour and minute).

DUAL TIMER FOR 2 ON AND OFF TIMES PER DAY

Set the actual time (hour and minute).




- 1 Select ON or OFF Timer.
  - ON: [ON] → [1] → [2] → [Cancel]
  - OFF: [OFF] → [1] → [2] → [Cancel]
- 2 Set the time. [SET]

OUTDOOR UNIT




CU-XU30VKQ


**WALL-MOUNTED**
**DELUXE INVERTER Single-Split Type**




**CS-XPU9WKQ | CS-XPU12WKQ | CS-XPU18WKQ**




Wireless  
(Standard)




Wired  
CZ-RD514C  
(Optional)




Network Adaptor  
CZ-TACG1  
(Optional)




**NEW**  
**CS-XPU24XKQ**



Wireless  
(Standard)



Wired  
CZ-RD514C  
(Optional)




Network Adaptor  
CZ-TACG1  
(Optional)




MODEL	INDOOR UNIT (60Hz)		CS-XPU9WKQ	CS-XPU12WKQ	CS-XPU18WKQ	CS-XPU24XKQ
	OUTDOOR UNIT		CU-XPU9WKQ	CU-XPU12WKQ	CU-XPU18WKQ	CU-XPU24XKQ
Cooling Capacity	(min-max)	kW	2.54 (0.84-3.10)	3.06 (1.02-3.80)	5.00 (1.10-5.40)	6.10 (1.12-7.18)
	(min-max)	kJ/h	9,140 (3,020-11,160)	11,020 (3,670-13,680)	18,000 (3,960-19,440)	21,960 (4,030-25,850)
EER	(min-max)	kJ/hW	13.64 (13.73-12.61)	14.69 (14.98-11.69)	11.61 (13.66-10.80)	13.31 (16.12-12.61)
Electrical Data	Voltage	V	230	230	230	230
	Current	A	3.2	3.4	7.0	7.4
	Power Input (min-max)	W	670 (220-885)	750 (245-1,170)	1,550 (290-1,800)	1,650 (250-2,050)
Moisture Removal		L/h (Pt/h)	1.6 (3.4)	1.7 (3.6)	2.8 (5.9)	3.4 (7.2)
Air Circulation	Indoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	10.3 (365)	10.8 (380)	12.6 (445)	19.2 (680)
	Outdoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	27.3 (960)	31.6 (1,120)	39.3 (1,390)	34.9 (1,230)
Noise Level	Indoor (H / L / Q-Lo)	dB (A)	36/26/21	38/28/21	44/34/28	45/36/29
	Outdoor (H)	dB (A)	47	48	51	51
Unit Dimensions Indoor (Outdoor)	Height	mm	290 (511)	290 (542)	290 (619)	295 (619)
		inch	11-7/16 (20-1/8)	11-7/16 (21-11/32)	11-7/16 (24-3/8)	11-5/8 (24-3/8)
	Width	mm	779 (650)	779 (780)	779 (824)	1,040 (824)
		inch	30-11/16 (25-19/32)	30-11/16 (30-23/32)	30-11/16 (32-15/32)	40-31/32 (32-15/32)
	Depth	mm	209 (230)	209 (289)	209 (299)	244 (299)
		inch	8-1/4 (9-1/16)	8-1/4 (11-13/32)	8-1/4 (11-25/32)	9-5/8 (11-25/32)
Packaging Dimensions Indoor (Outdoor)	Height	mm	255 (578)	255 (603)	255 (680)	314 (680)
		inch	10-1/16 (22-25/32)	10-1/16 (23-3/4)	10-1/16 (26-25/32)	12-3/8 (26-25/32)
	Width	mm	861 (784)	861 (891)	861 (958)	1,148 (958)
		inch	33-29/32 (30-7/8)	33-29/32 (35-3/32)	33-29/32 (37-23/32)	45-7/32 (37-23/32)
	Depth	mm	364 (347)	364 (396)	364 (416)	383 (416)
		inch	14-11/32 (13-11/16)	14-11/32 (15-19/32)	14-11/32 (16-13/32)	15-3/32 (16-13/32)
Net Weight	Indoor / Outdoor	kg (lb)	8 (18) / 18 (40)	8 (18) / 23 (51)	9 (20) / 29 (64)	12 (26) / 31 (68)
Gross Weight	Indoor / Outdoor	kg (lb)	9 (20) / 20 (44)	9 (20) / 25 (55)	10 (22) / 32 (71)	14 (31) / 34 (75)
Refrigerant Pipe Diameter	Liquid Side	mm (inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas Side	mm (inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.70 (1/2)	ø 12.70 (1/2)
Pipe Extension	Chargeless Pipe Length	m	7.5	7.5	10.0	10.0
	Maximum Pipe Length	m	20	20	30	30
	Maximum Elevation Length	m	15	15	20	20
	Additional Refrigerant Gas*	g/m	10	10	15	15
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor

\*When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.


**FEATURES**




CS-XPU9WKQ  
CS-XPU12WKQ  
CS-XPU18WKQ




CS-XPU24XKQ




CS-XPU9WKQ  
CS-XPU12WKQ  
CS-XPU18WKQ




(Random)




(Optional)




(Optional)




(Optional)




20m  
CS-XPU9WKQ  
CS-XPU12WKQ



30m  
CS-XPU18WKQ  
CS-XPU24XKQ



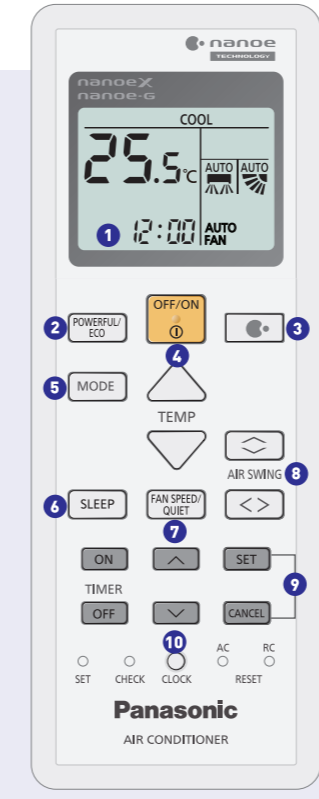
SLEEP



24 DUAL

**EASY-TO-USE REMOTE CONTROLLER**

Panasonic's wireless remote controller features a large Liquid Crystal Display (LCD) panel which makes it even more user-friendly. So you can sit back and enjoy easy operation and long-lasting comfort from your Panasonic Air Conditioner.




- 1 LCD display for an easy overview of the operation status.
- 2 Toggles setting between POWERFUL mode and ECO with A.I. setting mode. POWERFUL mode provides fast cooling while ECO with A.I. mode provides energy saving.
- 3 Switch on nanoe™ mode to activate nanoe™ X and nanoe-G for air purification and deodorisation even when the air conditioner is switched off.
- 4 Press up or down to set the temperature.
- 5 Toggles between AUTO, COOL and DRY setting mode.
- 6 Delays off timer with temperature control for better sleep.
- 7 Adjusts the FAN SPEED or QUIET mode so you can sleep comfortably at night.
- 8 Set the airflow direction.
- 9 Set 24-hour Dual ON & OFF Timer.
- 10 Set the actual time (hour and minute).

**Wireless**  
Applicable to CS-XPU24XKQ



**Powerful Cooling at Start-up**  
POWERFUL Mode cools your room faster by 18% at the start to bring you cooling comfort instantly on a hot day.

Press  once to switch ON POWERFUL Mode.

\* Comparison of POWERFUL Cool Mode & normal cool mode by using 1.5HP Inverter Model.

**OUTDOOR UNIT**



**WALL-MOUNTED** STANDARD **INVERTER** Single-Split Type



CS-PU9WKQ | CS-PU12WKQ | CS-PU18WKQ



Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)



CS-PU24XKQ



Wireless (Standard)



Wired CZ-RD514C (Optional)



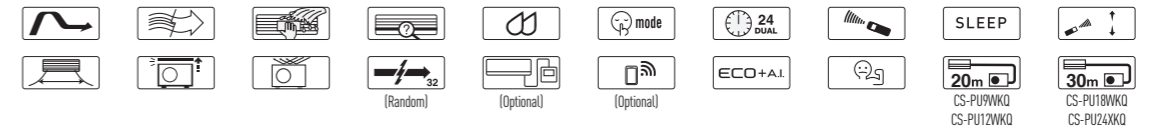
Network Adaptor CZ-TACG1 (Optional)

**BIG FLAP** | **AEROWINGS** | **POWERFUL** | **INVERTER** | **ECO+AI.**  
(CS-PU9/12/18WKQ) (CS-PU24XKQ)

MODEL	INDOOR UNIT (60Hz)		CS-PU9WKQ	CS-PU12WKQ	CS-PU18WKQ	CS-PU24XKQ
	OUTDOOR UNIT		CU-PU9WKQ	CU-PU12WKQ	CU-PU18WKQ	CU-PU24XKQ
Cooling Capacity	(min-max)	kW	2.54 (0.84-3.10)	3.06 (1.02-3.80)	5.00 (1.10-5.40)	6.10 (1.12-7.18)
	(min-max)	kJ/h	9,140 (3,020-11,160)	11,020 (3,670-13,680)	18,000 (3,960-19,440)	21,960 (4,030-25,850)
EER	(min-max)	kJ/hW	13.64 (13.73-12.61)	14.69 (14.98-11.69)	11.61 (13.66-10.80)	13.31 (16.12-12.61)
Electrical Data	Voltage	V	230	230	230	230
	Current	A	3.2	3.4	7.0	7.4
	Power Input (min-max)	W	670 (220-885)	750 (245-1,170)	1,550 (290-1,800)	1,650 (250-2,050)
Moisture Removal		L/h (Pt/h)	1.6 (3.4)	1.7 (3.6)	2.8 (5.9)	3.4 (7.2)
Air Circulation	Indoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	10.3 (365)	10.8 (380)	12.6 (445)	19.2 (680)
	Outdoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	27.3 (960)	31.6 (1,120)	39.3 (1,390)	34.9 (1,230)
Noise Level	Indoor (H / L / Q-Lo)	dB (A)	36/26/21	38/28/21	44/34/28	45/36/29
	Outdoor (H)	dB (A)	47	48	51	51
Unit Dimensions Indoor (Outdoor)	Height	mm	290 (511)	290 (542)	290 (619)	295 (619)
		inch	11-7/16 (20-1/8)	11-7/16 (21-11/32)	11-7/16 (24-3/8)	11-5/8 (24-3/8)
	Width	mm	779 (650)	779 (780)	779 (824)	1,040 (824)
		inch	30-11/16 (25-19/32)	30-11/16 (30-23/32)	30-11/16 (32-15/32)	40-31/32 (32-15/32)
	Depth	mm	209 (230)	209 (289)	209 (299)	244 (299)
		inch	8-1/4 (9-1/16)	8-1/4 (11-13/32)	8-1/4 (11-25/32)	9-5/8 (11-25/32)
Packaging Dimensions Indoor (Outdoor)	Height	mm	255 (578)	255 (603)	255 (680)	314 (680)
		inch	10-1/16 (22-25/32)	10-1/16 (23-3/4)	10-1/16 (26-25/32)	12-3/8 (26-25/32)
	Width	mm	861 (784)	861 (891)	861 (958)	1,148 (958)
		inch	33-29/32 (30-7/8)	33-29/32 (35-3/32)	33-29/32 (37-23/32)	45-7/32 (37-23/32)
	Depth	mm	364 (347)	364 (396)	364 (416)	383 (416)
		inch	14-11/32 (13-11/16)	14-11/32 (15-19/32)	14-11/32 (16-13/32)	15-3/32 (16-13/32)
Net Weight	Indoor / Outdoor	kg (lb)	8 (18) / 18 (40)	8 (18) / 23 (51)	9 (20) / 29 (64)	12 (26) / 31 (68)
Gross Weight	Indoor / Outdoor	kg (lb)	9 (20) / 20 (44)	9 (20) / 25 (55)	10 (22) / 32 (71)	14 (31) / 34 (75)
Refrigerant Pipe Diameter	Liquid Side	mm (inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas Side	mm (inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.70 (1/2)	ø 12.70 (1/2)
Pipe Extension	Chargeless Pipe Length	m	7.5	7.5	10.0	10.0
	Maximum Pipe Length	m	20	20	30	30
	Maximum Elevation Length	m	15	15	20	20
	Additional Refrigerant Gas*	g/m	10	10	15	15
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor

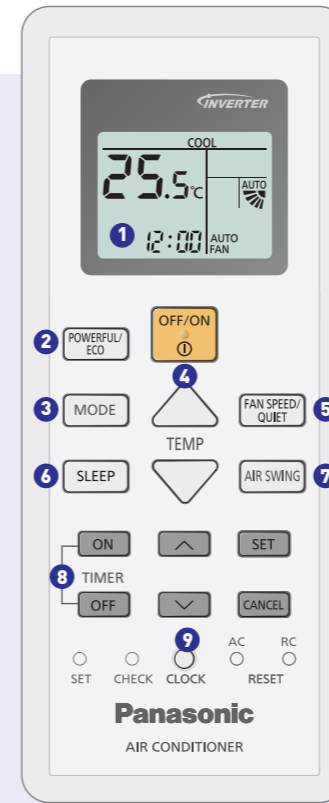
\*When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.

FEATURES



EASY-TO-USE REMOTE CONTROLLER

Panasonic's wireless remote controller features a large Liquid Crystal Display (LCD) panel which makes it even more user-friendly. So you can sit back and enjoy easy operation and long-lasting comfort from your Panasonic Air Conditioner.



Wireless  
Applicable to STANDARD INVERTER

- 1 LCD display for an easy overview of the operation status.
- 2 Toggles setting between POWERFUL mode and ECO with A.I. setting mode. POWERFUL mode provides fast cooling while ECO with A.I. mode provides energy saving.
- 3 Toggles between AUTO, COOL and DRY setting mode.
- 4 Press up or down to set the temperature.
- 5 Adjusts the FAN SPEED or QUIET mode so you can sleep comfortably at night.
- 6 Delays off timer with temperature control for better sleep.
- 7 Set the airflow direction.
- 8 Set the 24-hour Dual ON & OFF Timer.
- 9 Set the actual time (hour and minute).



**Long Airflow with Big Flap**  
Big bottom flap directs cooling and comforting air across the room for an optimal cooling sensation.



**Powerful Cooling at Start-up**  
POWERFUL Mode cools your room faster by 18%\* at the start to bring you cooling comfort instantly on a hot day.  
\*Comparison of POWERFUL Cool Mode & normal cool mode by using 1.5HP Inverter Model.

OUTDOOR UNIT



CU-PU9WKQ



CU-PU12WKQ



CU-PU18WKQ  
CU-PU24XKQ

**WALL-MOUNTED** STANDARD **INVERTER** Single-Split Type



CS-PU36WKQ



Wireless (Standard)

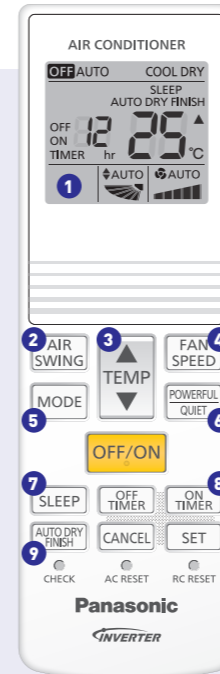
**POWERFUL** **INVERTER**

MODEL	INDOOR UNIT	[60Hz]	CS-PU36WKQ
	OUTDOOR UNIT		CU-PU36WKQ
Cooling Capacity	(min-max)	kW	10.0 (2.7-11.0)
	(min-max)	kJ/h	36,000 (9,720-39,600)
EER	(min-max)	kJ/hW	10.8 (17.1-10.6)
Electrical Data	Voltage	V	230
	Current	A	15.0
	Power Input (min-max)	W	3,330 (570-3,730)
Moisture Removal		L/h (Pt/h)	4.4 (9.4)
Air Circulation	Indoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	24.0 (847)
	Outdoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	82.2 (2,902)
Noise Level	Indoor (H / L / Q-Lo)	dB (A)	49/39
	Outdoor (H)	dB (A)	57
Unit Dimensions Indoor (Outdoor)	Height	mm	295 (955)
		inch	11-5/8 (37-5/8)
	Width	mm	1,160 (1,100)
		inch	45-11/16 (43-5/16)
	Depth	mm	255 (370)
		inch	10-1/16 (14-19/32)
Packaging Dimensions Indoor (Outdoor)	Height	mm	375 (1,018)
		inch	14-25/32 (40-3/32)
	Width	mm	1,250 (1,305)
		inch	49-7/32 (51-13/32)
	Depth	mm	331 (535)
		inch	13-1/16 (21-3/32)
Net Weight	Indoor / Outdoor	kg (lb)	14 (31) / 76 (168)
Gross Weight	Indoor / Outdoor	kg (lb)	20 (44) / 85 (187)
Refrigerant Pipe Diameter	Liquid Side	mm (inch)	ø 6.35 (1/4)
	Gas Side	mm (inch)	ø 15.88 (5/8)
Pipe Extension	Chargeless Pipe Length	m	10.0
	Maximum Pipe Length	m	30
	Maximum Elevation Length	m	20
	Additional Refrigerant Gas*	g/m	25
Power Supply			Outdoor

\*When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.

**EASY-TO-USE REMOTE CONTROLLER**

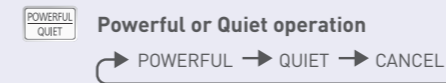
Panasonic's wireless remote controller features a large Liquid Crystal Display (LCD) panel which makes it even more user-friendly. So you can sit back and enjoy easy operation and long-lasting comfort from your Panasonic Air Conditioner.



Wireless  
Applicable to STANDARD  
INVERTER

- 1 LCD display for an easy overview of the operation status.
- 2 Set the vertical airflow direction.
- 3 Press up or down to set the temperature.
- 4 Adjusts the fan speed.
- 5 Toggles between AUTO, COOL and DRY setting mode.
- 6 Toggles setting between POWERFUL mode and Quiet mode. Press POWERFUL mode when you want to cool down the room quickly while Quiet mode allow you to quiet down the unit.
- 7 Press the SLEEP button to control temperature and fan speed for better sleep.
- 8 Set the ON & OFF Timer in 12-hour range in 1 hour increment.
- 9 Press the AUTO DRY FINISH button when you want to dry the air conditioner indoor unit.

**TO SET POWERFUL/QUIET MODE**



**POWERFUL**

• Used when you want to cool down the room quickly.

- 1 Press the **POWERFUL/QUIET** button once to activate the "POWERFUL" mode. The "POWERFUL" indicator on the indoor unit is illuminated (Red).

**QUIET**

• Used when you want to quiet down the unit.

- 1 Press the **POWERFUL/QUIET** button once again to activate the "QUIET" mode. The "QUIET" indicator on the indoor unit is illuminated (Green).

**CANCEL**

- 1 Press the **POWERFUL/QUIET** button once again to cancel the powerful or quiet function. The "POWERFUL" or "QUIET" indicator on the indoor unit is no illuminate.

Note: When the powerful/quiet function be activated, the indoor unit "POWERFUL" of "QUIET" indicator will be illuminated, but there is no indicator for this function on remote control screen.

**TO SET THE TIMER**

The ON and OFF time can be set in the 12 hour range in 1 hour increment.

**ON TIMER setting**

\* Set the "ON TIMER" only when unit in off period. During ON period the "ON TIMER" is invalid.

- 1 Press the **ON TIMER** button
  - Each press can change the set time from 6, 7, 8...12, 1, 2...5...
  - Press and hold the button to change setting time continuously.

- 2 Press the **SET** button (The "TIMER" indicator on the indoor unit is illumination [Orange]).

**OFF TIMER setting**

\* Set the "OFF TIMER" only when unit in off period. During OFF period the "OFF TIMER" is invalid.

- 1 Press the **OFF TIMER** button
  - Each press can change the set time from 1, 2, 3, 4...12, 1, 2...
  - Press and hold the button to change setting time continuously.

- 2 Press the **SET** button (The "TIMER" indicator on the indoor unit is illumination [Orange]).

**OUTDOOR UNIT**



CU-PU36WKQ

**WALL-MOUNTED** STANDARD NON-INVERTER Single-Split Type **NEW**



CS-PN9XKQ | CS-PN12XKQ



Wireless (Standard)



CS-PN18XKQ | CS-PN24XKQ



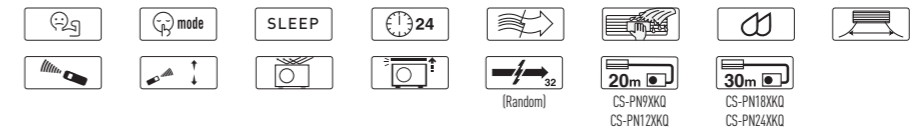
Wireless (Standard)

**BIG FLAP | AEROWINGS | POWERFUL**  
(CS-PN9/12XKQ) (CS-PN18/24XKQ)

MODEL	INDOOR UNIT (60Hz)		CS-PN9XKQ	CS-PN12XKQ	CS-PN18XKQ	CS-PN24XKQ
	OUTDOOR UNIT		CU-PN9XKQ	CU-PN12XKQ	CU-PN18XKQ	CU-PN24XKQ
Cooling Capacity	(min-max)	kW	2.67	3.55	5.25	6.80
	(min-max)	kJ/h	9,610	12,780	18,900	24,480
EER	(min-max)	kJ/hW	11.2	11.5	11.2	11.4
Electrical Data	Voltage	V	230	230	230	230
	Current	A	3.8	4.9	7.4	9.6
	Power Input (min-max)	W	860	1,110	1,690	2,140
Moisture Removal		L/h (Pt/h)	1.6 (3.4)	2.1 (4.4)	2.9 (6.1)	3.9 (8.2)
Air Circulation	Indoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	10.4 (367)	11.5 (406)	17.9 (632)	20.5 (724)
	Outdoor	m <sup>3</sup> /min (ft <sup>3</sup> /min)	29.2 (1,030)	33.6 (1,190)	36.9 (1,300)	52.5 (1,850)
Noise Level	Indoor (H / L / Q-Lo)	dB (A)	36/26	40/29	43/39	47/42
	Outdoor (H)	dB (A)	49	50	54	55
Unit Dimensions Indoor (Outdoor)	Height	mm	290 (511)	290 (542)	295 (619)	295 (695)
		inch	11-7/16 (20-1/8)	11-7/16 (21-11/32)	11-5/8 (24-3/8)	11-5/8 (27-3/8)
	Width	mm	779 (650)	779 (780)	1,040 (824)	1,040 (875)
		inch	30-11/16 (25-19/32)	30-11/16 (30-23/32)	40-31/32 (32-15/32)	40-31/32 (34-15/32)
	Depth	mm	209 (230)	209 (289)	244 (299)	244 (320)
		inch	8-1/4 (9-1/16)	8-1/4 (11-13/32)	9-5/8 (11-25/32)	9-5/8 (12-5/8)
Packaging Dimensions Indoor (Outdoor)	Height	mm	255 (578)	255 (603)	314 (680)	314 (761)
		inch	10-1/16 (22-25/32)	10-1/16 (23-3/4)	12-3/8 (26-25/32)	12-3/8 (29-31/32)
	Width	mm	861 (784)	861 (891)	1,148 (958)	1,148 (1,049)
		inch	33-29/32 (30-7/8)	33-29/32 (35-3/32)	45-7/32 (37-23/32)	45-7/32 (41-5/16)
	Depth	mm	364 (347)	364 (396)	383 (416)	383 (460)
		inch	14-11/32 (13-11/16)	14-11/32 (15-19/32)	15-3/32 (16-13/32)	15-3/32 (18-1/8)
Net Weight	Indoor / Outdoor	kg (lb)	8 (18) / 21 (46)	8 (18) / 28 (62)	12 (26) / 35 (77)	12 (26) / 54 (119)
Gross Weight	Indoor / Outdoor	kg (lb)	9 (20) / 23 (51)	9 (20) / 30 (66)	14 (31) / 38 (84)	14 (31) / 58 (128)
Refrigerant Pipe Diameter	Liquid Side	mm (inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas Side	mm (inch)	ø 9.52 (3/8)	ø 12.70 (1/2)	ø 12.70 (1/2)	ø 15.88 (5/8)
Pipe Extension	Chargeless Pipe Length	m	7.5	7.5	7.5	7.5
	Maximum Pipe Length	m	20	20	30	30
	Maximum Elevation Length	m	15	15	20	20
	Additional Refrigerant Gas*	g/m	10	10	15	25
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor

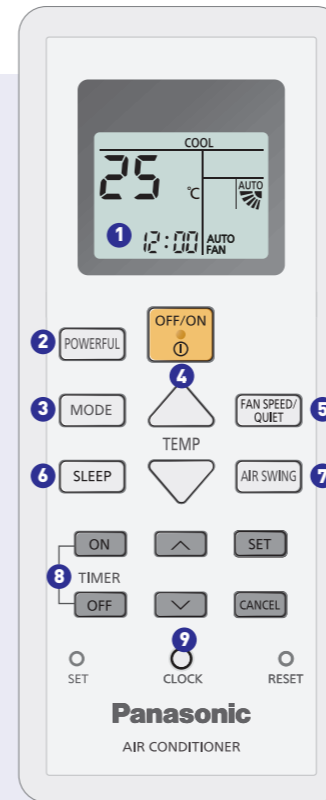
\*When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.

FEATURES



EASY-TO-USE REMOTE CONTROLLER

Panasonic's wireless remote controller feature a large Liquid Crystal Display (LCD) panel which makes it even more user-friendly. So you can sit back and enjoy easy operation and long-lasting comfort from your Panasonic Air Conditioner.



Wireless  
Applicable to STANDARD  
NON-INVERTER

- 1 LCD display for an easy overview of the operation status.
- 2 Pressing the POWERFUL button cools the room quickly. It provides fast comfort with full power and a strong airflow. This is perfect use immediately after coming home or when unexpected guests arrive.
- 3 Toggles between AUTO, COOL and DRY setting mode.
- 4 Press up or down to set the temperature.
- 5 Adjusts the FAN SPEED or QUIET mode so you can sleep comfortably at night.
- 6 Delays off timer with temperature control for better sleep.
- 7 Set the airflow direction.
- 8 Set the 24-hour ON & OFF Timer.
- 9 Set the actual time (hour and minute).



**Long Airflow with Big Flap**  
Big bottom flap directs cooling and comforting air across the room for an optimal cooling sensation.



**Powerful Cooling at Start-up**  
POWERFUL Mode cools your room faster at the start to bring you cooling comfort instantly on a hot day.

OUTDOOR UNIT



Blue Fin Condenser

R32 REFRIGERANT



**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.

## Outdoor

MODELS	CU-2S18PKZ	Indoor Units: Possible Combination Patterns ( Must be within capacity range )
2 Rooms		Port A 2.8 or 3.2 Either unit Port B 2.8 or 3.2 Either unit

- It is possible to have a combination of wall-mounted models (CS-S9, S12TKZW) for the (CU-2S18PKZ) Outdoor Unit Ports.
- A minimum of 2 indoor units must be connected.

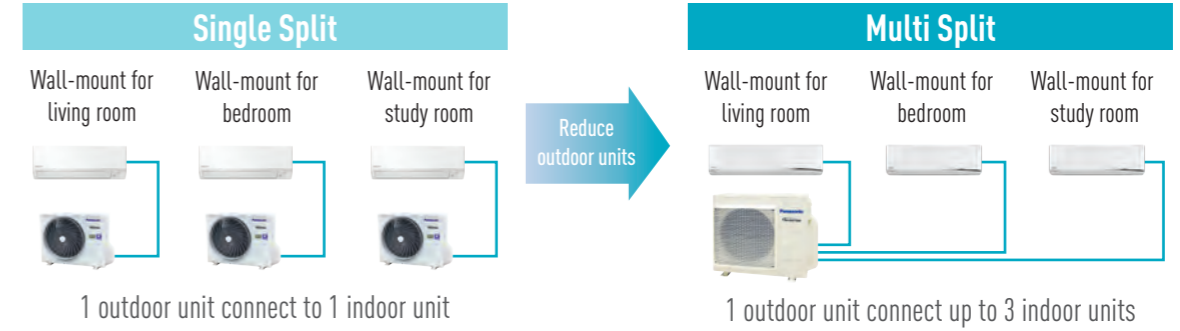
MODELS	CU-3S27KKZ	Indoor Units: Possible Combination Patterns ( Must be within capacity range )
3 Rooms		Port A 2.8 or 3.2 or 5.0 or 6.0 Port B 2.8 or 3.2 or 5.0 or 6.0 Port C 2.8 or 3.2 or 5.0 or 6.0

- It is possible to have a combination of wall-mounted models (CS-S9, S12, S18, S24TKZW) for the (CU-3S27KKZ) Outdoor Unit Ports.
- A minimum of 2 indoor units must be connected.

# Advantages Of Multi-Split Air Conditioning System

## Space-Saving

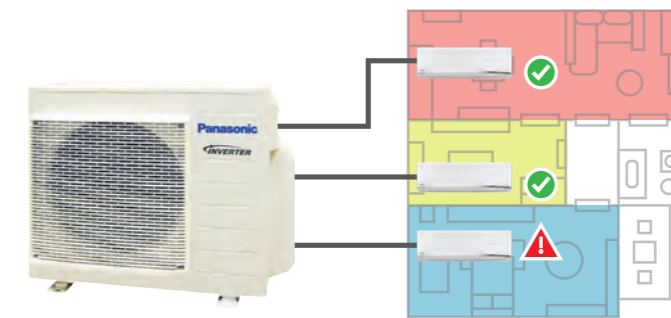
Space-saving installation with less outdoor units required



- As 1 outdoor unit is able to connect up to 3 indoor units, this provide flexible customisation according to the layout of your house.

## Independent Operation Control

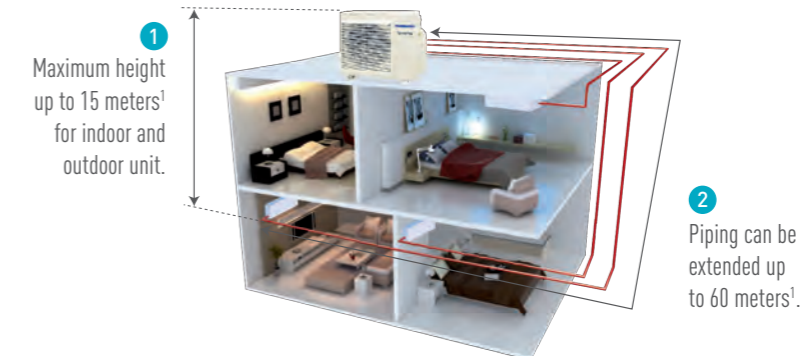
Outdoor unit connects to each indoor unit independently



- 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 60 meters



- Flexible arrangement and installation of indoor and outdoor units based on the room condition, location and installation convenience of the site.

<sup>1</sup> Applicable to CU-3S27KKZ.



CS-S9TKZW | CS-S12TKZW



Wireless (Standard)



Wireless CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)\*1



CS-S18TKZW | CS-S24TKZW



Wireless (Standard)

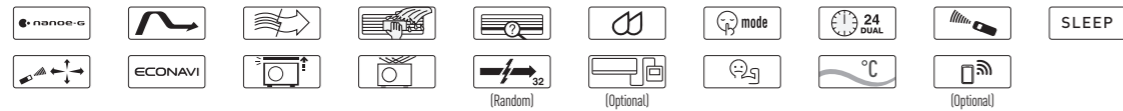


Wireless CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)\*1

FEATURES



MODEL	INDOOR UNIT (60Hz)	CS-S9TKZW	CS-S12TKZW	CS-S18TKZW	CS-S24TKZW
Operation		1 unit	1 unit	1 unit	1 unit
Cooling Capacity	kJ/h	10,080	11,520	18,000	21,600
	kW	2.80	3.20	5.00	6.00
Electrical Data	Voltage	V	230	230	230
Moisture Removal	L/h	1.6	1.8	2.7	3.3
Fan Output	W	40	40	30	30
Air Circulation	m <sup>2</sup> /min	9.8	11.0	19.3	20.3
	ft <sup>2</sup> /min	345	390	680	715
Sound Pressure Level	Indoor (H / L)	dB (A)	40/29	44/32	47/38
	Height	mm	295	295	302
Dimensions	Width	mm	919	919	1,120
	Depth	mm	199	199	241
	Net Weight	Indoor	kg	9	9
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 9.52	ø 12.70
Power Supply		Outdoor	Outdoor	Indoor	Outdoor

MODEL	OUTDOOR UNIT (60Hz)	DUAL-SPLIT MODEL		TRIPLE-SPLIT MODEL		
		CU-2S18PKZ		CU-3S27KKZ		
Cooling Capacity	(min-max) kW	5.00 (1.50-6.00)		7.50 (2.80-9.00)		
	(min-max) kJ/h	18,000 (5,400-21,600)		27,000 (10,080-32,400)		
EER	kJ/hW	12.86		13.11		
Electrical Data	Voltage	V		230		
	Current	A		6.4		
	Power Input (min-max)	W		1,400 (250-1,750)		
Sound Pressure Level	Outdoor (H)	dB (A)		49		
Maximum Current		A		12		
Starting Current		A		6.6		
Compressor Output		W		900		
Fan Output		W		40		
Dimensions	Height	mm		619		
	Width	mm		824 (+70)		
	Depth	mm		299		
Net Weight	Outdoor	kg		37		
Pipe Extension	Chargeless Pipe Length	m		20		
	Maximum Pipe Length	1 room	m		20	
		Total	m		30	
	Maximum Elevation Length	m		10		
	Additional Refrigerant Gas*2	g/m		15		

\*1 Functionality vary depending on models.  
\*2 When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.



INVERTER DUAL-SPLIT MODEL (CU-2S18PKZ)

Indoor Unit Combination	Total	Cooling Capacity (kJ/h)				Power Input (W)		Current (A) 230V / 60Hz	Moisture Removal L/h	
		Room A	Room B	Total	min-max	Rated	min-max			
1 Room	2.8	2.8	10,080	—	10,080	3,960-12,600	750	220-1,000	3.6	1.6
	3.2	3.2	11,520	—	11,520	3,960-14,400	920	220-1,220	4.4	1.8
2 Room	2.8 + 2.8	5.6	8,640	8,640	17,280	5,400-20,880	1,310	250-1,690	6.2	1.5 + 1.5
	2.8 + 3.2	6.0	8,280	9,720	18,000	5,400-21,240	1,490	250-1,710	7.0	1.5 + 1.6
	3.2 + 3.2	6.4	9,000	9,000	18,000	5,400-21,600	1,400	250-1,750	6.4	1.5 + 1.5

INVERTER TRIPLE-SPLIT MODEL (CU-3S27KKZ)

Indoor Unit Combination	Total	Cooling Capacity (kJ/h)				Power Input (W)		Current (A) 230V / 60Hz	Moisture Removal L/h		
		Room A	Room B	Room C	Total	min-max	Rated			min-max	
1 Room	2.8	2.8	10,080			10,080	6,120-12,240	700	380-890	3.6	1.6
	3.2	3.2	11,520			11,520	6,120-14,400	800	380-1,200	4.0	1.8
	5.0	5.0	18,000			18,000	6,840-20,880	1,460	400-1,890	7.0	2.7
	6.0	6.0	21,600			21,600	6,840-22,320	1,920	400-2,070	8.9	3.3
2 Room	2.8 + 2.8	5.6	10,080	10,080		20,160	6,120-24,120	1,750	420-2,340	8.3	1.6 + 1.6
	2.8 + 3.2	6.0	10,080	11,520		21,600	6,120-24,120	2,010	420-2,340	9.4	1.6 + 1.8
	2.8 + 5.0	7.8	9,680	17,320		27,000	9,720-28,800	2,810	530-2,980	13.1	1.6 + 2.6
	2.8 + 6.0	8.8	8,600	18,400		27,000	9,720-28,800	2,810	530-2,980	13.1	1.5 + 2.8
	3.2 + 3.2	6.4	11,520	11,520		23,040	8,280-26,640	2,290	570-3,010	10.7	1.8 + 1.8
	3.2 + 5.0	8.2	10,550	16,450		27,000	10,080-28,800	2,760	530-2,970	12.9	1.7 + 2.5
	3.2 + 6.0	9.2	9,400	17,600		27,000	10,080-28,800	2,760	530-2,970	12.9	1.6 + 2.7
	5.0 + 5.0	10.0	13,500	13,500		27,000	10,440-29,880	2,440	520-2,970	11.4	2.2 + 2.2
	5.0 + 6.0	11.0	12,280	14,720		27,000	10,440-29,880	2,440	520-2,970	11.4	2.0 + 2.3
	6.0 + 6.0	12.0	13,500	13,500		27,000	10,440-29,880	2,440	520-2,970	11.4	2.2 + 2.2
3 Room	2.8 + 2.8 + 2.8	8.4	9,000	9,000	9,000	27,000	8,640-28,440	2,740	580-2,840	12.8	1.5 + 1.5 + 1.5
	2.8 + 2.8 + 3.2	8.8	8,600	8,600	9,800	27,000	8,640-28,800	2,690	580-2,850	12.6	1.5 + 1.5 + 1.6
	2.8 + 2.8 + 5.0	10.6	7,130	7,130	12,740	27,000	10,080-31,680	2,250	600-3,010	10.5	1.3 + 1.3 + 2.0
	2.8 + 2.8 + 6.0	11.6	6,520	6,520	13,960	27,000	10,080-31,680	2,250	600-3,010	10.5	1.2 + 1.2 + 2.3
	2.8 + 3.2 + 3.2	9.2	8,200	9,400	9,400	27,000	8,640-28,800	2,690	580-2,860	12.6	1.5 + 1.6 + 1.6
	2.8 + 3.2 + 5.0	11.0	6,870	7,850	12,280	27,000	10,080-31,680	2,250	600-3,020	10.5	1.2 + 1.4 + 2.0
	2.8 + 3.2 + 6.0	12.0	6,300	7,200	13,500	27,000	10,080-31,680	2,250	600-3,020	10.5	1.1 + 1.3 + 2.2
	2.8 + 5.0 + 5.0	12.8	5,900	10,550	10,550	27,000	10,080-32,400	2,070	520-2,830	9.7	1.0 + 1.7 + 1.7
	3.2 + 3.2 + 3.2	9.6	9,000	9,000	9,000	27,000	8,640-28,800	2,650	590-2,860	12.4	1.5 + 1.5 + 1.5
	3.2 + 3.2 + 5.0	11.4	7,600	7,600	11,800	27,000	10,080-31,680	2,250	600-3,020	10.5	1.4 + 1.4 + 1.9
	3.2 + 3.2 + 6.0	12.4	6,980	6,980	13,040	27,000	10,080-31,680	2,250	600-3,020	10.5	1.3 + 1.3 + 2.1
	3.2 + 5.0 + 5.0	13.2	6,560	10,220	10,220	27,000	10,080-32,400	2,060	520-2,830	9.6	1.2 + 1.7 + 1.7

OPTIONAL ACCESSORIES

PIPE SIZE REDUCER	PIPE SIZE EXPANDER
<p>Use at the indoor unit's connection port</p>  <p>CZ-MA1P</p>	<p>Use at the outdoor unit's connection port</p>  <p>CZ-MA2P</p>
CS-S12TKZW, CS-S18TKZW	CS-S24TKZW



# Window Air Conditioners with Pure Energy Savings

**Inverter**

**Panasonic has Inverter technology with All DC Motor and Powerful Compressor**

The All DC Motor has independent controls on each fan (indoor & outdoor) that provides better efficiency and lowers energy consumption leading to additional Pure Energy Savings.

**Sleep Mode**

**Panasonic Window Air Conditioner use Sleep Mode Function**

Sleep Mode helps you to regularize the coolness of the room to your body for a more comfortable sleep.

**OTHER FEATURES**

<p><b>Mechanical Off Timer</b></p> <p><b>Consume Energy Efficiently</b></p> <p>With Panasonic's 12-hr timer function, you can control the use of your aircon to keep your energy cost within the budget</p>	<p><b>Powerful Mode</b></p> <p><b>Stay Comfortable in All Day Moves</b></p> <p>Compressor speeds up its rotation faster than the maximum speed of normal operation, giving you coolness to the max with extra cooling power.</p>	<p><b>Anti-bacterial Filter</b></p> <p><b>Filters Virus And Bacteria for Assured Cleaner Air</b></p> <p>The Anti-Bacterial Filter combines three effects in one: Anti-bacterial, Anti-virus and Anti-allergen.</p>
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\*Bacteria deactivation was certified by Boreh Quality Evaluation Institute. Test Report No: 10042459 and 100042459-2 Bacteria: Staphylococcus aureus NBRC 12732, Escherichia coli NBRC 3972  
 \*\*Virus deactivation was certified by Osaka Prefectural Institute of Public Health Test Report No: 31.3360397 Virus: Influenza (H3N2) A/ Hong Kong  
 \*\*\*Allergen deactivation was certified by Shinshu University Allergen: Cider Pollen Allergen Cyj1

# Inhibits Both Airborne and Adhered Pollutants

**nanoe™ X**

**YOUR next normal AIR CONDITIONER**

**Moisturises, deodorises, inhibits bacteria, and viruses and other pollutants**

**How nanoe™ X inhibit pollutants?**

\*Adhered virus (Influenza virus H1N1 subtype) [Test organization] Kitasato Research Center for Environmental Science [Test method] Measured the number of virus adhered to a cloth in an approximately 1m<sup>2</sup> sized airtight test room [Inhibition method] nanoe™ released [Test substance] Adhered virus [Test result] Inhibited by at least 99.9% in 2 hours [21\_0084\_1]

**XU SERIES: INVERTER Window Type with nanoe™ X Technology**



**Specifications**

MODEL NO.		CW-XU1021VPH	CW-XU1221VPH	CW-XU1821EPH
<b>TECHNICAL DATA</b>	<b>UNIT</b>			
Cooling Capacity	hp	1.0	1.5	2.0
	kJ/h	10,660	12,000	18,750
Power Input	W	860	968	1,524
EER	kJ/hW	12.40	12.40	12.3
Noise Level Indoor (Low)	dB A	46	46	48
Power Source	V/Phase Hz	230 V, 1Ø Phase - 60 Hz		
Refrigerant		R32	R32	R32
<b>PHYSICAL DATA</b>				
Unit Dimension (WxHxD)	mm	560 x 346 x 655	560 x 346 x 655	660 x 428 x 800
Packaging Dimension (WxHxD)	mm	640 x 481 x 728	640 x 481 x 728	760 x 582 x 877
Net Weight	kg	38	38	67
Gross Weight	kg	40	40	70

**XN SERIES: DELUXE Window Type**



**Specifications**

MODEL NO.		CW-XN620JPH	CW-XN820JPH	CW-XN920JPH	CW-XN1020VPH	CW-XN1220VPH	CW-XN1820EPH	CW-XN2420EPH
<b>TECHNICAL DATA</b>	<b>UNIT</b>							
Cooling Capacity	hp	0.5	0.75	1.0	1.0	1.5	2.0	2.5
	kJ/h	5,500	7,420	9,500	11,000	13,000	19,100	25,500
Power Input	W	511	616	839	916	1,110	1,640	2,660
EER	kJ/hW	10.8	12	11.3	12	11.7	11.6	9.6
Noise Level Indoor (Low)	dB A	44	44	44	46	46	48	52
Power Source	V/Phase Hz	230 V, 1Ø Phase - 60 Hz						
Refrigerant		R32	R32	R32	R32	R32	R32	R32
<b>PHYSICAL DATA</b>								
Unit Dimension (WxHxD)	mm	450 x 346 x 590	450 x 346 x 590	450 x 346 x 590	560 x 346 x 655	560 x 346 x 655	660 x 428 x 800	660 x 428 x 800
Packaging Dimension (WxHxD)	mm	505 x 465 x 660	505 x 465 x 660	505 x 465 x 660	649 x 488 x 756	649 x 488 x 756	760 x 582 x 877	760 x 582 x 877
Net Weight	kg	24	28	28	33	35	61	65
Gross Weight	kg	26	30	30	38	40	65	69

**MN SERIES: MECHANICAL Window Type**



CW-MN620JPH CW-MN920JPH  
CW-MN820JPH CW-MN1220VPH



**Specifications**

MODEL NO.		CW-MN620JPH	CW-MN820JPH	CW-MN920JPH	CW-MN1220VPH
<b>TECHNICAL DATA</b>	<b>UNIT</b>				
Cooling Capacity	hp	0.5	0.75	1.0	1.5
	kJ/h	5,500	7,420	9,500	13,000
Power Input	W	511	616	839	1,200
EER	kJ/hW	10.8	12	11.3	10.8
Noise Level Indoor (Low)	dB A	44	44	44	46
Power Source	V/Phase Hz	230 V, 1Ø Phase - 60 Hz			
Refrigerant		R32	R32	R32	R32
<b>PHYSICAL DATA</b>					
Unit Dimension (WxHxD)	mm	450 x 346 x 590	450 x 346 x 590	450 x 346 x 590	560 x 346 x 655
Packaging Dimension (WxHxD)	mm	505 x 465 x 660	505 x 465 x 660	505 x 465 x 660	649 x 488 x 756
Net Weight	kg	24	28	28	35
Gross Weight	kg	26	30	30	40

**N SERIES: STANDARD Window Type**



CW-N920JPH  
CW-N1020VPH CW-N1820EPH  
CW-N1220VPH CW-N2420EPH



**Specifications**

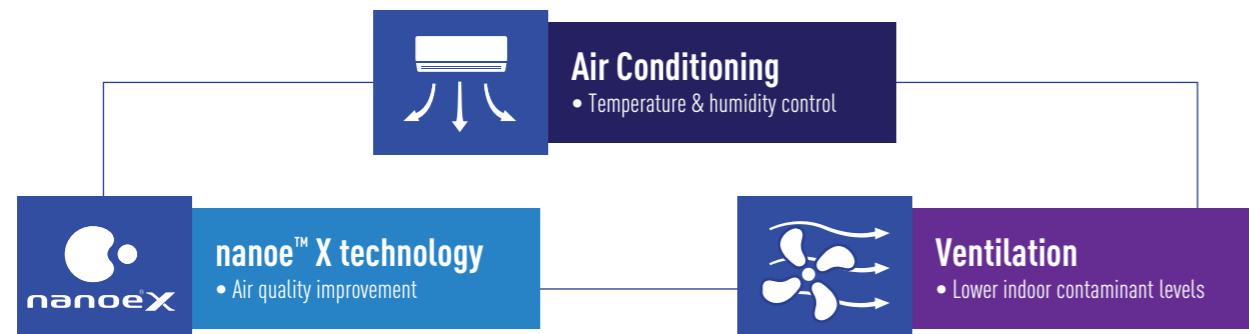
MODEL NO.		CW-N620JPH	CW-N820JPH	CW-N920JPH	CW-N1020VPH	CW-N1220VPH	CW-N1820EPH	CW-N2420EPH
<b>TECHNICAL DATA</b>	<b>UNIT</b>							
Cooling Capacity	hp	0.5	0.75	1.0	1.0	1.5	2.0	2.5
	kJ/h	5,500	7,420	9,500	11,000	13,000	19,100	25,500
Power Input	W	511	616	839	916	1,200	1,680	2,660
EER	kJ/hW	10.8	12	11.3	12	10.8	11.4	9.6
Noise Level Indoor (Low)	dB A	44	44	44	46	46	48	52
Power Source	V/Phase Hz	230 V, 1Ø Phase - 60 Hz						
Refrigerant		R32	R32	R32	R32	R32	R32	R32
<b>PHYSICAL DATA</b>								
Unit Dimension (WxHxD)	mm	450 x 346 x 590	450 x 346 x 590	450 x 346 x 590	560 x 346 x 655	560 x 346 x 655	660 x 428 x 800	660 x 428 x 800
Packaging Dimension (WxHxD)	mm	505 x 465 x 660	505 x 465 x 660	505 x 465 x 660	649 x 488 x 756	649 x 488 x 756	760 x 582 x 877	760 x 582 x 877
Net Weight	kg	24	28	28	33	35	61	65
Gross Weight	kg	26	30	30	38	40	65	69



# 3 Key Elements for Quality Air

Envisioning a comfortable environment is now made a reality. Panasonic maintains three key elements such as Air Conditioning, Air Ventilation and Air Purification to ensure you can enjoy quality air that enriches your life.

## QUALITY AIR FOR LIFE



## Air Conditioning

Panasonic air conditioners offer comfortable cooling while harmonising with any interior designs.

<p>Wall-mounted Air Conditioner</p>  <p>Cool air descends from above for gentle and even cooling.</p>	<p>4-Way Cassette</p>  <p>360° wide and comfortable airflow.</p>
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## nanoe™ X technology

Deodorises and effectively inhibits bacteria, viruses and pollutants in the air and surfaces (adhered) for a clean and safe environment.

<p>Wall-mounted Air Conditioner</p>  <p>Purifies your living space by inhibiting various pollutants to protect you and your family.</p>	<p>Air Purifier</p>  <p>Safe air with HEPA composite filter that removes 99.97% of 0.3µm particles.</p>	<p>air-e</p>  <p>Deodorises unpleasant smells and fabrics, occupying only a minimal space.</p>	<p>Portable nanoe™ X Generator</p>  <p>The portable and lightweight design makes it ideal for any environment.</p>
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## Ventilation

Maintains a circulated air flow while ventilating indoor air to keep the space fresh all-round.

Supply Fan



Ensures only fresh, clean air enters the room and removes particles.

\*Product availability may vary depending on country.

# Expanding the nanoe™ world in Japan-24/7, Anywhere, Anytime.

Increasingly adopted in a wide range of industries such as railway, automotive, hotel and hospital industries

## Public Transport



JR Kyushu



Keihan Railway



KEIO



JR East

## Office



4-way cassette air conditioners

Elevators



HITACHI



## Home



Humidifying air purifiers



Humidifiers



Clothes drying dehumidifiers



Fans



Air conditioners

## Automotive

Toyota Lexus

Expanding adoption to 40 models



Suzuki

Mazda

Subaru

## Public spaces



Ceiling-embedded nanoe™ generators

### Hotels



### Cafes



### Hospitals



### Nursery schools



### Nursing homes

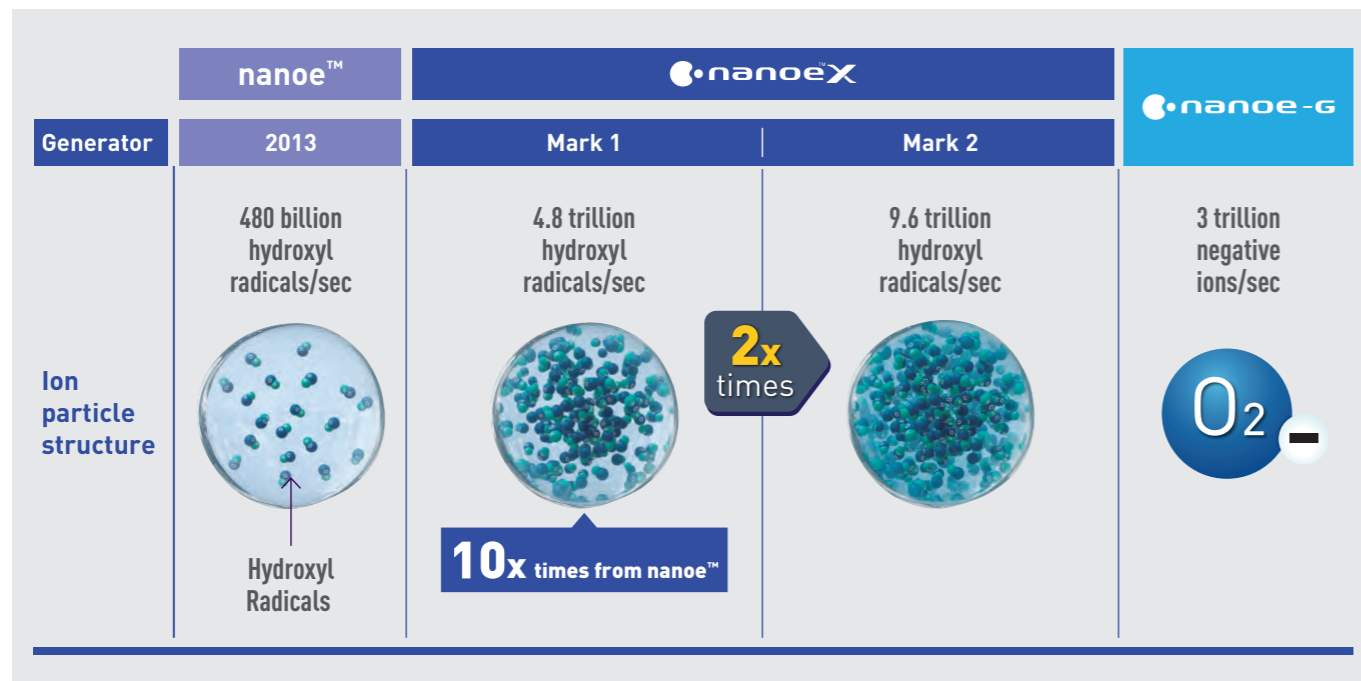


Panasonic is committed to the improvement of air quality with nanoe™ technology.

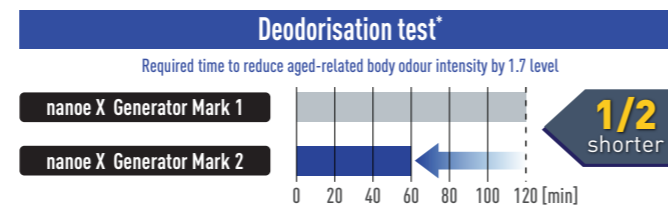
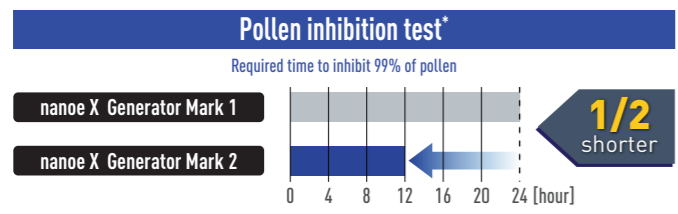
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# The Development of nanoe™ technology

nanoe™ technology development started with the aim of using water's natural tendency to dissolve odour-causing substances. Through continuous improvements on the nanoe™ device over the years, it now generates 20 times more hydroxyl radicals to ensure the air is purified at all times.



## Effectiveness of nanoe X Generator Mark 2 vs nanoe X Generator Mark 1



[Testing organisation] Panasonic Product Analysis Center [Testing method] Verified using electrophoresis method in an approximately 23m<sup>3</sup> sized test room [Deodorisation method] nanoe™ released [Test substance] Cedar pollen[Test result] Inhibited 99% in 12 hours (L19YA009)

[Testing organisation] Panasonic Product Analysis Center [Testing method] Verified using the six-level odour intensity scale method in an approximately 23m<sup>3</sup> sized test room [Deodorisation method] nanoe™ released [Test substance] Surface-attached aged related body odour [Test result] Odour intensity reduced by 1.7 levels in 1 hour (Y18HM059)

\*Lifespan of hydroxyl radicals contained in water is around 10 minutes, during this time they have the capacity to act against the pollutants. It may require longer to inhibit pollutants effectively, see the tests on effectiveness on nanoe™ X on airborne and adhesive pollutants.



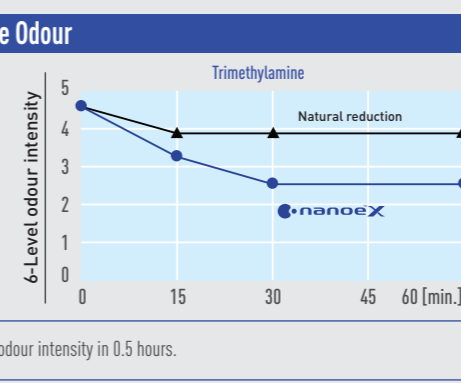
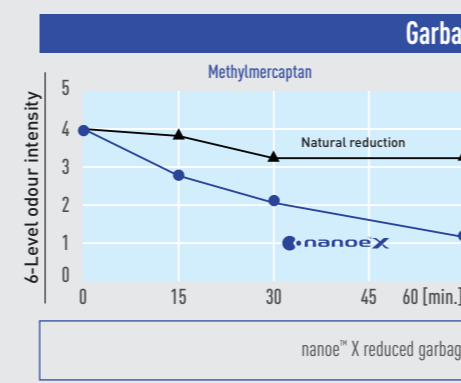
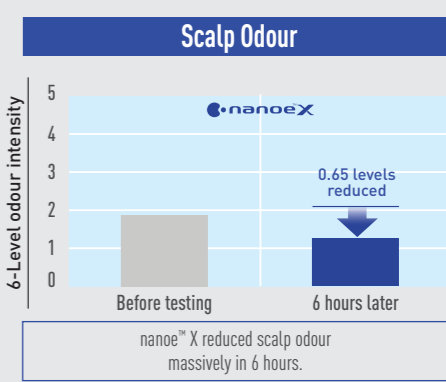
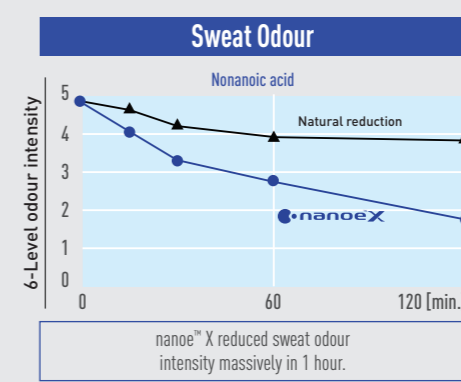
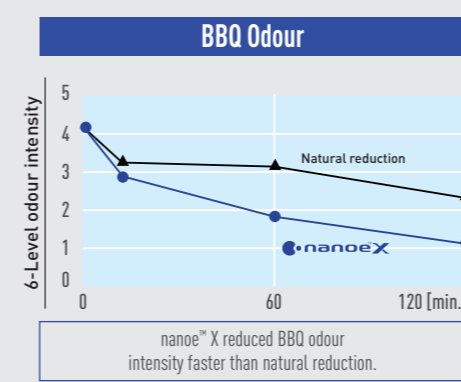
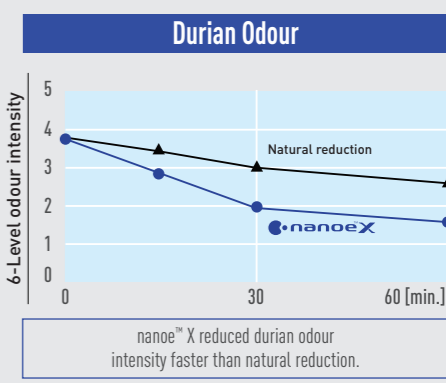
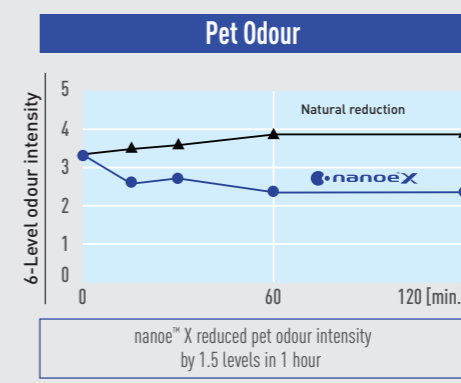
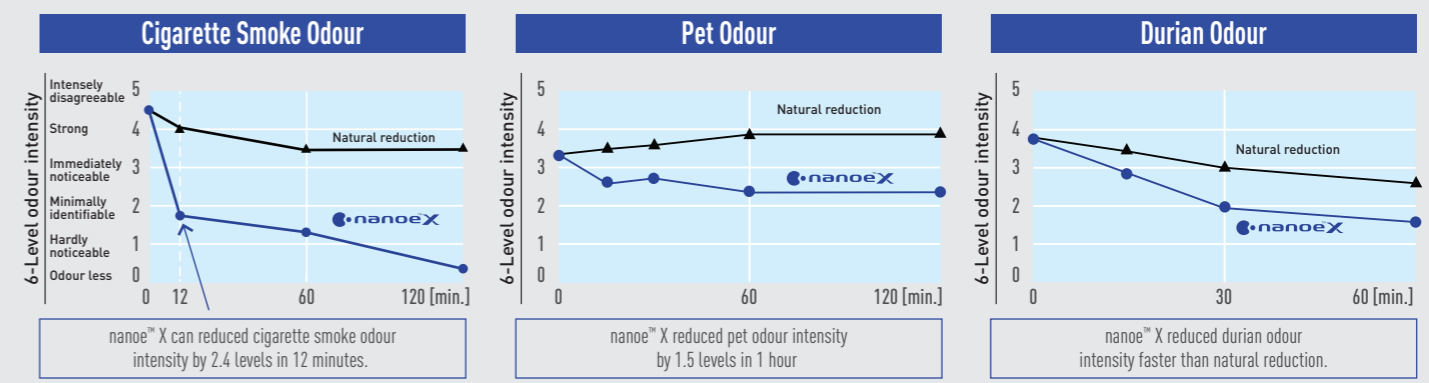
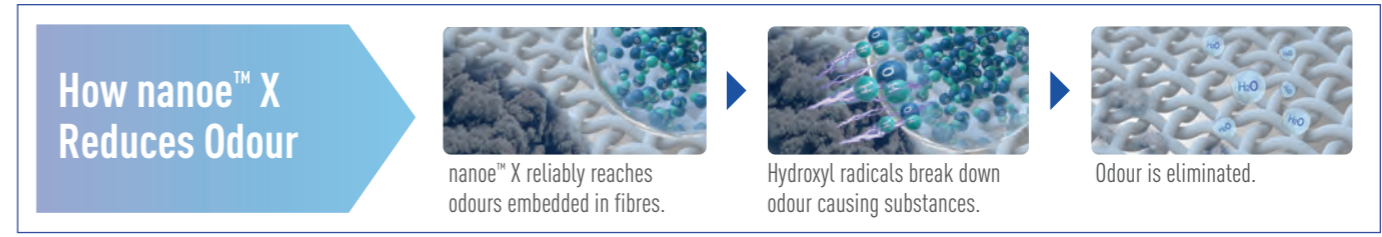
## Deodorises frequently encountered odours

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.



[ Representative evidence ]

\*\* : Units based on Panasonic standards

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

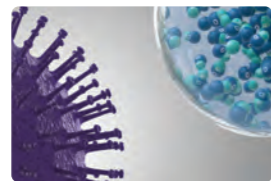
Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection. Deodorisation effect varies according to the environment (temperature and humidity), operation time, odour, and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



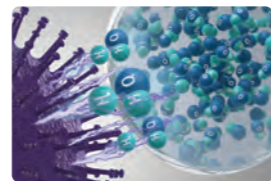
## Inhibits activity of airborne, adhered bacteria and viruses

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

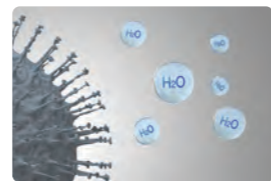
### How nanoe™ X Inhibits Bacteria & Viruses



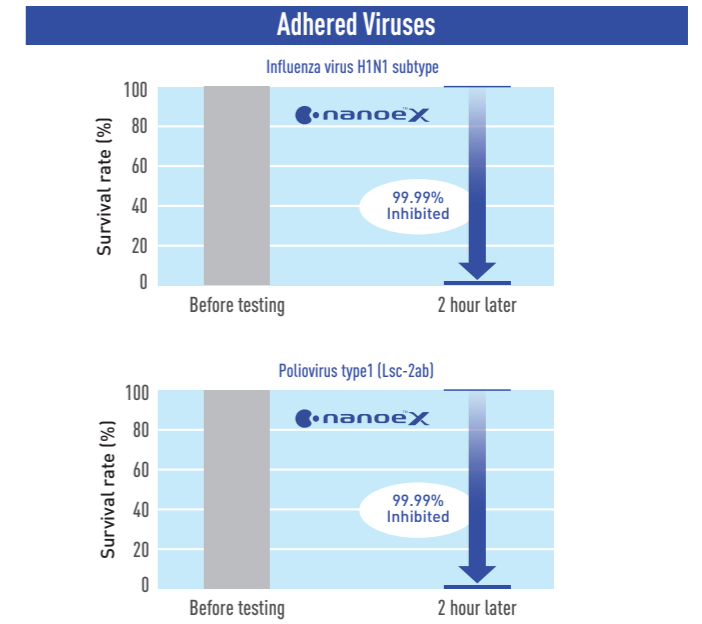
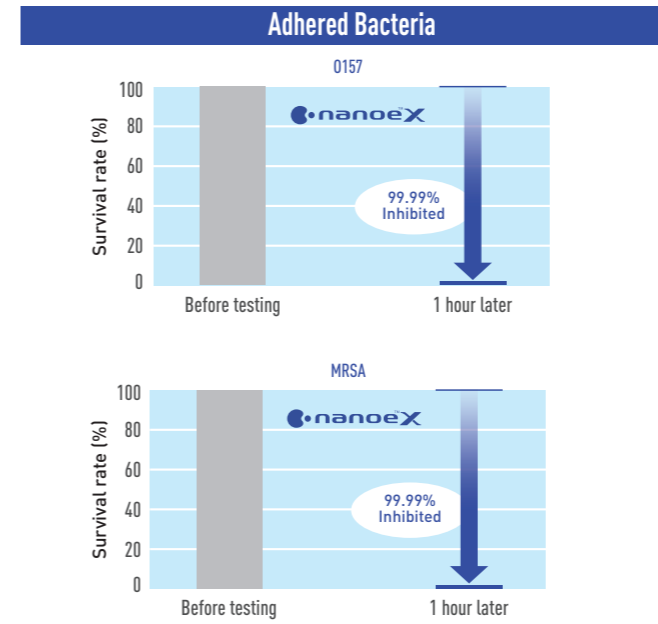
nanoe™ X reliably reaches virus.



Hydroxyl radicals transform virus proteins.



Virus activity is inhibited.



[ 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. 25m <sup>3</sup>	6	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria Staphylococcus aureus	99.9% inhibited	Approx. 25m <sup>3</sup>	4	Kitasato Research Center for Environmental Science	2016_0279
Adhered	Virus Bacteriophage ΦX174	99.8% inhibited	Approx. 25m <sup>3</sup>	8	Japan Food Research Laboratories	13001265005-01
	Bacteria Staphylococcus aureus	99.1% inhibited	Approx. 25m <sup>3</sup>	8	Japan Food Research Laboratories	13044083003-01
Adhered Novel Coronavirus	SARS-CoV-2	99.9% inhibited	45L	2	Texcell France	1140-01 A1
	SARS-CoV-2	91.4% inhibited	6.7m <sup>3</sup>	8	Texcell France	1140-01 C3
	SARS-CoV-2	99.7% inhibited	6.7m <sup>3</sup>	24	Texcell France	1140-01 C3
Adhered virus	Influenza virus (H1N1 subtype)	99.9% inhibited	1m <sup>3</sup>	2	Kitasato Research Center for Environmental Science	21_0084_1
	Feline calicivirus (Related form of norovirus)	99.9% inhibited	25L	2	Japan Food Research Laboratories	207031493-001
	Coxsackievirus (B6)	99.1% inhibited	45L	2	Kitasato Research Center for Environmental Science	22_0085
	Poliovirus type 1 (Lsc-2ab)	99.7% inhibited	45L	2	Kitasato Research Center for Environmental Science	22_0096
Adhered bacteria	Bacterium enterohemorrhagic escherichia coli (O157)	99.99% inhibited	45L	1	Japan Food Research Laboratories	208120880-001
	Methicillin-resistant staphylococcus aureus (MRSA)	99.99% inhibited	45L	1	Japan Food Research Laboratories	208120880-002
	Staphylococcus aureus	99.99% inhibited	1m <sup>3</sup>	24	Kitasato Research Center for Environmental Science	20_0154_2
	Bacillus	99.6% inhibited	45L	0.5	Japan Food Research Laboratories	11000924001-01
	Micrococcus	99.9% inhibited	45L	2	Japan Food Research Laboratories	11000924001-02
	Serratia	99.9% inhibited	45L	2	Japan Food Research Laboratories	11000924001-03
	Kocuria	99.9% inhibited	45L	1	Japan Food Research Laboratories	11000922001-01

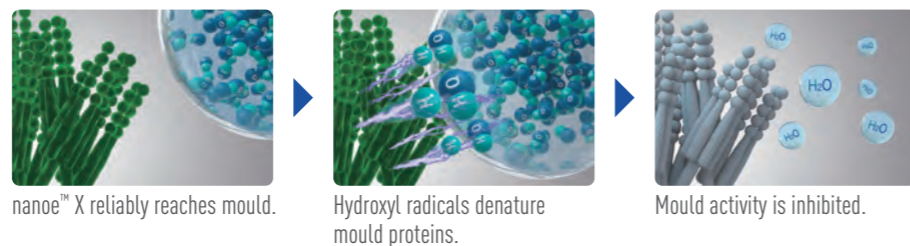
Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection.



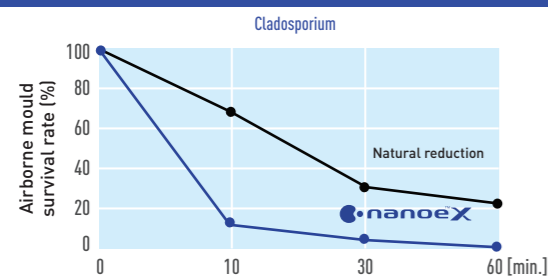
## Inhibits activity of airborne mould and adhered mould

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

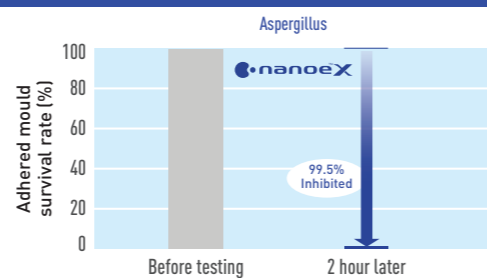
### How nanoe™ X Inhibits Growth of Mould



#### Airborne Mould



#### Adhered Mould



[ Representative evidence ]

\*\* : Units based on Panasonic standards

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

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



## Inhibits pet-derived allergens and major allergens

In addition to allergens from sources such as dog / cat dander, mite faeces / carcasses, and airborne mould, other major allergens are also inhibited.

### How nanoe™ X Inhibits Allergens



[ Representative evidence ]

\*\* : Units based on Panasonic standards

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

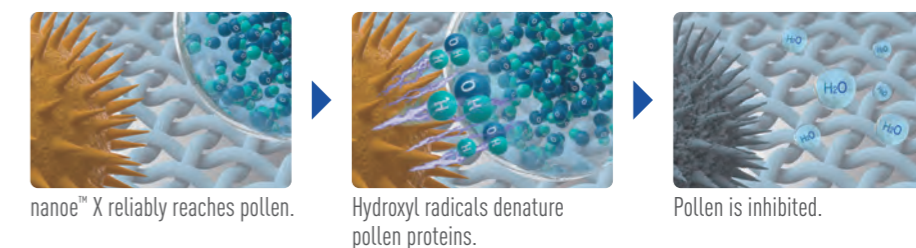
Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection.



## Inhibits pollens globally all year round

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

### How nanoe™ X Inhibits Pollen



[ Representative evidence ]

\*\* : Units based on Panasonic standards

Pollen Allergens	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Cedar	97% inhibited	Approx. 23m <sup>2</sup>	8	Panasonic Product Analysis Center	4AA33-151001-F01
Cypress	Inhibited	Approx. 23m <sup>2</sup>	24	Panasonic Product Analysis Center	4AA33-151028-F01
Orchard grass	Inhibited	Approx. 23m <sup>2</sup>	24		
Ragweed	Inhibited	Approx. 23m <sup>2</sup>	24		
Alnus japonica	Inhibited	Approx. 23m <sup>2</sup>	24	Panasonic Product Analysis Center	4AA33-160601-F01
Japanese white birch	Inhibited	Approx. 23m <sup>2</sup>	24		
Artemisia	Inhibited	Approx. 23m <sup>2</sup>	24		
Olive	Inhibited	Approx. 23m <sup>2</sup>	24	Panasonic Product Analysis Center	4AA33-160601-F02
Juniper	Inhibited	Approx. 23m <sup>2</sup>	24		
Casuarina	Inhibited	Approx. 23m <sup>2</sup>	24		
Miscanthus	Inhibited	Approx. 23m <sup>2</sup>	24	Panasonic Product Analysis Center	4AA33-160701-F01
Timothy grass	Inhibited	Approx. 23m <sup>2</sup>	24		
Humulus japonicus	Inhibited	Approx. 23m <sup>2</sup>	24	Panasonic Product Analysis Center	1V332-180301-F01

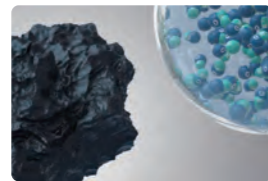
Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection.



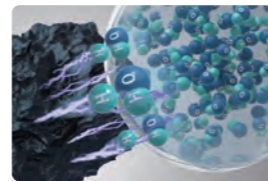
### Inhibition of hazardous substances known to be found in PM2.5

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

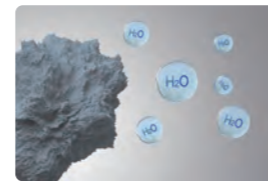
#### How nanoe™ X Inhibits Hazardous Substances



nanoe™ X reliably reaches hazardous substance.



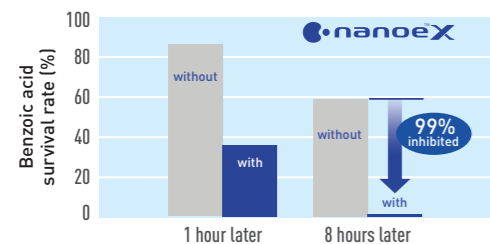
Hydroxyl radicals denature hazardous substances proteins.



Hazardous substance is inhibited.

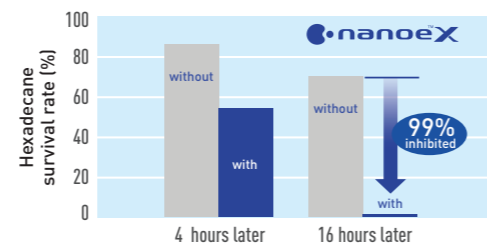
#### Aromatic Carboxylic Acid

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. 23m <sup>2</sup>	16	Panasonic Product Analysis Center	Y17NF089
	Aromatic carboxylic acid (Benzoic acid)	99% inhibited	Approx. 23m <sup>2</sup>	8	Panasonic Product Analysis Center	Y17NF096
Carcinogen	Benz [a] anthracene (BaA)	78% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF141
	Benzo [b] fluoranthene (BbF)	79% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF142
	Benzo [a] pyrene (BaP)	97% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF143
	Indeno [1,2,3-cd] pyrene (IcP)	97% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF144
	Dibenzo [a,h] anthracene (Dha)	81% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF145

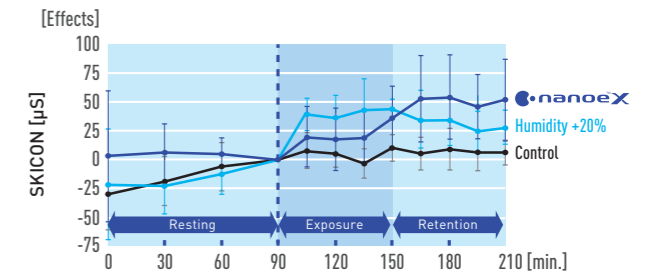
Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe™ X and nanoe™ inhibit activity or growth of viruses, but do not prevent infection.



### Moisturised skin, straighter & sleeker hair

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

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



[ Representative evidence ]

\*\* : Units based on Panasonic standards

Skin and hair	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Skin	Effective	Approx. 34m <sup>2</sup>	1	Panasonic Product Analysis Center	USG-KT-14K-012-TM
	Effective	Standard household	28 days	FCG Research Institute, Inc.	19104
Hair	Effective	Approx. 46m <sup>2</sup>	8 Hr. × 15 days	Panasonic Product Analysis Center	USD-KS-15S-009-TM

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

### Test reports of nanoe™ X

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



Indonesia  
PT. Anugrah  
Analisis Sempurna



Singapore  
Temasek Polytechnic



Malaysia  
SIRIM Berhad



Vietnam  
Pasteur Institute



Thailand  
King Mongkut's University  
of Technology Thonburi





## Inside Cleaning

### How inside cleaning works

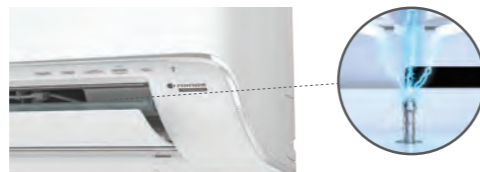
#### 1 Power "OFF"



First, the air conditioner has to be switched off.

Remark:  
Main power must be switched on for the entire duration.

#### 2 nanoe™ X runs on Fan Operation



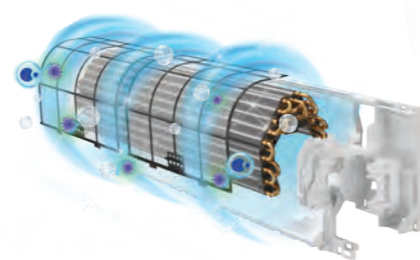
Fan Operation : ON  
Flap : Slightly open  
nanoe™ Technology LED : ON

nanoe™ X device applies high voltage to the moisture collected in the air to produce water particles that contain hydroxyl radicals.

The indoor unit will automatically run on Fan Operation for 2.5 hours during the inside cleaning process. The flap will open slightly, allowing airflow to circulate the hydroxyl radicals and perform inside cleaning within the air conditioning unit.

#### 3 Effective inhibition with hydroxyl radicals from nanoe™ X Inside Cleaning\*

nanoe™ X inhibits bacteria and viruses through the airflow route within 2.5 hours during the inside cleaning process.



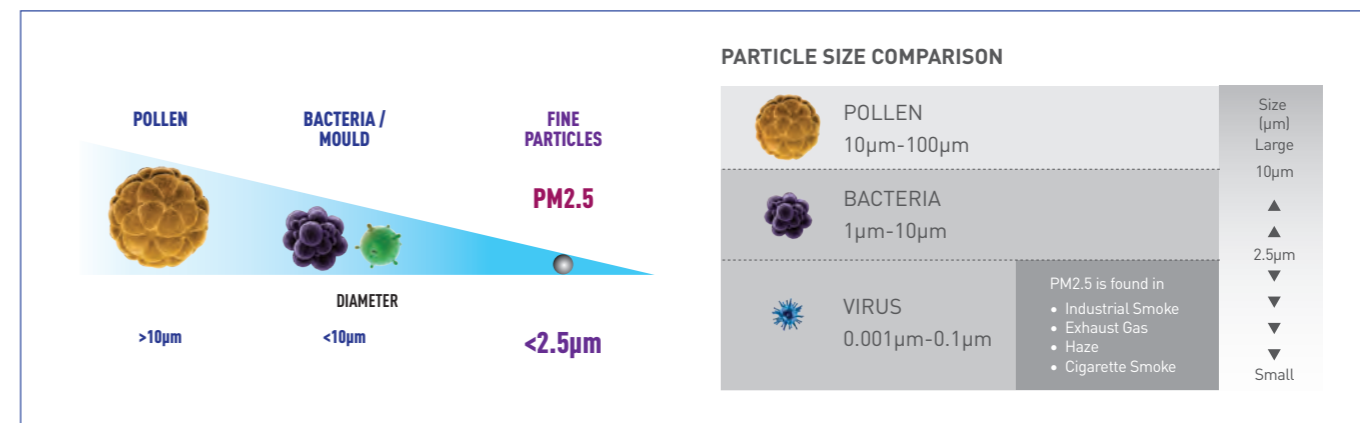
Substance Name	Target Parts	Result	Capacity	Time (Hr.)	Testing Organisation	Report No.
<b>Bacteria</b> <i>Escherichia coli</i> NBRC3301	Filter	99% inhibited (compared to non-operation)	42.8m <sup>3</sup>	2.5	Protectea,Ltd	PR190803
	Heat exchanger fin	99% inhibited (compared to non-operation)	42.8m <sup>3</sup>	2.5	Protectea,Ltd	PR190803
	Air outlet	99% inhibited (compared to non-operation)	42.8m <sup>3</sup>	2.5	Protectea,Ltd	PR191102
<b>Virus</b> <i>Escherichia coli</i> Phage QB NBRC20012	Filter	99% inhibited (compared to non-operation)	42.8m <sup>3</sup>	2.5	Protectea,Ltd	PR190803
	Heat exchanger fin	99% inhibited (compared to non-operation)	42.8m <sup>3</sup>	2.5	Protectea,Ltd	PR190803
	Air outlet	99% inhibited (compared to non-operation)	42.8m <sup>3</sup>	2.5	Protectea,Ltd	PR191102

\* Applicable to PREMIUM INVERTER (1.0HP-2.5HP) and DELUXE INVERTER only.



## What is PM2.5?

"Particulate matter," also known as PM is made up of a number of components including extremely small particles and liquid droplets. Sized at less than 2.5 micrometers (PM2.5), these particles are said to pose health problems as they can easily enter our lungs.

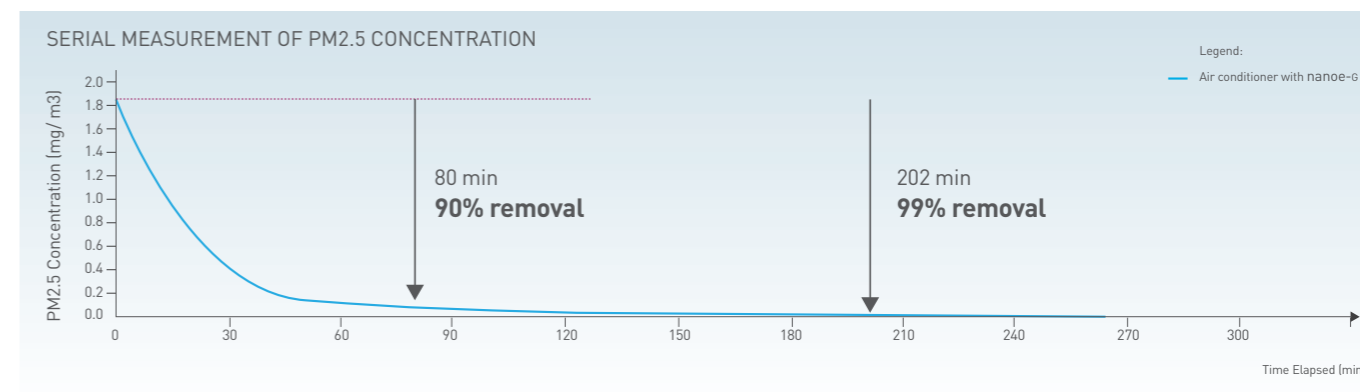


### Sources of PM2.5

PM2.5 can be found suspended in the air, including dust, dirt, smoke and liquid droplets. These fine particles come from man-made sources such as the combustion of fossil fuels, open burning and industrial processes as well as natural ones, which include sea sprays and dust carried by strong winds.



### PM2.5 Removal Efficiency Based On Time



[ Representative evidence ]

\*\* : Units based on Panasonic standards

Substances name	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Airborne <b>Cigarette smoke [as PM2.5]</b>	Removed by 99% (compared to the initial concentration)	23m <sup>3</sup>	202 mins.	FCG Research Institute, Inc.	25034

WALL-MOUNTED											
Split Type	PREMIUM INVERTER			DELUXE INVERTER		STANDARD INVERTER		STANDARD NON-INVERTER		INVERTER MULTI-SPLIT	
Cooling Models	CS-XU9XKQ	CS-XU18XKQ	CS-XU30VKQ	CS-XPU9WKQ	CS-XPU24XKQ	CS-PU9WKQ	CS-PU24XKQ	CS-PN9XKQ	CS-PN18XKQ	CS-S9TKZW	CS-S18TKZW
	CS-XU12XKQ	CS-XU24XKQ		CS-XPU12WKQ	CS-XPU18WKQ	CS-PU12WKQ	CS-PU18WKQ	CS-PN12XKQ	CS-PN24XKQ	CS-S12TKZW	CS-S24TKZW
COMFORT											
IAUTO-X	•	•	•								
Powerful Mode				•	•	•	•	•	•	•	•
Humidity Sensor	•	•									
ECO Mode with A.I.	•	•		•	•	•	•				
Inverter Control	•	•	•	•	•	•	•			•	•
SLEEP	•	•	•	•	•	•	•	•	•	•	•
Quiet Mode	•	•	•	•	•	•	•	•	•	•	•
Soft Dry Operation Mode	•	•	•	•	•	•	•	•	•	•	•
Personal Airflow Creation	•	•	•		•					•	•
Airflow Direction Control (Up & Down)				•		•	•	•	•		
Manual Horizontal Airflow Direction Control				•		•	•	•	•		
ECONAVI										•	•
Temperature Wave										•	•
CLEANER AIR											
nanoe™ X	• (Mark 2)	• (Mark 2)	• (Mark 1)	• (Mark 1)	• (Mark 1)						
nanoe-G	•	•	•	•	•					•	•
Odour-Removing Function	•	•	•	•	•	•	•	•	•	•	•
Removable, Washable Panel	•	•	•	•	•	•	•	•	•	•	•
CONVENIENCE											
24-Hour Dual ON & OFF Real Setting Timer	•	•	•	•	•	•	•			•	•
24-Hour ON & OFF Real Setting Timer								•	•		
LCD Wireless Remote Control	•	•	•	•	•	•	•	•	•	•	•
Wireless LAN Remote Control For Internet Connection	• (Built-in)	• (Built-in)	• (Optional)	• (Optional)	• (Optional)	• (Optional)	• (Optional)			• (Optional)	• (Optional)
Wired Remote Control	• (Optional)	• (Optional)	• (Optional)	• (Optional)	• (Optional)	• (Optional)	• (Optional)			• (Optional)	• (Optional)
RELIABILITY											
Random Auto Restart (32 Restart Patterns)	•	•	•	•	•	•	•	•	•	•	•
Blue Fin Condenser	•	•	•	•	•	•	•	•	•	•	•
Long Piping (Numbers indicate the maximum pipe length)	20m	30m	30m	20m (XPU9/12) 30m (XPU18)	30m	20m (PU9/12) 30m (PU18)	30m	20m	30m	refer pg46	refer pg46
Top-Panel Maintenance Access	•	•	•	•	•	•	•	•	•	•	•
Self-Diagnostic Function	•	•	•	•	•	•	•			•	•

### 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.

**POWERFUL MODE**  
Press the POWERFUL mode to cool your room faster during startup to provides fast comfort with full power and a strong airflow.

**HUMIDITY SENSOR**  
Controls relative humidity below 60% for ideal sleep.

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

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

**TEMPERATURE WAVE**  
Rhythmic temperature-controlled pattern to save energy without sacrificing comfort.

**ECONAVI**  
Detects and reduces waste for more energy savings.

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

**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.

**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.

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

**MANUAL HORIZONTAL AIRFLOW DIRECTION CONTROL**  
Horizontal airflow pattern can be manually adjusted.

### CLEANER AIR

**nanoe™ X**  
nanoe™ X effectively deodorises and inhibits various pollutants for a fresher and cleaner living space.

**nanoe-G**  
nanoe-G works effectively on removing dust particles as small as PM2.5.

**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.

**24-HOUR ON & OFF REAL SETTING TIMER**  
The exact operating time (hour and minute) of the air conditioner can be set in advance. From here on, the unit will operate in accordance to these preset hours every day until the system is reset.

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

**Wireless LAN REMOTE CONTROL FOR INTERNET CONNECTION**  
Control air conditioners remotely by turning your mobile device into a remote controller using internet connection.

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

### 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.

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

Horse Power (HP)	1.0HP	1.5HP	2.0HP	2.5HP	3.0HP	4.0HP	Features
Capacity (kJ/h)	9,000	12,000	18,000	24,000	30,000	36,000	
<b>WALL-MOUNTED</b> <b>PREMIUM INVERTER</b> Page 32-33	NEW  <b>CS-XU9XKQ</b> [CU-XU9XKQ]	NEW  <b>CS-XU12XKQ</b> [CU-XU12XKQ]	NEW  <b>CS-XU18XKQ</b> [CU-XU18XKQ]	NEW  <b>CS-XU24XKQ</b> [CU-XU24XKQ]			nanoeX nanoe X Generator Mark 2 nanoe-G i AutoX INTELLIGENT DYNAMIC COOL HUMIDITY SENSOR BUILT-IN NEW AEROWINGS INVERTER ECO+AI
<b>WALL-MOUNTED</b> <b>PREMIUM INVERTER</b> Page 34-35					 <b>CS-XU30VKQ</b> [CU-XU30VKQ]		nanoeX nanoe X Generator Mark 1 nanoe-G AEROWINGS i AutoX INTELLIGENT DYNAMIC COOL INVERTER
<b>WALL-MOUNTED</b> <b>DELUXE INVERTER</b> Page 36-37	 <b>CS-XPU9WKQ</b> [CU-XPU9WKQ]	 <b>CS-XPU12WKQ</b> [CU-XPU12WKQ]	 <b>CS-XPU18WKQ</b> [CU-XPU18WKQ]	NEW  <b>CS-XPU24XKQ</b> [CU-XPU24XKQ]			nanoeX nanoe X Generator Mark 1 nanoe-G AEROWINGS POWERFUL INVERTER ECO+AI
<b>WALL-MOUNTED</b> <b>STANDARD INVERTER</b> Page 38-39	 <b>CS-PU9WKQ</b> [CU-PU9WKQ]	 <b>CS-PU12WKQ</b> [CU-PU12WKQ]	 <b>CS-PU18WKQ</b> [CU-PU18WKQ]	NEW  <b>CS-PU24XKQ</b> [CU-PU24XKQ]			POWERFUL BIG FLAP (CS-PU9/12/18WKQ) AEROWINGS (CS-PU24XKQ) INVERTER ECO+AI
<b>WALL-MOUNTED</b> <b>STANDARD INVERTER</b> Page 40-41						 <b>CS-PU36WKQ</b> [CU-PU36WKQ]	POWERFUL INVERTER
<b>WALL-MOUNTED</b> <b>STANDARD NON-INVERTER</b> Page 42-43	NEW  <b>CS-PN9XKQ</b> [CU-PN9XKQ]	NEW  <b>CS-PN12XKQ</b> [CU-PN12XKQ]	NEW  <b>CS-PN18XKQ</b> [CU-PN18XKQ]	NEW  <b>CS-PN24XKQ</b> [CU-PN24XKQ]			POWERFUL BIG FLAP (CS-PN9/12XKQ) AEROWINGS (CS-PN18/24XKQ)
<b>WALL-MOUNTED</b> <b>INVERTER MULTI-SPLIT</b> Page 46-47	 <b>CS-S9TKZW</b> [CU-2S18PKZ] [CU-3S27KKZ]	 <b>CS-S12TKZW</b> [CU-2S18PKZ] [CU-3S27KKZ]	 <b>CS-S18TKZW</b> [CU-3S27KKZ]	 <b>CS-S24TKZW</b> [CU-3S27KKZ]			nanoe-G AEROWINGS POWERFUL INVERTER INTELLIGENT ECO SENSORS ECONAVI

( ): Outdoor Unit Cooling Models

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A series of 25 horizontal lines for writing on page 71.