Panasonic

RESIDENTIAL AIR CONDITIONERS 2021/2022





X-PREMIUM INVERTER R32



PREMIUM INVERTER R32











A Better Life, A Better World

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.



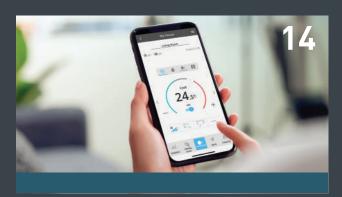
AIR PURIFICATION

Purifies air and surfaces 24 hours a day



AIR CONDITIONING

Comfortable cool air for you and your family



AIR CONNECTIVITY

Stay connected and in control anywhere, anytime



AIR EFFICIENCY

Eco-friendly and cost saving technologies for a sustainable living

EASY INSTALLATION AND SERVICING	30	SPECIFICATIONS OF X-PREMIUM INVERTER R32	32
SPECIFICATIONS OF PREMIUM INVERTER R32	34	SPECIFICATIONS OF PREMIUM INVERTER R410A	36
SPECIFICATIONS OF DELUXE INVERTER R32	38	SPECIFICATIONS OF STANDARD INVERTER R32	42
SPECIFICATIONS OF STANDARD NON-INVERTER R32	46	SPECIFICATIONS OF INVERTER FLOOR STANDING	48
SPECIFICATIONS OF FLOOR STANDING	49	nanoe™ WORLD	50
TECHNICAL EXPLANATION (nanoe™ X & nanoe-G)	52	FEATURES COMPARISON & EXPLANATION	62
MODEL LINE-UP	64		



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.



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

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.

C•nanoe**X**



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



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

*Energy consumption may vary depending on models.

Smartify Your Air Conditioner Anytime, Anywhere

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

Purify On-The-Go

Control Singular or Multiple Units



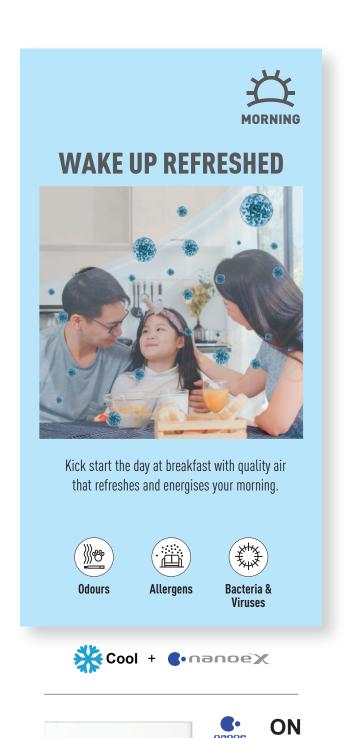
Switch on nanoe $^{\scriptscriptstyle{\text{IM}}}$ X mode without cooling whilst away from home.

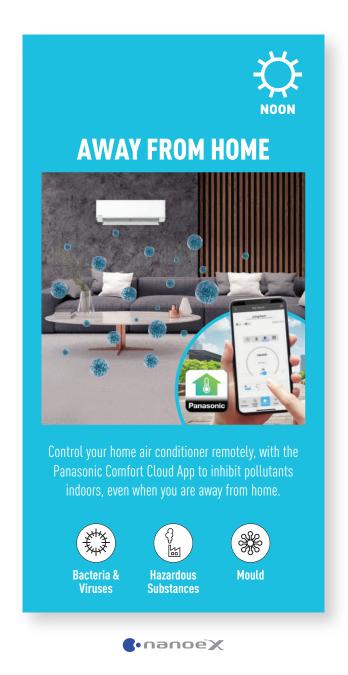
Convenience to monitor and manage the air conditioners with one mobile device.

 1 The nance $^{\rm M}$ 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.











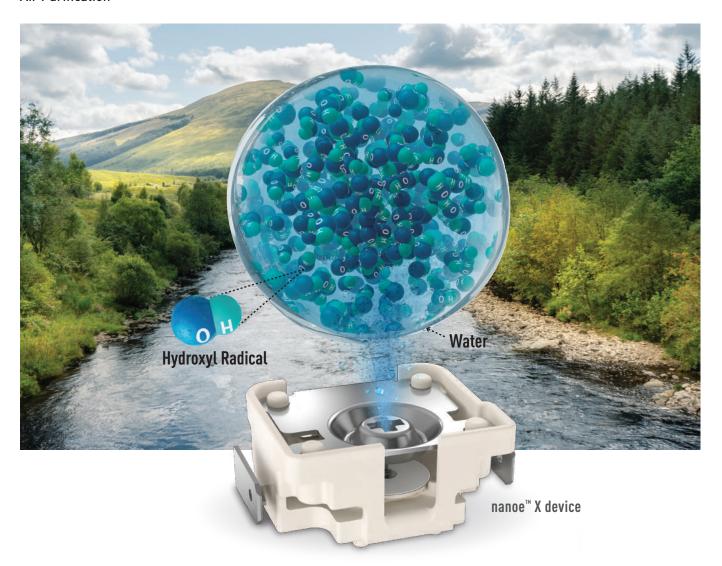




ON

Cool ON





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.



Uniqueness of nanoe™ X

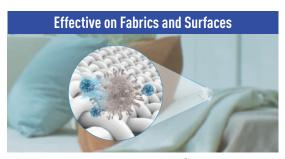
Huge Quantity Hydroxyl Radical Water

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. nanoe X Generator Mark 1 generates 4.8 trillion hydroxyl radicals per second.



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



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

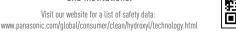


nanoe™ X technology creates hydroxyl radicals contained in water, enhancing their lifespan from less than a second to more than 600 seconds (10 mins) to spread across long distances.



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







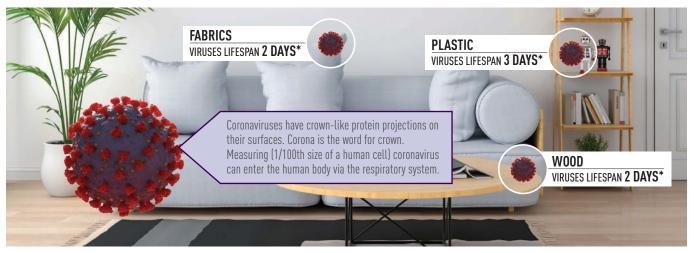
Asthma and Allergy Friendly



nance $^{\mathsf{M}}$ 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.

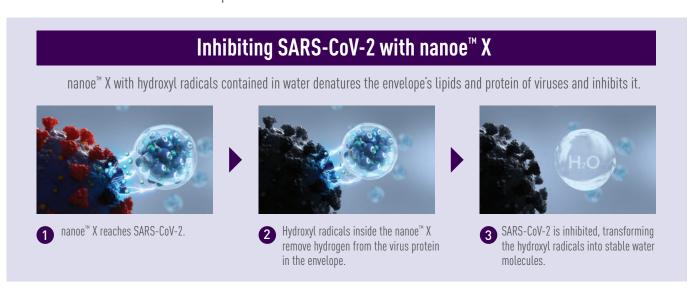
Panasonic and Sensitive Choice have partnered to introduce the nanoe™ X to the Asian market. Purifying your air 24 hours, the nanoe™ X feature can function independently or concurrently with your air conditioner. This market leading Air Sterilisation technology works towards the inhibition of bacteria, 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

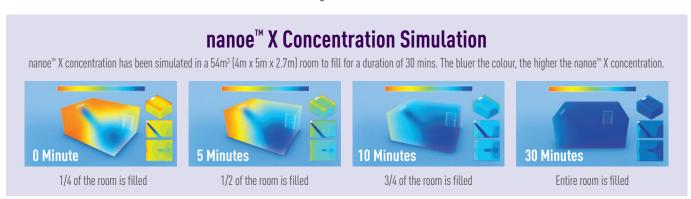
Effective in Inhibiting Novel Coronavirus

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.



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.





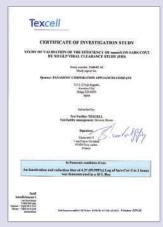
Overview

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 $^{\text{\tiny{TM}}}$ 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 × 350 mm × 350 mm) (4) Exposure time: 2 hours
- (5) Exposure distance: 15cm

Test of a generator of nanoe™ X Test results: SARS-CoV-2 **₿•**nanoe'X nanoe™ X device 100 80 Inhibition 60 40 cm 99.99 40 Natural reduction



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 •nanoe X AC with nanoe™ X

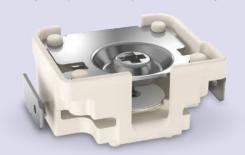




Notes: [1] The virus infectious titer was measured and used to calculate the inhibition rate. [2] This verification was designed to generate basic research data on the effects of nanoeTM X on the novel coronavirus in laboratory conditions. Actual effects will vary depending on the environment and usage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

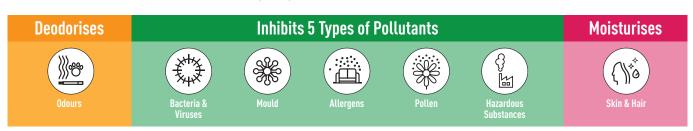


	€ •nanoeX						
Generator	Mark 1	Mark 2 NEW					
	4.8 trillion hydroxyl radicals/sec	9.6 trillion hydroxyl radicals/sec					
Ion particle structure	tim	x es					



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



BBQ Odour



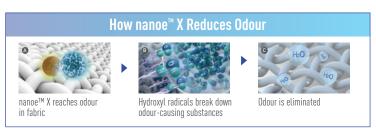


Cigarette Smoke Odour



Durian Odour

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



Inhibits 5 Types of Pollutants



Bacteria & Viruses

Mould



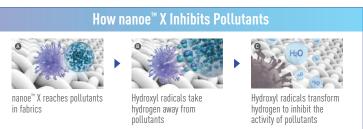
Allergens



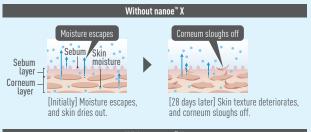
Hazardous Substances



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



Moisturises Skin and Hair

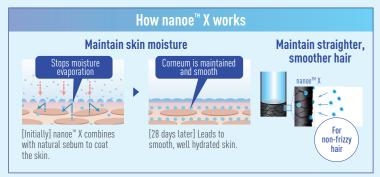


Frizzy
hair

Area difficult to lengthen even with shampooing

Lengthened area due to hydration during shampooing

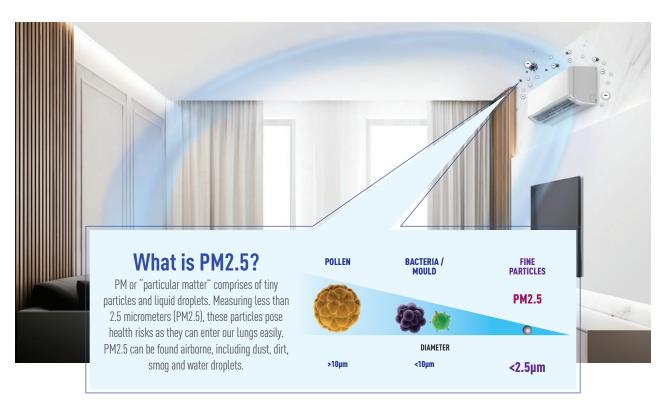
nanoe™ X water particles help to achieve proper moisture balance, resulting in smooth, hydrated skin and hair³.



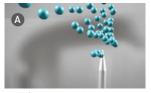


Effective in removing 99% of dust particles⁴, nanoe-G releases negative ions to capture dust particles sized as small as PM2.5, carrying them back to the filter to provide a clean and pristine living space.

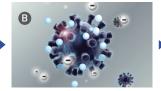
Dust Removal (PM2.5)







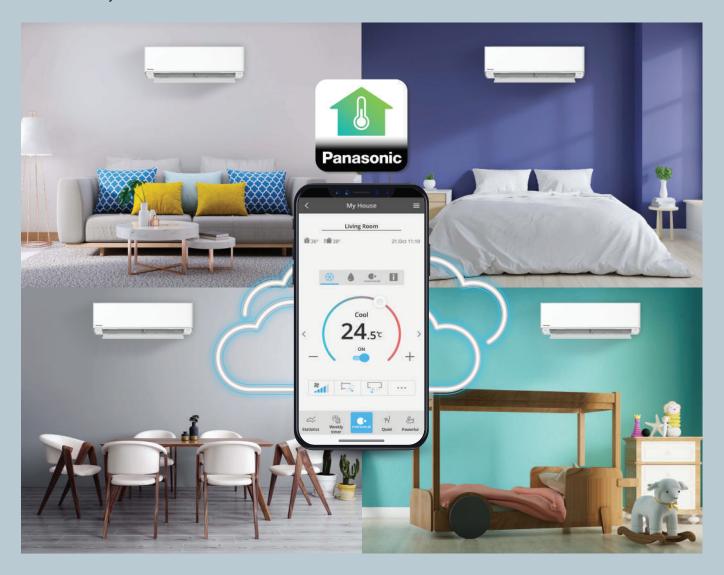
nanoe-G ion generator releases negative ions.



Negative ions attach to dust particles.



These particles are being carried back and trapped at the filter.



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 NETWORK ADAPTOR



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

AIR CONDITIONER WITH OPTIONAL NETWORK ADAPTOR



Optional network adaptor is required



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











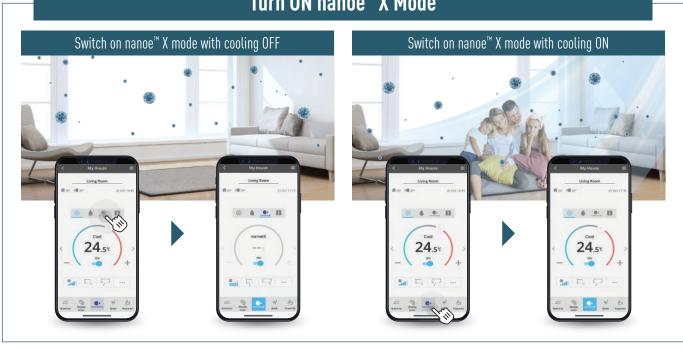




Monitor and control single and multiple air conditioners at one or more locations simultaneously anytime, anywhere with the Panasonic Comfort Cloud App. Switch ON or OFF all air conditioners at a single location also available at your convenience.

SMART COMFORT

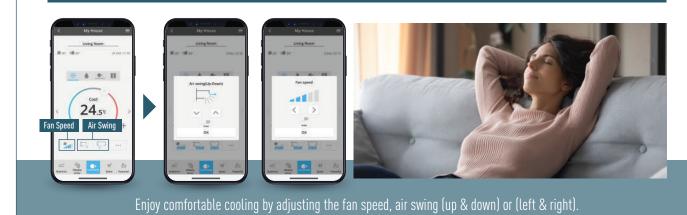
Turn ON nanoe™ X Mode



Switching Air Conditioner Mode



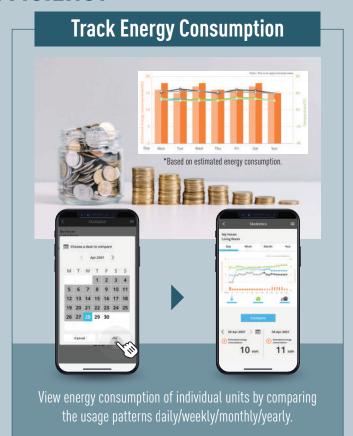
Adjust Fan Speed And Air Swing



SMART EFFICIENCY

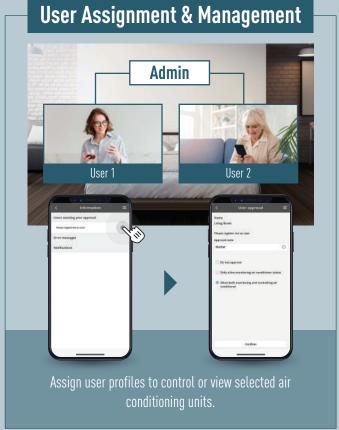
Set Timer Weshly Italy Weshly

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



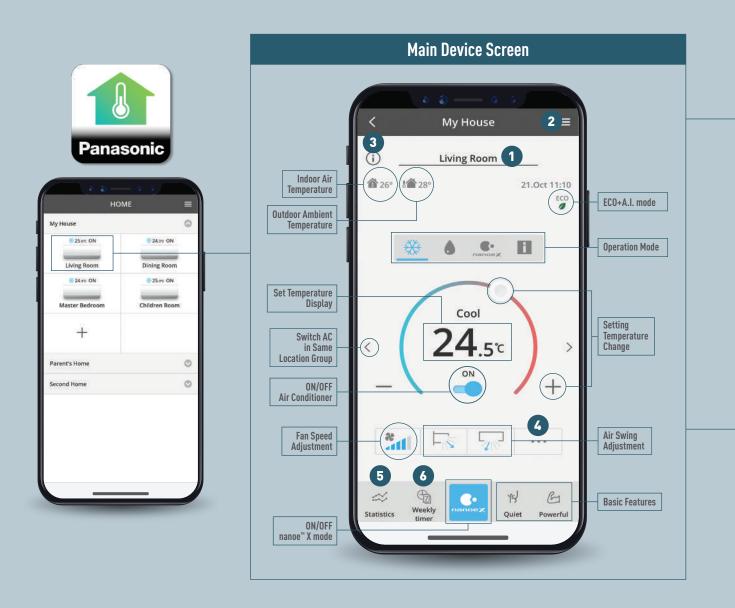
SMART ASSIST





Panasonic Comfort Cloud App

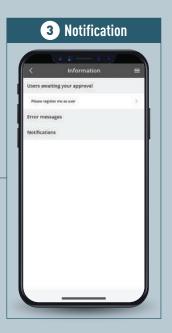
Main Function Overview



Requirements for Connecting with Panasonic Comfort Cloud App















Indoor Unit-Network

Air Conditioner equipped with built-in network adaptor/CZ-TACG1 optional network adaptor connected to port CN-CNT1



Other Hardware Requirements*

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

*Purchase and subscribe separately



Compatible Device and Browsers

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

Download Free App









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

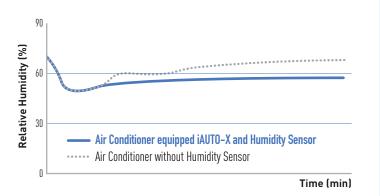
Panasonic's new iAUTO-X with the Humidity Sensor constantly monitors and adjusts relative humidity levels to below 60% for an optimal sleeping environment, so you can enjoy better sleep with comfortable cooling.





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 X-PREMIUM INVERTER Model iAUTO-X Mode: iAUTO-X Mode, Outside temperature : 35°C/24°C Remote setting temperature : 25 $^{\circ}\text{C}\text{,}$ 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:16.6m²] 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.

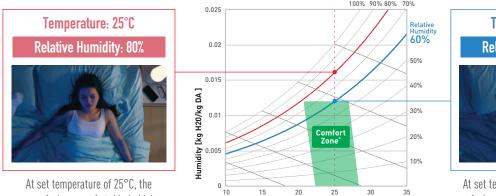


The humidity sensor automatically controls relative humidity below 60% to remain stable and comfortable durina bedtime.

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



room feels uncomfortable in high humidity. Comfort zone defined by ASHRAE STANDARD.

Temperature: 25°C Relative Humidity: 60%

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

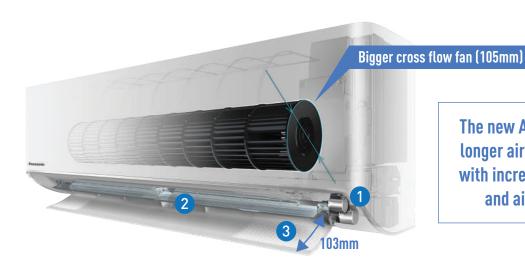
Temperature [°C]

*ANSI/ASHRAE Standard 55-2010



15 Meter Long Air Distance with The Improved New AEROWINGS¹

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%².

- 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.

NEW AEROWINGS



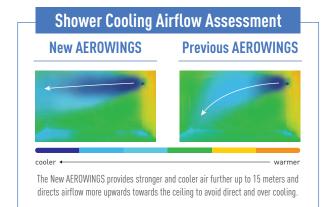
Shower Cooling

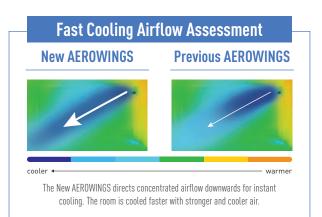
Shower airflow spreads fast, cool and concentrated air across room and to the wall, then showers down gently.



Fast Cooling

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





Efficient Airflow with Location Information Setting

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.







Without location information

Air flows unevenly, reducing cooling efficiency.







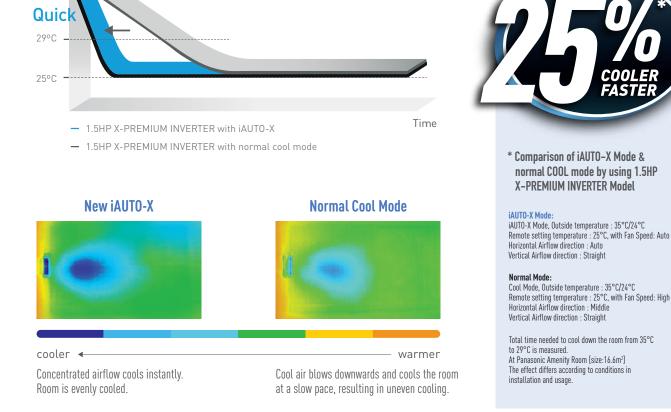
Room Temperature



Faster Cooling with iAUTO-X'

iAUTO-X provides strong faster cooling through the use of Panasonic Thermal Enhancement Technology (P-TECh) enabling the compressor to achieve maximum frequency quickly from start-up.

With the new iAUTO-X function, you can reactivate iAUTO-X for faster cooling even after reaching stable temperatures.



Uniqueness of iAUTO-X

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.

MEDIUM FAN SPEED



HIGH FAN SPEED



SUPER HIGH FAN SPEED

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.

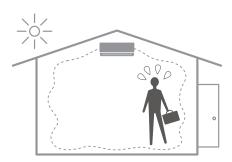


Reactivate iAUTO-X





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



Arriving home from a hot day outside



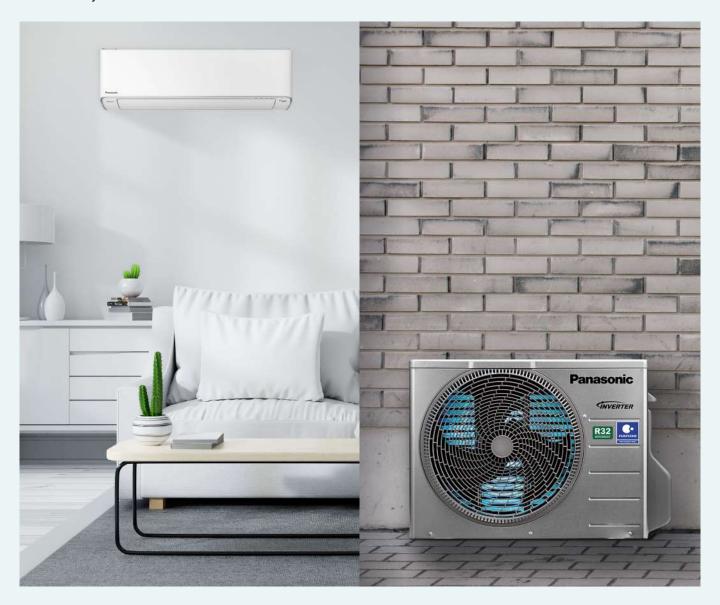
Turn on iAUTO-X on start-up for instant cooling



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



The room becomes hot with more people during stable temperature



Better Living, Together with Eco-Friendly Technologies

Panasonic's Air Efficiency provides a sustainable living environment with technologies that reduces carbon emissions into the Earth's atmosphere whilst saving costs to reduce the use of electricity for a cost and 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, altogether.







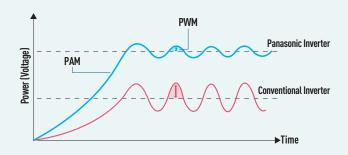


Powerful Performance with Efficiency

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



An Environmentally-Friendly Refrigerant

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



R32 has **higher cooling capacity** thereby increases heat transfer efficiency.



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



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 ₂ F ₂	CH ₂ F ₂ / CHF ₂ CF ₃	CHCLF ₂	
Boiling Point (°C)	-51.7	-51.5	-40.8	
Ozone Depletion Potential (ODP)	0	0	0.055	
Global Warming Potential (GWP)	675	2090	1810	
Pressure	1.6 x	1.6 x	1x	
Refrigerant Oil	Synthetic Oil (FW50S)	Synthetic Oil (FV50S)	Mineral Oil	
Toxicity	None	None None No		
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:



Room condition



(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 nightSaves energy after reaching set
- temperature
 ECO Mode with A.I. continues to

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





*Comparison of ECO Mode & normal mode by using 1.5HP Inverter Model

ECO Mod

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

Normal Mode

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

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

* Applicable for models with ECO+A.I. function only.



Fits Perfectly Anywhere

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

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



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

X-PREMIUM **INVERTER** R32 Single-Split Type



CS-XU10XKH | CS-XU13XKH





Wireless (Standard)

Wired CZ-RD514C (Optional)











Wired CZ-RD514C (Optional)















	INDOOR U	NIT (50Hz)	CS-XU10XKH	CS-XU13XKH	CS-XU18XKH	CS-XU24XKH
MODEL	OUTDOOR	UNIT	CU-XU10XKH	CU-XU13XKH	CU-XU18XKH	CU-XU24XKH
	(min-max)	kW	2.85 (0.92-3.40)	3.67 (1.02-4.20)	5.30 (1.10-6.21)	6.25 (1.12-7.18)
Cooling Capacity	(min-max)	Btu/h	9,720 (3,140-11,600)	12,500 (3,480-14,300)	18,100 (3,750-21,200)	21,300 (3,820-24,500)
EER	(min-max)	W/W	3.90 (4.09-3.30)	3.67 (3.92-3.50)	4.02 (4.07-3.65)	3.72 (4.48-3.50)
	(min-max)	Btu/hW	13.32 (13.96-11.26)	12.50 (13.38-11.92)	13.71 (13.89-12.47)	12.68 (15.28-11.95)
	Voltage	V	220-240	220-240	220-240	220-240
Electrical Data	Current	А	3.6-3.3	4.6-4.3	6.2-5.7	7.8-7.2
	Power Input (n	nin-max) W	730 (225-1,030)	1,000 (260-1,200)	1,320 (270-1,700)	1,680 (250-2,050)
Moisture Removal		L/h	1.7	2.1	2.9	3.5
Moisture Removat		Pt/h	3.6	4.4	6.1	7.4
Air Circulation	Indoor	m³/min (ft³/min)	11.1 (390)	12.0 (425)	18.7 (660)	19.2 (680)
Air Circulation	Outdoor	m³/min (ft³/min)	26.5 (940)-27.6 (970)	30.9 [1,090]-30.9 [1,090]	34.9 (1,230)-34.9 (1,230)	34.9 (1,230)-34.9 (1,230)
Noise Level	Indoor (H / L /	Q-Lo) dB(A)	36/26/19	38/28/19	44/32/27	45/34/28
Noise Level	Outdoor (H) dB(A		46-47	47-48	50-50	51-51
	Heisha	mm	295 (511)	295 (542)	295 (619)	295 (619)
	Height -	inch	11-5/8 (20-1/8)	11-5/8 (21-11/32)	11-5/8 (24-3/8)	11-5/8 (24-3/8)
Dimensions	Width	mm	870 (650)	870 (780)	1,040 (824)	1,040 (824)
Indoor (Outdoor)	wiath	inch	34-9/32 (25-19/32)	34-9/32 (30-23/32)	40-31/32 (32-15/32)	40-31/32 (32-15/32)
	Darab	mm	229 (230)	229 (289)	244 (299)	244 (299)
	Depth	inch	9-1/32 (9-1/16)	9-1/32 (11-13/32)	9-5/8 (11-25/32)	9-5/8 (11-25/32)
NI - + \M/-: L +	Indoor	kg (lb)	10 (22)	10 (22)	12 (26)	12 (26)
Net Weight	Outdoor	kg (lb)	18 (40)	23 (51)	30 (66)	31 (68)
	Lieuid Cide	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
Refrigerant Pipe	Liquid Side -	inch	1/4	1/4	1/4	1/4
Diameter	0 6:1	mm	ø 9.52	ø 9.52	ø 12.70	ø 12.70
	Gas Side -	inch	3/8	3/8	1/2	1/2
D: 5.	Chargeless Pi	pe Length m	7.5	7.5	10.0	10.0
	Maximum Pipe	e Length m	20	20	30	30
Pipe Extension	Maximum Elev	vation Length m	15	15	15 20	
	Additional Ref	rigerant Gas* g/m	10	10	15	15
Power Supply			Indoor	Indoor	Indoor	Indoor

 $[\]hbox{*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 X-PREMIUM **INVERTER R32**

- 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.
- Set the airflow direction.
- 3 Adjusts the FAN SPEED or QUIET mode so you can sleep comfortably at night.
- 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.
- 2 Set the actual time [hour and minute].

DUAL TIMER FOR 2 ON AND OFF TIMES PER DAY

Set the actual time (hour and minute).









2 Set the time.



OUTDOOR UNIT







CU-XU10XKH







CU-XU18XKH CU-XU24XKH

WALL-MOUNTED

PREMIUM **INVERTER** R32 Single-Split Type



CS-U10XKH | CS-U13XKH



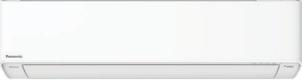
Wireless





Wired CZ-RD514C (Optional)

Network Adaptor CZ-TACG1 (Optional)











Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)















MODEL	INDOOR U	NIT (50	Hz)	CS-U10XKH	CS-U13XKH	CS-U18XKH	CS-U24XKH	CS-U28XKH
MODEL	OUTDOOR	UNIT		CU-U10XKH	CU-U13XKH	CU-U18XKH	CU-U24XKH	CU-U28XKH
	(min-max)	(min-max) kW		2.85 (0.92-3.40)	3.67 (1.02-4.20)	5.30 (1.10-6.21)	6.25 (1.12-7.18)	7.10 (1.25-8.50)
Cooling Capacity	(min-max)	Bt	u/h	9,720 (3,140-11,600)	12,500 (3,480-14,300)	18,100 (3,750-21,200)	21,300 (3,820-24,500)	24,200 (4,260-29,000)
	(min-max)	V	V/W	3.90 (4.09-3.30)	3.67 (3.92-3.50)	4.02 (4.07-3.65)	3.72 (4.48-3.50)	3.55 (3.57-3.15)
EER	(min-max)	Btu	/hW	13.32 (13.96-11.26)	12.50 (13.38-11.92)	13.71 (13.89-12.47)	12.68 (15.28-11.95)	12.10 (12.17-10.74)
	Voltage		٧	220-240	220-240	220-240	220-240	220-240
Electrical Data	Current		Α	3.6-3.3	4.6-4.3	6.2-5.7	7.8-7.2	9.3-8.5
	Power Input (r	min-max)	W	730 (225-1,030)	1,000 (260-1,200)	1,320 (270-1,700)	1,680 (250-2,050)	2,000 (350-2,700)
			L/h	1.7	2.1	2.9	3.5	4.1
Moisture Removal		F	Pt/h	3.6	4.4	6.1	7.4	8.7
4: 0: 4:	Indoor	m³/min (ft³/r	nin)	11.1 (390)	12.0 (425)	18.7 (660)	19.2 (680)	20.8 (735)
Air Circulation	Outdoor	m³/min (ft³/r	nin)	26.5 (940)-27.6 (970)	30.9 (1,090)-30.9 (1,090)	34.9 (1,230)-34.9 (1,230)	34.9 (1,230)-34.9 (1,230)	45.9 (1,620)-45.9 (1,620)
N	Indoor (H / L /	Q-Lo) di	3(A)	36/26/19	38/28/19	44/32/27	45/34/28	47/37/34
Noise Level	Outdoor (H)	dl	3(A)	46-47	47-48	50-50	51-51	53-53
	11 . 11	I	mm	295 (511)	295 (542)	295 (619)	295 (619)	295 (695)
	Height -	i	nch	11-5/8 (20-1/8)	11-5/8 (21-11/32)	11-5/8 (24-3/8)	11-5/8 (24-3/8)	11-5/8 (27-3/8)
Dimensions	NAC 111	1	mm	870 (650)	870 (780)	1,040 (824)	1,040 (824)	1,040 (875)
Indoor (Outdoor)	Width	i	nch	34-9/32 (25-19/32)	34-9/32 (30-23/32)	40-31/32 (32-15/32)	40-31/32 (32-15/32)	40-31/32 (34-15/32)
	D 11	1	mm	229 (230)	229 (289)	244 (299)	244 (299)	244 (320)
	Depth -	i	nch	9-1/32 (9-1/16)	9-1/32 (11-13/32)	9-5/8 (11-25/32)	9-5/8 (11-25/32)	9-5/8 (12-5/8)
	Indoor	kg	(lb)	10 (22)	10 (22)	12 (26)	12 (26)	14 (31)
Net Weight	Outdoor	kg	(lb)	18 (40)	23 (51)	30 (66)	31 (68)	48 (106)
	116.1	I	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35
Refrigerant Pipe	Liquid Side -	i	nch	1/4	1/4	1/4	1/4	1/4
Diameter	0 6:1	1	mm	ø 9.52	ø 9.52	ø 12.70	ø 12.70	ø 15.88
	Gas Side -	i	nch	3/8	3/8	1/2	1/2	5/8
	Chargeless Pi	Chargeless Pipe Length m		7.5	7.5	10.0	10.0	10.0
	Maximum Pip	Maximum Pipe Length m		20	20	30	30	30
Pipe Extension	Maximum Ele	Maximum Elevation Length m		15	15	20	20	20
	Additional Ref	Additional Refrigerant Gas* g/m		10	10	15	15	25
Power Supply				Indoor	Indoor	Indoor	Indoor	Outdoor

 $[\]hbox{*When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.}$

FEATURES











(Random)













(Optional)

20_m ● CS-U10XKH CS-U13XKH

30_m **●** CS-U18XKH CS-U24XKH CS-U28XKH

EASY-TO-USE REMOTE CONTROLLER

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- 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.
- Set the airflow direction.
- 3 Adjusts the FAN SPEED or QUIET mode so you can sleep comfortably at night.
- 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.
- 2 Set the actual time [hour and minute].

Wireless

Applicable to PREMIUM INVERTER R32

DUAL TIMER FOR 2 ON AND OFF TIMES PER DAY

Set the actual time (hour and minute).











OUTDOOR UNIT















CU-U18XKH CU-U24XKH

CU-U28XKH

WALL-MOUNTED

PREMIUM **INVERTER** R410A Single-Split Type



CS-S10TKH | CS-S13TKH



Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)



CS-S18TKH | CS-S24TKH | CS-S28TKH



Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)









MODEL	INDOOR L	JNIT (50Hz)	CS-S10TKH	CS-S13TKH	CS-S18TKH	CS-S24TKH	CS-S28TKH
MODEL	OUTDOOR UNIT		CU-S10TKH	CU-S13TKH	CU-S18TKH	CU-S24TKH	CU-S28TKH
0 1: 0 ::	(min-max)	kW	2.85 (0.84-3.28)	3.67 (0.92-4.20)	5.30 (1.10-6.00)	6.25 (1.12-7.10)	7.10 (1.15-8.50)
Cooling Capacity	(min-max)	Btu/h	9,720 (2,860-11,200)	12,500 (3,140-14,300)	18,100 (3,750-20,500)	21,300 (3,820-24,200)	24,200 (3,920-29,000)
550	(min-max)	W/W	3.90 (3.73-3.57)	3.63 (3.54-3.50)	3.68 (3.79-3.53)	3.32 (3.50-3.23)	3.50 (3.29-3.15)
EER	(min-max)	Btu/hW	13.32 (12.71-12.17)	12.38 (12.08-11.92)	12.57 (12.93-12.06)	11.33 (11.94-11.00)	11.92 (11.20-10.74)
	Voltage	V	220-240	220-240	220-240	220-240	220-240
Electrical Data	Current	А	3.6-3.3	5.1-4.6	7.0-6.4	8.8-8.2	9.6-9.0
	Power Input	(min-max) W	730 (225-920)	1,010 (260-1,200)	1,440 (290-1,700)	1,880 (320-2,200)	2,030 (350-2,700)
		L/h	1.7	2.1	2.9	3.5	4.1
Moisture Removal		Pt/h	3.6	4.4	6.1	7.4	8.7
4: 6: 4 ::	Indoor	m³/min (ft³/min)	10.5 (370)	11.1 (390)	19.6 (690)	20.2 (715)	21.7 (765)
Air Circulation	Outdoor	m³/min (ft³/min)	26.5 (940)-28.1 (990)	30.6 (1,080)-31.2 (1,100)	35.0 (1,235)-36.2 (1,280)	47.0 (1,660)-47.0 (1,660)	48.6 (1,715)-51.9 (1,830)
N.: I. I	Indoor (H / L	/ Q-Lo) dB(A)	36/26/23	38/28/25	44/32/29	45/34/31	47/37/34
Noise Level	Outdoor (H)	dB(A)	46-47	47-48	49-50	51-52	52-53
	11-1-64	mm	295 (511)	295 (542)	302 (619)	302 (695)	302 (795)
	Height	inch	11-5/8 (20-1/8)	11-5/8 (21-11/32)	11-29/32 (24-3/8)	11-29/32 (27-3/8)	11-29/32 (31-5/16)
Dimensions	NAC: 111	mm	919 (650)	919 (780)	1,120 (824)	1,120 (875)	1,120 (875)
Indoor (Outdoor)	Width	inch	36-3/16 (25-19/32)	36-3/16 (30-23/32)	44-1/8 (32-15/32)	44-1/8 (34-15/32)	44-1/8 (34-15/32)
	D 11	mm	199 (230)	199 (289)	241 (299)	241 (320)	241 (320)
	Depth	inch	7-27/32 (9-1/16)	7-27/32 (11-13/32)	9-1/2 (11-25/32)	9-1/2 (12-5/8)	9-1/2 (12-5/8)
	Indoor	kg (lb)	9 (20)	9 (20)	12 (26)	12 (26)	12 (26)
Net Weight	Outdoor	kg (lb)	20 (44)	27 (60)	34 (75)	40 (88)	57 (126)
	1: :16:1	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35
Refrigerant Pipe	Liquid Side	inch	1/4	1/4	1/4	1/4	1/4
Diameter	0 0:1	mm	ø 9.52	ø 12.70	ø 12.70	ø 15.88	ø 15.88
	Gas Side	inch	3/8	1/2	1/2	5/8	5/8
	Chargeless F	Pipe Length m	7.5	7.5	10.0	10.0	10.0
	Maximum Pi	pe Length m	15	15	30	20	30
Pipe Extension	Maximum El	evation Length m	5	5	20	15	20
	Additional Re	efrigerant Gas* g/m	15	15	15	20	30
Power Supply			Indoor	Indoor	Indoor	Indoor	Outdoor

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



































15m 💽 CS-S10TKH CS-S13TKH

20_m 💽 CS-S24TKH

30m 🗊 CS-S18TKH CS-S28TKH

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 R410A

- 1 LCD display for an easy overview of the operation status.
- 2 iAUTO-X lets you come home with fast cooling. Then enjoy continuous comfort with Shower Cooling which avoids direct cooling.
- 3 ECONAVI monitors sunlight intensity, human movement, activity levels and human absence to detect and reduce energy waste.
- Activates the nanoe-G function even when the air conditioner is switched off.
- 5 Press up or down to set the temperature.
- 6 Toggles between iAUTO-X, COOL and DRY setting mode.
- **1** Delays off timer with temperature control for better sleep.
- 8 Set the airflow direction.
- Adjusts the fan speed.
- 1 Quiet function allows you to sleep comfortably at night.
- Set 24-hour Dual ON & OFF Timer.
- 2 Set the actual time (hour and minute).

DUAL TIMER FOR 2 ON AND OFF TIMES PER DAY

Set the actual time (hour and minute).









2 Set the time.



OUTDOOR UNIT







CU-S10TKH









CU-S24TKH

CU-S28TKH

WALL-MOUNTED

DELUXE **INVERTER** R32 Single-Split Type NEW



CS-RU9YKH | CS-RU12YKH | CS-RU18YKH



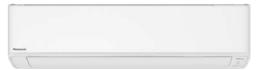
Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)



CS-RU24YKH



Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)













	INDOOR U	JNIT (50Hz)	CS-RU9YKH	CS-RU12YKH	CS-RU18YKH	CS-RU24YKH
MODEL	OUTDOOR	UNIT	CU-RU9YKH	CU-RU12YKH	CU-RU18YKH	CU-RU24YKH
	(min-max) kW		2.70 (0.84-2.90)	3.60 (1.02-4.00)	5.30 (1.10-5.40)	6.25 (1.12-7.18)
Cooling Capacity	(min-max)	Btu/h	9,210 (2,860-9,890)	12,300 (3,480-13,600)	18,100 (3,750-18,400)	21,300 (3,820-24,500)
	(min-max)	W/W	3.46 (3.73-3.22)	3.50 (3.71-3.25)	3.21 (3.79-3.00)	3.72 (4.48-3.50)
EER	(min-max)	Btu/hW	11.81 (12.71-10.99)	11.94 (12.65-11.06)	10.97 (12.93-10.22)	12.68 (15.28-11.95)
	Voltage	V	220-240	220-240	220-240	220-240
Electrical Data	Current	А	3.9-3.6	5.0-4.6	7.7-7.1	7.8-7.2
	Power Input (min-max) W		780 (225-900)	1,030 (275-1,230)	1,650 (290-1,800)	1,680 (250-2,050)
		L/h	1.6	2.1	2.9	3.5
Moisture Removal		Pt/h	3.4	4.4	6.1	7.4
4: 0: 1::	Indoor	m³/min (ft³/min)	10.3 (365)	10.8 (380)	12.6 (445)	19.2 (680)
Air Circulation	Outdoor	m³/min (ft³/min)	26.7 (940)-28.3 (1,000)	30.2 (1,065)-30.8 (1,085)	39.3 (1,390)-39.3 (1,390)	34.9 (1,230)-34.9 (1,230)
	Indoor (H / L	/ Q-Lo) dB (A)	36/26/21	38/28/21	44/34/28	45/34/29
Noise Level	Outdoor (H)	dB (A)	47-48	48-49	51-51	51-51
	Height	mm	290 (511)	290 (542)	290 (619)	295 (619)
	Height	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)
Dimensions	Width	mm	779 (650)	779 (780)	779 (824)	1,040 (824)
Indoor (Outdoor)		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)
	Беріп	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)
N. 134/ 1 1	Indoor	kg (lb)	8 (18)	8 (18)	9 (20)	12 (26)
Net Weight	Outdoor	kg (lb)	17 (37)	22 (49)	28 (62)	31 (68)
	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
Refrigerant Pipe	Liquia Siae	inch	1/4	1/4	1/4	12.68 (15.28-11.95) 220-240 7.8-7.2 1,680 (250-2,050) 3.5 7.4 19.2 (680) 34.9 (1,230)-34.9 (1,230) 45/34/29 51-51 295 (619) 11-5/8 (24-3/8) 1,040 (824) 40-31/32 (32-15/32) 244 (299) 9-5/8 (11-25/32) 12 (26) 31 (68)
Diameter	Gas Side	mm	ø 9.52	ø 9.52	ø 12.70	ø 12.70
	Gas Side	inch	3/8	3/8	1/2	1/2
	Chargeless F	Pipe Length m	7.5	7.5	10.0	10.0
Dina Extansian	Maximum Pi	pe Length m	20	20	30	30
Pipe Extension	Maximum Ele	evation Length m	15	15	20	20
	Additional Re	efrigerant Gas* g/m	10	10	15	15
Power Supply			Indoor	Indoor	Indoor	Indoor

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





































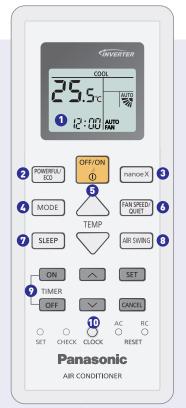






EASY-TO-USE REMOTE CONTROLLER

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OUTDOOR UNIT









CU-RU12YKH



CU-RU18YKH CU-RU24YKH

WALL-MOUNTED

DELUXE **INVERTER** R32 Single-Split Type NEW



CS-SU9YKH | CS-SU12YKH | CS-SU18YKH



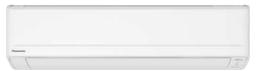
Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)



CS-SU24YKH



Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)





BIG FLAP AEROWINGS (CS-SU24YKH)







MODEL	INDOOR U	JNIT (50Hz)	CS-SU9YKH	CS-SU12YKH	CS-SU18YKH	CS-SU24YKH
MODEL	OUTDOOR	UNIT	CU-SU9YKH	CU-SU12YKH	CU-SU18YKH	CU-SU24YKH
Caaliaa Caasaiba	(min-max)	kW	2.70 (0.84-2.90)	3.60 (1.02-4.00)	5.30 (1.10-5.40)	6.25 (1.12-7.18)
Cooling Capacity	(min-max)	Btu/h	9,210 (2,860-9,890)	12,300 (3,480-13,600)	18,100 (3,750-18,400)	21,300 (3,820-24,500)
EER	(min-max)	W/W	3.46 (3.73-3.22)	3.50 (3.71-3.25)	3.21 (3.79-3.00)	3.72 (4.48-3.50)
EER	(min-max)	Btu/hW	11.81 (12.71-10.99)	11.94 (12.65-11.06)	10.97 (12.93-10.22)	12.68 (15.28-11.95)
	Voltage	V	220-240	220-240	220-240	220-240
Electrical Data	Current	А	3.9-3.6	5.0-4.6	7.7-7.1	7.8-7.2
	Power Input (min-max) W		780 (225-900)	1,030 (275-1,230)	1,650 (290-1,800)	1,680 (250-2,050)
Moisture Removal		L/h	1.6	2.1	2.9	3.5
Moisture Removat		Pt/h	3.4	4.4	6.1	7.4
Air Circulation	Indoor	m³/min (ft³/min)	10.3 (365)	10.8 (380)	12.6 (445)	19.2 (680)
Air Circulation	Outdoor	m³/min (ft³/min)	26.7 (940)-28.3 (1,000)	30.2 (1,065)-30.8 (1,085)	39.3 (1,390)-39.3 (1,390)	34.9 (1,230)-34.9 (1,230)
Noise Level	Indoor (H / L	/ Q-Lo) dB (A)	36/26/21	38/28/21	44/34/28	45/34/29
Noise Levet	Outdoor (H)	dB (A)	47-48	48-49	51-51	51-51
	Height -	mm	290 (511)	290 (542)	290 (619)	295 (619)
	rieigiit	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)
Dimensions	Width	mm	779 (650)	779 (780)	779 (824)	1,040 (824)
Indoor (Outdoor)		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)
	Бериі	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)
Net Weight	Indoor	kg (lb)	8 (18)	8 (18)	9 (20)	12 (26)
Net Weight	Outdoor	kg (lb)	17 (37)	22 (49)	28 (62)	31 (68)
	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
Refrigerant Pipe	Liquid Side	inch	1/4	1/4	1/4	CU-SU24YKH 6.25 [1.12-7.18] 21,300 [3,820-24,500] 3.72 [4.48-3.50] 12.68 [15.28-11.95] 220-240 7.8-7.2 1,680 [250-2,050] 3.5 7.4 19.2 [680] 34.9 [1,230]-34.9 [1,230] 45/34/29 51-51 295 [619] 11-5/8 [24-3/8] 1,040 [824] 40-31/32 [32-15/32] 244 [299] 9-5/8 [11-25/32] 12 [26] 31 [68]
Diameter	Gas Side	mm	ø 9.52	ø 9.52	ø 12.70	ø 12.70
	oas side	inch	3/8	3/8	1/2	1/2
	Chargeless F	Pipe Length m	7.5	7.5	10.0	10.0
Pipe Extension	Maximum Pi	pe Length m	20	20	30	30
i ihe Extelizioni	Maximum Ele	evation Length m	15	15	20	20
	Additional Re	efrigerant Gas* g/m	10	10	15	15
Power Supply			Indoor	Indoor	Indoor	Indoor

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





































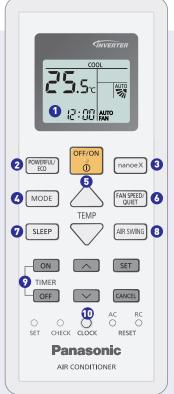






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OUTDOOR UNIT







CU-SU9YKH



CU-SU12YKH



CU-SU18YKH CU-SU24YKH

WALL-MOUNTED

STANDARD **INVERTER** R32 Single-Split Type



CS-PU9XKH | CS-PU12XKH | CS-PU18XKH



Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)



CS-PU24XKH



Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)



AEROWINGS (CS-PU24XKH)







	INDOOR U	INIT (50Hz)	CS-PU9XKH	CS-PU12XKH	CS-PU18XKH	CS-PU24XKH
MODEL	OUTDOOR	UNIT	CU-PU9XKH	CU-PU12XKH	CU-PU18XKH	CU-PU24XKH
0 1: 0 :	(min-max)	kW	2.65 (0.84-2.90)	3.51 (1.02-4.00)	5.00 (1.10-5.40)	6.25 (1.12-7.18)
Cooling Capacity	(min-max)	Btu/h	9,040 (2,860-9,890)	12,000 (3,480-13,600)	17,100 (3,750-18,400)	21,300 (3,820-24,500)
	(min-max)	W/W	3.40 (3.73-3.22)	3.41 (3.71-3.25)	3.23 (3.79-3.00)	3.72 (4.48-3.50)
EER	(min-max)	Btu/hW	11.59 (12.71-10.99)	11.65 (12.65-11.06)	11.03 (12.93-10.22)	12.68 (15.28-11.95)
	Voltage	V	220-240	220-240	220-240	220-240
Electrical Data	Current	А	3.9-3.6	5.0-4.6	7.5-6.9	7.8-7.2
	Power Input (min-max) W		780 (225-900)	1,030 (275-1,230)	1,550 (290-1,800)	1,680 (250-2,050)
M : 1 D 1		L/h	1.6	2.0	2.8	3.5
Moisture Removal		Pt/h	3.4	4.2	5.9	7.4
A: 0: 1 ::	Indoor	m³/min (ft³/min)	10.3 (365)	10.8 (380)	12.6 (445)	19.2 (680)
Air Circulation	Outdoor	m³/min (ft³/min)	26.7 (940)-28.3 (1,000)	30.2 (1,065)-30.8 (1,085)	39.3 (1,390)-39.3 (1,390)	34.9 (1,230)-34.9 (1,230)
	Indoor (H / L	/ Q-Lo) dB (A)	36/26/21	38/28/21	44/34/28	45/34/29
Noise Level	Outdoor (H)	dB (A)	47-48	48-49	51-51	51-51
	Height	mm	290 (511)	290 (542)	290 (619)	295 (619)
	Height	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)
Dimensions	Width	mm	779 (650)	779 (780)	779 (824)	1,040 (824)
Indoor (Outdoor)		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)
	Darath	mm	209 (230)	209 (289)	209 (299)	244 (299)
	Depth	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)
N W I .	Indoor	kg (lb)	8 (18)	8 (18)	9 (20)	12 (26)
Net Weight	Outdoor	kg (lb)	17 (37)	22 (49)	28 (62)	31 (68)
	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
Refrigerant Pipe	Liquia Siae	inch	1/4	1/4	1/4	1/4
Diameter	Gas Side	mm	ø 9.52	ø 9.52	ø 12.70	ø 12.70
	Gas Side	inch	3/8	3/8	1/2	1/2
	Chargeless F	ipe Length m	7.5	7.5	10.0	10.0
Dina Extension	Maximum Pi	oe Length m	20	20	30	30
Pipe Extension	Maximum Ele	evation Length m	15	15	20	20
	Additional Re	frigerant Gas* g/m	10	10	15	15
Power Supply			Indoor	Indoor	Indoor	Indoor

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



































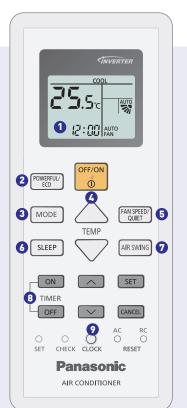






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OUTDOOR UNIT









CU-PU12XKH



CU-PU18XKH CU-PU24XKH

WALL-MOUNTED

STANDARD **INVERTER** R32 Single-Split Type



CS-QU9XKH | CS-QU12XKH | CS-QU18XKH



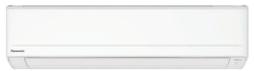
Wireless (Standard)



Wired CZ-RD514C (Optional)



Network Adaptor CZ-TACG1 (Optional)



CS-QU24XKH



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Wired CZ-RD514C (Optional)

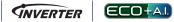


Network Adaptor CZ-TACG1 (Optional)



(CS-QU24XKH)







	INDOOR UI	NIT (50Hz)	CS-QU9XKH	CS-QU12XKH	CS-QU18XKH	CS-QU24XKH
MODEL	OUTDOOR	UNIT	CU-QU9XKH	CU-QU12XKH	CU-QU18XKH	CU-QU24XKH
	(min-max) kW		2.65 (0.84-2.90)	3.51 (1.02-4.00)	5.00 (1.10-5.40)	6.25 (1.12-7.18)
Cooling Capacity	(min-max)	Btu/h	9,040 (2,860-9,890)	12,000 (3,480-13,600)	17,100 (3,750-18,400)	21,300 (3,820-24,500)
550	(min-max)	W/W	3.40 (3.73-3.22)	3.41 (3.71-3.25)	3.23 (3.79-3.00)	3.72 (4.48-3.50)
EER	(min-max)	Btu/hW	11.59 (12.71-10.99)	11.65 (12.65-11.06)	11.03 (12.93-10.22)	12.68 (15.28-11.95)
	Voltage	V	220-240	220-240	220-240	220-240
Electrical Data	Current	А	3.9-3.6	5.0-4.6	7.5-6.9	7.8-7.2
	Power Input (r	nin-max) W	780 (225-900)	1,030 (275-1,230)	1,550 (290-1,800)	1,680 (250-2,050)
		L/h	1.6	2.0	2.8	3.5
Moisture Removal		Pt/h	3.4	4.2	5.9	7.4
4: 0: 4::	Indoor	m³/min (ft³/min)	10.3 (365)	10.8 (380)	12.6 (445)	19.2 (680)
Air Circulation	Outdoor	m³/min (ft³/min)	26.7 (940)-28.3 (1,000)	30.2 (1,065)-30.8 (1,085)	39.3 (1,390)-39.3 (1,390)	34.9 (1,230)-34.9 (1,230)
	Indoor (H / L /	Q-Lo) dB (A)	36/26/21	38/28/21	44/34/28	45/34/29
Noise Level	Outdoor (H)	dB (A)	47-48	48-49	51-51	51-51
	Height	mm	290 (511)	290 (542)	290 (619)	295 (619)
	Height	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)
Dimensions	Width	mm	779 (650)	779 (780)	779 (824)	1,040 (824)
Indoor (Outdoor)		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)
	D	mm	209 (230)	209 (289)	209 (299)	244 (299)
	Depth	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)
N W I.	Indoor	kg (lb)	8 (18)	8 (18)	9 (20)	12 (26)
Net Weight	Outdoor	kg (lb)	17 (37)	22 (49)	28 (62)	31 (68)
	Liquid Side -	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
Refrigerant Pipe	Liquid Side -	inch	1/4	1/4	1/4	1/4
Diameter	Gas Side	mm	ø 9.52	ø 9.52	ø 12.70	ø 12.70
	Gas Side -	inch	3/8	3/8	1/2	1/2
	Chargeless Pi	pe Length m	7.5	7.5	10.0	10.0
Diag Futancian	Maximum Pipe	e Length m	20	20	30	30
Pipe Extension	Maximum Elev	ation Length m	15	15	20	20
	Additional Ref	rigerant Gas* g/m	10	10	15	15
Power Supply			Indoor	Indoor	Indoor	Indoor

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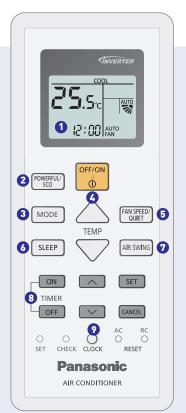
ECO+A.I.

(2)

20_m **●** CS-QU12XKH

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OUTDOOR UNIT









CU-QU12XKH



CU-OU18XKH CU-QU24XKH

WALL-MOUNTED

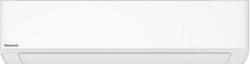
STANDARD NON-INVERTER R32 Single-Split Type



CS-PN9WKH | CS-PN12WKH | CS-PN18WKH



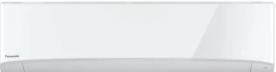
Wireless (Standard)



CS-PN24XKH



Wireless (Standard)



CS-PN28WKH



Wireless (Standard)

BIG FLAP

AEROWINGS

POWERFUL

(CS-PN9/12/18WKH CS-PN28WKH)

(CS-PN24XKH)

MODEL	INDOOR U	INIT (50Hz)	CS-PN9WKH	CS-PN12WKH	CS-PN18WKH	CS-PN24XKH	CS-PN28WKH
MODEL	OUTDOOR	UNIT	CU-PN9WKH	CU-PN12WKH	CU-PN18WKH	CU-PN24XKH	CU-PN28WKH
0 11 0 11	(min-max)	(min-max) kW		3.49-3.54	5.15-5.15	6.83-6.87	8.50-8.50
Cooling Capacity	(min-max)	Btu/h	9,040-9,210	11,900-12,100	17,600-17,600	23,300-23,400	29,000-29,000
	(min-max)	W/W	3.19-3.14	3.17-3.16	3.16-3.10	3.15-3.11	3.10-2.96
EER	(min-max)	Btu/hW	10.89-10.71	10.82-10.80	10.80-10.60	10.74-10.59	10.58-10.10
	Voltage	V	220-240	220-240	220-240	220-240	220-240
Electrical Data	Current	А	3.8-3.7	5.1-4.9	7.6-7.3	10.0-9.4	13.4-13.7
	Power Input	W	830-860	1,100-1,120	1,630 - 1,660	2,170-2,210	2,740-2,870
		L/h	1.6	2.0	2.9	3.9	5.0
Moisture Removal		Pt/h	3.4	4.2	6.1	8.2	10.6
Air Circulation	Indoor	m³/min (ft³/min)	10.9 (385)	11.5 (406)	12.7 (448)	20.5 (724)	21.5 (759)
Air Circulation	Outdoor m³/min (ft³/min)		28.8 (1,020)-29.6 (1,040)	29.0 (1,020)-29.9 (1,060)	34.5 (1,220)-35.7 (1,260)	38.8 (1,370)-41.4 (1,460)	53.5 (1,890)-55.5 (1,960)
Noise Level	Indoor (H / L)	dB (A)	37/26	40/29	44/39	47/42	50/46
Noise Levet	Outdoor (H)	dB (A)	48-49	50-51	53-54	54-55	56-57
	Height	mm	290 (511)	290 (542)	290 (619)	295 (619)	302 (695)
		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)	11-29/32 (27-3/8)
Dimensions	Width -	mm	779 (650)	779 (780)	779 (824)	1,040 (824)	1,102 (875)
Indoor (Outdoor)		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)	43-13/32 (34-15/32)
	5	mm	209 (230)	209 (289)	209 (299)	244 (299)	244 (320)
	Depth	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)	9-5/8 (12-5/8)
N W I .	Indoor	kg (lb)	8 (18)	8 (18)	9 (20)	12 (26)	13 (29)
Net Weight	Outdoor	kg (lb)	21 (46)	26 (57)	36 (79)	41 (90)	55 (121)
	1::4 6:4-	mm	ø 6.35				
Refrigerant Pipe	Liquid Side	inch	1/4	1/4	1/4	1/4	1/4
Diameter	0 6:1	mm	ø 9.52	ø 9.52	ø 12.70	ø 15.88	ø 15.88
	Gas Side	inch	3/8	3/8	1/2	5/8	5/8
	Chargeless P	ipe Length m	7.5	7.5	7.5	7.5	7.5
Pipe Extension	Maximum Pip	oe Length m	20	20	30	30	40
po Extension	Maximum Ele	evation Length m	15	15	20	20	30
	Additional Re	frigerant Gas* g/m	10	10	15	25	25
Power Supply			Indoor	Indoor	Indoor	Indoor	Outdoor

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

























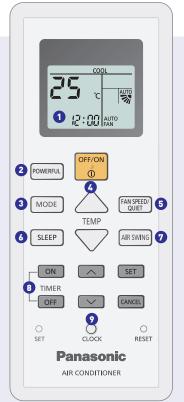
CS-PN9WKH CS-PN12WKH





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 NON-INVERTER R32

- 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 function allows you to sleep comfortably at night.
- 6 Delays off timer with temperature control for better sleep.
- Set the airflow direction.
- 3 Set the 24-hour ON & OFF Timer.
- 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-PN9WKH



CU-PN12WKH



CU-PN18WKH CU-PN24XKH



CU-PN28WKH

FLOOR STANDING

INVERTER Floor Standing Type





CS-E28NFQ

INVERTER

Marel	INDOOR UN	I T (50Hz)	CS-E28NFQ
MODEL	OUTDOOR U	NIT	CU-E28NFQ
Caaliaa Caasaika	(min-max)	kW	7.20
Cooling Capacity	(min-max)	Btu/h	24,600
EER	(min-max)	W/W	2.82
EER	(min-max)	Btu/hW	9.64
	Voltage	V	230
Electrical Data	Current	А	12.2
	Power Input (mi	n-max) W	2,550
Moisture Removal		L/h	4.2
Moisture Removat		Pt/h	7.39
Air Circulation	Indoor m³/min (ft³/min)		16.0 (565)
All Circulation	Outdoor m³/min (ft³/min)		59.5 (2,100)
Noise Level	Indoor (H / L / Q	-Lo) dB(A)	43/36/33
Noise Level	Outdoor (H)	dB (A)	51
	Height	mm	1,880 (700)
	rieigiit	inch	74-1/64 (27-9/16)
Dimensions	Width	mm	540 (998)
Indoor (Outdoor)		inch	21-16/24 (39/19/64)
	Depth	mm	357 (320)
	Бериі	inch	14-1/16 (12-19/32)
Net Weight	Indoor	kg (lb)	37 (82)
ivet weight	Outdoor	kg (lb)	46 (101)
	Liquid Side —	mm	ø 6.35
Refrigerant Pipe	Liquiu Side	inch	1/4
Diameter	Gas Side	mm	ø 12.70
	Oas Side	inch	1/2
	Chargeless Pipe	Length m	7.0
Pipe Extension	Maximum Pipe l	_ength m	15
Tipe Extension	Maximum Eleva	tion Length m	10
	Additional Refri	gerant Gas* g/m	20
Power Supply			Indoor

 $^{{\}color{blue}^*} \textbf{When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.}\\$

COOLING MODELS









































CU-E28NFQ

FLOOR STANDING

Floor Standing Type





Wireless (Standard)





Wireless (Standard)

CS-C18FFH-E CS-C28FFH-E CS-C28FFH8-E

CS-C45FFH-E

	INDOOR UNIT	(50Hz)	CS-C18FFH-E	CS-C28FFH-E	CS-C28FFH8-E	CS-C45FFH-E	
MODEL	OUTDOOR UNIT		CU-C18FFH-E	CU-C28FFH-E	CU-C28FFH8-E	CU-C45FFH-E	
Cooling Capacity	(min-max)	kW	5.10-5.15	7.20-7.30	7.20	12.00-12.50	
Cooling Capacity	(min-max)	Btu/h	17,400-17,600	24,600-25,000	24,600	41,000-42,700	
FFR	(min-max)	W/W	2.68 - 2.64	2.76-2.75	2.88	2.54-2.60	
EEK	(min-max)	Btu/hW	9.15 - 9.02	9.46-9.43	9.84	8.70-8.89	
	Voltage	V	220-240	220-240	380	380-415	
Electrical Data	Current	А	8.7-8.8	11.9-12.0	4.5	8.4	
	Power Input (min-m	ax) W	1,900-1,950	2,600-2,650	2,500	4,710-4,800	
Moisture Removal		L/h	2.8	4.2	4.2	7.5	
Moisture Removal		Pt/h	5.9	8.9	8.9	15.8	
A: 0: 1.1:	Indoor	m³/min (ft³/min)	14.5 (512)-15.5 (547)	15.0 (530)-16.2 (572)	15.0 (530)	27.0 (953)	
Air Circulation	Outdoor	m³/min (ft³/min)	31.0 (1,094)-32.0 (1,130)	56.0 (1,978)-60.0 (2,120)	56.0 (1,978)	92.0 (3,249)	
Noise Level	Indoor (H / L / Q-Lo)	dB (A)	46/40-47/41	48/42-49/43	48/43	53/47	
	Outdoor (H)	dB (A)	53-54	53-54	53	57	
	11.1.1.1	mm	1,680 (540)	1,680 (795)	1,680 (795)	1,880 (1,175)	
	Height	inch	66-1/8 (21-5/16)	66-1/8 (31-19/64)	66-1/8 (31-19/64)	74 (64-17/64)	
Dimensions	W. III	mm	500 (780)	500 (900)	500 (900)	600 (900)	
Indoor (Outdoor)	Width	inch	19-11/16 (30-23/32)	19-11/16 (35-7/16)	19-11/16 (35-7/16)	23-5/8 (35-7/16)	
		mm	298 (289)	298 (320)	298 (320)	350 (320)	
	Depth	inch	11-23/32 (11-3/8)	11-23/32 (12-19/32)	11-23/32 (12-19/32)	13-25/32 (12-19/32)	
	Indoor	kg (lb)	34 (75)	35 (77)	35 (77)	52 (115)	
Net Weight	Outdoor	kg (lb)	40 (88)	55 (121)	55 (121)	88 (194)	
		mm	ø 6.35	ø 9.52	ø 9.52	ø 9.52	
Refrigerant Pipe	Liquid Side	inch	1/4	3/8	3/8	3/8	
Diameter	0 011	mm	ø 12.70	ø 15.88	ø 15.88	ø 19.05	
	Gas Side	inch	1/2	5/8	5/8	3/4	
	Chargeless Pipe Ler	ngth m	7.0	7.0	7.0	15.0	
D: E	Maximum Pipe Leng	jth m	10	15	15	30	
Pipe Extension	Maximum Elevation	Length m	7	10	10	20	
	Additional Refrigera	nt Gas* g/m	25	30	30	50	
Power Supply			Indoor	Indoor	Outdoor	Outdoor	

 $^{{\}color{red}^*} When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit. \\$

COOLING MODELS



























OUTDOOR UNIT



CU-C18FFH-E



CU-C28FFH-E CU-C28FFH8-E



CU-C45FFH-E

Expanding the nanoe[™] world in J

Increasingly adopted in a wide range of industries suc

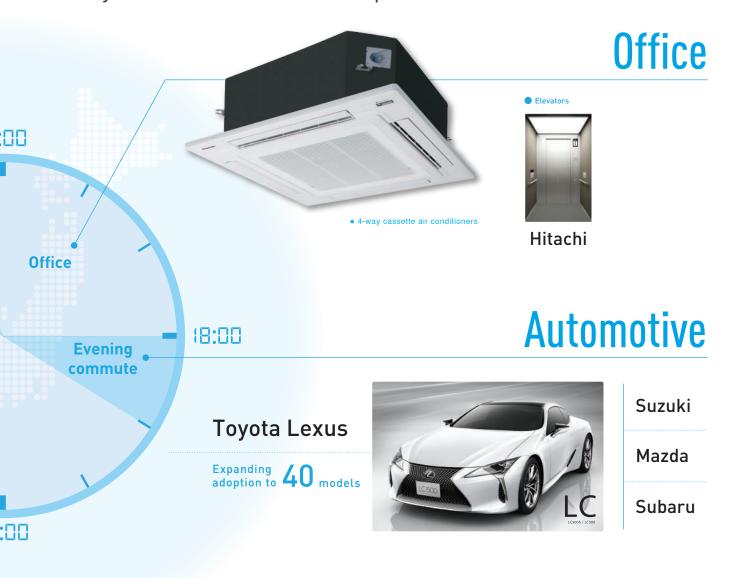


Ceiling-embedded nanoe™ generators

Panasonic is committed to the improvement

lapan-24/7, Anywhere, Anytime.

h as railway, automotive, hotel and hospital industries







Hospitals



Nursery schools



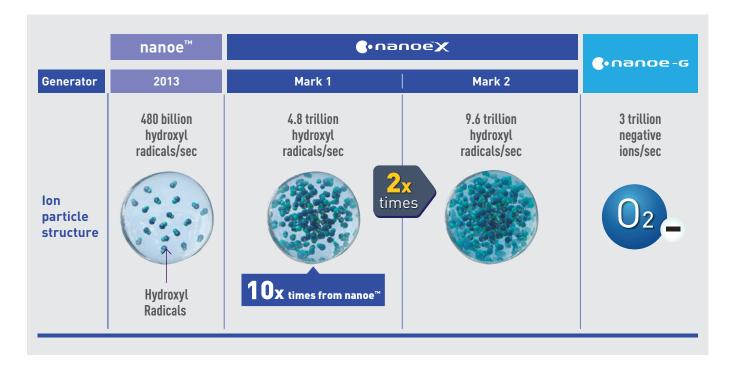
Nursing homes



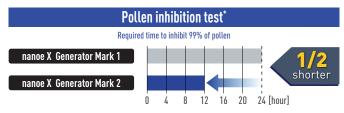
ent of air quality with nanoe™ technology.

The Development of nanoe[™] technology

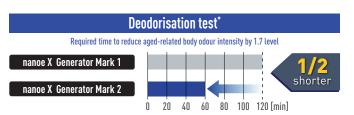
nance™ technology development started with the aim of using water's natural tendency to dissolve odour-causing substances. Through repeated improvements on the nance™ device over the years, it now generates 20 times more hydroxyl radicals to ensure the air is purified at all times.



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 23m² sized test room [Deodorisation method] nanoe™ released [Test substance] Cedar pollen[Test result] Inhibited 99% in 12 hours (L19VA009)



[Testing organisation] Panasonic Product Analysis Center [Testing method] Verified using the six-level odour intensity scale method in an approximately 23m³ 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 $^{\text{IM}}$ 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.















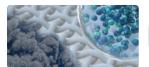




Acts on odour causing substances & deodorises them

 $nanoe^{\text{M}}$ X particles, which are smaller than steam particles, penetrate into deepest parts of fibres allowing for highly effective deodorisation.

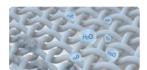
How nanoe™ X **Reduces Odour**



nanoe™ X reliably reaches odours embedded in fibres.

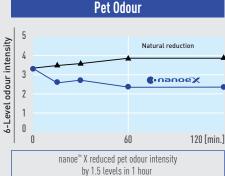


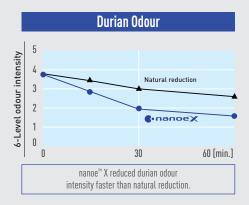
Hydroxyl radicals break down odour causing substances.

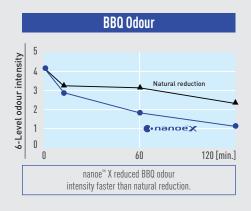


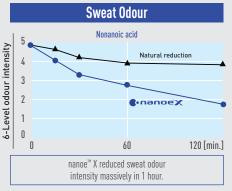
Odour is eliminated.

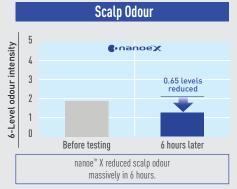


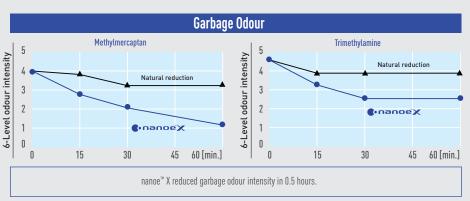


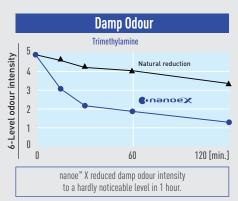












[Representative evidence] **: Units based on Panasonic standards

	Odours	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
	Cigarette smoke odour	Odour intensity reduced by 2.4 levels	Approx. 23m³	0.2	Panasonic Product Analysis Center	4AA33-160615-N04
	Pet odour	Odour intensity reduced by 1.5 levels	Approx. 23m³	1	Panasonic Product Analysis Center	4AA33-160315-A34
	Durian odour	Odour intensity reduced by 1.0 levels	Approx. 23m³	0.5	Panasonic Product Analysis Center	1V332-180402-K01
	BBQ odour	Odour intensity reduced by 1.2 levels	Approx. 23m³	2	Panasonic Product Analysis Center	4AA33-151221-N01
	Sweat odour (Nonanoic acid)	Odour intensity reduced by 1.1 levels	Approx. 23m³	1	Panasonic Product Analysis Center	Y16HM016
Adhered	Sweat odour (Hexanoic acid)	Odour intensity reduced by 2.6 levels	Approx. 23m³	1	Panasonic Product Analysis Center	4AA33-160315-A35
	Scalp odour (Pillow cover)	Odour intensity reduced by 0.65 levels	Approx. 23m³	6	[Supervision] Odour and Aroma Design Course, Department Faculty of Informatics, Daido	
	Garbage odour (Methylmercaptan)	Odour intensity reduced by 1.2 levels	Approx. 23m³	0.5	Panasonic Product Analysis Center	1V332-18220-K11
	Garbage odour (Trimethylamine)	Odour intensity reduced by 1.4 levels	Approx. 23m³	0.5	Panasonic Product Analysis Center	1V332-180220-K12
	Damp odour (Triethylamine)	Odour intensity reduced by 1.7 levels	Approx. 23m³	0.5	Panasonic Product Analysis Center	Y16RA002

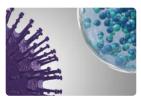
Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe[™] X and nanoe[™] inhibit activity or growth of viruses, but do not prevent infection. Deodorisation effect varies according to the environment (temperature and humidity), operation time, odour,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



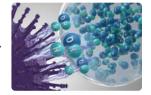
Inhibits activity of airborne, adhered bacteria and viruses

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

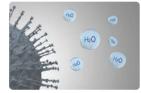
How nanoe™ X Inhibits Bacteria & Viruses



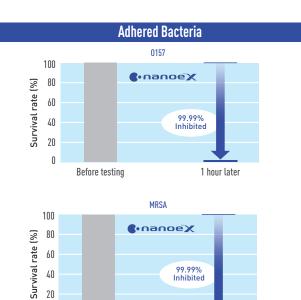
nanoe™ X reliably reaches virus.



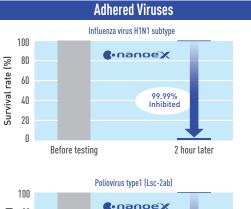
Hydroxyl radicals transform virus proteins.

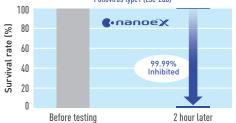


Virus activity is inhibited.



1 hour later





[Representative evidence]

0

Before testing

** : Units based on Panasonic standards

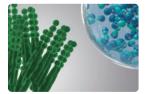
	Bacteria & viruses	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Airborne	Virus Bacteriophage ⊕X174	99.7% inhibited	Approx. 25m³	6	Kitasato Research Center for Environmental Science	24_0300_1
Airb	Bacteria Staphylococcus aureus	99.9% inhibited	Approx. 25m³	4	Kitasato Research Center for Environmental Science	2016_0279
Adhered	Virus Bacteriophage ⊕X174	99.8% inhibited	Approx. 25m³	8	Japan Food Research Laboratories	13001265005-01
Adh	Bacteria Staphylococcus aureus	99.1% inhibited	Approx. 25m³	8	Japan Food Research Laboratories	13044083003-01
onavirus	SARS-CoV-2	99.9% inhibited	45L	2	Texcell France	1140-01 A1
Adhered Novel Coronavirus	SARS-CoV-2	91.4% inhibited	6.7m³	8	Texcell France	1140-01 C3
Adhered	SARS-CoV-2	99.7% inhibited	6.7m ³	24	Texcell France	1140-01 C3
	Influenza virus (H1N1 subtype)	99.9% inhibited	1m³	2	Kitasato Research Center for Environmental Science	21_0084_1
Adhered virus	Feline calicivirus (Related form of norovirus)	99.9% inhibited	25L	2	Japan Food Research Laboratories	207031493-001
Adhere	Coxackievirus (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
	Bacterium enterohemorrhagic escherichia coli (0157)	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
teria	Staphylococcus aureus	99.99% inhibited	1m³	24	Kitasato Research Center for Environmental Science	20_0154_2
Adhered bacteria	Bacillus	99.6% inhibited	45L	0.5	Japan Food Research Laboratories	11000924001-01
Adh	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



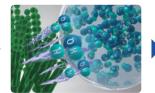
Inhibits activity of airborne mould and adhered mould

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



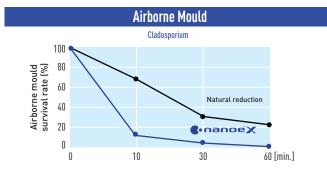
nanoe™ X reliably reaches mould.

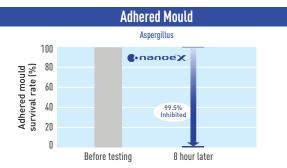


Hydroxyl radicals denature mould proteins.



Mould activity is inhibited.





[Representative evidence]

** : Units based on Panasonic standards

	Mould	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.		
Airborne	Cladosporium	99% inhibited	Approx. 23m³	1	Japan Food Research Laboratories	205061541-001		
	Alternaria	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	18077411001-0201		
	Aspergillus	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-0801		
	Cladosporium	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-0901		
	Eurotium	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-1001		
	Fusarium	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-1101		
	Mucor	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-1201		
Adhered	Penicillium	Inhibited	Approx. 23m³	8	Japan Food Research Laboratories	17145307001-1301		
Adhe	Stachybotrys	Inhibited	Approx. 23m³	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		

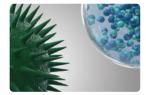
Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe^{IM} X and nanoe^{IM} inhibit activity or growth of viruses, but do not prevent infection.



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.

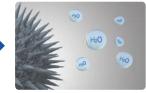
How nanoe™ X Inhibits Allergens



nanoe™ X reliably reaches allergens.



Hydroxyl radicals denature allergen proteins.



Allergen is inhibited.

[Representative evidence]

** : Units based on Panasonic standards

	Allergens	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.	
Mites	Dermatophagoides pteronyssinus	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F01	
Æ	Dermatophagoides farinae	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-170301-F15	
	Alternaria (Sooty moulds)	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center		
Mould	Aspergillus (Aspergillus genus)	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F02	
Mo	Candida	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center		
	Malassezia	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center		
Insect	Cockroach	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160615-F03	
lnsı	Moth	Inhibited	Approx. 23m³	24	ranasunic riuuct Anatysis Centei	4AA33-100013-F03	
mal	Dog (dander)	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160620-F01	
Animal	Cat (dander)	Inhibited	Approx. 23m³	24	ranasoniic ribuuct Aliatysis Centei	4AA33-10U6ZU-FU1	

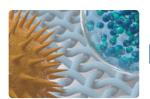
Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoeTM X and nanoeTM inhibit activity or growth of viruses, but do not prevent infection.



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 shown below, including those found in Europe and North America.

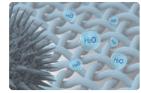
How nanoe™ X Inhibits Pollen



nanoe™ X reliably reaches pollen.



Hydroxyl radicals denature pollen proteins.



Pollen is inhibited.

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

Pollen Allergens	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Cedar	97% inhibited	Approx. 23m³	8	Panasonic Product Analysis Center	4AA33-151001-F01
Cypress	Inhibited	Approx. 23m³	24		
Orchard grass	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-151028-F01
Ragweed	Inhibited	Approx. 23m³	24		
Alnus japonica	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	
Japanese white birch	Inhibited	Approx. 23m³	24		4AA33-160601-F01
Artemisia	Inhibited	Approx. 23m³	24		
Olive	Inhibited	Approx. 23m³	24		
Juniper	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160601-F02
Casuarina	Inhibited	Approx. 23m³	24	r dilasuille r tuudet Allatysis eentei	4AA33~100001~102
Miscanthus	Inhibited	Approx. 23m³	24		
Timothy grass	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	4AA33-160701-F01
Humulus japonicus	Inhibited	Approx. 23m³	24	Panasonic Product Analysis Center	1V332-180301-F01

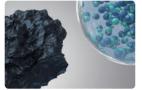
Results may vary based on usage, and seasonal and environment variables (temperature and humidity), nanoe[™] X and nanoe[™] inhibit activity or growth of viruses, but do not prevent infection.



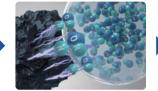
Inhibition of hazardous substances known to be found in PM2.5

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

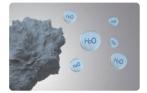
How nanoe™ X Inhibits Hazardous Substances



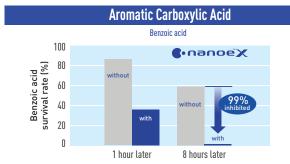
nanoe™ X reliably reaches hazardous substance.

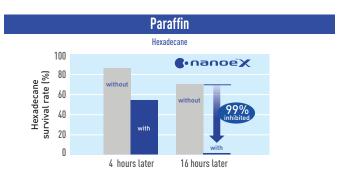


Hydroxyl radicals denature hazardous substances proteins.



Hazardous substance is inhibited.





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

	Hazardous substances	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Pollutants	Paraffin (Hexadecane)	99% inhibited	Approx. 23m³	16	Panasonic Product Analysis Center	Y17NF089
Pollu	Aromatic carboxylic acid (Benzoic acid)	99% inhibited	Approx. 23m³	8	Panasonic Product Analysis Center	Y17NF096
	Benz [a] anthracena (BaA)	78% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF141
=	Benzo [b] fluoranthene (BbF)	79% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF142
arcinogen	Benzo [a] pyrene (BaP)	97% inhibited	36L	8	Panasonic Product Analysis Center	Y13NF143
Ca	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

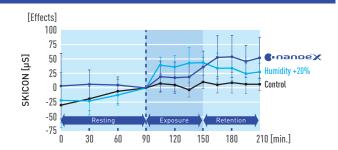
Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoeTM X and nanoeTM inhibit activity or growth of viruses, but do not prevent infection.



Moisturised skin, straighter & sleeker hair

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

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



[Representative evidence]

** : Units based on Panasonic standards

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

Results may vary based on usage, and seasonal and environment variables (temperature and humidity). nanoe M 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"

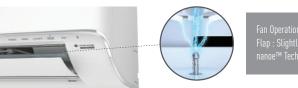


First, the air conditioner has to be switched off.

Remark:

Main power must be switched on for the entire duration.

2 nanoe™ X runs on Fan Operation

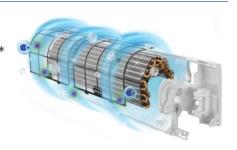


 $\mathsf{nanoe}^{\mathsf{m}}\,\mathsf{X}$ device applies high voltage to the moisture collected in the air to produce water particles that contain hydroxyl radicals.

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*





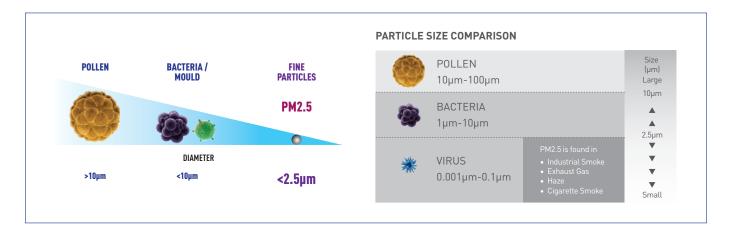
Substance Name	Target Parts	Result	Capacity	Time (Hr.)	Testing Organisation	Report No.
	Filter	99% inhibited [compared to non-operation]	42.8m³	2.5	Protectea,Ltd	PR190803
Bacteria Eschelichia coli NBRC3301	Heat exchanger fin	99% inhibited [compared to non-operation]	42.8m³	2.5	Protectea,Ltd	PR190803
	Air outlet	99% inhibited [compared to non-operation]	42.8m³	2.5	Protectea,Ltd	PR191102
	Filter	99% inhibited [compared to non-operation]	42.8m³	2.5	Protectea,Ltd	PR190803
Virus <i>Eschelichia coli</i> <i>Phage</i> QB NBRC20012	Heat exchanger fin	99% inhibited [compared to non-operation]	42.8m³	2.5	Protectea,Ltd	PR190803
	Air outlet	99% inhibited [compared to non-operation]	42.8m³	2.5	Protectea,Ltd	PR191102

^{*} Applicable to X-PREMIUM INVERTER R32, PREMIUM INVERTER R32 and DELUXE INVERTER R32.



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.



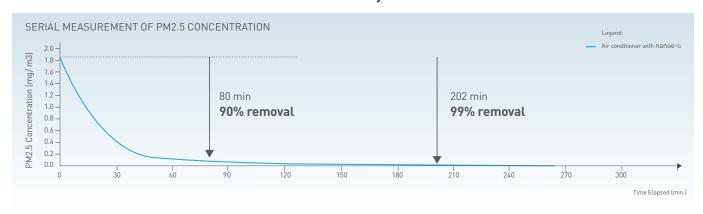
Sources of PM2.5

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



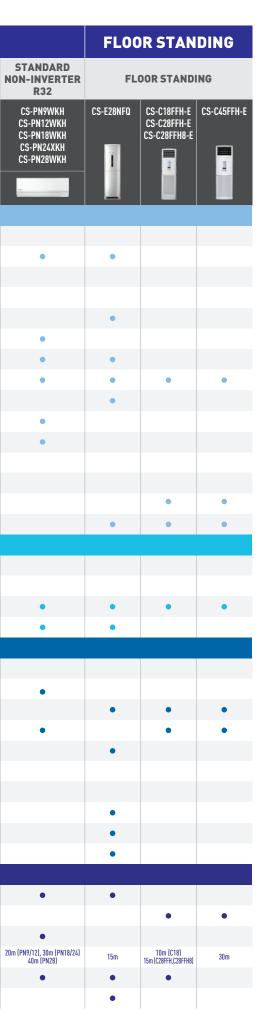
[Representative evidence]

** : Units based on Panasonic standards

	Substances name	Result**	Capacity	Time (Hr.)	Testing organisation	Report No.
Airborne	Cigarette smoke [as PM2.5]	Removed by 99% [compared to the initial concentration]	23m³	202 mins.	FCG Research Institute, Inc.	25034

WALL-MOUNTED							
Split Type	X-PREMIUM INVERTER R32	PREMIUM INVERTER R32	PREMIUM INVERTER R410A	DELUXE INVERTER R32	DELUXE INVERTER R32	STANDARD INVERTER R32	STANDARD INVERTER R32
Cooling Models	CS-XU10XKH CS-XU13XKH CS-XU18XKH CS-XU24XKH	CS-U10XKH CS-U13XKH CS-U18XKH CS-U24XKH CS-U28XKH	CS-S10TKH CS-S13TKH CS-S18TKH CS-S24TKH CS-S28TKH	CS-RU9YKH CS-RU12YKH CS-RU18YKH CS-RU24YKH	CS-SU9YKH CS-SU12YKH CS-SU18YKH CS-SU24YKH	CS-PU9XKH CS-PU12XKH CS-PU18XKH CS-PU24XKH	CS-QU9XKH CS-QU12XKH CS-QU18XKH CS-QU24XKH
	- P	in. 70		72		-	
				CO) DMFORT		
I ∧υτοχ iAUTO-X	•	•	•				
Powerful Mode				•	•	•	•
HUMIDITY Humidity Sensor	•	•					
ECO+AI ECO Mode with A.I.	•	•		•	•	•	•
Inverter Control	•	•	•	•	•	•	•
SLEEP SLEEP	•	•	•	•	•	•	•
Quiet Mode	•	•	•	•	•	•	•
Soft Dry Operation Mode	•	•	•	•	•	•	•
Personal Airflow Creation	•	•	•				
Airflow Direction Control (Up & Down)				•	•	•	•
Manual Horizontal Airflow Direction Control				•	•	•	•
ECONAVI ECONAVI			•				
°C Temperature Wave			•				
Manual Airflow Direction Control (Left & Right)							
Automatic Operation Mode (Cooling)							
				CLE	ANER AIR	1	
nanoex	•	•		•	•		
nanoe-G	•	•	•				
Odour-Removing Function	•	•	•	•	•	•	•
Removable, Washable Panel	•	•	•	•	•	•	•
				CON	VENIENCE		
24-Hour Dual ON & OFF Real Setting Timer	•	•	•	•	•	•	•
24-Hour ON & OFF Real Setting Timer							
12-Hour ON & OFF Setting Timer							
LCD Wireless Remote Control	•	•	•	•	•	•	•
Wireless Remote Control							
Wireless LAN Remote Control For Internet Connection	(Built-in)	(Optional)	(Optional)	(Optional)	(Optional)	(Optional)	(Optional)
Wired Remote Control	(Optional)	(Optional)	(Optional)	(Optional)	(Optional)	(Optional)	(Optional)
Auto Movable Panel							
Child Lock Function							
Power Monitor Display							
				REL	IABILITY		
Random Auto Restart [32 Restart Patterns]	•	•	•	•	•	•	•
Auto Restart							
Blue Fin Condenser	•	•	•	•	•	•	•
Long Piping (Numbers indicate the maximum pipe length)	20m (XU10/13) 30m (XU18/24)	20m (U10/13) 30m (U18/24/28)	15m (S10/13), 20m (S24) 30m (S18/28)	20m (RU9/12) 30m (RU18/24)	20m (SU9/12) 30m (SU18/24)	20m (PU9/12) 30m (PU18/24)	20m (QU9/12) 30m (QU18/24)
Top-Panel Maintenance Access	•	•	•	•	•	•	•

*

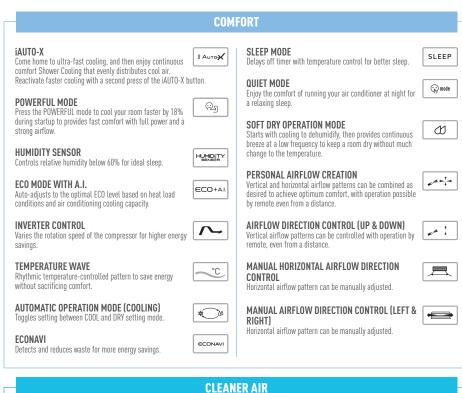


nanoe™ X

nanoe-G

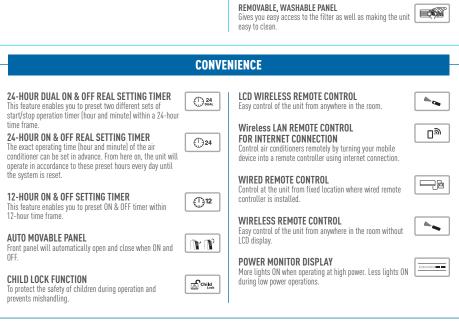
nanoe™ X effectively deodorises and inhibits various pollutants for a fresher and cleaner living space.

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



€•nanoeX

6-nance-s

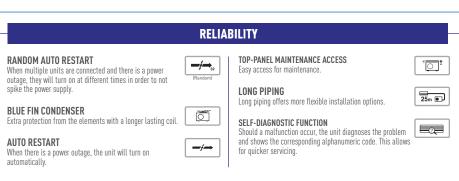


ODOUR-REMOVING FUNCTION

automatic.

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

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



Horse Power (HP)	1.0HP	1.5HP	2.0HP
Capacity (Btu/h)	9,000/10,000	12,000/13,000	18,000
X-PREMIUM INVERTER R32 Page 32-33	CS-XU10XKH [CU-XU10XKH]	CS-XU13XKH	CS-XU18XKH [CU-XU18XKH]
PREMIUM INVERTER R32 Page 34-35	CS-U10XKH [CU-U10XKH]	CS-U13XKH [CU-U13XKH]	CS-U18XKH [CU-U18XKH]
PREMIUM INVERTER R410A Page 36-37	CS-S10ТКН [си-s10ТКН]	CS-S13TKH [CU-S13TKH]	CS-S18TKH [CU-S18TKH]
NEW WALL-MOUNTED DELUXE INVERTER R32 Page 38-39	CS-RU9YKH [CU-RU9YKH]	CS-RU12YKH [CU-RU12YKH]	CS-RU18YKH [CU-RU18YKH]
NEW WALL-MOUNTED DELUXE INVERTER R32 Page 40-41	CS-SU9YKH [CU-SU9YKH]	CS-SU12YKH	CS-SU18YKH [CU-SU18YKH]
STANDARD INVERTER R32 Page 42-43	— СS-РИ9ХКН [си-Ри9ХКН]	CS-PU12XKH	CS-PU18XKH [CU-PU18XKH]
WALL-MOUNTED STANDARD INVERTER R32 Page 44-45	CS-QU9XKH [CU-QU9XKH]	CS-QU12XKH	CS-QU18XKH
WALL-MOUNTED STANDARD NON-INVERTER R32 Page 46-47	CS-PN9WKH [CU-PN9WKH]	CS-PN12WKH [CU-PN12WKH]	CS-PN18WKH
FLOOR STANDING Page 48			
FLOOR STANDING Page 49			CS-C18FFH-E [CU-C18FFH-E]

(): Outdoor Unit

Cooling Models

2.5HP	3.0HP	5.0HP	
24,000	28,000	45,000	Features
			• nance X Generator Mark 2
El In			AEROWINGS GNVERTER CO+A.
CS-XU24XKH [CU-XU24XKH]			POLICIEST OF COLUMN CO.
			Chance X Concretor Mark 2 Chance X Concretor Mark 2 Chance S Concretor Mark 2
			INVERTER LAUTON DELIGION DELIGIO
CS-U24XKH [CU-U24XKH]	CS-U28XKH [CU-U28XKH]		ECO+A.I.
			€•nanoe-g ∠EROWINGS
CS-S24TKH	CS-S28TKH		GNVERTER
[CU-S24TKH]	[CU-S28TKH]		'
			CS-RU9/12/18YKH
CS-RU24YKH [CU-RU24YKH]			POWERFUL FINVERTER CO+AL
			COSSUSTRICT (CS-SUSTRICT) COSSUSTRICT (CS-SUSTRICT) COSSUSTRICT) COSSUSTRICT)
CS-SU24YKH [CU-SU24YKH]			POWERFUL GNVERTER ECO+AL
			BIG FLAP AEROWINGS POWERFUL (CS-PU2/12/18XKH)
CS-PU24XKH [CU-PU24XKH]			GNVERTER ECO+AI
			BIG FLAP AEROWINGS POWERFUL
CS-QU24XKH [CU-QU24XKH]			GNVERTER ECO+AL
			BIG FLAP (ICS-PN9/1/2/18WKH) CS-PN26WKH) AEROWINGS POWERFUL
CS-PN24XKH [CU-PN24XKH]	CS-PN28WKH [CU-PN28WKH]		
	CS-E28NFQ [CU-E28NFQ]		GNVERTER
	CS-C28FFH-E [CU-C28FFH-E] CS-C28FFH8-E [CU-C28FFH8-E]	CS-C45FFH-E	





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 January 2022.
- Due to printing considerations, actual colours may vary slightly from those shown.
- All graphics are provided solely for the purpose of illustrating a point.



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

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Authorised	Dealer



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



AC-CMDA-C-21