



RESIDENTIAL AIR CONDITIONERS X-PREMIUM INVERTER R32 2023/2024



nanoeX
Generator Mark3

**INSIDE
CLEANING**
ON DEMAND

Panasonic
Comfort Cloud App

BUILT-IN
EASY CONNECT

**HUMIDITY
SENSOR**
+
DRY MODE

INVERTER

AI ECO

R32
REFRIGERANT

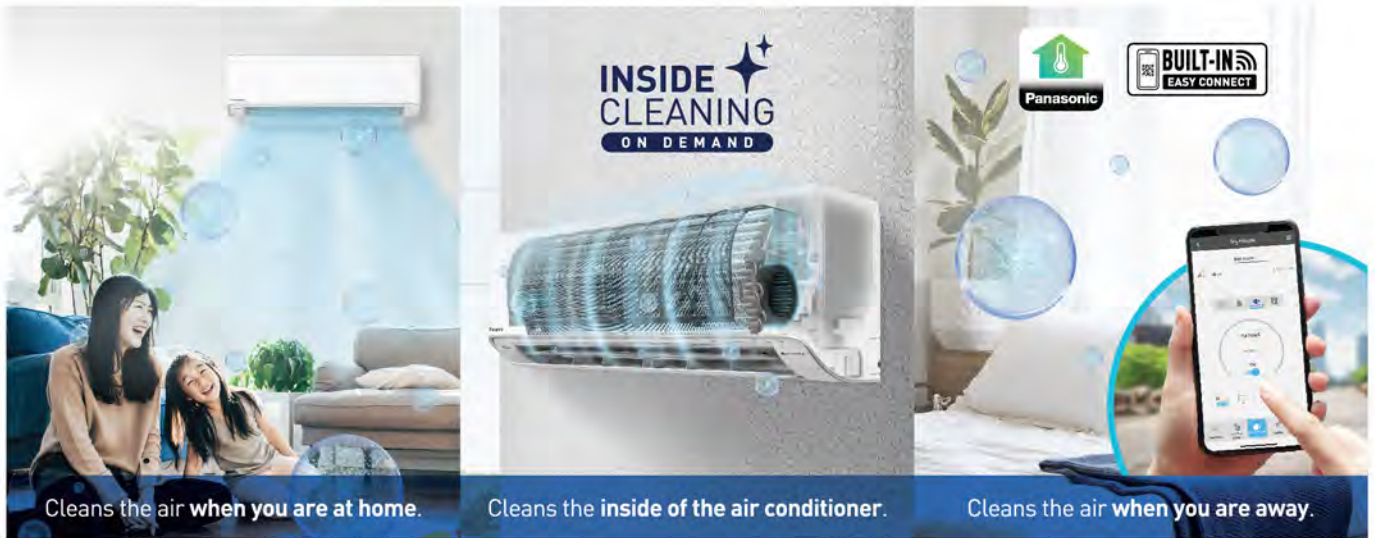
QUALITY AIR FOR LIFE



nanoe™ X Clean 'n Care function



Scan to know more



Cleans the air when you are at home.

Cleans the inside of the air conditioner.

Cleans the air when you are away.

Latest nanoe™ X technology - nanoe X Generator Mark 3 with High Efficiency

nanoe™ X technology with mark 3 generator contains 100 times more hydroxyl radicals compared to nanoe™. This helps to effectively inhibit pollutants and deodorise odours at a faster pace.

4X Faster in Virus Inhibition vs nanoe X Generator Mark 2

Required time to inhibit 99% of viruses*1

Conventional Device	nanoe™ X Generator Mark 2	8 [hour]
Latest Device	nanoe™ X Generator Mark 3	2 [hour]

4X faster

7 Effects of nanoe™ X

Inhibits 5 Types of Pollutants

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

Deodorises Odours

Moisturises Skin & Hair

nanoe™ X inhibits up to **99.99%**** of Novel Coronavirus

*1 nanoe X Generator Mark 2 - Testing Organisation: Japan Food Research Laboratories • Test Subject: Adhered bacteriophage Φx174 • Test Volume: Approx. 25 m³ laboratory (3.3x3.5x2.2m) • Test Result: Inhibited 99.8% in 8 hours • Report No: 13001265005-01. nanoe X Generator Mark 3 - Testing Organisation: Shokukanken, Inc. • Test Subject: Adhered MS2 Phage Virus • Test Volume: Approx. 25m³ laboratory • Test Result: Inhibited 99.99% in 2 hours • Test Report No: 227131N

*2 Testing organisation: TEXCELL (France) • Test subject: novel coronavirus (SARS-CoV-2) • Test volume: 45L enclosed box (400 mm x 350 mm x 350 mm) • Exposure time: 2 hours • Exposure distance: 15cm • Test report no.: 1140-01 A1

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

Inside Cleaning On Demand

Newly improved inside cleaning on demand provides the convenience to activate this function on a need basis. Inside cleaning works inside of an indoor unit by removing moisture, and releases nanoe™ X to inhibit various pollutants. Improved cross flow fan with anti-dust coating prevents dust adherence.

- Filter
- Evaporator
- Air Outlet
- Cross Flow Fan

INSIDE CLEANING ON DEMAND

By Remote Controller OR Comfort Cloud App:

Turn off the AC and press the nanoe™ X button for more than 3 seconds to activate inside cleaning.

Turn off the AC and tap the 'Inside Clean' icon in Panasonic Comfort Cloud App to activate inside cleaning.

Effectiveness of Inside Cleaning

Filter, Evaporator, Air Outlet

Proven nanoe™ X inhibition on

- Mould³
- Bacteria⁴
- Viruses⁴

Cross Flow Fan

Without coating: Adhered dust

Anti-Dust Cross Flow Fan: Maintain cleanliness

The amount of dust may change depending on the usage frequency and environment.

Notes: (1) Air filter routine maintenance is required to ensure optimal performance. (2) Illustrations of app screens may differ from the actual screen appearance.

*3 Test Organisation: Laboratory for mold prediction • Test Subject: Mould (Aspergillus penicillioides K-712) • Test Result: Mould germination and growth from spores are inhibited inside the indoor unit under the inside cleaning operation • Test Report No: 220207

*4 Testing Organisation: Protectea, Ltd • Test Subject: Bacteria (Escherichia coli NBRC3301) and Virus (Escherichia coli NBRC320012) • Test Result: 99% inhibited (compared to non-operation) • Test Report No: PR190803 (Filter & Evaporator); PR191102 (Air Outlet)

Connect & Control Your AC Anywhere, Anytime with Comfort Cloud App

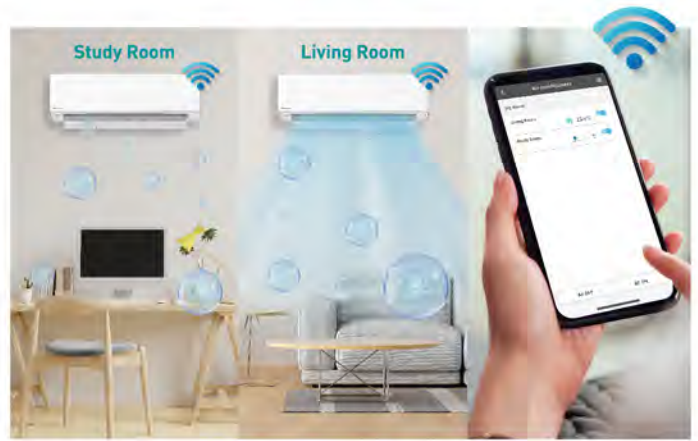
Control multiple air conditioners in one location or multiple locations when you are away from home.



Comfort Cloud App



Scan to know more



Benefits of Panasonic Comfort Cloud App

The application offers one-stop control for all your air conditioners to suit your needs and preferences.



Monitor Energy Consumption

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



Purify Your Home with nanoE™ X

Switch on nanoE™ X mode with cooling OFF/ON to enjoy a clean and fresh home with your loved ones.



nanoE™ X Simulation

See the nanoE™ X coverage in your space through a simulation.



Pre-Cool Your Space



Weekly Timer



Error Notifications



Multi-Unit Control

Secured & Easier Setup with Advanced Scan Connectivity**

The advanced built-in Wi-Fi setup enables easier and faster connection to Panasonic Comfort Cloud App by scanning the QR code.



**Complied with internal cybersecurity guidelines based on cybersecurity trends and the regulations of each country.



Notes: (1) Illustrations of app screens may differ from the actual screen appearance.

(2) The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Panasonic is under license. Other trademarks and trade names are those of their respective owners.

nanoe-G

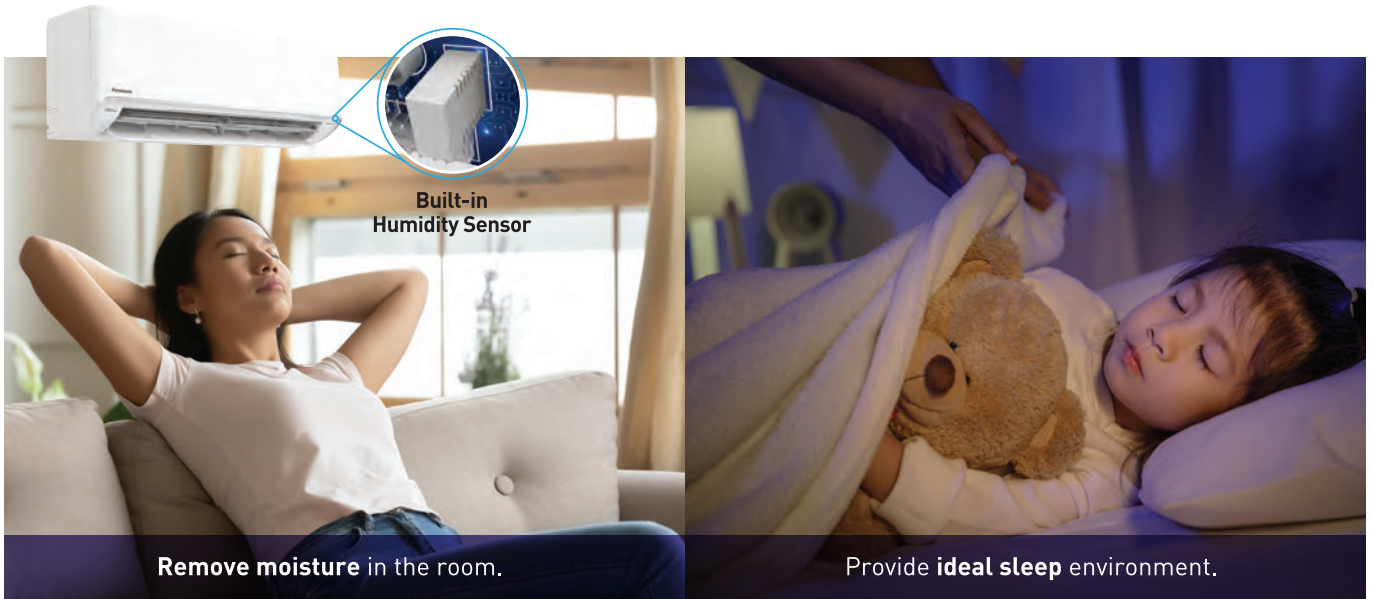
Remove Dust Particles (PM2.5)

Effective in removing 99%*1 of dust particles, 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.



*1 •Testing Organisation: FCG Research Institute, Inc. •Test Subject: Cigarette smoke [as PM2.5] •Test Volume: 23m³ •Test Result: Removed by 99% [compared to the initial concentration] •Test Report No: 25034

Humidity Control for Better Comfort



Air conditioner with Humidity Sensor allows you to control and adjust the relative humidity level to below 55% ~ 60% by turning on Dry Mode or iAUTO-X.



Humidity Control with Humidity Sensor + Dry Mode

Dry Mode operates together with built-in Humidity Sensor, helping the air conditioner to receive accurate room humidity situation data to efficiently reduce and adjust the humidity level to below 55%, removing excess moisture in the room while preventing overcooling.



Benefits of Panasonic Air Conditioner with Humidity Sensor + Dry Mode

When Do You Need It?

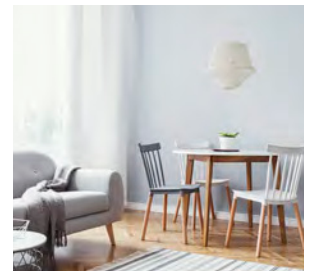
- High humidity but room temperature isn't hot
- Raining weather where there is damp smell in the room
- Living in an area with high humidity



Comfort without Overcooling
Constantly monitors and adjusts relative humidity levels to below 55%, and temperature to avoid overcooling.



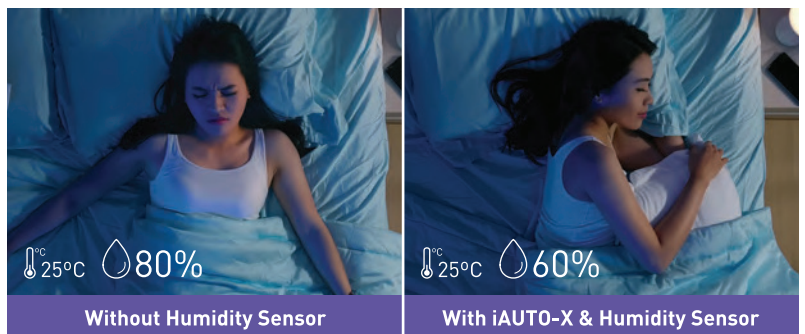
Reduces Dampness
Air stays fresh with no damp smell in the room.



Protects Household
Prevents growth of mould by removing excess moisture from the air.

Humidity Control with Humidity Sensor + iAUTO-X

Air conditioner with iAUTO-X and Humidity Sensor constantly monitors and adjusts relative humidity level to below 60% to ensure a balanced cooling sensation by reducing heat for an optimal cooling comfort.



Air conditioner with iAUTO-X and Humidity Sensor controls relative humidity to below 60% for a restful sleep through the night.

Comfort Cooling with iAUTO-X and AEROWINGS



Rapidly **cools your living spaces** for a **comfortable environment** throughout the day.

iAUTO-X Operation

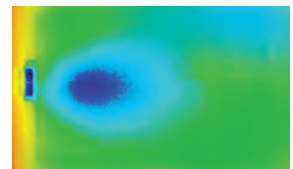
iAUTO-X provides stronger and faster cooling using Panasonic Thermal Enhancement Technology (P-TEch), enabling the compressor to achieve maximum frequency quickly from start-up.



Scan to know more



iAUTO-X



cooler ← warmer

Concentrated airflow cools instantly. Room is evenly cooled.

Uniqueness of iAUTO-X



Automatic Fan Speed

iAUTO-X automatically switches fan speed depending on the temperature difference between the room and the set temperature.



Automatic Flap Control

After reaching the set temperature, the flap moves upwards automatically to perform shower cooling, avoiding direct cooling towards occupants.



Reactivate iAUTO-X

Second press on the iAUTO-X button reactivates faster cooling when the number of people in the room increases.

*Comparison of iAUTO-X Mode & normal COOL mode by using X-PREMIUM INVERTER R32.

AEROWINGS

Further Airflow with AEROWINGS

AEROWINGS provides long distance cooling up to 15 meters, ensuring a wider area of coverage.



Stronger and longer airflow up to 15 meters.

AEROWINGS



Sub-Flap

Compresses and concentrates cool air

Outer Flap

Helps to deliver airflow further



15 Meters

Better Living with Energy-Saving and Eco-Friendly Technologies



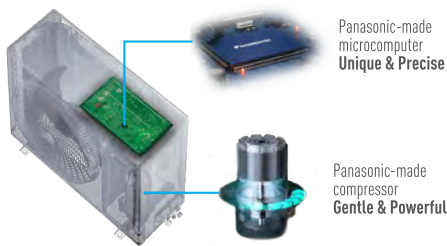
Scan to know more



Achieve **high 5-star rating** on energy efficiency for better savings.

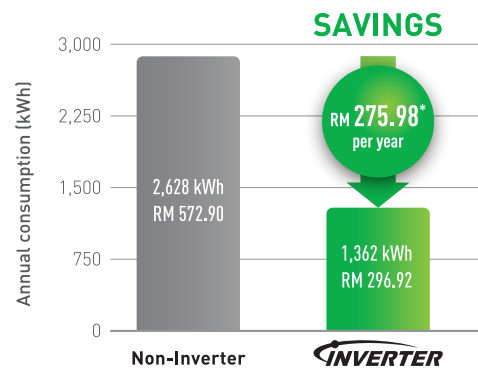
Powerful Performance with Efficiency

Panasonic Inverter technology controls the temperature precisely to provide consistent cooling comfort while saving energy.



Benefits of Panasonic **INVERTER** Technology:

- Greater energy savings
- Better comfort
- Quiet operation



*Comparison of 2.0HP STANDARD NON-INVERTER R32 and 2.0HP X-PREMIUM INVERTER R32.
 *Annual energy consumption value based on tested result.
 *Electricity bill calculated is based on [annual energy consumption value x Malaysia electricity tariff (0.218kWh/h)]
 *Savings is different depends on model selected and annual energy consumption.

High Cooling Seasonal Performance Factor (CSPF)

Panasonic air conditioners have a high Cooling Seasonal Performance Factor - **a more realistic energy efficiency measurement** based on the customer's actual environment of use over an entire year.

Panasonic X-PREMIUM INVERTER R32 consumes

51 ~ 59%

less energy than the lowest 2-star product.

Check the Energy Efficiency Label!



Intelligently Balances Energy Savings and Comfort

Every room in the house has a different temperature and it varies throughout the day. ECO mode with A.I. learns and judges the optimal ECO level to provide a good balance between cooling comfort and energy savings.

AI ECO



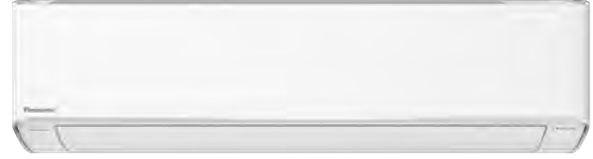
*Comparison of ECO Mode & normal mode by using 1.5HP INVERTER model.



X-PREMIUM INVERTER R32 Single-Split Type



CS-XU10ZKH-1 | CS-XU13ZKH-1



CS-XU18ZKH-1 | CS-XU24ZKH-1



Wireless
(Standard)



Wired
CZ-RD514C
(Optional)



Wireless
(Standard)



Wired
CZ-RD514C
(Optional)



MODEL	INDOOR UNIT [50Hz]		CS-XU10ZKH-1	CS-XU13ZKH-1	CS-XU18ZKH-1	CS-XU24ZKH-1
	OUTDOOR UNIT		CU-XU10ZKH-1	CU-XU13ZKH-1	CU-XU18ZKH-1	CU-XU24ZKH-1
Cooling Capacity	[min-max]	kW	2.80 [0.92-3.60]	3.66 [1.02-4.20]	5.57 [1.10-6.21]	6.60 [1.12-7.18]
	[min-max]	Btu/h	9,550 [3,140-12,300]	12,500 [3,480-14,300]	19,000 [3,750-21,200]	22,500 [3,820-24,500]
EER	[min-max]	Btu/hW	13.64 [13.96-11.28]	13.16 [13.92-12.12]	13.01 [13.89-12.47]	12.23 [12.32-11.95]
	[min-max]	W/W	4.00 [4.09-3.30]	3.85 [4.08-3.56]	3.82 [4.07-3.65]	3.59 [3.61-3.50]
CSPF		W/W	6.45	6.43	7.09	6.21
Electrical Data	Voltage	V	230	230	230	230
	Current	A	3.3	4.2	6.5	8.3
	Power Input (min-max)	W	700 [225-1,090]	950 [250-1,180]	1,460 [270-1,700]	1,840 [310-2,050]
Moisture Removal		L/h	1.6	2.1	3.0	3.7
		Pt/h	3.4	4.4	6.3	7.8
Air Circulation	Indoor	m ³ /min [ft ³ /min]	11.8 [415]	12.5 [440]	18.7 [660]	19.2 [680]
	Outdoor	m ³ /min [ft ³ /min]	27.6 [970]	30.9 [1,090]	34.9 [1,230]	34.9 [1,230]
Noise Level	Indoor (H / L / Q-Lo)	dB (A)	38/26/19	40/28/19	44/32/27	45/34/28
	Outdoor (H)	dB (A)	47	48	50	52
Dimensions Indoor (Outdoor)	Height	mm	295 [511]	295 [542]	295 [619]	295 [619]
		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]
	Width	mm	870 [650]	870 [780]	1,040 [824]	1,040 [824]
		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]
	Depth	mm	229 [230]	229 [289]	244 [299]	244 [299]
		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]
Net Weight	Indoor	kg (lb)	10 [22]	10 [22]	12 [26]	12 [26]
	Outdoor	kg (lb)	17 [37]	22 [49]	30 [66]	31 [68]
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
		inch	1/4	1/4	1/4	1/4
	Gas Side	mm	ø 9.52	ø 9.52	ø 12.70	ø 12.70
		inch	3/8	3/8	1/2	1/2
Pipe Extension	Chargeless Pipe Length	m	7.5	7.5	10.0	10.0
	Maximum Pipe Length	m	20	20	30	30
	Maximum Elevation Length	m	15	15	20	20
	Additional Refrigerant Gas*	g/m	10	10	15	15
Power Supply			Indoor	Indoor	Indoor	Indoor

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

OUTDOOR UNIT



CU-XU10ZKH-1



CU-XU13ZKH-1



CU-XU18ZKH-1
CU-XU24ZKH-1

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 May 2023.
- Due to printing considerations, actual colours may vary slightly from those shown.
- All graphics are provided solely for the purpose of illustrating a point.



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

Authorised Dealer

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