

**Panasonic**

—ETHEREA—

**New Etherea with nanoe™ X  
technology**

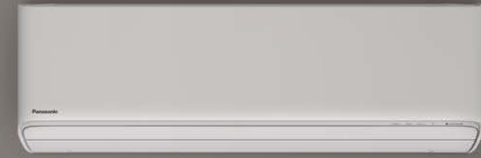
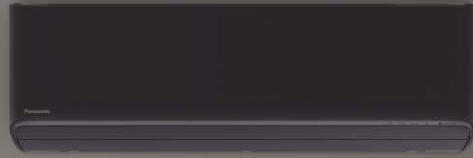
**A smart solution to keep your home  
clean, comfortable and welcoming**



**Panasonic**

**New Etherea: a very  
welcome addition to your  
home**

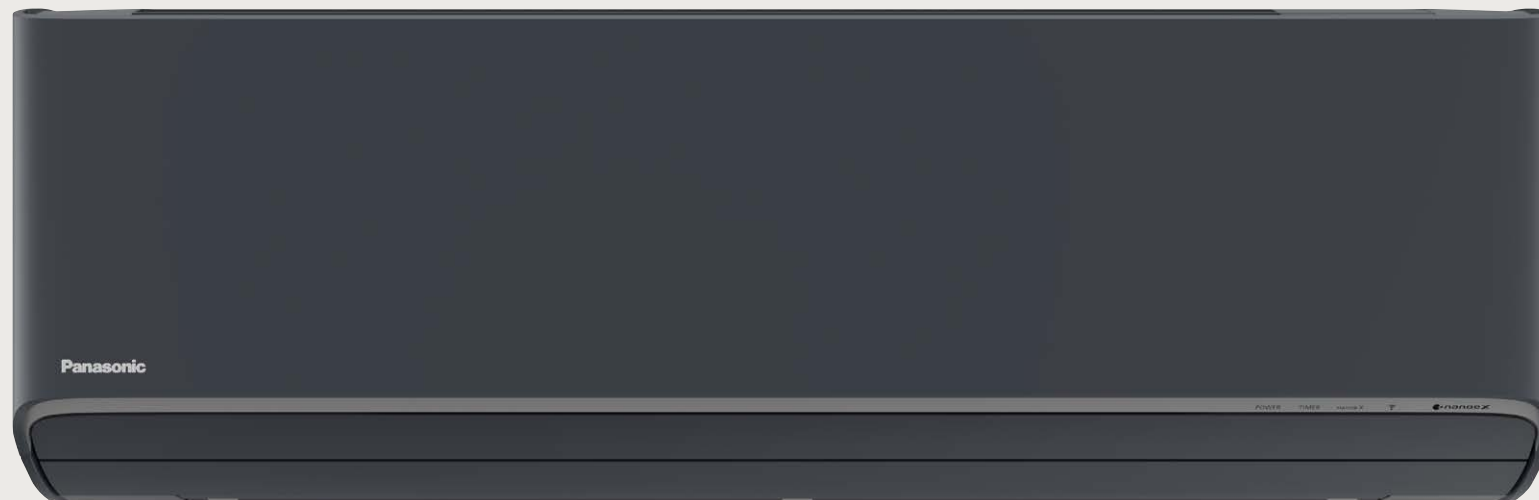
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ETHEREA

## New Etherea: a very welcome addition to your home

The smart, new Etherea now comes with nanoe™ X technology with the benefits of hydroxyl radicals. With advanced control options, class-leading performance, a stylish design and intelligent features, Etherea is designed to make your home comfortable, clean and the ideal place to be.



1

### Air Quality

- nanoe™ X technology with the benefits of hydroxyl radicals
- Acts to clean your air, so that the indoor environment can be a cleaner and pleasant place to be all day long

2

### Smart Control

- Integrated built-in Wi-Fi
- Advanced control via smartphone
- Compatible with Google Assistant and Amazon Alexa

3

### High Efficiency

- Top class energy efficiency up to A+++ in heating and cooling

4

### Ultimate comfort

- Aerowings 2.0, end-to-end vanes enhance comfortable airflow
- Super Quiet ambient

5

### New Design

- Stylish, monolithic design
- High class, easy-to-use remote control with backlight

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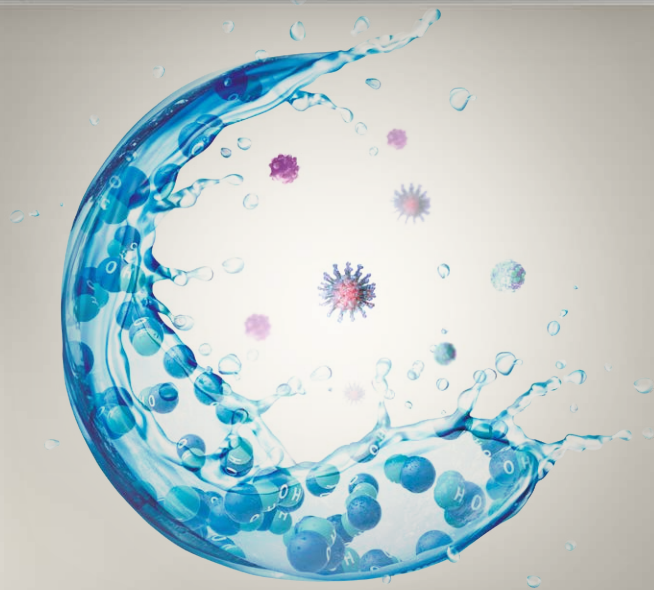


## Bringing nature's balance indoors

### nanoe™ X, technology with the benefits of hydroxyl radicals

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X, technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and pleasant place to be.

[+ FIND OUT MORE ABOUT NANOE™ X](#)



## 7 effects of nanoe™ X – Panasonic unique technology

### Deodorises



Odours



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances

### Moisturises



Skin and hair





## nanoe™ X: Improving protection 24/7

Acts to clean your air, so that the indoor environment can be a cleaner and pleasant place to be all day long. nanoe™ X works together with heating or cooling function when you are at home and can work independently when you are away. Give the air conditioning the strength to increase the protection at home with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App.

[+ FIND OUT MORE ABOUT NANOEX™ X](#)



In today's health-conscious world, we care about taking exercise, we care about what we eat and what we touch, we also care about what we breathe – and technology exists to bring the benefits of good outdoor air, indoors.



### Cleans the air when you are away

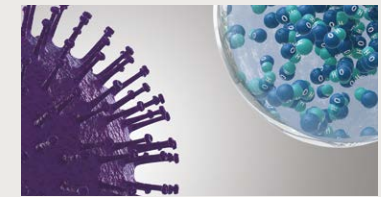
Leave the nanoe™ mode ON to inhibit certain pollutants and deodorise before you return home.

### Improves your environment when you are at home

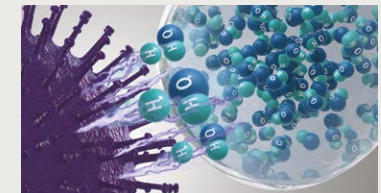
Enjoy a cleaner, comfortable space with loved ones.

Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



nanoe™ X reliably reaches pollutants.



Hydroxyl radicals denature pollutants' proteins.



Pollutants activity is inhibited.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not a medical device, local regulations on building design and sanitary recommendations must be followed.



## What is unique about nanoe™ X?

Thanks to this advanced technology, even tightly woven fabrics can be treated using this solution, meaning that curtains, blinds, carpets and furniture can all benefit from this technology to inhibit hazardous substances – including on hard surfaces and, of course, the air that we breathe.

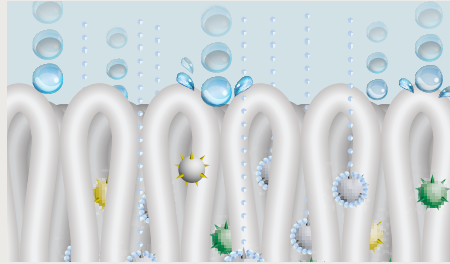


[+ FIND OUT MORE ABOUT NANOE™ X](#)

### nanoe™ X technology verified against SARS-CoV2

Virus SARS-CoV-2: 99,9 % inhibited. Test conducted by TEXCELL (France), using a gauze saturated with SARS-CoV-2 virus solution exposed to a generator of nanoe™ X in a 45L box for 2 hours. Performance of nanoe™ X might differ in real life environment.

Microscopic Scale. At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.



nanoe X Generator Mark 2 produces 9,6 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.



Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.



No maintenance, no replacement required. nanoe™ X is a filter free solution made with Titanium, that does not require maintenance. The image shows nanoe™ X Generator Mark 2.



### nanoe™ X, internationally-validated technology in testing facilities

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Malaysia and Japan.

		Tested contents	Result	Capacity	Time	Testing organisation	Report No.
AIRBORNE	Virus	Bacteriophage ΦX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
ADHERED		SARS-CoV-2	91,4 % inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	99,9 % inhibited	45 L	2 h	Texcell (France)	1140-01 A1
	Virus	Xenotropic murine leukemia virus	99,999 % inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Influenza (H1N1 subtype)	99,9 % inhibited	1 m³	2 h	Kitasato Research Center for Environmental Science	21_0084_1
		Bacteriophage ΦX174	99,80% inhibited	25 m³	8 h	Japan Food Research Laboratories	13001265005-01
	Bacteria	Staphylococcus aureus	99,9 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Ambrosia pollen	99,4 % inhibited	20 m³	8 h	Danish Technological Institute	868988
Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04	

Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

## Advanced smart control and voice assistant

Panasonic has dedicated time and resources to developing intelligent technology to improve the experience and offer a range of benefits. Etherea is compatible with Panasonic's Comfort Cloud app, which is designed to easily manage all system functions via your smart device.



## Convenient Centralised Solutions

The Panasonic Comfort Cloud Application enables you to conveniently manage and monitor multiple air conditioning units for homes from just one mobile device.

### Smart Control

- Control multiple AC units in 1 location
- Control multiple units in multiple locations

### Smart Comfort

- Remotely access all AC features
- Activate 24-hour nanoe™ X
- Pre-cool spaces

### Smart Efficiency

- Analyse energy usage patterns
- Compare usage history for better budget planning

### Smart Assist

- Effortless troubleshooting
- Assign other users while you are away



Through the Comfort Cloud app, Etherea units can also be connected to some of the leading voice assistants on the market to further optimise air conditioning standard without having to lift a finger.

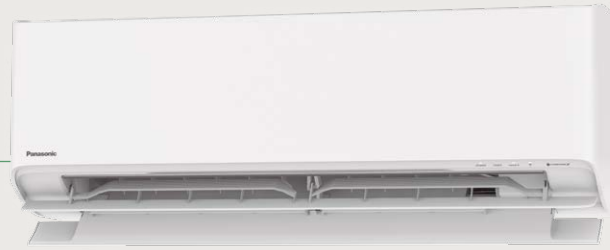
\* Google, Android, Google Play and Google Home are trademarks of Google LLC. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. Availability of Voice Assistant services varies depending on Country and Language. More information about set up procedures: <https://aircon.panasonic.com/connectivity/application.html>.

## Technology for the ultimate comfort

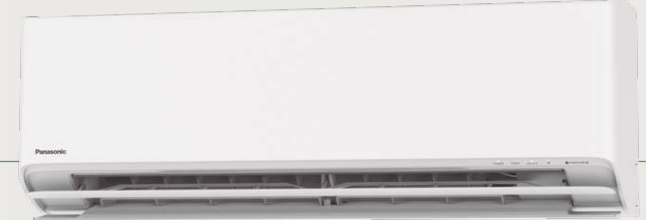
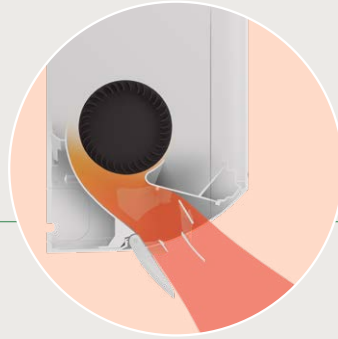
### Introducing the Aerowings 2.0 to the Ethera range

Panasonic's Aerowings technology consists of two independent flexible vanes that concentrate airflow to heat or cool a room in the shortest time possible and helps distribute air evenly throughout a room.

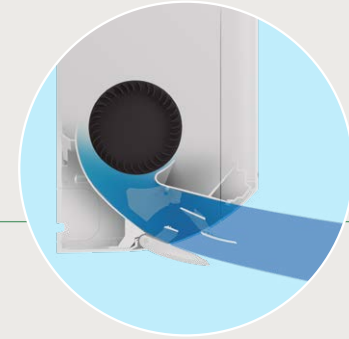
Thanks to the larger sub vane (72mm), which is more than doubled in size than other conventional designs, the ability to lift airflow has been further improved.



For heating, Aerowings 2.0 releases a concentrated airflow downwards to achieve an effect similar to floor heating the air, which rises and fills the room.



Aerowings 2.0 has a new shower cooling feature which allows air flow to be concentrated evenly towards the ceiling to achieve comfortable cooling across a room, showering gently down into a room rather than one area subject to a continuous icy blast.



### Super Quiet technology

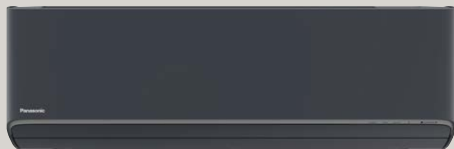
With Super Quiet technology our devices are much more quiet than a library (19dB(A)).





## Sleek design with easy-to-use remote controller

Panasonic has meticulously designed a new Etherea for a sleek and stylish solution to blend with any interior. Its elegant monolithic design is robust and allows for a high-performance air conditioner, with a large air discharge area to optimise performance.



Graphite grey



Pure White Matt



Silver Matt

### Sleek design for optimal performance:

- Spatial fit and architectural impression achieved by end-to-end vane
- Large air discharge area & vane size exudes higher performance
- Compact, narrow design fits neatly on the wall
- Simplified, clean surface presents a timeless design



The easy-to-use remote controller features an ergonomic design with tapered rear housing for the most comfortable grip. The new controller's intuitive design provides easy operation with five quick access keys for convenient use. The controller also has a minimalist design with the less frequently used keys concealed under a sliding cover.



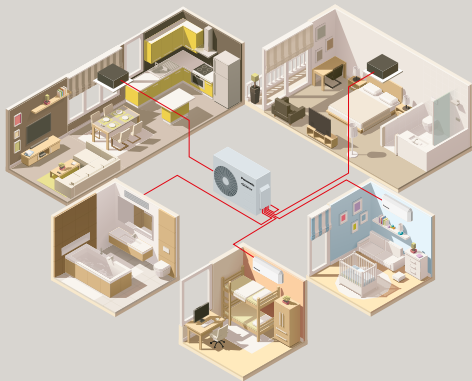
## Highly energy efficient for all your needs

Etherea provides the highest level of comfort in any setting with a low energy cost, creating a pleasant environment without high costs. The air-to-air technology allows for a highly energy efficient solution to ensure optimal heating and comfort year-round.

A+++

If air conditioning requirements exceed the scope of a single room, Panasonic offers an extensive range of possibilities with a multi split solution.

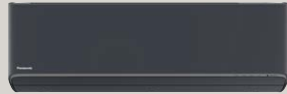
The multi split solution offers high flexibility, as 2 to 5 indoor units can be connected to a single outdoor unit. The wide range of compatible indoor units includes Etherea and TZ wall mounted units, floor console and ducted unit.



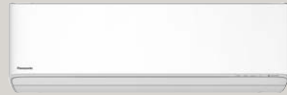
### R32 refrigerant environmental friendly.

R32, an innovative refrigerant in all ways imaginable: it is easy to install, and compared to most other refrigerants it has a much lower environmental impact and saves energy.





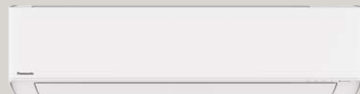
2,05kW / 2,50kW / 3,50kW



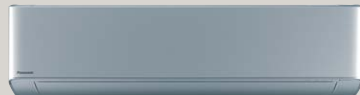
2,05kW / 2,50kW / 3,50kW / 4,20kW



2,05kW / 2,50kW / 3,50kW



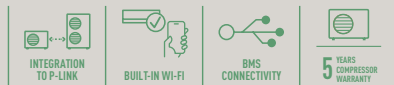
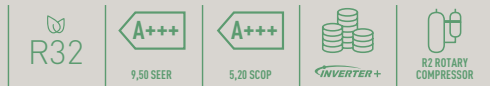
5,00kW / 7,10kW



5,00kW



Kit Graphite grey*			KIT-XZ20-XKE-H	KIT-XZ25-XKE-H	KIT-XZ35-XKE-H	—	—	—
Kit Silver			KIT-XZ20-XKE	KIT-XZ25-XKE	KIT-XZ35-XKE	—	KIT-XZ50-XKE	—
Kit Pure White Matt			KIT-Z20-XKE	KIT-Z25-XKE	KIT-Z35-XKE	KIT-Z42-XKE	KIT-Z50-XKE	KIT-Z71-XKE
Cooling capacity	Nominal (Min - Max)	kW	2,05 (0,75 - 2,65)	2,50 (0,85 - 3,50)	3,50 (0,85 - 4,20)	4,20 (0,85 - 5,00)	5,00 (0,98 - 6,00)	7,10 (0,98 - 8,50)
<b>SEER</b> <sup>2)</sup>			<b>8,10 A++</b>	<b>9,40 A+++</b>	<b>9,50 A+++</b>	<b>7,00 A++</b>	<b>8,50 A+++</b>	<b>6,50 A++</b>
Input power cooling	Nominal (Min - Max)	kW	0,45 (0,16 - 0,67)	0,51 (0,17 - 0,90)	0,85 (0,20 - 1,16)	1,24 (0,24 - 1,57)	1,36 (0,25 - 1,90)	2,24 (0,42 - 3,00)
Annual energy consumption <sup>3)</sup>		kWh/a	91	93	129	210	206	382
Heating capacity	Nominal (Min - Max)	kW	2,80 (0,75 - 4,00)	3,40 (0,80 - 4,80)	4,00 (0,80 - 5,50)	5,30 (0,80 - 6,80)	5,80 (0,98 - 8,00)	8,20 (0,98 - 10,20)
Heating capacity at -7 °C		kW	2,38	2,80	3,20	4,11	4,8	6,31
<b>SCOP</b> <sup>2)</sup>			<b>4,80 A++</b>	<b>5,20 A+++</b>	<b>5,20 A+++</b>	<b>4,20 A+</b>	<b>4,80 A++</b>	<b>4,20 A+</b>
Input power heating	Nominal (Min - Max)	kW	0,62 (0,16 - 0,94)	0,70 (0,16 - 1,18)	0,90 (0,18 - 1,46)	1,44 (0,19 - 1,86)	1,40 (0,23 - 2,39)	2,22 (0,40 - 3,10)
Annual energy consumption <sup>3)</sup>		kWh/a	613	646	754	1200	1225	1833
<b>Indoor unit Graphite grey</b>			<b>CS-XZ20XKEW-H</b>	<b>CS-XZ25XKEW-H</b>	<b>CS-XZ35XKEW-H</b>	—	—	—
<b>Indoor unit Silver</b>			<b>CS-XZ20XKEW</b>	<b>CS-XZ25XKEW</b>	<b>CS-XZ35XKEW</b>	—	<b>CS-XZ50XKEW</b>	—
<b>Indoor unit Pure White Matt</b>			<b>CS-Z20XKEW</b>	<b>CS-Z25XKEW</b>	<b>CS-Z35XKEW</b>	<b>CS-Z42XKEW</b>	<b>CS-Z50XKEW</b>	<b>CS-Z71XKEW</b>
Sound pressure <sup>4)</sup>	Cool (Hi / Lo / Q-Lo)	dB(A)	37/24/19	39/25/19	42/28/19	43/31/25	44/37/30	47/38/30
	Heat (Hi / Lo / Q-Lo)	dB(A)	38/25/19	41/27/19	43/33/19	43/35/29	44/37/30	47/38/30
Dimension	H x W x D	mm	295 x 870 x 229	295 x 870 x 229	295 x 870 x 229	295 x 870 x 229	295 x 1040 x 244	295 x 1040 x 244
Net weight		kg	10	10	11	10	12	13
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
<b>Outdoor unit</b>			<b>CU-Z20XKE</b>	<b>CU-Z25XKE</b>	<b>CU-Z35XKE</b>	<b>CU-Z42XKE</b>	<b>CU-Z50XKE</b>	<b>CU-Z71XKE</b>
Air flow	Cool / Heat	m <sup>3</sup> /min	27,4/26,7	28,7/27,2	29,8/30,6	29,8/30,9	39,8/36,9	44,7/45,8
Sound pressure <sup>4)</sup>	Cool / Heat (Hi)	dB(A)	45/46	46/47	48/50	49/51	47/47	52/54
Dimension <sup>5)</sup>	H x W x D	mm	542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	695 x 875 x 320	695 x 875 x 320
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24



### Etherea can be also integrated in KNX, Modbus and BacNet projects

Great flexibility for integration into your KNX, Modbus and BacNet projects allows fully bi-directional monitoring and control of all the functioning parameters.

Find out the right capacity for your space



1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit. \* Available in Spring 22.



## More about Panasonic Heating & Cooling Solutions

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# Panasonic

heating & cooling solutions

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