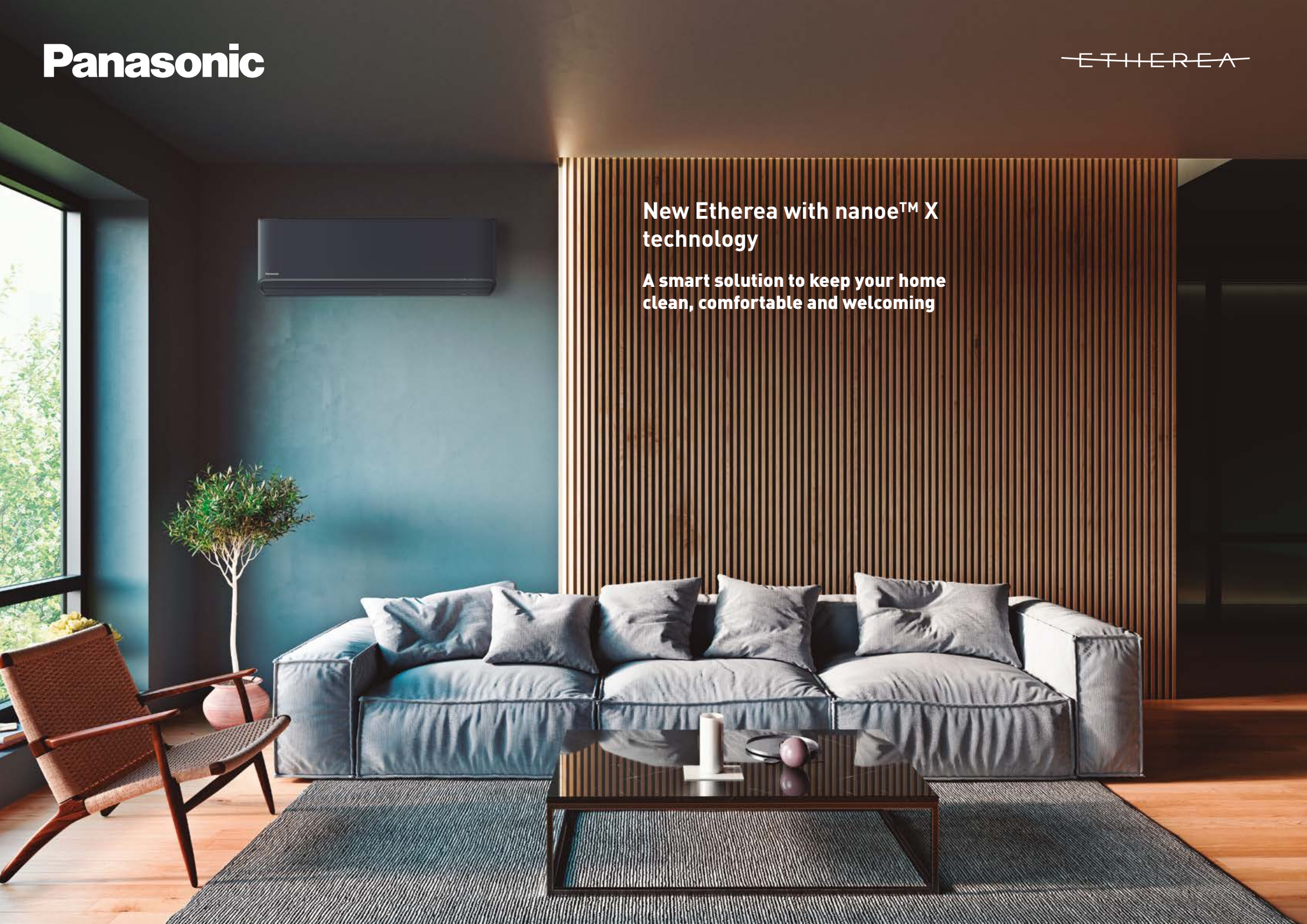
Panasonic

ETHEREA



New Etherea with nanoe™ X technology

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

Panasonic

ETHEREA



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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
- Inside cleaning and dry-off the indoor unit with nanoe™ X

2

Smart control.
- Integrated built-in Wi-Fi, with easier setup
- 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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BIBLE FOR DESIGNER
WHITE
BLACK
STYLE
VASES & CORALS

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.



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.
Cleans the inside of the indoor unit when is OFF.



7 effects of nanoe™ X – Panasonic unique technology





Inside cleaning

The inside cleaning operation acts to clean the inside of indoor unit. It uses nanoe™ X technology that can inhibit certain adhered bacteria, viruses, and mould on the filter, evaporator and air outlet up to 99%.
New cross flow fan is coated to prevent dust adhered on its surfaces and can be effective against certain bacteria and mould.



Deodorises

Odours

Capacity to inhibit 5 types of pollutants

Bacteria and viruses

Mould

Allergens

Pollen

Hazardous substances

Moisturises

Skin and hair

nanoe™ X

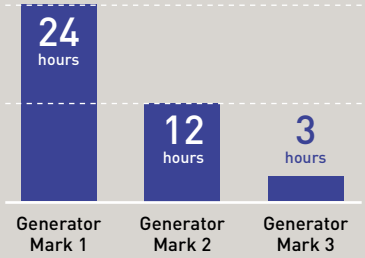
Bringing nature's balance indoors

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

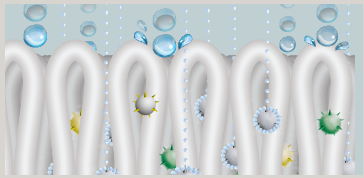
Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X, technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner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

The new Etherea comes with nanoe X Generator Mark 3, the latest of the continuously evolving nanoe™ X technology. It has the largest amount of hydroxyl radical with 100 times the hydroxyl radical contained in original nanoe™. The increased number of hydroxyl radical, means you can expect an even higher level of performance.

Comparison of time required to inhibit 99% of cedar pollen[1].



Find out more



Effective on fabrics and surfaces.



Longer lifespan.



Huge quantity.



Maintenance -free.

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.

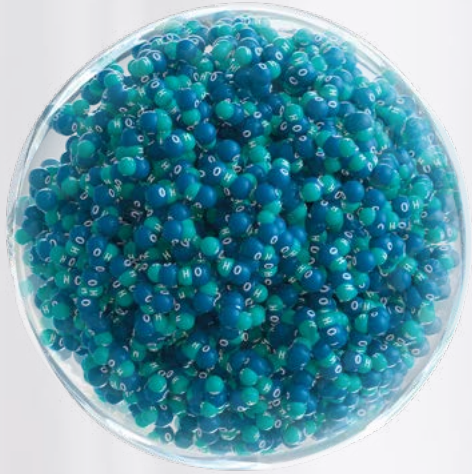
		Tested contents	Result	Capacity	Time	Testing organisation	Report No.
AIRBORNE	Virus	Bacteriophage ΦX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
ADHERED	Virus	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
		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	99,8% 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.

Panasonic heat pump with nanoe™ X technology verified against SARS-CoV-2.

Virus SARS-CoV-2: 91,4% inhibited. Test conducted by TEXCELL (France), using a gauze saturated with SARS-CoV-2 virus solution exposed to Panasonic heat pump with nanoe™ X in a space of 6,7 m³ over 8 hours. Test report: 1140-01 C3. Performance of nanoe™ X might differ in real life environment.

1) **nanoe X Generator Mark 1:** [Testing organisation] Panasonic Product Analysis Center [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m³) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 24 hours (4AA33-151001-F01). **nanoe X Generator Mark 2:** [Testing organisation] Panasonic Product Analysis Center, [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m³) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 12 hours confirmed (L19YA009). **nanoe X Generator Mark 3:** [Testing organisation] Panasonic Product Analysis Center [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m³) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 3 hours (H21YA017-1).



Hydroxyl radicals contained in water

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 medical device, local regulations on building design and sanitary recommendations must be followed.

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 Comfort Cloud app, which is designed to easily manage all system functions via your smart device.

1

Internet control.
Control and monitor your air conditioners anytime, anywhere.

2

Monitor energy consumption.
Check the energy consumption of each individual unit across different time intervals by comparing the energy usage patterns to maximise energy savings.

3

nanoe™ X: improving protection 24/7*.
Switch on nanoe™ X mode with cooling OFF / ON and see the nanoe™ X coverage in your space through a simulation.

* Only for units compatible with nanoe™ X function.



Panasonic

App Store

Google Play

Find out more about Comfort Cloud

Pre-heat or cool spaces

Weekly timer

Error notifications

Multi-unit control

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



Through the Panasonic 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.

works with Hey Google

works with alexa

* 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.

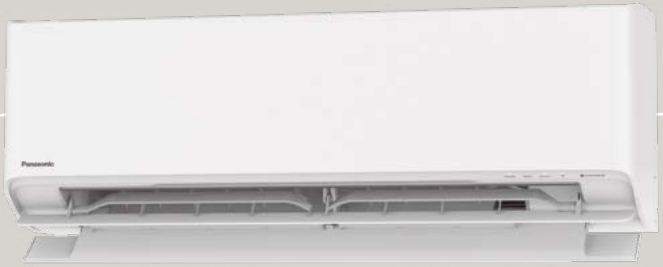




Technology for the ultimate comfort

Introducing the Aerowings 2.0 to the Etherea 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 (72 mm), 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.

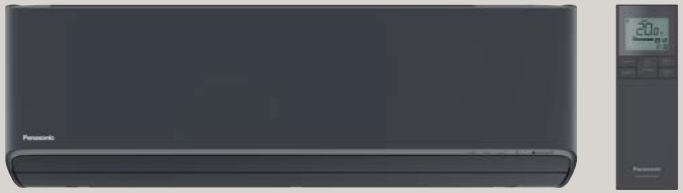
With Super Quiet technology our devices are much more quiet than a library (19dB(A)).



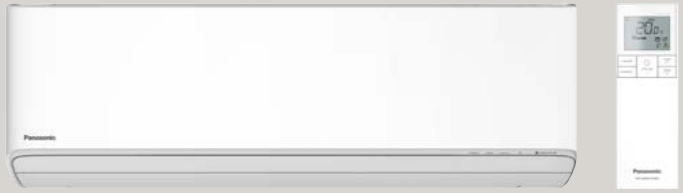


Sleek design with easy-to-use remote controller

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



White matt



Silver

Sleek design for optimal performance:

- Spatial fit and architectural impression achieved by end-to-end vane
- Large air discharge areaand 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.






Panasonic

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+++



R32
NEW REFRIGERANT GAS

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.
The result? Greater wellbeing for people and for the planet.

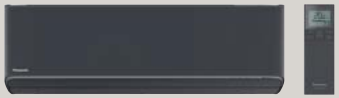
If air conditioning requirements exceed the scope of a single room, Panasonic offers an extensive range of possibilities with a multi split solution.

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, 4 way 60x60 cassette and low static pressure hide-away.

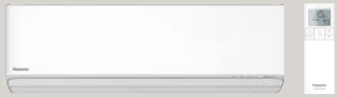








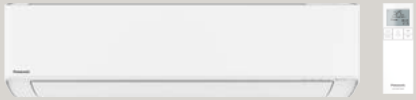
2,05 kW / 2,50 kW / 3,50 kW / 4,20 kW



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



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



5,00 kW / 7,10 kW



5,00 kW





Kit Graphite grey*			KIT-XZ20-ZKE-H	KIT-XZ25-ZKE-H	KIT-XZ35-ZKE-H	KIT-XZ42-ZKE-H	—	—
Kit Silver			KIT-XZ20-ZKE	KIT-XZ25-ZKE	KIT-XZ35-ZKE	—	KIT-XZ50-ZKE	—
Kit White matt			KIT-Z20-ZKE	KIT-Z25-ZKE	KIT-Z35-ZKE	KIT-Z42-ZKE	KIT-Z50-ZKE	KIT-Z71-ZKE
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)
SEER [1]			**8,70 A+++**	**9,50 A+++**	**9,50 A+++**	**7,10 A++**	**8,50 A+++**	**6,50 A++**
Input power cooling	Nominal (Min - Max)	kW	0,44 (0,16 - 0,66)	0,51 (0,17 - 0,90)	0,82 (0,20 - 1,16)	1,24 (0,24 - 1,57)	1,36 (0,25 - 1,90)	2,19 (0,42 - 3,00)
Annual energy consumption [2]		kWh/a	84	92	129	207	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	2,8	3,2	4,11	4,8	6,31
SCOP [1]			**4,80 A++**	**5,20 A+++**	**5,20 A+++**	**4,30 A+**	**4,80 A++**	**4,20 A+**
Input power heating	Nominal (Min - Max)	kW	0,60 (0,16 - 0,94)	0,70 (0,16 - 1,18)	0,88 (0,18 - 1,46)	1,42 (0,19 - 1,86)	1,40 (0,23 - 2,39)	2,22 (0,40 - 3,08)
Annual energy consumption [2]		kWh/a	700	700	781	1172	1225	1833
Indoor unit Graphite grey			**CS-XZ20ZKEW-H**	**CS-XZ25ZKEW-H**	**CS-XZ35ZKEW-H**	**CS-Z42ZKEW-H**	**—**	**—**
Indoor unit Silver			**CS-XZ20ZKEW**	**CS-XZ25ZKEW**	**CS-XZ35ZKEW**	**—**	**CS-XZ50ZKEW**	**—**
Indoor unit White matt			**CS-Z20ZKEW**	**CS-Z25ZKEW**	**CS-Z35ZKEW**	**CS-Z42ZKEW**	**CS-Z50ZKEW**	**CS-Z71ZKEW**
Sound pressure [3]	Cool (Hi / Lo / Q-Lo)	dB(A)	35 / 24 / 19	39 / 25 / 19	42 / 28 / 19	43 / 31 / 25	44 / 37 / 30	47 / 38 / 30
	Heat (Hi / Lo / Q-Lo)	dB(A)	36 / 25 / 19	39 / 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 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Outdoor unit			**CU-Z20ZKE**	**CU-Z25ZKE**	**CU-Z35ZKE**	**CU-Z42ZKE**	**CU-Z50ZKE**	**CU-Z71ZKE**
Air flow	Cool / Heat	m³/min	26,5 / 25,7	28,7 / 26,5	29,8 / 29,8	29,8 / 30,9	39,8 / 36,9	44,7 / 45,8
Sound pressure [3]	Cool / Heat (Hi)	dB(A)	45 / 46	46 / 47	48 / 50	49 / 51	47 / 47	52 / 54
Dimension [4]	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	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +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.

Try the new Panasonic Augmented Reality projector



Find out the right capacity for your space



1) Energy Label Scale from A+++ to D. 2) The annual energy consumption is calculated in accordance to EU/626/2011. 3) The sound pressure of the indoor unit shows the value measured of a position of 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. 4) Add 70 mm for piping port.

Panasonic

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Panasonic Marketing Europe GmbH
Panasonic Heating & Ventilation Air-conditioning Europe
Hagenauer Strasse 43, 65203 Wiesbaden, Germany

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