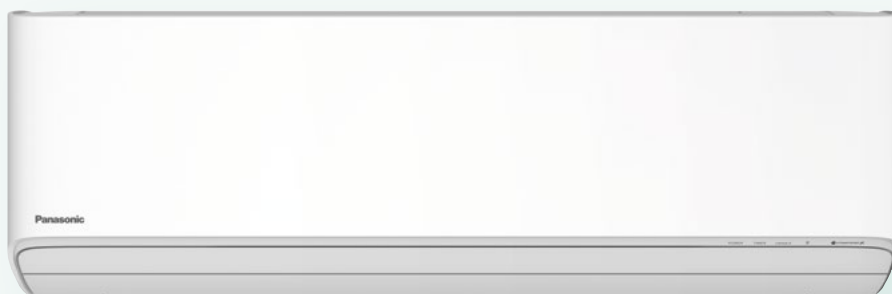# ETHEREA

Bringing nature's balance indoors

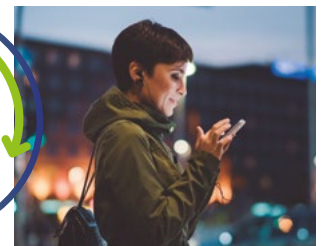**nanoe™ X, technology with the benefits of hydroxyl radicals.**

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 more pleasant place to be.

nanoe™ X, improving protection 24/7

Actively cleans your air and inhibits certain types of pollutants 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.

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.

Deodorises	Capacity to inhibit 5 types of pollutants					Moisturises
Odours	Bacteria and viruses	Mould	Allergens	Pollen	Hazardous substances	Skin and hair

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.

REFER TO PAGE 10 FOR MORE DETAILS AND VALIDATION DATA

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment

Split and multi split. Built-in nanoe X Generator Mark 2.

Wall-mounted Etherea XZ-H.
CS-XZ**XKEW-H. 3 capacities: 2,0 - 3,5 kW.

Wall-mounted Etherea XZ.
CS-XZ**XKEW. 4 capacities: 2,0 - 5,0 kW.

Wall-mounted Etherea Z.
CS-(M)Z**XKEW. 7 capacities: 1,6 - 7,1 kW.

Floor console. Built-in nanoe X Generator Mark 1.

Floor console.
CS-Z**UFEAW.
3 capacities:
2,5 - 5,0 kW.

Welcome to the connected world of Panasonic Comfort Cloud App

Whether you are at home, at the office or running a business, Panasonic Comfort Cloud put total control of your indoor air quality at your fingertips.

1 Smart control

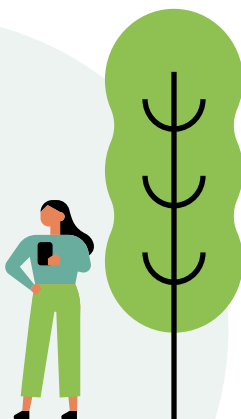**In control of cooling comfort anytime, anywhere.**
· Control multiple units in 1 group (up to 20 units per group and up to 10 different groups)
· Control multiple units in multiple locations

The smartest way to bring convenience to your living space (living room, bedroom, study room...).

and business (spa, schools, restaurants...).

2 Smart comfort

Easily manage your comfort and air quality.
· Remotely access all AC features
· Activate 24-hour nanoe™ X [1]
· Pre-heat or cool spaces

3 Smart efficiency

More comfort with less wasted energy.
· Analyze energy usage patterns [2]
· Compare usage history for better budget planning
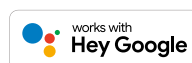
4 Smart assist

Be informed of breakdowns.
· Assign other users while you are away
· Effortless troubleshooting [3]

1) nanoe™ X is available in certain series. 2) Estimated energy consumption data accuracy depends on power supply quantity. 3) Contact trained technicians to perform any repairing / service.

Voice Control. Words do more than actions

Control without boundaries and get hands-free help to fully access the features of your air conditioners. Maximising your cooling comfort is now a breeze with our Network-Enabled Air Conditioners with Panasonic Comfort Cloud App and Voice Control.

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. Google Home and Alexa are compatible with the models shown in pages 62 , 63.

Etherea: Welcome to your new home

ETHEREA

The Etherea with nanoe™ X technology improves protection 24/7. With a new sleek design, an outstanding efficiency A+++, advanced smart control that allows to connect with voice assistant, Aerowings 2.0 for the ultimate comfort and designed to allow for simple installation and easy maintenance.

Available in 3 colors.

Graphite grey

NEW COLOR

Silver

Matt white

1 nanoe™ X technology to improve protection 24/7

This advanced technology utilises hydroxyl radicals (also known as OH radicals), which inhibit the growth of certain pollutants such as allergens, bacteria, viruses, moulds, odours, and certain hazardous substances. This naturally occurring process has major benefits indoors and improves the protection inside a room 24/7.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect (see page 10 for more detail). nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

nanoeX

2 Sleek design with easy-to-use remote controller

Panasonic has meticulously designed a new chassis for the Etherea indoor unit 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 optimal performance. The new controller intuitive design provides easy operation with five quick access keys for convenient use.

3 Advanced smart control and voice assistant

The Etherea is compatible with Panasonic Comfort Cloud App, which is designed to manage all functions of the systems with a smart device. Control, monitor, and schedule with easy interface.
Through the Panasonic Comfort Cloud App, Etherea units can also be connected to Google Assistant and Amazon Alexa*.

* Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates Google, Android, Google Play and Google Home are trademarks of Google LLC.

4 The ultimate comfort with high energy savings

Etherea produces the highest level of comfort thanks to Aerowings 2.0, creating a pleasant environment in any setting, with a low energy cost.

Wall-mounted Etherea Inverter+ · R32

· nanoe™ X technology to improve protection 24/7
· New sleek and stylish design, in Matt white, Silver and Graphite grey color
· Improved SEER / SCOP to achieve top class energy efficiency
· Aerowings 2.0 for the ultimate comfort
· New easy-to-use remote controller
· Built-in Wi-Fi for instant connectivity via Panasonic Comfort Cloud App
· Compatible with Google Assistant and Amazon Alexa
· Chassis and parts designed for easier installation

New 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 Matt white			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)
EER [1]	Nominal (Min - Max)	W/W	4,56 (4,69 - 3,96)	4,90 (5,00 - 3,89)	4,12 (4,25 - 3,62)	3,39 (3,62 - 3,18)	3,68 (3,92 - 3,16)	3,17 (2,33 - 2,83)
SEER [2]			8,10 A++	9,40 A+++	9,50 A+++	7,00 A++	8,50 A+++	6,50 A++
Pdesign (cooling)		kW	2,1	2,5	3,5	4,2	5,0	7,1
Input power	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 [3]		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	4,80	6,31
COP [1]	Nominal (Min - Max)	W/W	4,52 (4,69 - 4,26)	4,86 (5,00 - 4,07)	4,44 (4,44 - 3,77)	3,68 (4,21 - 3,66)	4,14 (4,26 - 3,35)	3,69 (2,45 - 3,29)
SCOP [2]			4,80 A++	5,20 A+++	5,20 A+++	4,20 A+	4,80 A++	4,20 A+
Pdesign at -10 °C		kW	2,1	2,4	2,8	3,6	4,2	5,5
Input power	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 [3]		kWh/a	613	646	754	1200	1225	1833
Indoor unit Graphite grey			CS-XZ20XKEW-H	CS-XZ25XKEW-H	CS-XZ35XKEW-H	—	—	—
Indoor unit Silver			CS-XZ20XKEW	CS-XZ25XKEW	CS-XZ35XKEW	—	CS-XZ50XKEW	—
Indoor unit Matt white			CS-Z20XKEW	CS-Z25XKEW	CS-Z35XKEW	CS-Z42XKEW	CS-Z50XKEW	CS-Z71XKEW
Power supply		V	230	230	230	230	230	230
Recommended fuse		A	16	16	16	16	16	20
Connection indoor / outdoor		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5
Air flow	Cool / Heat	m³/min	11,7/13,0	12,7/14,1	12,7/14,7	14,4/15,4	17,4/19,1	19,0/19,9
Moisture removal volume		L/h	1,3	1,5	2,0	2,4	2,8	4,1
Sound pressure [4]	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	14
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			CU-Z20XKE	CU-Z25XKE	CU-Z35XKE	CU-Z42XKE	CU-Z50XKE	CU-Z71XKE
Air flow	Cool / Heat	m³/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 [4]	Cool / Heat (Hi)	dB(A)	45/46	46/47	48/50	49/51	47/47	52/54
Dimension [5]	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
Net weight		kg	25	27	30	30	40	50
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 30	3 ~ 30
Elevation difference (in / out)		m	15	15	15	15	15	20
Pipe length for additional gas		m	7,5	7,5	7,5	7,5	7,5	10
Additional gas amount		g/m	10	10	10	10	15	25
Refrigerant (R32) / CO₂ Eq.		kg / T	0,67/0,45	0,80/0,54	0,89/0,60	0,95/0,64	1,13/0,76	1,35/0,91
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
						—	—	—

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 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. 5) Add 70 mm for piping port. * Available in Spring 22.

R32 · 9,50 SEER A+++ · 5,20 SCOP A+++ · INVERTER+ · R2 ROTARY COMPRESSOR · nanoe X · 19 dB(A) · HUMIDITY CONTROL MILD DRY · AEROWINGS · R22/R410A R22/R410A RENEWAL R32 · INTEGRATION TO P-LINK · BUILT-IN WI-FI · BMS CONNECTIVITY

SEER and SCOP: For KIT-**35-XKE. SUPER QUIET: For KIT-**20-XKE, KIT-**25-XKE, KIT-**35-XKE. INTERNET CONTROL: Built-in Wi-Fi.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.