# Etherea with nanoe™ X technology

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

ETHEREA

Available in 3 colors
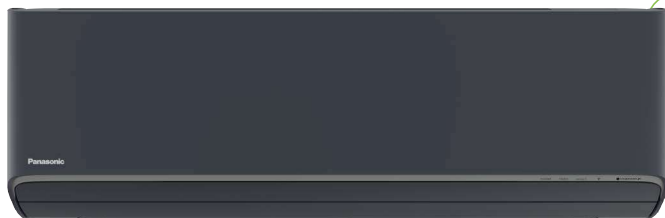
+ **nanoeX**
Built-in
nanoe X Generator **Mark 3**

BUILT-IN WI-FI

+ SEE PRODUCT SPECIFICATIONS

1 Air quality
· nanoe™ X technology with the benefits of hydroxyl radicals (Generator Mark 3)
· Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long
· Cleaning and drying the indoor unit with nanoe™ X

2 Smart control
· Built-in Wi-Fi, now with easier and faster set-up
· Advanced smartphone control
· 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 air flow
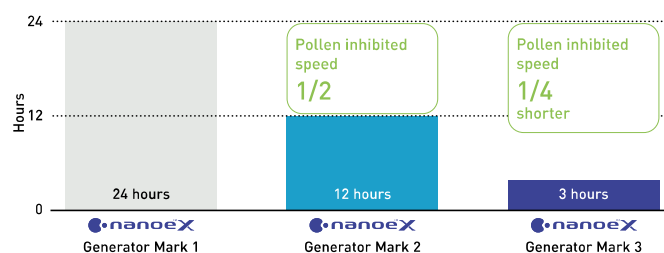· Super Quiet ambient

5 Design
· Stylish, monolithic design available in graphite grey, silver and matt white
· Chassis and parts designed for easier installation and servicing
· High class, easy-to-use remote control with backlight

nanoe™ X: Bringing nature's balance indoors

Etherea comes with nanoe X Generator Mark 3, the latest of the continuously evolving nanoe™ X technology. It has the largest amount of hydroxyl radicals in the history of nanoe™ – 48 trillion hydroxyl radicals per second, 100 times more than the traditional nanoe™. The increased number of hydroxyl radicals, which are the key to nanoe™ power, results in a higher level of performance.

Comparison of time required to inhibit 99% of cedar pollen.

Pollen inhibited speed 1/2

Pollen inhibited speed 1/4 shorter

24 hours — nanoeX Generator Mark 1
12 hours — nanoeX Generator Mark 2
3 hours — nanoeX Generator Mark 3

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 air flow 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 air flow has been further improved.

Aerowings 2.0 has a 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.

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

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 and filter up to 99%. Cross flow fan is coated to prevent dust adhered on its surfaces and can be effective against certain bacteria and mould.
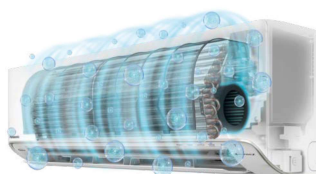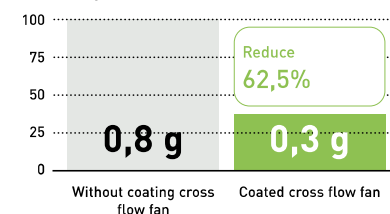

Without coating: Adhered dust.

With anti-static coating: Maintain cleanliness.

Proven prevents dust adhered 62,5%* compare with non-coating.

Reduce 62,5%

0,8 g — Without coating cross flow fan
0,3 g — Coated cross flow fan

The amount of dust or mould may change depending on the usage frequency and environment.
* Based on Panasonic internal testing result.

Wall-mounted indoor units, designed for simple installation and maintenance

The full range of wall-mounted indoor units has been carefully designed for simple, stress-free installation and ongoing maintenance.

* Not applicable to VZ.

Feature available in Etherea, TZ and BZ

1 Simple installation

Thanks to advanced improvements, installation time has been dramatically decreased. The models have been designed to provide more stability and strength for neat installation, with newly built-in support and convenient access to the drain hose, cabling inserts and larger space for secure installation.

2 Easy maintenance

Meticulously designed for both installer and user benefit, the unit features an easy to remove front grille for convenient access to the interior.
The inner workings of the unit have also been redesigned to make maintenance quicker and easier. Electronics and wiring components are now on just one side of the unit to simplify maintenance.

---

1. Stronger installation plate.
The models feature a stronger, solid installation plate that provides more stability and strength. For uneven surfaces, there are 2 additional screws to ensure a neat and secure installation .

Installation plate: Strong and solid.

Additional screw hole

Screw holder for uneven surface (screws not provided).

2. One-piece front grille.
The model comes with a one-piece front grille design to make servicing easier. First, open the intake grille and remove the screws. Next, slide the three slider locks and remove the front grille.
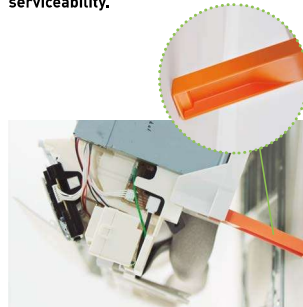
One-piece front grille: Easy removal.

Slider locks: Easy to unlock / lock.

3. Built-in support holder.
The model features a built-in support holder, making installation easier and providing convenience and workspace improvements.

Convenient installation and serviceability.

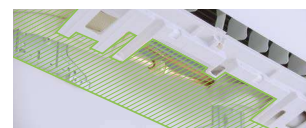**4. Easy access to drain hose and piping connection.**
With larger piping space, pipes and insulations are securely and neatly hidden.
With the visible piping storage, pipes can easily be inspected for leaks without lifting the unit.

Piping storage: up to 15% larger (for TZ-ZKE).

Bigger working space.

---

5. Easy wire insertion and tightening.
The models have combined 2 wire inserts into 1, ensuring front visibility and convenience while inserting wires from the back.

Single tunnel: easy wire insert.

Bigger working space for wiring connection.

6. Easy removal of PCB.
PCB removal is achieved in just 4 easy steps. Simply remove the control board cover, disconnect all connectors from the indicator, disconnect all connectors and pull out the main PCB.

Simple steps for PCB removal.
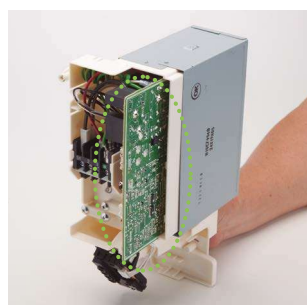
7. Easy / hidden installation of the Wi-Fi adapter.
The latest model features a dedicated space for a network adapter. Easy to plug in, the guided wire slots allow for clear, easy installation and can be neatly tucked away - simple and out of sight!

* Only for models without built-in network adapter.

8. Cross flow fan removal.
The models are carefully designed to make removal of cross flow fans easier compared to the previous models, saving valuable time.

Bigger diameter: up to Ø105 (for Z-ZKE).

Wall-mounted Etherea · R32

· nanoe™ X technology to improve protection 24/7
· Stylish, monolithic design available in graphite grey, silver and matt white
· Improved SEER / SCOP for top class energy efficiency
· Aerowings 2.0 for the ultimate comfort
· Easy-to-use remote controller
· Built-in Wi-Fi for smart control via Panasonic Comfort Cloud App
· Compatible with Google Assistant and Amazon Alexa
· Chassis and parts designed for easier installation

Built-in

nanoe X

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 matt white			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)
EER [1]	Nominal (Min - Max)	W/W	4,66 (4,69 - 4,02)	4,90 (5,00 - 3,89)	4,27 (4,25 - 3,62)	3,39 (3,62 - 3,18)	3,68 (3,92 - 3,16)	3,24 (2,33 - 2,83)
SEER [2]			8,70 A+++	9,50 A+++	9,50 A+++	7,10 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	0,44 (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 [3]		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
COP [1]	Nominal (Min - Max)	W/W	4,67 (4,69 - 4,26)	4,86 (5,00 - 4,07)	4,55 (4,44 - 3,77)	3,73 (4,21 - 3,66)	4,14 (4,26 - 3,35)	3,73 (2,45 - 3,31)
SCOP [2]			4,80 A++	5,20 A+++	5,20 A+++	4,30 A+	4,80 A++	4,20 A+
Pdesign at -10 °C		kW	2,4	2,6	2,9	3,6	4,2	5,5
Input power	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)	2,20 (0,40 - 3,08)
Annual energy consumption [3]		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 matt white			CS-Z20ZKEW	CS-Z25ZKEW	CS-Z35ZKEW	CS-Z42ZKEW	CS-Z50ZKEW	CS-Z71ZKEW
Power supply		V	230	230	230	230	230	230
Recommended fuse		A	16	16	16	16	16	20
Connection indoor / outdoor		mm²	4x1,5	4x1,5	4x1,5	4x1,5	4x2,5	4x2,5
Air flow	Cool / Heat	m³/min	10,4 / 11,9	12,4 / 13,0	12,7 / 14,4	14,5 / 15,4	17,4 / 19,1	19,0 / 19,9
Moisture removal volume		L/h	1,3	1,5	2	2,4	2,8	4,1
Sound pressure [4]	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 [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	27	27	31	31	40	45
Piping diameter	Liquid	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	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
Pre-charged pipe length		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) / CO_2 Eq.		kg / T	0,70 / 0,47	0,70 / 0,47	0,81 / 0,55	0,83 / 0,56	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	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 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.

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into S-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

R32 REFRIGERANT · A+++ 9,50 SEER · A+++ 5,20 SCOP · INVERTER+ · R2 ROTARY COMPRESSOR · nanoeX · 19 dB(A) · INSIDE CLEANING ON DEMAND · HUMIDITY CONTROL MILD DRY · AEROWINGS · R22 R410A / R32 · R22 / R410A RENEWAL · INTEGRATION TO S-LINK · BUILT-IN WI-FI · BMS CONNECTIVITY

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