# 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 | Silver | Matt white |

NEW COLOR

## 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.

nanoe X

## 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*.

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## 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

**· nanoe X**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **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) |
| UK cooling | Total - Sensible | kW | TBC | TBC | TBC | TBC | TBC | TBC |
| 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) |
| UK heating | Total | kW | TBC | TBC | TBC | TBC | TBC | TBC |
| 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 |
| Fuse size | Recommended / Max | A | 10 / 16 | 10 / 16 | 10 / 16 | 13 / 16 | 16 / 16 | 20 / 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/sec | 0.20 / 0.22 | 0.21 / 0.24 | 0.21 / 0.25 | 0.24 / 0.26 | 0.29 / 0.32 | 0.32 / 0.33 |
| 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 |
| Sound power | | dB(A) | TBC | TBC | TBC | TBC | TBC | TBC |
| 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/sec | 0.46 / 0.45 | 0.48 / 0.45 | 0.50 / 0.51 | 0.50 / 0.52 | 0.66 / 0.62 | 0.75 / 0.76 |
| 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) / $CO_2$ 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.

**Accessories**

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|---|---|
| **CZ-CAPRA1** | RAC interface adapter for integration into P-Link |
| **PAW-SMSCONTROL** | Control by SMS (need additional SIM card) |

**Accessories**

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

R32 | A+++ 9.50 SEER | A+++ 5.20 SCOP | INVERTER+ | R2 ROTARY COMPRESSOR | · nanoeX | 19 dB(A) | HUMIDITY CONTROL MILD DRY | AEROWINGS | R22 / R410A · R32 R22 / R410A RENEWAL | 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.panasonic.co.uk/aircon or www.ptc.panasonic.com.