Panasonic

Etherea with nanoe™ X technology

1. Air quality

· nanoe™ X technology with the benefits of hydroxyl radicals (Generator Mark 3)
· Cleaning and drying the indoor unit with nanoe™

2. Smart control

· Built-in Wi-Fi with easier and faster set-up
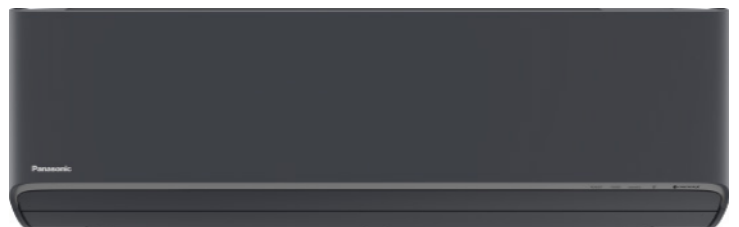· Compatible with Google Assistant and Amazon Alexa

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. Stylish and monolithic design

ETHEREA

R32   nanoe X   A+++

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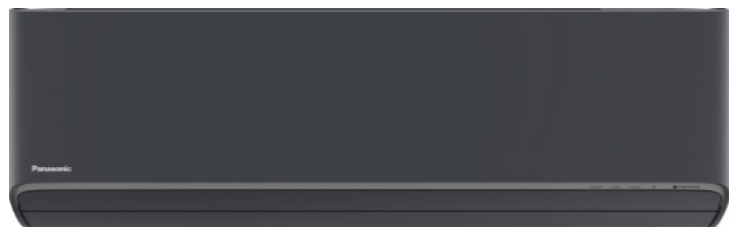· Compatible with Google Assistant and Amazon Alexa

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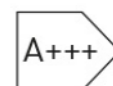
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Etherea: a very welcome addition to your home

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.

Available in 3 colors
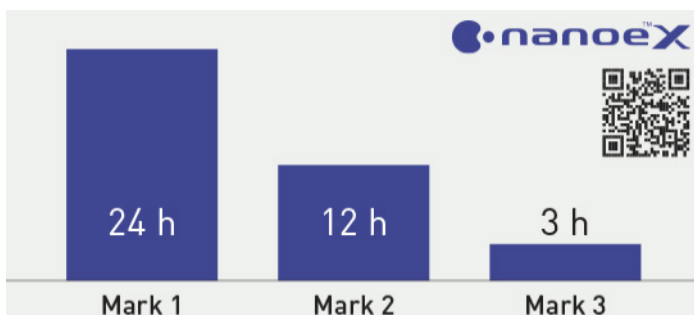## Built-in new nanoe X Generator Mark 3
Built-in Wi-Fi

Bringing nature's balance indoors

nanoe™ X, technology with the benefits of hydroxyl radicals

Abundant in nature, hydroxyl radicals have the capacity to inhibit pollutants. 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.
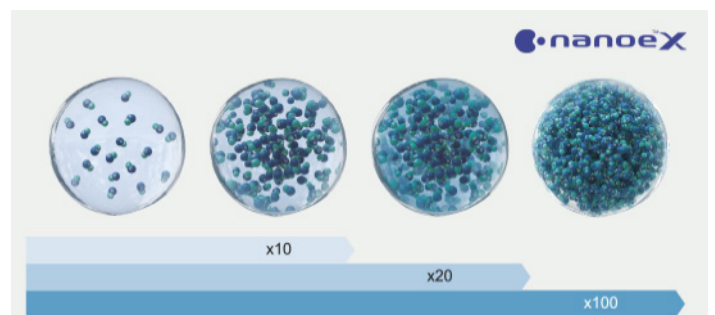
7 effects of nanoe™ X – Panasonic unique technology

1. Capacity to inhibit 5 types of pollutants: Bacteria and viruses - Mould - Allergens - Pollen - Hazardous substances
2. Deodorises: Odours
3. Moisturises: Skin and hair

Comparison of time required to inhibit 99% of cedar pollen

The result of nanoe X Generator Mark 3.
Inhibits pollen in 1/4 the time of nanoe X Generator Mark 2*.

* Effect after 3 hours in a test space of approx. 24m³. The figures are not the results of testing in an actual operating space.

The evolution of nanoe™

The decisive factor for the cleaning effects is hydroxyl radical amount, which contained in nanoe™ X particles.

1. nanoe™ (original). 480 billion
2. nanoe X Generator Mark 1. 4,8 trillion
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Etherea with nanoe™ X technology

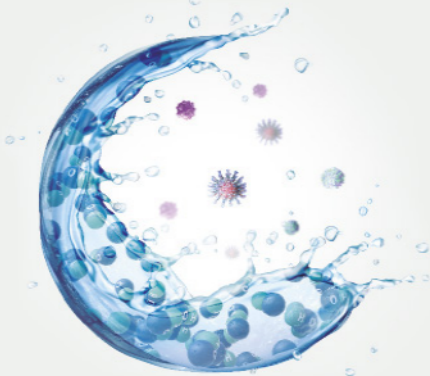## Etherea: a very welcome addition to your home

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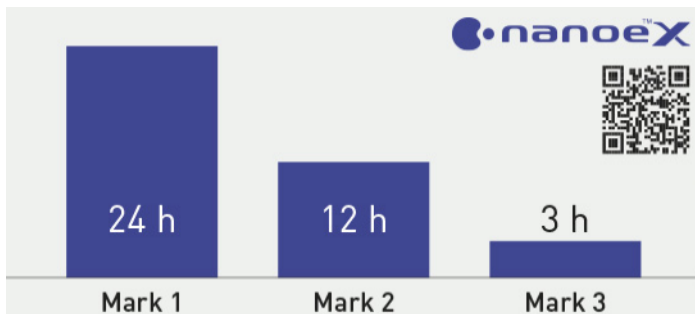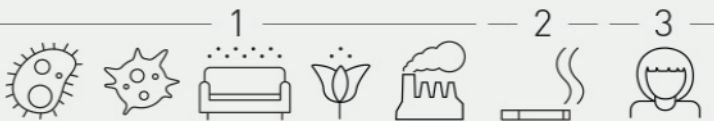**Built-in new nanoe X Generator Mark 3**

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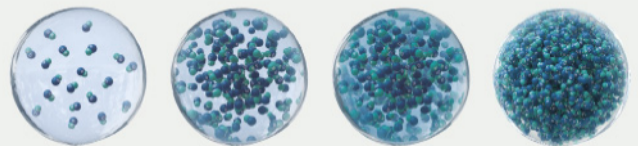
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Technology for the ultimate comfort

Licensed in VDI 6022

Certification of a HVAC system under VDI 6022 guarantees that the system fulfills the market's strictest hygiene requirements.

VDI 6022 – Part 5 [1] Certification
Avoidance of allergenic exposure
Inhibits a wide range of harmful bacteria, viruses, mould, pollen and allergens.
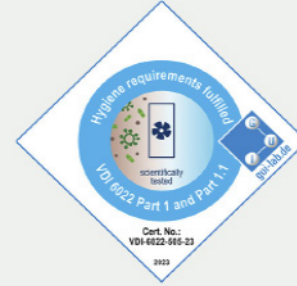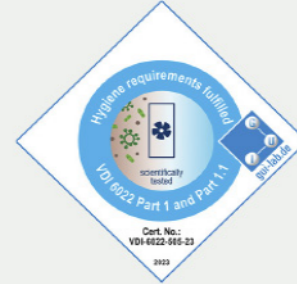**a. Pollen. b. Mould. c. Allergens**

VDI 6022 – Part 1 [1] & 1.1 [2] Certification
Ventilation and indoor-air quality
Panasonic nanoe™ X technology improving indoor air quality.

1. Certification mark only valid for Generator Mark 3. 2. Certification mark only valid for Generator Mark 2 and Mark 3.

a
b
c

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%.
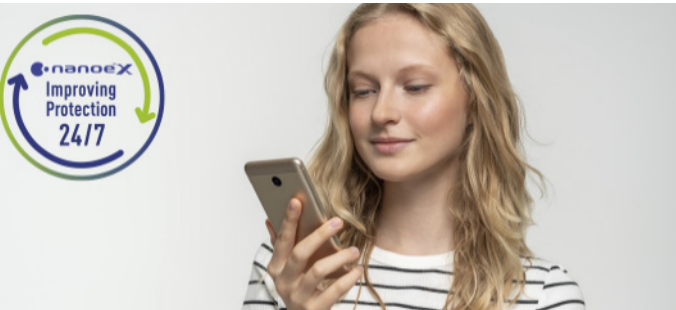New cross flow fan is coated to prevent dust adhered on its surfaces and can be effective against certain bacteria and mould.

Proven prevents dust adhered 62,5%* compare with non-coating
The amount of dust or mould may change depending on the usage frequency and environment.
* Based on Panasonic internal testing result.

a: Without coating: Adhered dust - b: With anti-static coating: Maintain cleanliness - c: Without coating cross flow fan - d: Coated cross flow fan.

a
b

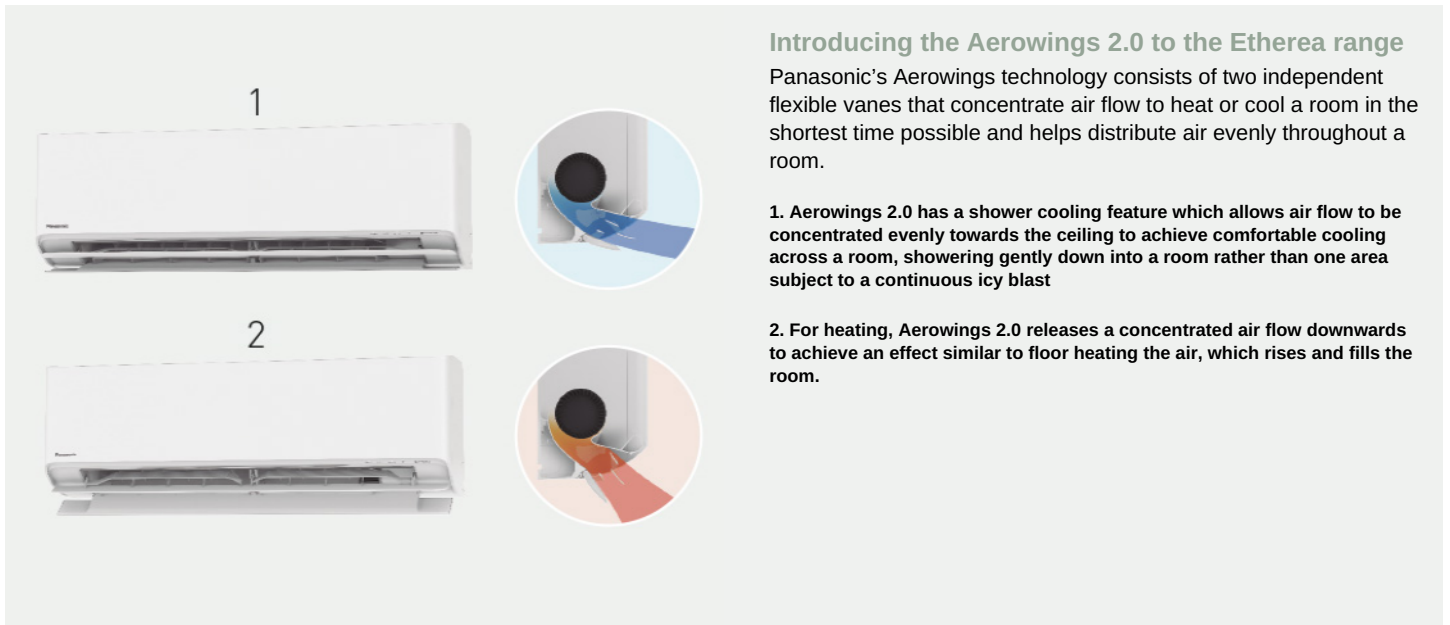|		
100		
75		
50		
25	**0,8 g**	**0,3 g**
0	c	d

nanoe™ X: improving protection 24/7

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.
nanoe™ X works together with heating or cooling function when you are at home and can work independently when you are away.

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Panasonic

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.

1. 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

2. 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.

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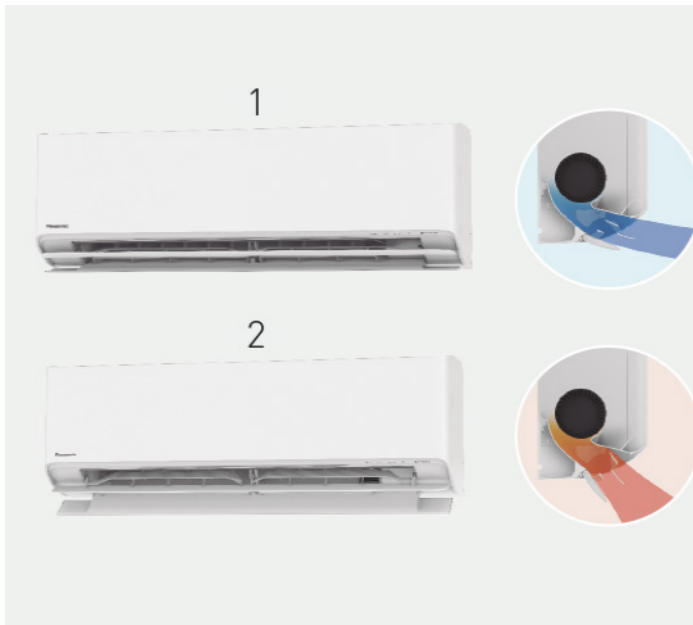
Sleek design for optimal performance:
· Spatial fit and architectural impression achieved by end-to-end vane
· Large air discharge area and vane size exudes higher performance
· Compact, narrow design fits neatly on the wall
· Simplified, clean surface presents a timeless design

High class, easy-to-use remote control with backlight

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.

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A+++

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.

Free Multi system

If air conditioning requirements exceed the scope of a single room, Panasonic offers an extensive range of possibilities with a multi split solution.
Up to 5 indoor units with a single outdoor unit.
· Just one compact outdoor unit
· Increased comfort in the house since every room has its own indoor unit for heating or cooling
· Much more powerful than a single split
· More efficient since the units are always operating at full capacity
· You can connect all types of indoor units, such as wall types and consoles, depending on what suits your house best

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

Remote control: Control and monitor your air conditioners anytime, anywhere
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
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.

Voice Control. Words do more than actions

Boundless control and hands-free help to access all the features of your air-to-air heat pump.
Maximising your comfort is now a breeze with our connected air conditioners using the Panasonic Comfort Cloud App and voice control.

* 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.

Domestic AirCon Quick Selector

This user-friendly online tool for our domestic range allows to choose the best split or multi-split system for each project needs and get the specifications of that particular application.

Configure in a few steps your multi split system with our online tool and see the capacity of all possible combinations

AR Heat Pump Viewer

Interested to see how a Panasonic air conditioner looks in your home?
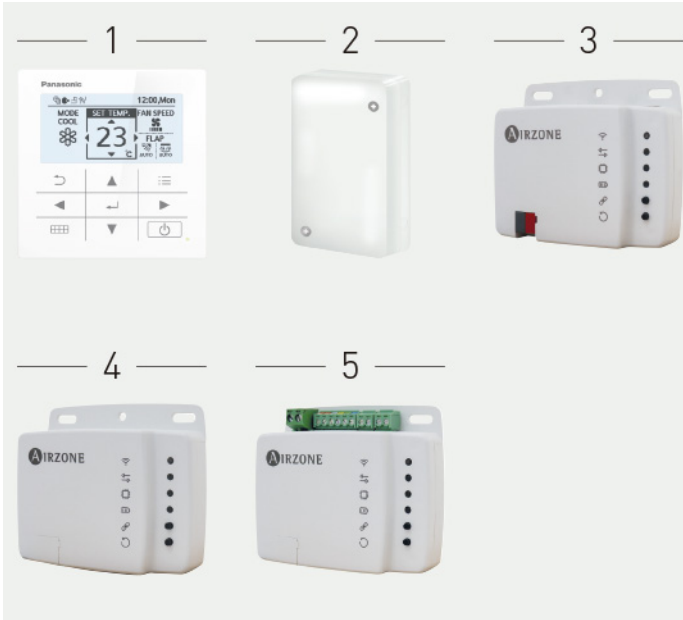**Try the new Panasonic AR projector, utilising augmented reality!**

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Product and accessories
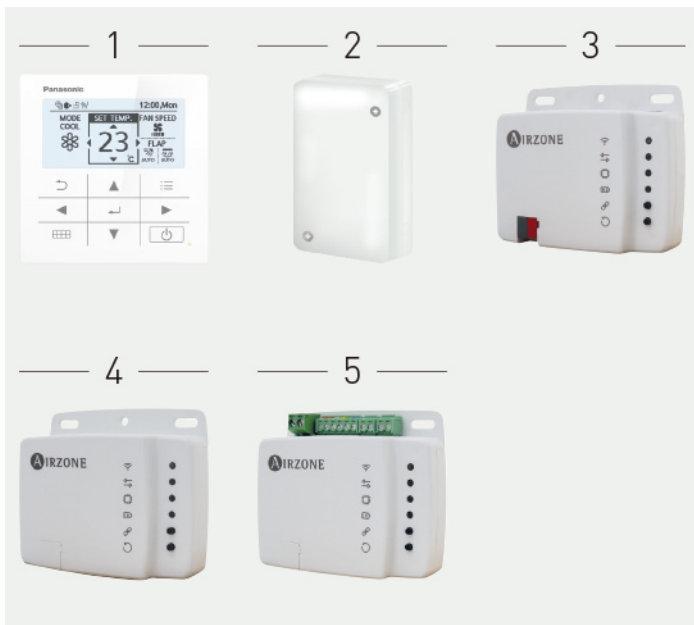
Accessories	
1. CZ-RD517C	Wired remote controller for wall-mounted and floor console
2. CZ-CAPRA1	RAC interface adapter for integration into S-Link
3. PAW-AZAC-KNX-1	KNX interface. Can be used with all models which have a CN-CNT connector (Airzone)
4. PAW-AZAC-MBS-1	Modbus interface. Can be used with all models which have a CN-CNT connector (Airzone)
5. PAW-AZAC-BAC-1	BACnet interface. Can be used with all models which have a CN-CNT connector (Airzone)

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Etherea with nanoe™ X graphite grey R32

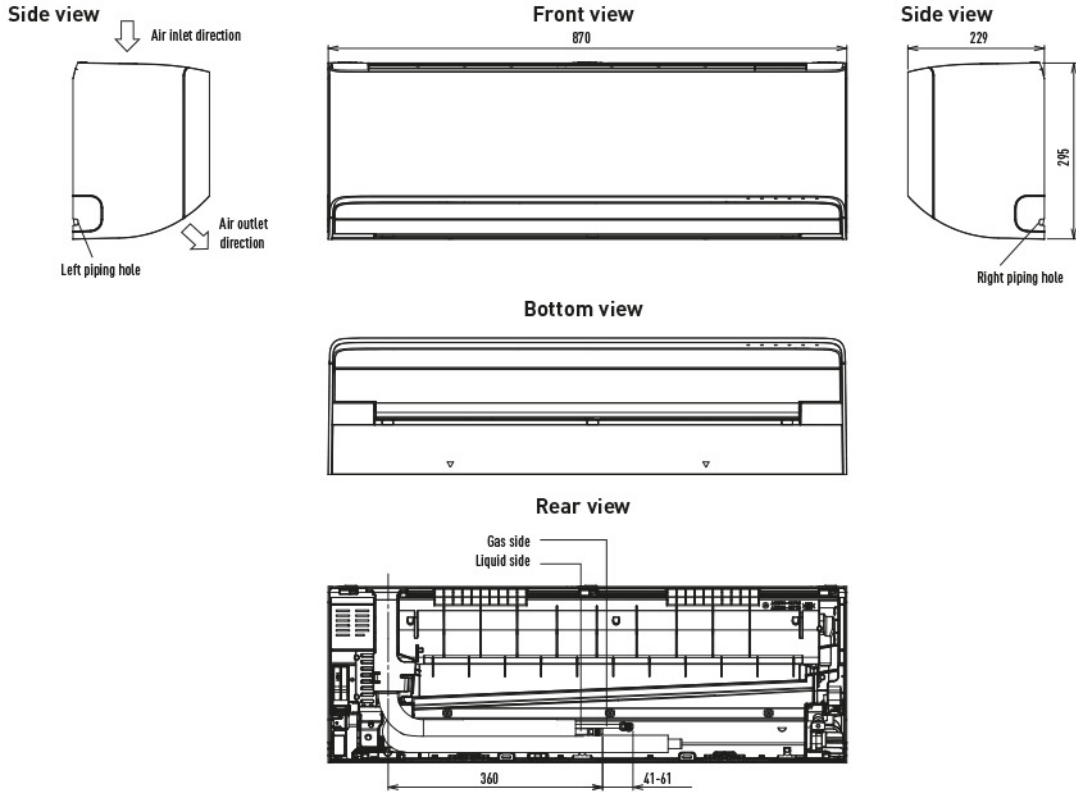| Etherea with nanoe™ X Graphite grey R32		SINGLE PHASE			
		2.05 kW	2.50 kW	3.50 kW	4.20 kW
Kit		KIT-XZ20-XKE-H	KIT-XZ25-XKE-H	KIT-XZ35-XKE-H	KIT-XZ42-ZKE-H
Cooling capacity (Nominal)	kW	2,05	2,50	3,50	4,20
Cooling capacity (Min)	kW	0,75	0,85	0,85	0,85
Cooling capacity (Max)	kW	2,65	3,50	4,20	5,00
EER (Nominal) (1)	W/W	4,56	4,90	4,12	3,39
EER (Min) (1)	W/W	4,69	5,00	4,25	3,62
EER (Max) (1)	W/W	3,96	3,89	3,62	3,18
SEER (2)		8,10 A++	9,40 A+++	9,50 A+++	7,10 A++
Pdesign (cooling)	kW	2,1	2,5	3,5	4,2
Input power cooling (Nominal)	kW	0,45	0,51	0,85	1,24
Input power cooling (Min)	kW	0,16	0,17	0,20	0,24
Input power cooling (Max)	kW	0,67	0,90	1,16	1,57
Annual energy consumption cooling (3)	kWh/a	91	93	129	207
Heating capacity (Nominal)	kW	2,80	3,40	4,00	5,30
Heating capacity (Min)	kW	0,75	0,80	0,80	0,80
Heating capacity (Max)	kW	4,00	4,80	5,50	6,80
Heating capacity at -7°C	kW	2,38	2,80	3,20	4,11
COP (Nominal) (1)	W/W	4,52	4,86	4,44	3,73
COP (Min) (1)	W/W	4,69	5,00	4,44	4,21
COP (Max) (1)	W/W	4,26	4,07	3,77	3,66
SCOP (2)		4,80 A++	5,20 A+++	5,20 A+++	4,30 A+
Pdesign at -10°C	kW	2,1	2,4	2,8	3,6
Input power heating (Nominal)	kW	0,62	0,70	0,90	1,42
Input power heating (Min)	kW	0,16	0,16	0,18	0,19
Input power heating (Max)	kW	0,94	1,18	1,46	1,86
Annual energy consumption heating (3)	kWh/a	613	646	754	1.172
Indoor unit		CS-XZ20XKEW-H	CS-XZ25XKEW-H	CS-XZ35XKEW-H	CS-Z42ZKEW-H
Indoor power source	V	230	230	230	230
Indoor recommended fuse	A	16	16	16	16
Indoor connection indoor / outdoor	mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Indoor air flow (Cool)	m³/min	11,7	12,7	12,7	14,5
Indoor air flow (Heat)	m³/min	13,0	14,1	14,7	15,4
Moisture removal volume	L/h	1,3	1,5	2,0	2,4
Indoor sound pressure (Cool -Hi) (4)	dB(A)	37	39	42	43
Indoor sound pressure (Cool -Hi) (4)	dB(A)	37	39	42	43
Indoor sound pressure (Cool -Lo) (4)	dB(A)	24	25	28	31
Indoor sound pressure (Cool -Q-Lo) (4)	dB(A)	19	19	19	25
Indoor sound pressure (Heat -Hi) (4)	dB(A)	38	41	43	43
Indoor sound pressure (Heat -Lo) (4)	dB(A)	25	27	33	35
Indoor sound pressure (Heat -Q-Lo) (4)	dB(A)	19	19	19	29
Indoor dimension (Height)	mm	295	295	295	295
Indoor dimension (Width)	mm	870	870	870	870
Indoor dimension (Depth)	mm	229	229	229	229
Indoor net weight	kg	10	10	11	10
nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 3
Outdoor unit		CU-Z20XKE	CU-Z25XKE	CU-Z35XKE	CU-Z42ZKE
Outdoor air flow (Cool)	m³/min	27,4	28,7	29,8	29,8
Outdoor air flow (Heat)	m³/min	26,7	27,2	30,6	30,9
Outdoor sound pressure (Cool -Hi) (4)	dB(A)	45	46	48	49
Outdoor sound pressure (Cool -Hi) (4)	dB(A)	45	46	48	49
Outdoor sound pressure (Heat -Hi) (4)	dB(A)	46	47	50	51
Outdoor dimension (Height) (5)	mm	542	542	542	542
Outdoor dimension (Width) (5)	mm	780	780	780	780
Outdoor dimension (Depth) (5)	mm	289	289	289	289
Outdoor net weight	kg	25	27	30	31
Pipe diameter (Liquid)	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Pipe diameter (Gas)	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
Pipe length range	m	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 15
Elevation difference (in/out) (6)	m	15	15	15	15
Pipe length for additional gas	m	7,5	7,5	7,5	7,5
Additional gas amount	g/m	10	10	10	10
Refrigerant (R32) / CO_2 Eq.	kg / T	0,67 / 0,45	0,80 / 0,54	0,89 / 0,60	0,83 / 0,56
Operating range (Cool - Min)	°C	-10	-10	-10	-10
Operating range (Cool - Min)	°C	-10	-10	-10	-10
Operating range (Cool - Max)	°C	+43	+43	+43	+43
Operating range (Heat - Min)	°C	-15	-15	-15	-20
Operating range (Heat - Max)	°C	+24	+24	+24	+24

Etherea with nanoe™ X graphite grey R32

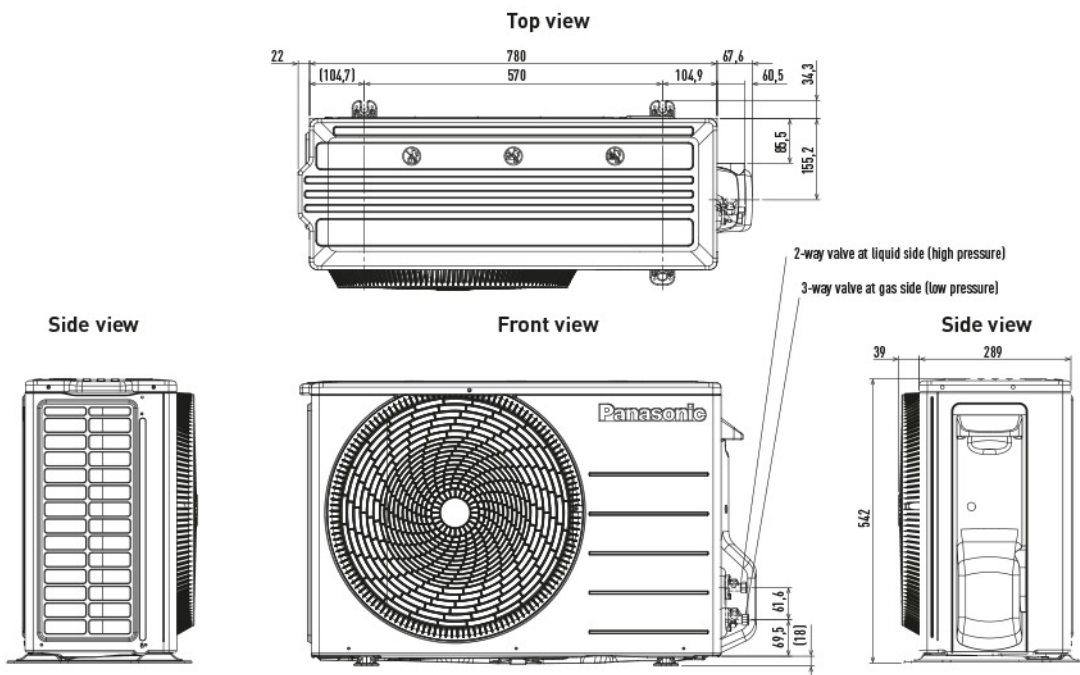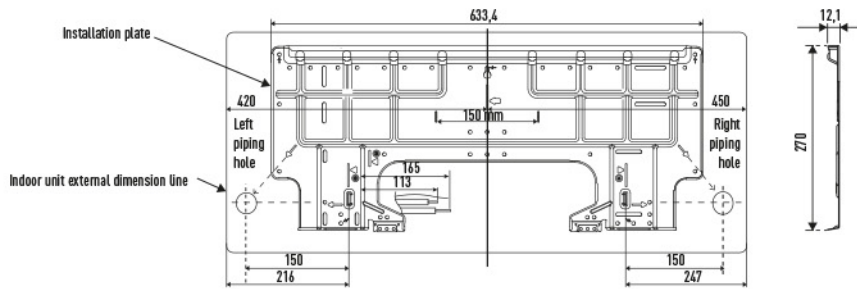| Etherea with nanoe™ X Graphite grey R32		SINGLE PHASE			
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Cooling capacity (Nominal)	kW	2,05	2,50	3,50	4,20
Cooling capacity (Min)	kW	0,75	0,85	0,85	0,85
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EER (Nominal) (1)	W/W	4,56	4,90	4,12	3,39
EER (Min) (1)	W/W	4,69	5,00	4,25	3,62
EER (Max) (1)	W/W	3,96	3,89	3,62	3,18
SEER (2)		8,10 A++	9,40 A+++	9,50 A+++	7,10 A++
Pdesign (cooling)	kW	2,1	2,5	3,5	4,2
Input power cooling (Nominal)	kW	0,45	0,51	0,85	1,24
Input power cooling (Min)	kW	0,16	0,17	0,20	0,24
Input power cooling (Max)	kW	0,67	0,90	1,16	1,57
Annual energy consumption cooling (3)	kWh/a	91	93	129	207
Heating capacity (Nominal)	kW	2,80	3,40	4,00	5,30
Heating capacity (Min)	kW	0,75	0,80	0,80	0,80
Heating capacity (Max)	kW	4,00	4,80	5,50	6,80
Heating capacity at -7°C	kW	2,38	2,80	3,20	4,11
COP (Nominal) (1)	W/W	4,52	4,86	4,44	3,73
COP (Min) (1)	W/W	4,69	5,00	4,44	4,21
COP (Max) (1)	W/W	4,26	4,07	3,77	3,66
SCOP (2)		4,80 A++	5,20 A+++	5,20 A+++	4,30 A+
Pdesign at -10°C	kW	2,1	2,4	2,8	3,6
Input power heating (Nominal)	kW	0,62	0,70	0,90	1,42
Input power heating (Min)	kW	0,16	0,16	0,18	0,19
Input power heating (Max)	kW	0,94	1,18	1,46	1,86
Annual energy consumption heating (3)	kWh/a	613	646	754	1.172
Indoor unit		CS-XZ20XKEW-H	CS-XZ25XKEW-H	CS-XZ35XKEW-H	CS-Z42ZKEW-H
Indoor power source	V	230	230	230	230
Indoor recommended fuse	A	16	16	16	16
Indoor connection indoor / outdoor	mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Indoor air flow (Cool)	m³/min	11,7	12,7	12,7	14,5
Indoor air flow (Heat)	m³/min	13,0	14,1	14,7	15,4
Moisture removal volume	L/h	1,3	1,5	2,0	2,4
Indoor sound pressure (Cool -Hi) (4)	dB(A)	37	39	42	43
Indoor sound pressure (Cool -Hi) (4)	dB(A)	37	39	42	43
Indoor sound pressure (Cool -Lo) (4)	dB(A)	24	25	28	31
Indoor sound pressure (Cool -Q-Lo) (4)	dB(A)	19	19	19	25
Indoor sound pressure (Heat -Hi) (4)	dB(A)	38	41	43	43
Indoor sound pressure (Heat -Lo) (4)	dB(A)	25	27	33	35
Indoor sound pressure (Heat -Q-Lo) (4)	dB(A)	19	19	19	29
Indoor dimension (Height)	mm	295	295	295	295
Indoor dimension (Width)	mm	870	870	870	870
Indoor dimension (Depth)	mm	229	229	229	229
Indoor net weight	kg	10	10	11	10
nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 3
Outdoor unit		CU-Z20XKE	CU-Z25XKE	CU-Z35XKE	CU-Z42ZKE
Outdoor air flow (Cool)	m³/min	27,4	28,7	29,8	29,8
Outdoor air flow (Heat)	m³/min	26,7	27,2	30,6	30,9
Outdoor sound pressure (Cool -Hi) (4)	dB(A)	45	46	48	49
Outdoor sound pressure (Cool -Hi) (4)	dB(A)	45	46	48	49
Outdoor sound pressure (Heat -Hi) (4)	dB(A)	46	47	50	51
Outdoor dimension (Height) (5)	mm	542	542	542	542
Outdoor dimension (Width) (5)	mm	780	780	780	780
Outdoor dimension (Depth) (5)	mm	289	289	289	289
Outdoor net weight	kg	25	27	30	31
Pipe diameter (Liquid)	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Pipe diameter (Gas)	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
Pipe length range	m	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 15
Elevation difference (in/out) (6)	m	15	15	15	15
Pipe length for additional gas	m	7,5	7,5	7,5	7,5
Additional gas amount	g/m	10	10	10	10
Refrigerant (R32) / CO2 Eq.	kg / T	0,67 / 0,45	0,80 / 0,54	0,89 / 0,60	0,83 / 0,56
Operating range (Cool - Min)	°C	-10	-10	-10	-10
Operating range (Cool - Min)	°C	-10	-10	-10	-10
Operating range (Cool - Max)	°C	+43	+43	+43	+43
Operating range (Heat - Min)	°C	-15	-15	-15	-20
Operating range (Heat - Max)	°C	+24	+24	+24	+24

Panasonic

Dimensions

Wall-mounted Etherea (from 1,6 to 4,2 kW)

Side view

Air inlet direction

Air outlet direction

Left piping hole

Front view

870

Side view

229

295

Right piping hole

Bottom view

Rear view

Gas side
Liquid side

360   41-61

Relative position between the indoor unit and the installation plate

Installation plate

633,4

12,1

420   450
Left piping hole   Right piping hole

150 mm

270

Indoor unit external dimension line

165
113

150   150
216   247

Top view

22   780   47,6
(104,7)   570   104,9   60,5   34,3

85,5
155,2

2-way valve at liquid side (high pressure)

3-way valve at gas side (low pressure)

Side view

Front view

Panasonic

Side view

39   289

542

61,6
69,5
(18)

Unit: mm

Panasonic

Wiring diagrams

Wall-mounted Etherea graphite grey, silver and matt white kits 1x1

Indoor unit

| | 3 | 2 | 1 |

Connection cable

| 1 | 2 | 3 | |
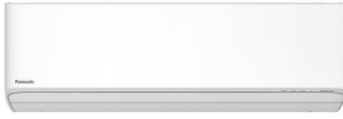
Outdoor unit

Attention: Wall-mounted Etherea and TZ super-compact have different connection terminals

| | L1 | N | S1 | 2 | 3 |

| 3 | 2 | S1 | |

L N

CN-RMT

| 1 | | | 4 |

CZ-RD517C
Wired remote controller

Infrared remote
controller (included
in the delivery)
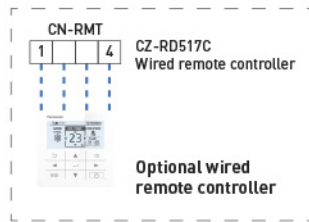
Optional wired
remote controller

Single phase
Power supply
230 V / 50 Hz

Power supply to indoor or outdoor depending on model, see table.

Single phase

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-XZ20ZKEW-H / CS-XZ20ZKEW / CS-Z20ZKEW	230 V (indoor)	16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z20ZKE
CS-XZ25ZKEW-H / CS-XZ25ZKEW / CS-Z25ZKEW	230 V (indoor)	16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z25ZKE
CS-XZ35ZKEW-H / CS-XZ35ZKEW / CS-Z35ZKEW	230 V (indoor)	16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z35ZKE
CS-XZ42ZKEW-H / — / CS-Z42ZKEW	230 V (indoor)	16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z42ZKE
— / CS-XZ50ZKEW / CS-Z50ZKEW	230 V (indoor)	16 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-Z50ZKE
— / — / CS-Z71ZKEW	230 V (indoor)	20 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-Z71ZKE