



Ethera with nanoe™ X technology

1. 24/7 cleaner air with nanoe™ X technology

- Works independently of heating or cooling modes
- Internal cleaning function
- Maintenance-free: No filters or replacements required

2. Year-round energy efficiency

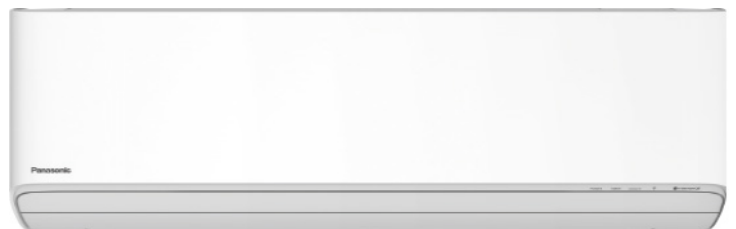
- A+++ SEER and SCOP ratings
- AI ECO Mode for up to 20% additional energy savings in cooling

3. Ultimate comfort

- Aerowings 2.0 (Shower cooling & Floor heating effect)
- Super Quiet operation, as low as 19dB(A)
- Reliable heating even at -20°C

4. Smart control

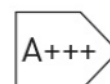
- Built-in Wi-Fi for smart control via Comfort Cloud App
- Works with Google Home and Alexa



ETHEREA

R32

nanoe[™]X



Etherea with nanoe™ X technology

Etherea: a very welcome addition to your home

A smart solution to keep your home cleaner, 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, cleaner and the ideal place to be.

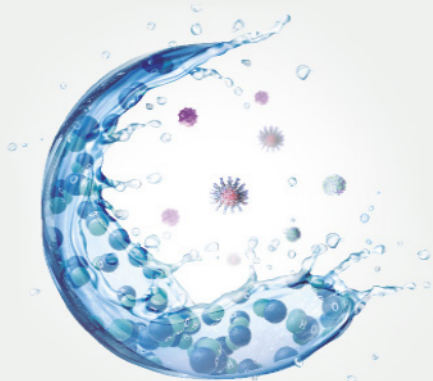
Available in 3 colors

Built-in new nanoe X Generator Mark 3

Built-in Wi-Fi



nanoe™ X



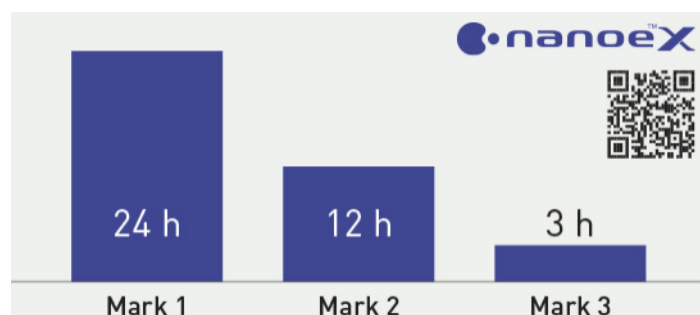
Bringing nature's balance indoors

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

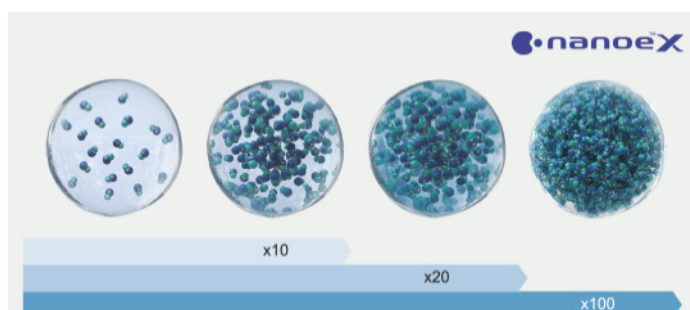


Comparison of time required to inhibit 99% of cedar pollen

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
3. nanoe X Generator Mark 2. 9.6 trillion
4. nanoe X Generator Mark 3. 48 trillion

24/7 cleaner air with nanoe™ X 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 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.

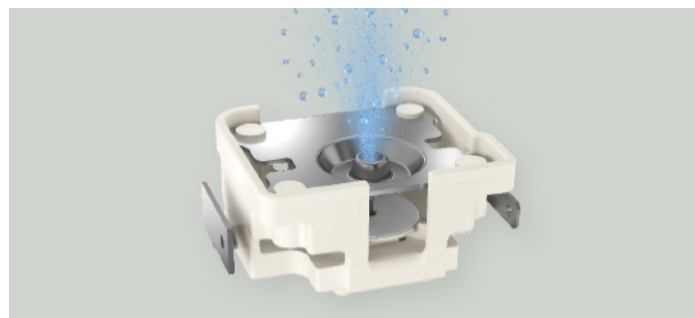
* Based on Panasonic internal testing result.

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



nanoe™ X: improving protection 24/7

Acts to clean your air, so that the indoor environment can be a cleaner and more 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.



Maintenance-free

No service and maintenance required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titanium.

*The image shows nanoe X generator Mark 3.

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 5¹⁾ Certification

Avoidance of allergenic exposure

Inhibits a wide range of harmful bacteria, viruses, mould, pollen and allergens.

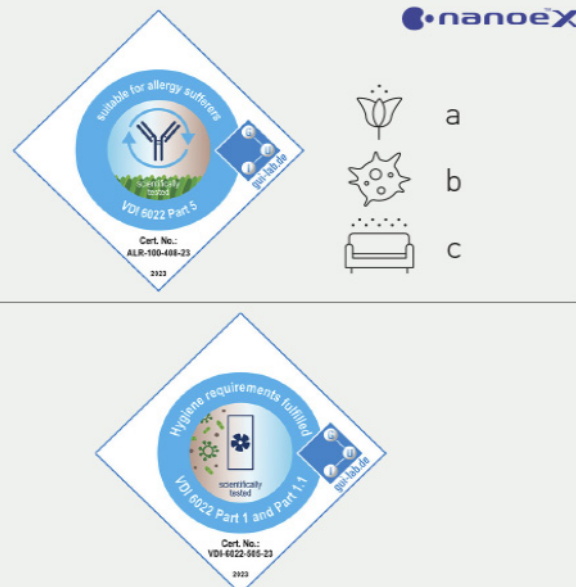
a. Pollen. b. Mould. c. Allergens

VDI 6022 – Part 1¹⁾ & 1.1²⁾ 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.



Optimised energy performance



A+++

Etherea provides the highest level of comfort with a low energy consumption

Its air to air heat pump technology ensures high efficiency all year round, while smart features help reduce running costs. With A+++ SEER and SCOP ratings, it ensures year-round efficiency.

* Scale A+++ to D.

AI ECO Mode.

Smarter cooling, lower energy costs

AI ECO Mode boosts cooling energy savings by up to 20% by analysing room conditions and adjusting performance. It automatically finds the perfect balance between fast cooling and reduced energy consumption, delivering comfort more efficiently every day.

AI ECO Mode: up to 20%* energy saving

* Energy savings in cooling mode, comparing AI ECO and standard operation, based on a 4,2 kW model.



Technology for the ultimate comfort

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

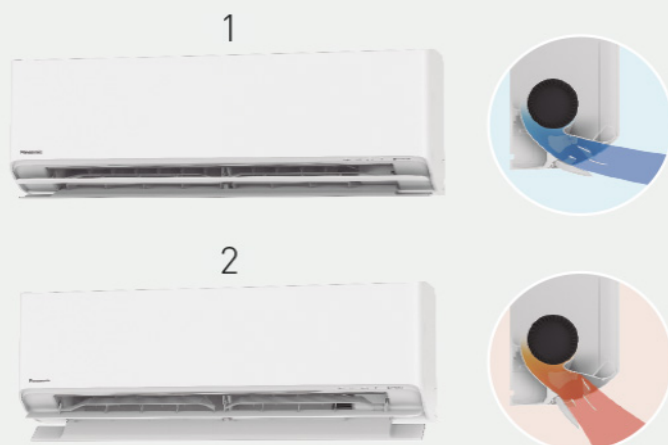


Sleek design with easy-to-use remote controller

Panasonic has meticulously designed a new Ethera 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



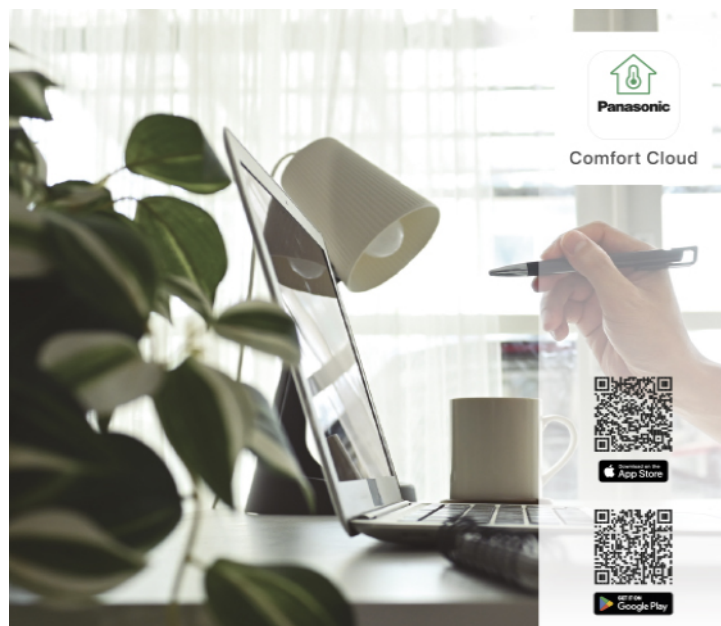
Introducing the Aerowings 2.0 to the Ethera range

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.

Smart & intuitive controls for Etherea



Panasonic Comfort Cloud App

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.

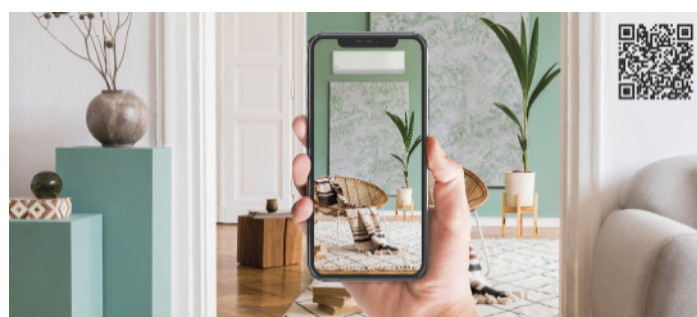
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Domestic AirCon Quick Selector

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

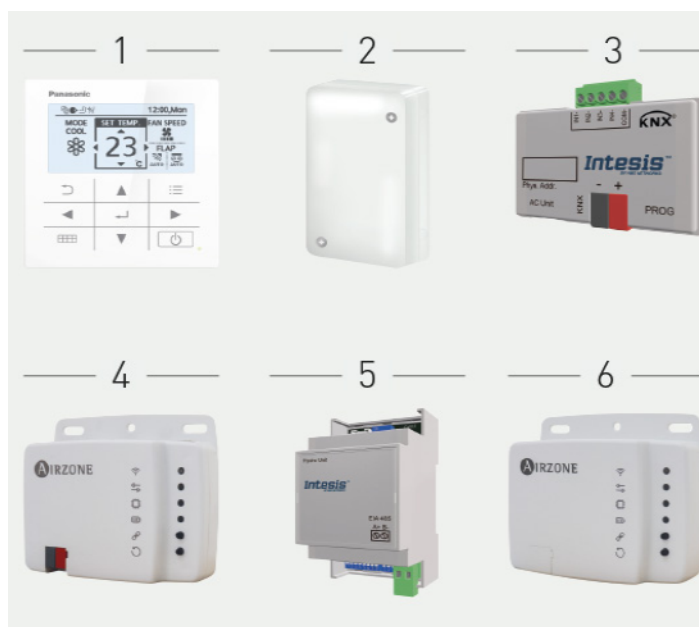


AR Heat Pump Viewer

Interested to see how a Panasonic air conditioner looks in your home?

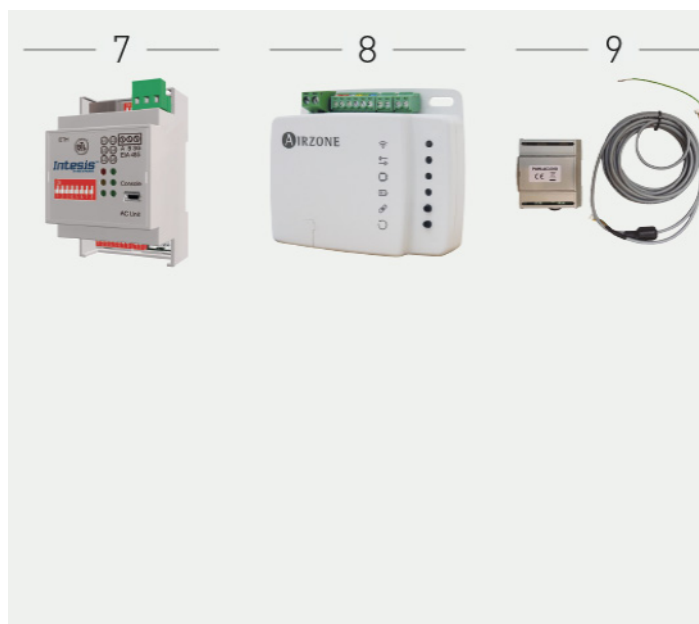
Try the new Panasonic AR projector, utilising augmented reality!

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-AC-KNX-1i:** KNX gateway powered via CN-CNT. For RAC models with CN-CNT connector.
4. **PAW-AZAC-KNX-1:** KNX gateway with 12 V DC power supply. For RAC models with CN-CNT connector.
5. **PAW-AC-MBS-1:** DIN rail-mounted Modbus gateway, powered via CN-CNT. For RAC models with CN-CNT connector.
6. **PAW-AZAC-MBS-1:** Modbus gateway with 12 V DC power supply. For RAC models with CN-CNT connector.



7. **PAW-AC-BAC-1:** DIN rail-mounted BACnet gateway, powered via CN-CNT. For RAC models with CN-CNT connector..
8. **PAW-AZAC-BAC-1:** BACnet gateway with 12 V DC power supply. For RAC models with CN-CNT connector.
9. **PAW-AC-DIO:** Dry contact interface for RAC models with CN-RMT connector..

Etherea with nanoe™ X matt white R32

Etherea with nanoe™ X Pure White Matt R32		SINGLE PHASE					
		2.0 kW	2.5 kW	3.5 kW	4.2 kW	5.0 kW	7.1 kW
Cooling capacity (Min)	kW	0,75	0,85	0,85	0,85	0,98	0,98
Input power heating (Min)	kW	0,16	0,16	0,18	0,19	0,23	0,40
COP (Max) (1)	W/W	4,26	4,07	3,77	3,66	3,35	3,31
COP (Min) (1)	W/W	4,69	5,00	4,44	4,21	4,26	2,45
Heating capacity (Max)	kW	4,00	4,80	5,50	6,80	8,00	10,20
Heating capacity (Min)	kW	0,75	0,80	0,80	0,80	0,98	0,98
Input power cooling (Max)	kW	0,66	0,90	1,16	1,57	1,90	3,00
Input power cooling (Min)	kW	0,16	0,17	0,20	0,24	0,25	0,42
EER (Max) (1)	W/W	4,02	3,89	3,62	3,18	3,16	2,83
EER (Min) (1)	W/W	4,69	5,00	4,25	3,62	3,92	2,33
Cooling capacity (Max)	kW	2,65	3,50	4,20	5,00	6,00	8,50
Input power heating (Max)	kW	0,94	1,18	1,46	1,86	2,39	3,08
Operating range (Heat - Max)	°C	+24	+24	+24	+24	+24	+24
Operating range (Heat - Min)	°C	-20	-20	-20	-20	-20	-20
Operating range (Cool - Max)	°C	+43	+43	+43	+43	+43	+43
Elevation difference (in/out) (6)	m	15	15	15	15	15	20
Outdoor dimension (Depth) (5)	mm	289	289	289	289	320	320
Outdoor dimension (Width) (5)	mm	780	780	780	780	875	875
Outdoor dimension (Height) (5)	mm	542	542	542	542	695	695
Outdoor sound pressure (Heat -Hi) (4)	dB(A)	46	47	50	51	47	54
Outdoor unit		CU-Z20CKE	CU-Z25CKE	CU-Z35CKE	CU-Z42CKE	CU-Z50CKE	CU-Z71CKE
nanoe X Generator		Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Outdoor air flow (Heat)	m³/min	25,7	26,5	29,8	30,9	36,9	45,8
Outdoor air flow (Cool)	m³/min	26,5	28,7	29,8	29,8	39,8	44,7
Indoor unit		CS-Z20CKEW	CS-Z25CKEW	CS-Z35CKEW	CS-Z42CKEW	CS-Z50CKEW	CS-Z71CKEW
Indoor sound pressure (Heat -Q-Lo) (4)	dB(A)	19	19	19	29	30	30
Indoor sound pressure (Heat -Lo) (4)	dB(A)	25	27	33	35	37	38
Indoor sound pressure (Heat -Hi) (4)	dB(A)	36	39	43	43	44	47
Indoor sound pressure (Cool -Q-Lo) (4)	dB(A)	19	19	19	25	30	30
Indoor sound pressure (Cool -Lo) (4)	dB(A)	24	25	28	31	37	38
Moisture removal volume	L/h	1,3	1,5	2	2,4	2,8	4,1
Indoor air flow (Heat)	m³/min	11,9	13,0	14,4	15,4	19,1	19,9
Indoor air flow (Cool)	m³/min	10,4	12,4	12,7	14,5	17,4	19,0
Indoor connection indoor / outdoor	mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4x2,5	4x2,5
Indoor power source	V	230	230	230	230	230	230
Annual energy consumption heating (3)	kWh/a	700	700	781	1 172	1 225	1 833
Annual energy consumption cooling (3)	kWh/a	84	92	129	207	206	382
Input power cooling (Nominal)	kW	0,44	0,51	0,82	1,24	1,36	2,19
Pdesign (cooling)	kW	2,1	2,5	3,5	4,2	5,0	7,1
SEER (2)		8,70 A+++	9,50 A+++	9,50 A+++	7,10 A++	8,50 A+++	6,50 A++
Outdoor net weight	kg	27	27	31	31	42	45
Outdoor sound pressure (Cool -Hi) (4)	dB(A)	45	46	48	49	47	52
Indoor net weight	kg	10	10	11	10	12	13
Indoor dimension (Height)	mm	295	295	295	295	295	295
Indoor sound pressure (Cool -Hi) (4)	dB(A)	35	39	42	43	44	47
SCOP (2)		4,80 A++	5,20 A+++	5,20 A+++	4,30 A+	4,80 A++	4,20 A+
Pipe length range	m	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 30	3 ~ 30
Heating capacity at -7°C	kW	2,38	2,8	3,2	4,11	4,8	6,31
Kit		KIT-Z20-CKE	KIT-Z25-CKE	KIT-Z35-CKE	KIT-Z42-CKE	KIT-Z50-CKE	KIT-Z71-CKE
Additional gas amount	g/m	10	10	10	10	15	25
Pipe length for additional gas	m	7,5	7,5	7,5	7,5	7,5	10
Pipe diameter (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 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)
Indoor dimension (Depth)	mm	229	229	229	229	244	244
Indoor dimension (Width)	mm	870	870	870	870	1 040	1 040
Indoor recommended fuse	A	16	16	16	16	16	20
Refrigerant (R32) / CO2 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
EER (Nominal) (1)	W/W	4,66	4,90	4,27	3,39	3,68	3,24
COP (Nominal) (1)	W/W	4,67	4,86	4,55	3,73	4,14	3,73
Heating capacity (Nominal)	kW	2,80	3,40	4,00	5,30	5,80	8,20
Cooling capacity (Nominal)	kW	2,05	2,50	3,50	4,20	5,00	7,10
Operating range (Cool - Min)	°C	-10	-10	-10	-10	-10	-10
Input power heating (Nominal)	kW	0,60	0,70	0,88	1,42	1,40	2,20
Pdesign at -10°C	kW	2,4	2,6	2,9	3,6	4,2	5,5

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 1m in front of the main body and 0,8m below the unit. For outdoor unit 1m in front and 1m 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 70mm for piping port.

6) When installing the outdoor unit at a higher position than the indoor unit.