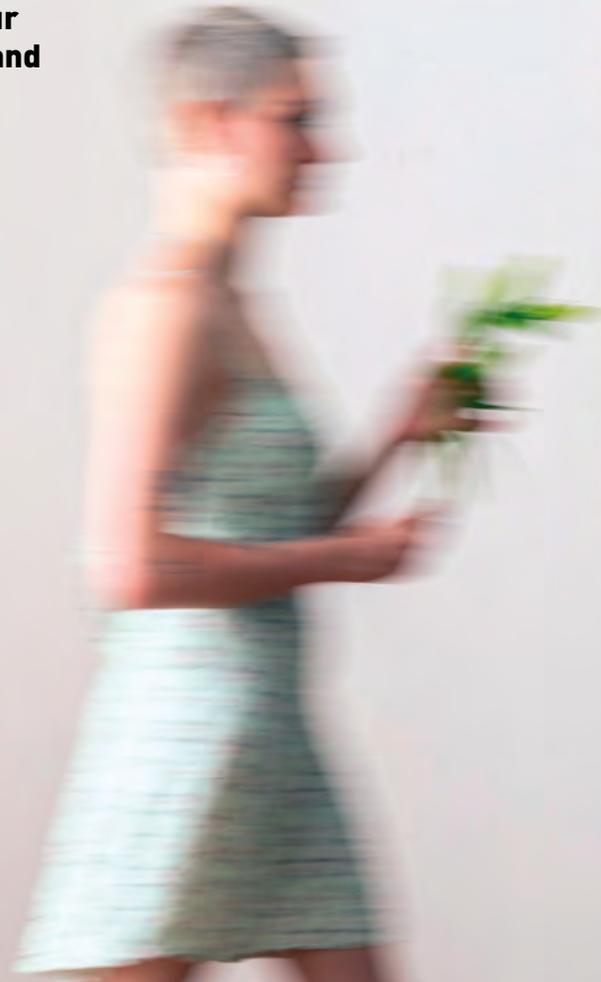


Panasonic

FLAGSHIP

Flagship with nanoe™ X technology.

A smart solution specially designed for the tough Nordic climate to keep your home clean, comfortable and welcoming.



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A smart solution specially designed for the tough Nordic climate to keep your home clean, comfortable and welcoming.



Flagship: a very welcome addition to your home.

The smart, Flagship now comes with nanoe™ X technology with the benefits of hydroxyl radicals. With advanced control options, class-leading performance, a stylish design and intelligent features, Flagship is designed to make your home comfortable, cleaner and pleasant place to be even in extreme conditions.



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
- Enhancing indoor unit inside cleanness together with nanoe™ X

Ultimate comfort.

- Aerowings 2.0, end-to-end vanes enhance comfortable heating
- Super quiet ambient
- The Fireplace function supports other heat sources by circulating the warm air throughout the space, even when the set temperature is reached.

Smart control.

- Built-in Wi-Fi for instant connectivity, now with an easier and quicker set-up
- Advanced control via smartphone
- Compatible with Google Assistant and Amazon Alexa ¹⁾

Design.

- Available in graphite grey and matt white color
- Stylish, monolithic design
- Chassis and parts designed for easier installation and servicing
- High class, easy-to-use remote control with backlight

Maximum heating capacity of 3,60 kW at -25 °C ²⁾.

- Exceptional maximum heating capacity even in low outdoor air temperature zones
- Top class energy efficiency up to A+++ in heating and cooling

1) 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. 2) 2,5 kW model. 3,5 kW model up to -20 °C.





nanoe™ X: Improving protection 24/7.

Provides a comfortable and clean air environment all year round.

Winter.

- Keeps the room warm and cleans the air all day long
- 24-hour heating with the nanoe™ mode
- Provides comfort as well as a cleaner environment

Spring/Summer.

- Inhibits pollen and deodorises
- Turn ON the nanoe™ mode only with the nanoe™ mode
- You can turn ON nanoe™ X even when you are out, so you can come home to clean air in your house

Summer.

- Cools and cleans the air when you are at home
- Cooling with the nanoe™ mode
- Enjoy a cleaner, comfortable space with loved ones



Anytime, from anywhere, protection from the cold. With the Comfort Cloud App, you can remotely control air conditioning and check energy consumption in your summer house at anytime, from anywhere for extra convenience and comfort.

Before you arrive home. Turn ON the heating & nanoe™ X.

Pre-heating keeps the room comfortable, and nanoe™ X inhibits pollen and deodorises.

Anytime. Check energy consumption.

You can easily check your air to air heat pump's energy consumption.

When you're away, maintenance with the Summer House mode.

Remotely turn ON low temperature heating to protect household equipment and items.

7 effects of nanoe™ X –
Panasonic unique
technology



Inside cleaning

The inside cleaning operation acts to clean the inside of indoor unit. It uses nano^e™ X technology that can inhibit certain adhered bacteria, viruses, and mould on the filter, evaporator and air outlet 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.



Deodorises



Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances



Skin and hair

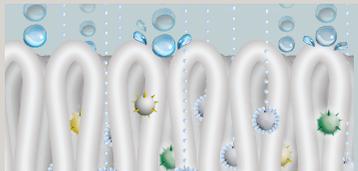
Moisturises

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 pleasant place to be.

The new Flagship comes with nanoe X Generator Mark 3, the latest of the continuously evolving nanoe™ X technology. It has the largest amount of hydroxyl radical with 100 times the hydroxyl radical contained in original nanoe™. The increased number of hydroxyl radical, means you can expect an even higher level of performance.



Effective on fabrics and surfaces.



Longer lifespan.



Huge quantity.

Comparison of time required to inhibit 99% of cedar pollen¹⁾.



Maintenance -free.

Find out more



nanoe™ X, internationally-validated technology in testing facilities.

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Japan and China.

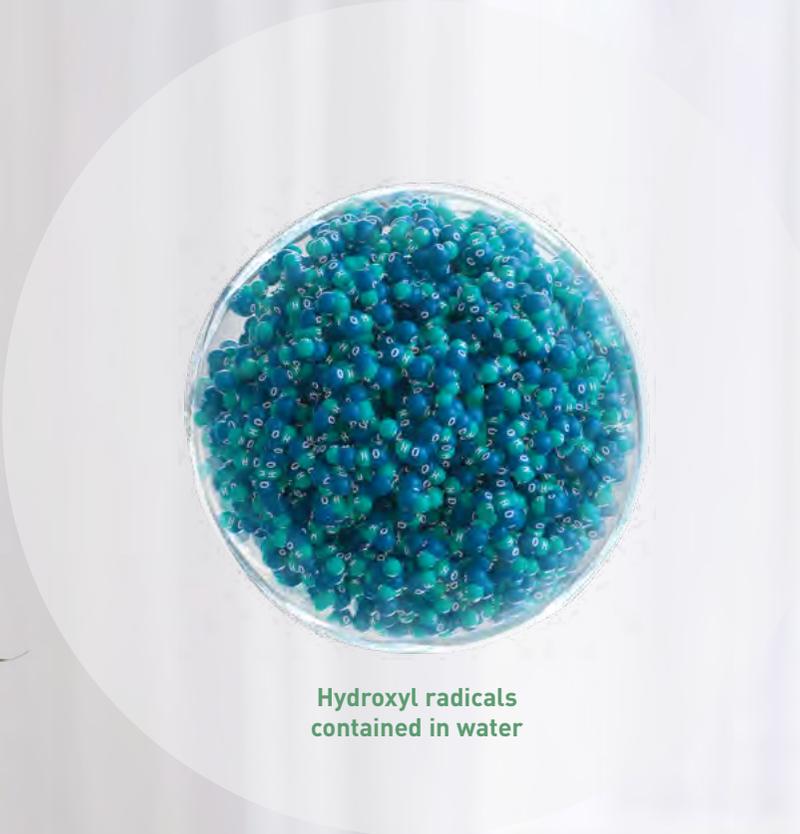
Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

	Tested contents	Generator	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Influenza (H1N1)	98,3% inhibited	30 m³	1,5 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2003WT8888-00889
		Bacteriophage ΦX174	99,2% inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
Airborne	Bacteria	Staphylococcus aureus	99,7% inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	24_0301_1
		SARS-CoV-2	91,4% inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
Airborne	Virus	SARS-CoV-2	99,9% inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Bacteriophage ΦX174	99,8% inhibited	Approx. 25 m³	8 h	Japan Food Research Laboratories	13001265005-01
Airborne	Virus	Xenotropic murine leukemia virus	99,999% inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Coxsackie virus (CA16)	99,9%inhibited	30 m³	4 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2002WT8888-00439
Adhering	Bacteria	Bacteriophage	98,81% inhibited	Approx. 139,3 m³	4 h	SGS Inc	SHES210901902584
		MS2 Phage Virus	99,99% inhibited	Approx. 25 m³	2 h	Shokukanken, Inc.	227131N
Adhering	Bacteria	Staphylococcus aureus	99,9% inhibited	20 m³	8 h	Danish Technological Institute	868988
		Pollen	Cedar pollen	99%inhibited	Approx. 24 m³	12 h	Panasonic Product Analysis Center
Adhering	Pollen	Ambrosia pollen	99,4% inhibited	20 m³	8 h	Danish Technological Institute	868988
		Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center
Odour intensity reduced 1,7 levels	Approx. 139,3 m³			0,5 h	SGS Inc	SHES210901902478	

Panasonic heat pump with nanoe™ X technology verified against SARS-CoV-2

Virus SARS-CoV-2: 91,4% inhibited. Test conducted by TEXCELL (France), using a gauze saturated with SARS-CoV-2 virus solution exposed to Panasonic heat pump with nanoe™ X in a space of 6,7 m³ over 8 hours. Test report: 1140-01 C3. Performance of nanoe™ X might differ in real life environment.

¹⁾ nanoe X Generator Mark 1: [Testing organisation] Panasonic Product Analysis Center [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m³) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 24 hours (4AA33-151001-F01). nanoe X Generator Mark 2: [Testing organisation] Panasonic Product Analysis Center; [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m³) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 12 hours confirmed (L19YA009). nanoe X Generator Mark 3: [Testing organisation] Panasonic Product Analysis Center [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m³) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 3 hours (H21YA017-1).



Hydroxyl radicals contained in water

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.



nanoe™ X reliably reaches pollutants.



Hydroxyl radicals denature pollutants' proteins.



Pollutants activity is inhibited.

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.



Flagship specially designed for the tough Nordic climate.

Thanks to its exceptional performance and reliability, it is one of the best-selling heat pumps in the Nordic region. Its efficiency helps to quickly reach a comfortable indoor temperature and keeps A+++ class.

Maximum heating capacity of 3,60 kW at -25 °C ¹⁾.

The HZ has exceptional maximum heating capacity even in low outdoor air temperature zones. What's more, even at low outdoor temperatures of -25°C, it delivers a maximum heating value that exceeds the nominal heating capacity. Heating capacity is reliable even at low outdoor temperatures.

Highly energy efficient for all your needs.

Flagship provides an exceptional level of comfort in any setting with a low energy cost, creating a pleasant environment without high costs. The heat pump technology allows for a highly energy efficient solution to ensure optimal heating and comfort year-round. A third party test at the Danish Technological Institute showed that the Flagship had the impressively high SCOP of 5,69. This means a great energy efficiency.

1) 2,5 kW model. 3,5 kW model up to -20 °C.



R32 refrigerant environmental friendly.

R32, an innovative refrigerant in all ways imaginable: it is easy to install, and compared to most other refrigerants it has a much lower environmental impact and saves energy. The result? Greater wellbeing for people and for the planet.





A+++



Advanced smart control and voice assistant

Panasonic has dedicated time and resources to developing intelligent technology to improve the experience and offer a range of benefits. Flagship is compatible with Panasonic Comfort Cloud App, which is designed to easily manage all system functions via your smart device.

1

Internet control.

Control and monitor your air conditioners anytime, anywhere.

2

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.

3

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.



Find out more about Panasonic Comfort Cloud App



Pre-heat or cool spaces



Weekly timer



Error notifications



Multi-unit control



Easier Wi-Fi setup.

The advanced built-in Wi-Fi setup enables secured and easier connection to Panasonic Comfort Cloud App by scanning the QR code.



Through the Panasonic Comfort Cloud App, Flagship units can also be connected to some of the leading voice assistants on the market to further optimise air conditioning standard without having to lift a finger.

* 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.





Technology for the ultimate comfort.

Introducing the Aerowings 2.0 to the Flagship range.

Panasonic's Aerowings technology consists of two independent flexible vanes that concentrate airflow 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 (72mm), which is more than doubled in size than other conventional designs, the ability to lift airflow has been further improved.



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



Aerowings 2.0 has a new 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.



Super Quiet technology.

With Super Quiet technology our devices are much more quiet than a library (18 dB(A)).

Fireplace function.

How does Fireplace function work?

This function increases the comfort at home and makes the use of the fireplace or other heat sources more efficient.

When the indoor unit is installed in a room with an additional heating appliance (fireplace, oven, etc), when the set temperature is reached, it automatically turns to fan mode to maintain a uniform temperature throughout the space.

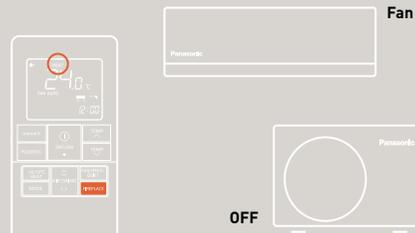
Step 1.

Automatically switches to fan mode when temperature is stable.

Heating mode + Fireplace.

* Heating mode condition (exclude Summer House mode).

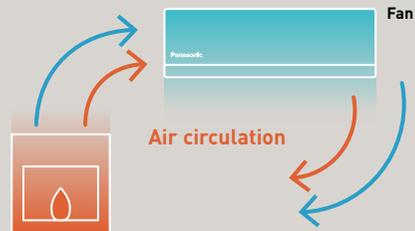
Set temperature +2 °C or higher



Step 2.

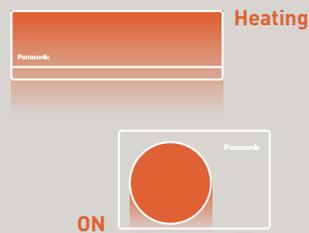
Circulate warm air from the fireplace throughout the space.

Airflow with thermo-off



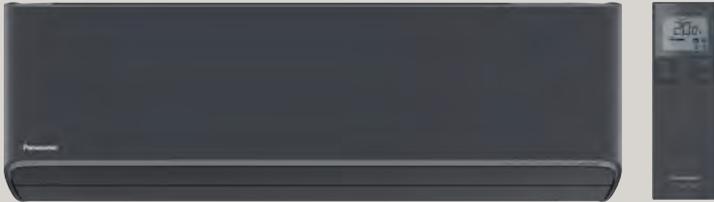
Step 3.

When the indoor temperature goes lower than the set temperature, the unit automatically switches to heating mode.



Sleek design with easy-to-use remote controller.

Panasonic has meticulously designed a new Flagship 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.



Graphite grey



White matt

Sleek design for optimal performance:

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

The easy-to-use remote controller features an ergonomic design with tapered rear housing for the most comfortable grip. The 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.







			7,50 kW	7,90 kW
Maximum capacity				
Indoor unit graphite grey			CS-HZ25ZKE-H	CS-HZ35ZKE-H
Indoor unit matt white			CS-HZ25ZKE	CS-HZ35ZKE
Outdoor unit			CU-HZ25ZKE	CU-HZ35ZKE
Heating capacity	Nominal (Min - Max)	kW	3,20 (0,85 - 7,50)	4,20 (0,85 - 7,90)
Heating capacity at -7 °C ¹⁾		kW	5,00	5,12
Heating capacity at -15 °C ¹⁾		kW	4,78	5,00
Heating capacity at -20 °C ¹⁾		kW	4,20	4,30
Heating capacity at -25 °C ¹⁾		kW	3,60	3,70
SCOP ²⁾			5,30 A+++	5,30 A+++
Input power	Nominal (Min - Max)	kW	0,57 (0,17 - 2,16)	0,84 (0,17 - 2,25)
Annual energy consumption ³⁾		kWh/a	845	1057
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,60)	3,50 (0,85 - 4,60)
SEER ²⁾			8,80 A+++	8,60 A+++
Input power	Nominal (Min - Max)	kW	0,46 (0,17 - 0,83)	0,80 (0,17 - 1,20)
Annual energy consumption ³⁾		kWh/a	99	142
Indoor unit				
Air flow in powerful mode	Heat / Cool	m ³ /min	15,7/12,4	15,7/14,1
Sound pressure ⁴⁾	Heat (Hi / Lo / Q-Lo)	dB(A)	45/24/18	45/25/18
	Cool (Hi / Lo / Q-Lo)	dB(A)	41/25/19	44/28/19
Dimension	H x W x D	mm	295 x 870 x 229	295 x 870 x 229
Net weight		kg	11	11
nanoe X Generator			Mark 3	Mark 3
Outdoor unit				
Air flow	Heat / Cool	m ³ /min	33,5/33,5	34,4/34,4
Sound pressure ⁴⁾	Heat — Cool (Hi / Lo)	dB(A)	47/44 — 46/43	50/47 — 48/45
Dimension ⁵⁾	H x W x D	mm	622 x 824 x 299	622 x 824 x 299
Operating range	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24
	Cool Min ~ Max	°C	+16 ~ +43	+16 ~ +43

Flagship can be also integrated in KNX, Modbus and BacNet projects.

Great flexibility for integration into your KNX, Modbus and BacNet projects allows fully bi-directional monitoring and control of all the functioning parameters.



Try the new Panasonic Augmented Reality projector



Find out the right capacity for your space



¹⁾ Capacity of the heat pump is tested with powerful mode with deice mode included. ²⁾ SCOP and SEER values are Panasonic Factory official result, 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.

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