

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.



Panasonic

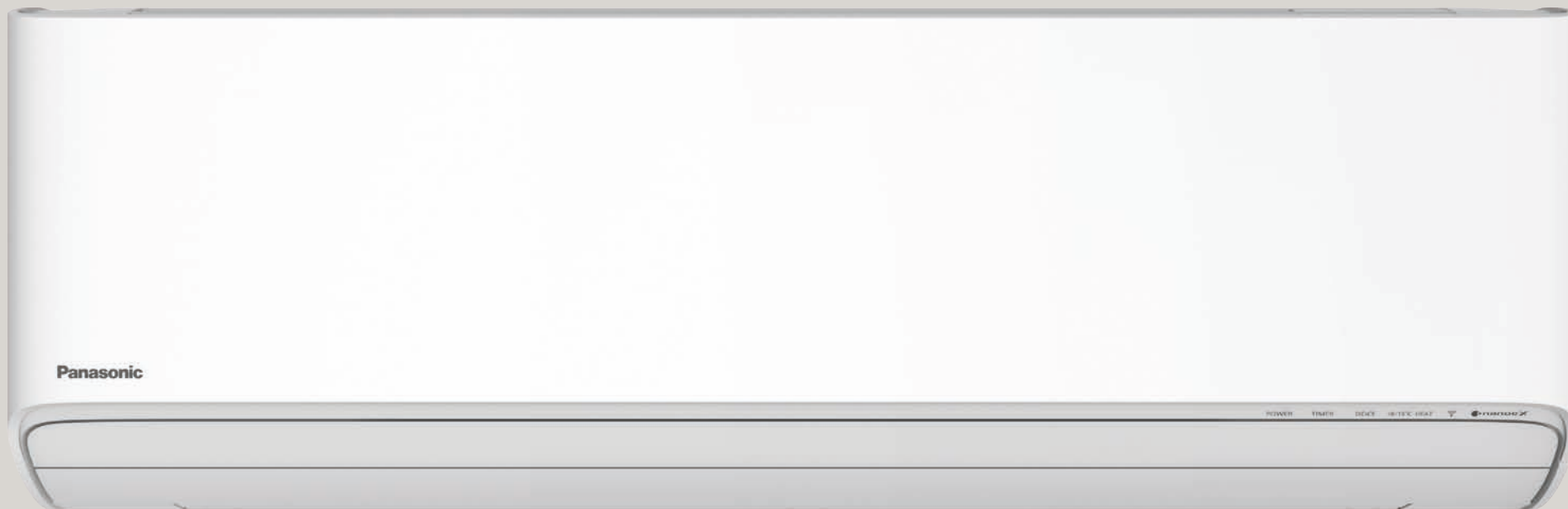
FLAGSHIP

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.



1

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

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

2

Air quality.

- nanoe™ X technology with the benefits of hydroxyl radicals
- Acts to clean your air, so that the indoor environment can be a cleaner and pleasant place to be all day long

3

Smart control.

- Integrated built-in Wi-Fi
- Advanced control via smartphone
- Compatible with Google Assistant and Amazon Alexa ²⁾

4

Ultimate comfort.

- Aerowings 2.0, end-to-end vanes enhance comfortable heating
- Super Quiet ambient

1) 2,5 kW model. 3,5 kW model up to -20 °C. 2) 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. More information about set up procedures: <https://aircon.panasonic.com/connectivity/application.html>.



5

Design.

- Stylish, monolithic design
- High class, easy-to-use remote control with backlight
- Available in classic white and graphite grey

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.

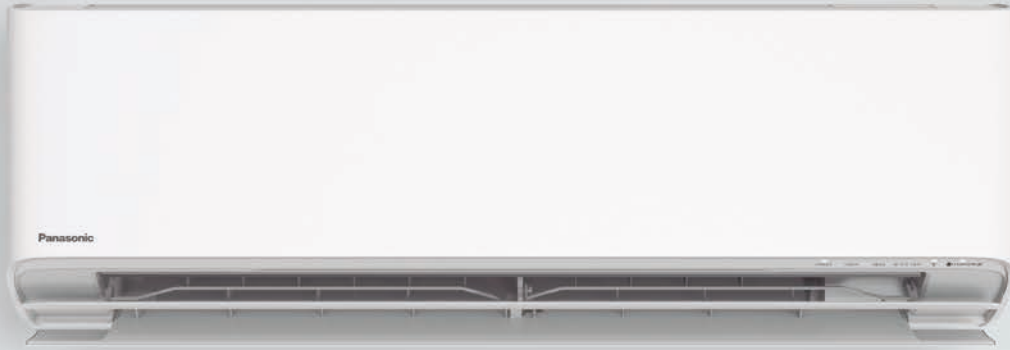
Anytime. Check energy consumption.

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



Deodorises



Odours



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances



Skin and hair

Capacity to inhibit 5 types of pollutants

Moisturises

Bringing nature's balance indoors

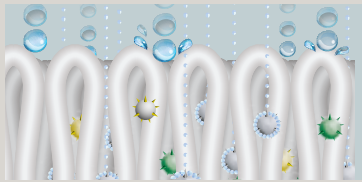


nanoe™ X, technology with the benefits of hydroxyl radicals

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.

What is unique about nanoe™ X?

Thanks to this advanced technology, even tightly woven fabrics can be treated using this solution, meaning that curtains, blinds, carpets and furniture can all benefit from this technology to inhibit hazardous substances – including on hard surfaces and, of course, the air that we breathe.



1 | Microscopic Scale. At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.



2 | Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.



3 | nanoe X Generator Mark 2 produces 9,6 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.



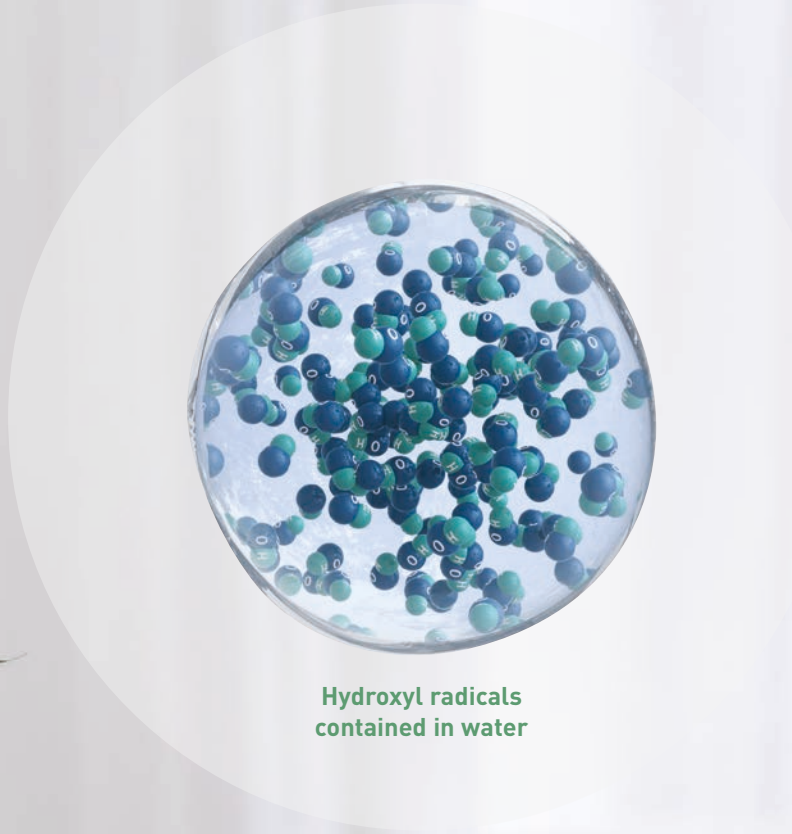
4 | Effective on fabrics and surfaces. No maintenance, no replacement required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titanium.

nanoe™ X, internationally-validated technology in testing facilities

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

	Tested contents		Result	Capacity	Time	Testing organisation	Report No.
AIRBORNE	Virus	Bacteriophage ΦX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
ADHERED	Virus	SARS-CoV-2	91,4 % inhibited	6.7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	99,9 % inhibited	45 L	2 h	Texcell (France)	1140-01 A1
	Virus	Feline Coronavirus	99,3 % inhibited	45 L	2 h	Yamaguchi University Faculty of Agriculture	-
		Xenotropic murine leukemia virus	99,999 % inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	-
		Influenza (H1N1 subtype)	99,9 % inhibited	1 m³	2 h	Kitasato Research Center for Environmental Science	21_0084_1
	Bacteria	Bacteriophage	99,80% inhibited	25 m³	8 h	Japan Food Research Laboratories	13001265005-01
		Staphylococcus aureus	99,9 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Ambrosia pollen	99,4 % inhibited	20 m³	8 h	Danish Technological Institute	868988
Cedar		97 % inhibited	Approx. 23 m³	8 h	Panasonic Product Analysis Center	4AA33-151001-F01	
Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04	

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



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

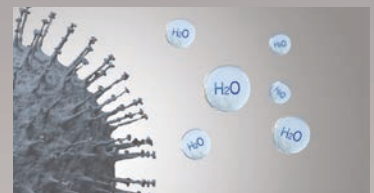
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



2 | Hydroxyl radicals denature pollutants' proteins.



3 | 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 a 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's Comfort Cloud app, which is designed to easily manage all system functions via your smart device.

Convenient centralised solutions.

The Panasonic Comfort Cloud Application enables you to conveniently manage and monitor multiple air conditioning units for homes from just one mobile device.

Smart control.

- Control multiple AC units in 1 location
- Control multiple units in multiple locations

Smart comfort.

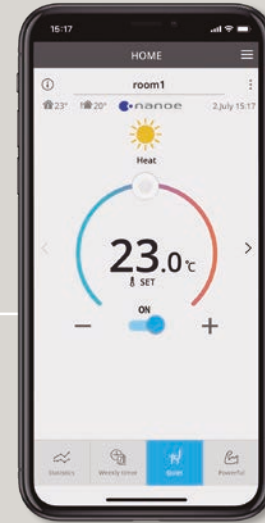
- Remotely access all AC features
- Activate 24-hour nanoe™ X
- Pre-cool spaces

Smart efficiency.

- Analyse energy usage patterns
- Compare usage history for better budget planning

Smart assist.

- Effortless troubleshooting
- Assign other users while you are away



Download on the App Store



GET IT ON Google Play



Through the 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.



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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.

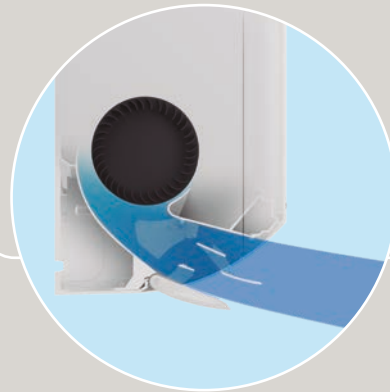
Thanks to the larger sub vane (72mm), which is more than doubled in size than other conventional designs, the ability to lift airflow has been further improved.



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 (18dB(A)).

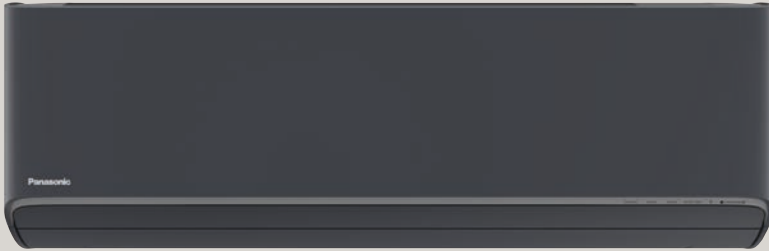


Sleek design with easy-to-use remote controller

Panasonic has meticulously designed a 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.

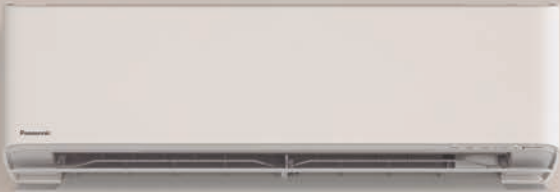
Sleek design for optimal performance:

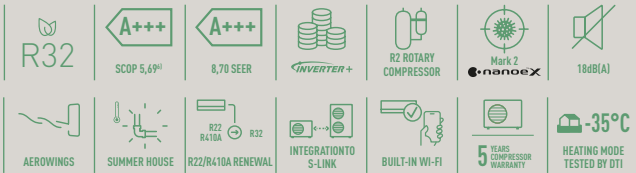
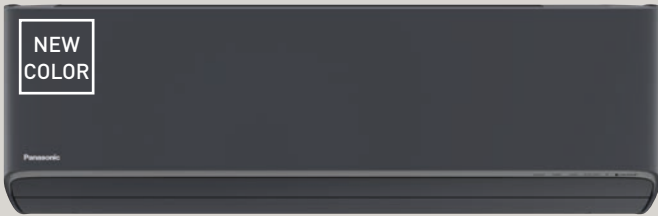
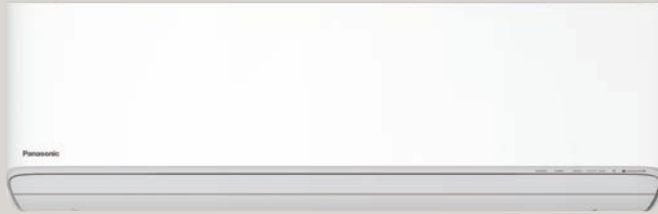
- Spatial fit and architectural impression achieved by end-to-end vane
- Large air discharge area & vane size exudes higher performance
- Compact, narrow design fits neatly on the wall
- Simplified, clean surface presents a timeless design



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.







Maximum capacity			7,50 kW	7,90 kW
Indoor unit white			CS-HZ25XKE	CS-HZ35XKE
Indoor unit graphite grey			CS-HZ25XKE-H	CS-HZ35XKE-H
Outdoor unit			CU-HZ25XKE	CU-HZ35XKE
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 heating	Nominal (Min - Max)	kW	0,57 (0,17 - 2,16)	0,84 (0,17 - 2,25)
Annual energy consumption ³⁾		kWh/a	792	1057
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)
SEER ²⁾			8,70 A+++	8,50 A+++
Input power cooling	Nominal (Min - Max)	kW	0,46 (0,17 - 0,67)	0,80 (0,17 - 0,99)
Annual energy consumption ³⁾		kWh/a	101	144
Indoor unit				
Air flow in powerful mode	Heat / Cool	m ³ /min	16,80 / 15,22	16,80 / 15,22
Sound pressure ⁴⁾	Heat (Hi / Lo / Q-Lo)	dB(A)	45 / 24 / 18	45 / 25 / 18
	Cool (Hi / Lo / Q-Lo)	dB(A)	44 / 25 / 20	44 / 28 / 20
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 2	Mark 2
Outdoor unit				
Air flow	Heat / Cool	m ³ /min	32,7 / 32,7	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

Confirmed operational data from third-party tests

SCOP ⁶⁾			5,69	5,62
Heating capacity at -20 °C ⁷⁾		kW	4,29	4,41
Operating range ⁸⁾	Heat Min	°C	-35	-35


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. 6) SCOP tested by the independent test laboratory DTI in accordance with EN 14825: 2018. 7) The capacity at -20 was tested by independent test laboratory DTI in accordance with EN 14511: 2018. 8) Tested by DTI, an independent test laboratory, in accordance with EN 14511: 2018. This temperature is not guaranteed by the factory.

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