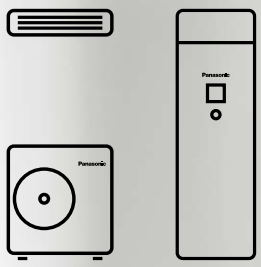
Panasonic

Aquarea EcoFleX
Naturally Efficient



AQUAREA

Aquarea EcoFleX — Naturally Efficient

Leveraging heat pump technology and our unique expertise, Panasonic has been working for many years to help realise a sustainable society and enrich people's lives. The wide range of Aquarea products makes possible optimum solutions that are tailored to individual lifestyles while offering outstanding environmental performance.

Aquarea EcoFleX: Heating, cooling and domestic hot water systems for a green future.

Adapts to your home

Energy saving means money savings

Adapts to your needs

More inside, more space for you

Panasonic

Aquarea EcoFleX is equipped standard with Wi-Fi to enable smart control and energy consumption monitoring.

Aquarea EcoFleX: 2-in-1 - Sustainable and efficient comfort all year long.

New Aquarea EcoFleX is a groundbreaking heat pump that connects an air ducted unit with nanoe™ X technology providing heat recovery hot water, space heating, space cooling and cleaner air. Outstanding efficiency and energy savings with low CO_2 emissions.

Smart Comfort

Smart convenience. Energy savings, comfort and control from anywhere. Wi-Fi adapters included for instant connectivity via Panasonic Comfort Cloud App, to enable smart control and energy consumption monitoring.

Download on the:

Download on the App Store

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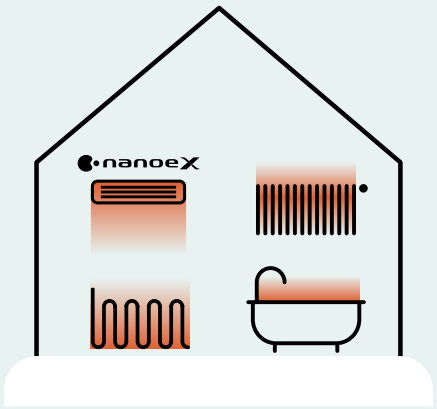
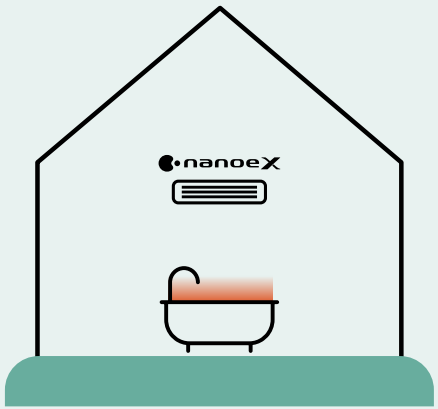
nanoe™ X technology to improve protection 24/7

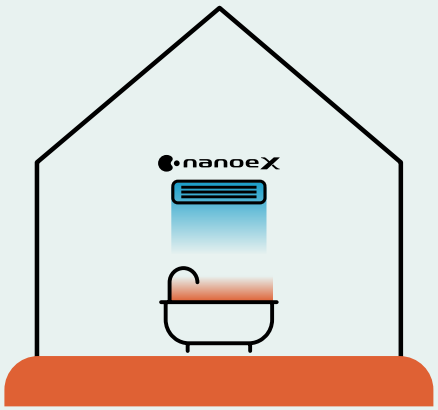
This advanced technology utilises hydroxyl radicals, which inhibit the growth of certain pollutants such as allergens, bacteria, viruses, moulds, odours, and certain hazardous substances. This naturally occurring process improves the protection inside a room 24/7.

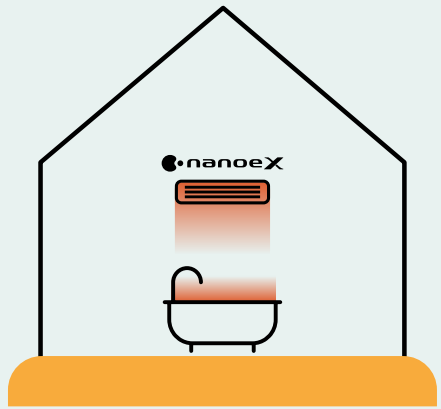
nanoeX

Aquarea EcoFleX
Savings and comfort all year long.

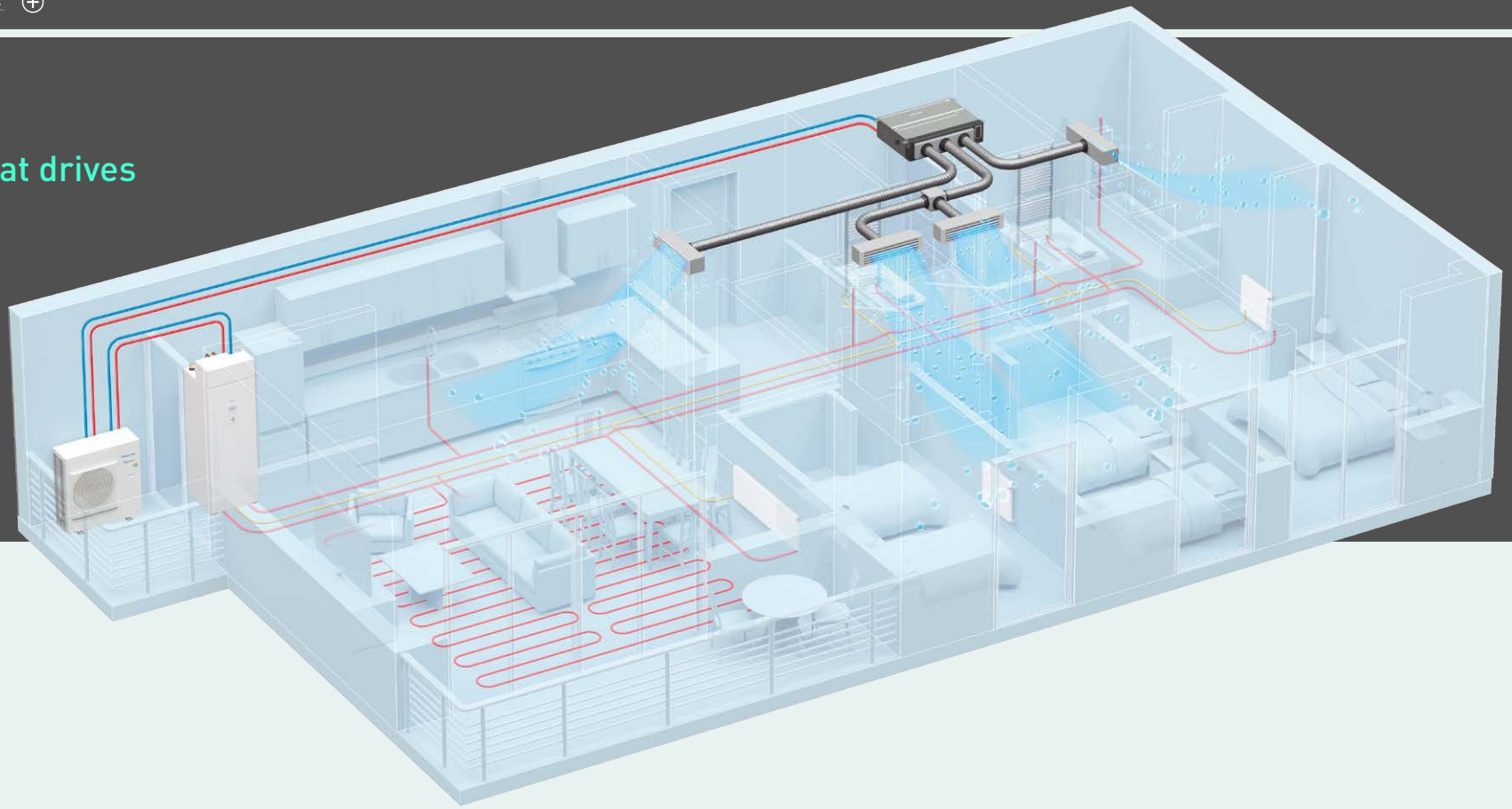




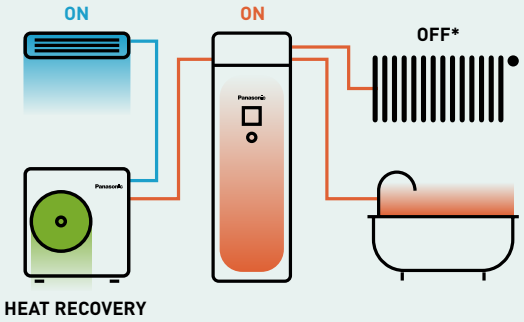




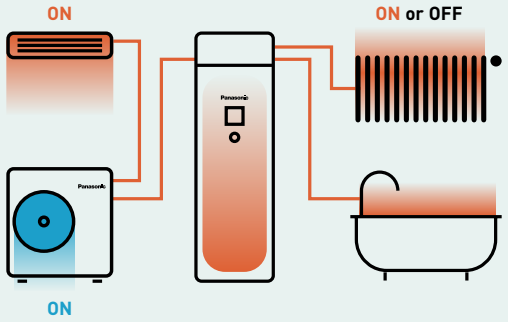
Aquarea EcoFleX
Unique technology that drives the system



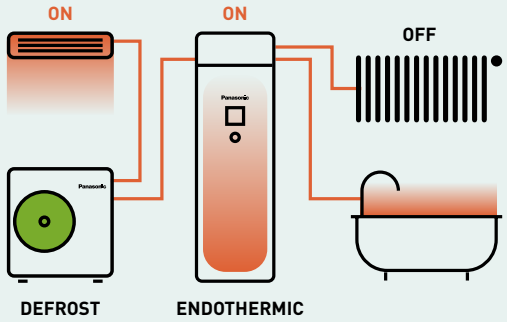
Heat recovery.
Cooling (Air) + Domestic Hot Water.
Heat exchange that took place in outdoor unit now is carried out in the water heater.



Bi-heating.
Heating (Air) + Heating (Radiators or Floor heating) or Domestic Hot Water.
Heat from the compressor is supplied for heating and Domestic Hot Water simultaneously.



Non-stop heating.
Heating (Air) continuous operation.
Use heat from tank to defrost and heat simultaneously.

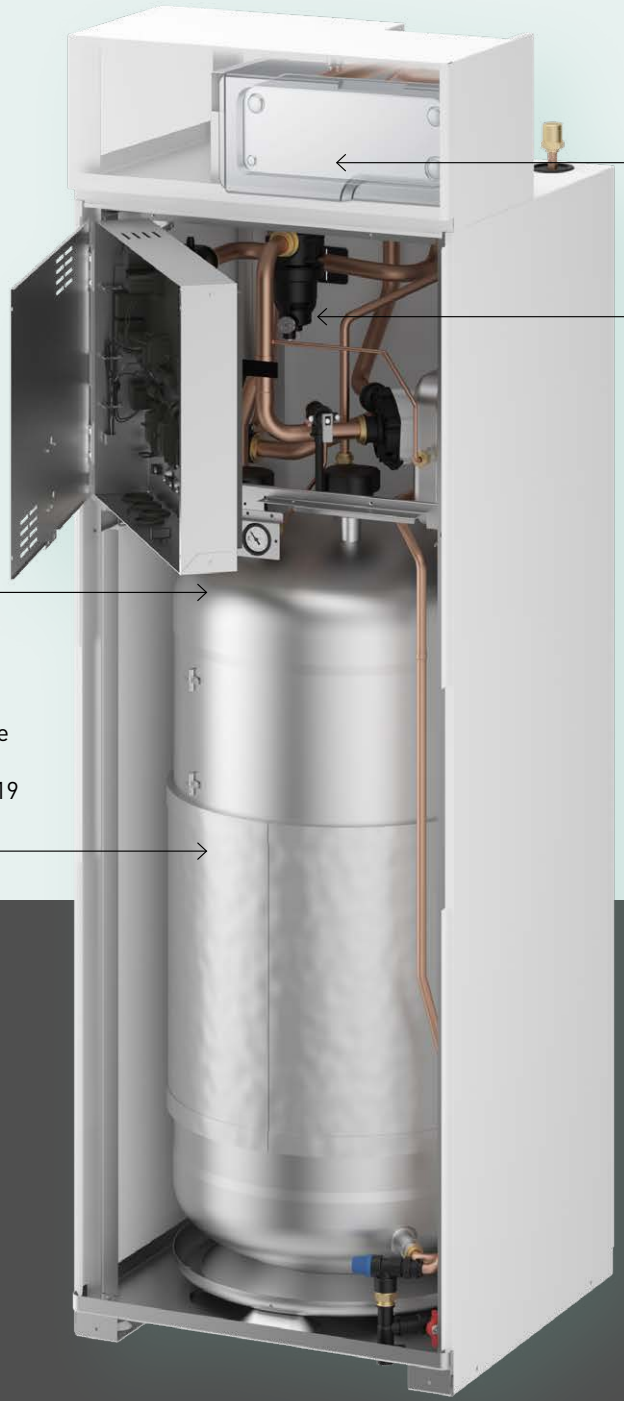


*Heat recovery is also possible with Cooling (air to air) + Heating (air to water)

Heat exchanger box structure to mitigate R32 refrigerant restrictions, flexible installation.
Water heat exchanger is designed above the top plate to comply with installation area regulation for products using large amounts of R32 refrigerant.

Improved water filter for less maintenance.
Superior dust removal capacity of the water filter. Less frequent filter cleaning means more convenience.

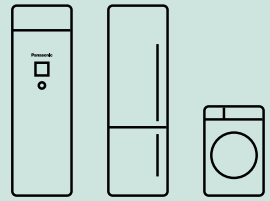
Maintained serviceability.
· Easy maintenance concept
· Access to hydraulic parts thanks to door opening mechanism
· No buffer tank required, reducing space, cost and installation time



Slim indoor unit with big tank capacity.
Built-in 185 L water tank in a slim deep: 600 mm / wide: 598 mm indoor unit housing.

U-Vacua insulation technology.
Panasonic U-Vacua™ is a high performance vacuum insulation panel with very low thermal conductivity, that performs about 19 times better than standard urethane foam.

Fits beautifully in any kitchen, small laundry space, or any other desired area.
The same depth as a regular refrigerator/ washing machine. Deep: 600 mm / Wide: 598 mm



Aquarea EcoFleX
Air to water. Compact, yet easy to maintain

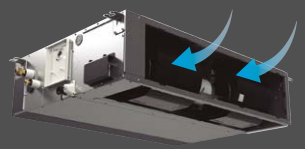
Tank unit + heat exchanger box to produce domestic hot water and space heating using radiators or floor heating.

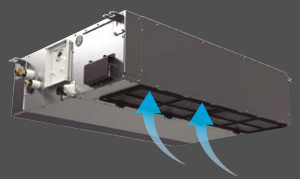
nanoeX

Superior air quality
Standard equipped with nanoe™ X, a unique technology that cleans indoor air.

Aquarea EcoFleX
Air heating or cooling and cleaner air

Aquarea EcoFleX ducted unit has been designed to provide better comfort and flexibility.





Selectable inlet air position
Inlet air position may be adjusted by means of a removable panel, to allow rear or bottom entry, depending on the duct installation.

Ideal for living spaces
- Static pressure level: 10 - 150 Pa
- Compact body: Only 250 mm high
- Rated up to SEER / SCOP class A++
- Low noise operation (22 ~ 29 dB(A))
- DC fan motor, built-in drain pump

Smart control ready via CONEX

CONEX

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.

Capacity to inhibit 5 types of pollutants

- Bacteria and viruses
- Mould
- Allergens
- Pollen
- Hazardous substances

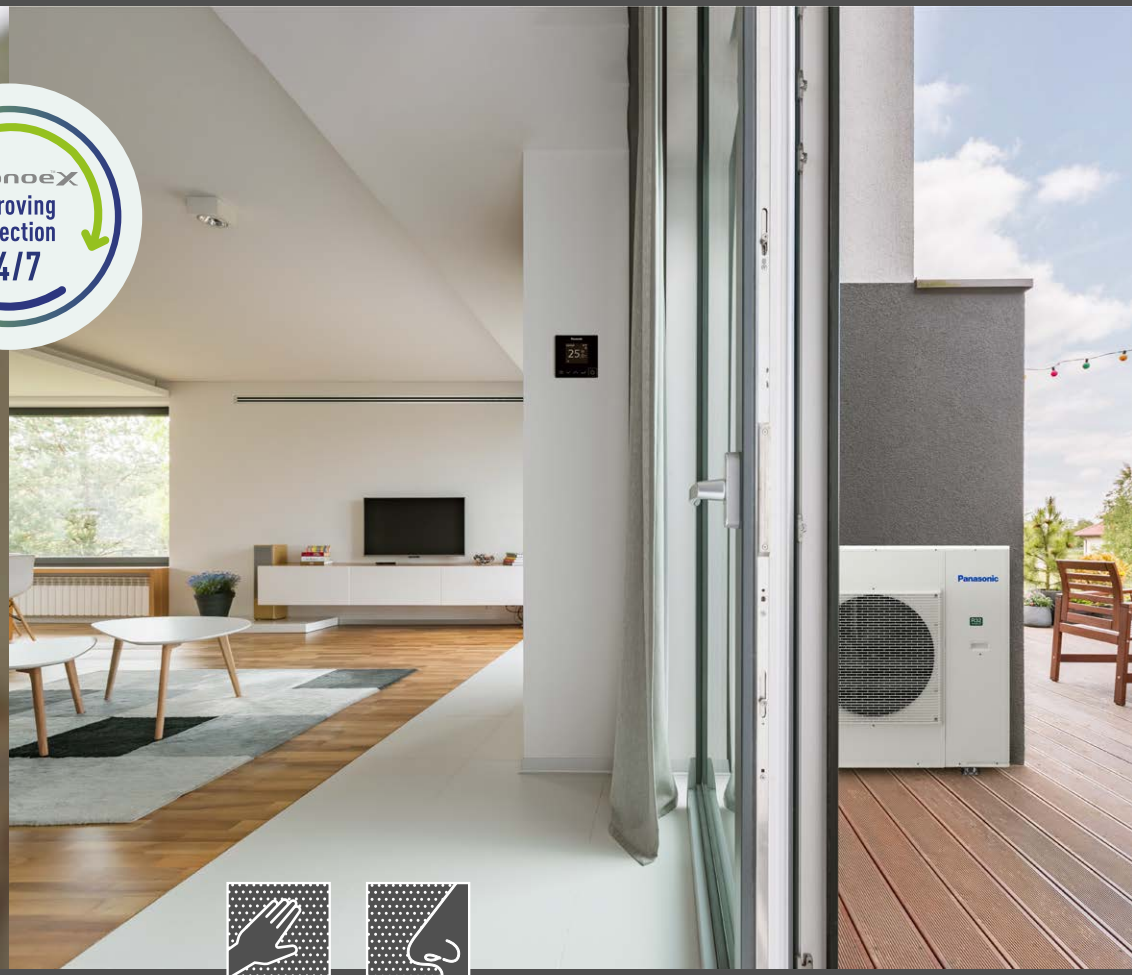
Deodorises

- Odours

Moisturises

- Skin and hair

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.



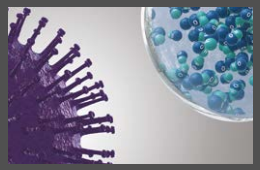
nanoe™ X: improving protection 24/7

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.

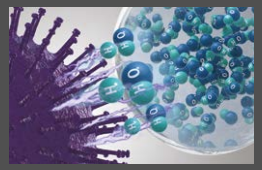
Bringing nature's balance indoors

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 more pleasant place to be.

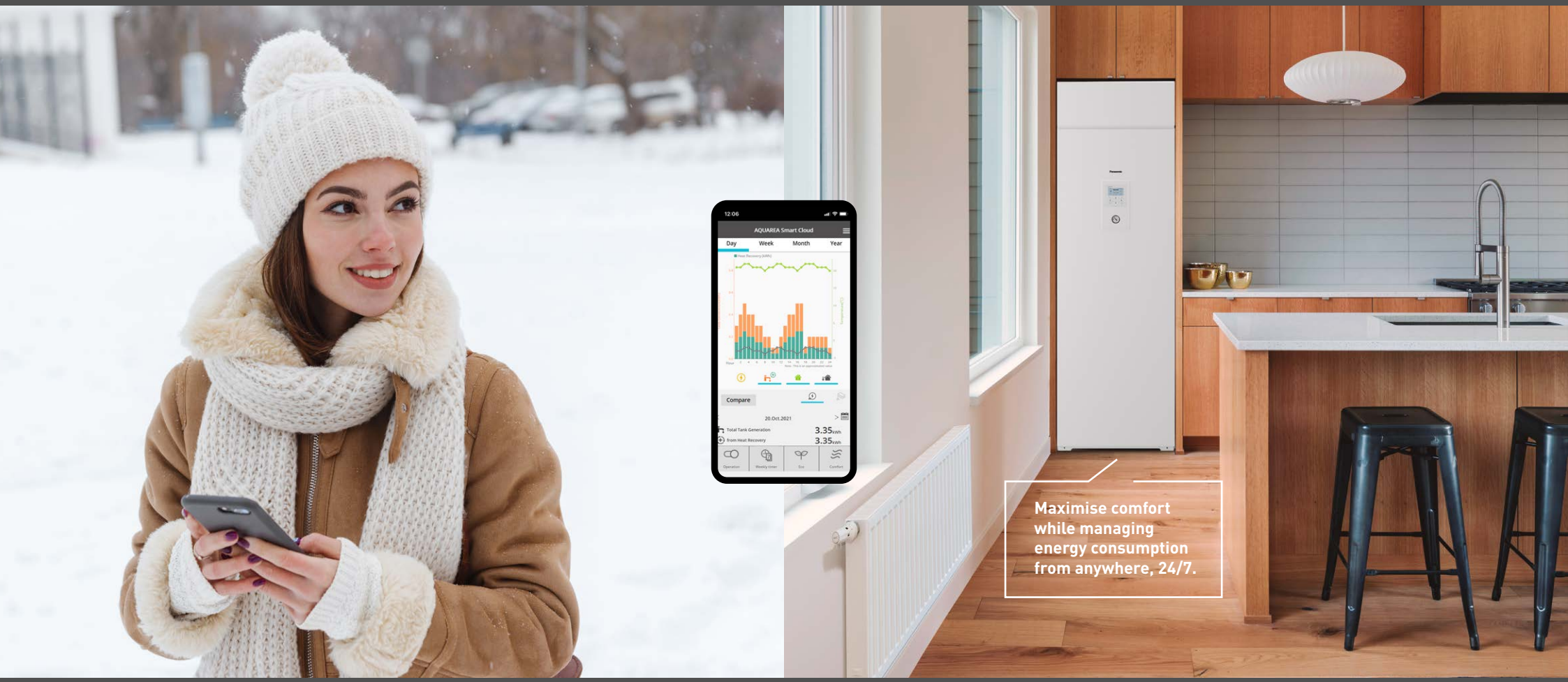


1 / nanoe™ X reliably reaches pollutants.



2 / Hydroxyl radicals denature pollutants' proteins.

3 / Pollutants activity is inhibited.



Panasonic Comfort Cloud App

Enhancing comfort and energy management, the advanced control enables to fully manage Aquarea EcoFleX heat pump, using a mobile device.

Heat recovery visualization

The energy consumption of the heat pump can be monitored, including the heat recovery for DHW production contributing to energy saving.

The real remote maintenance made simple

Aquarea EcoFleX can be connected to the Aquarea Service Cloud, enabling installers or service partners to take care of their customers' heat pump remotely.

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Aquarea EcoFleX: The peak of comfort, efficiency and low energy costs

R32

Refrigerant gas R32
Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP).

A++ ErP 55°C

Better efficiency and value for medium temperature applications.
Energy efficiency class up to A++ in a scale from A+++ to D.

A++ ErP 35°C

Better efficiency and value for low temperature applications.
Energy efficiency class up to A+++ in a scale from A+++ to D.

A+ DHW

Better efficiency and value for domestic hot water.
Energy efficiency class up to A+ in a scale from A+ to F.

INVERTER+

Inverter Plus.
Panasonic Inverter Plus compressors are designed to achieve outstanding level of performance.

A CLASS WATER PUMP AUTO SPEED

A class water pump.
Aquarea are built-in with A class energy efficiency water pump. High efficiency circulating the water in the heating installation.

-15 °C HEATING MODE

Down to -15 °C in heating mode.
The heat pumps work in heating mode with an outdoor temperature is as low as -15 °C.

DHW

Better efficiency and value for domestic hot water.
Energy efficiency class up to A+ in a scale from A+ to F.

WATER FILTER WITH MAGNET

Water filter with magnet.
Easy access and fast clip technology for J Generation. Water filter only for H Generation.

FLOW SENSOR

Water flow sensor.
Included on J and H Generation.

HEAT RECOVERY PORT

Heat Recovery Port.

5 YEARS COMPRESSOR WARRANTY

5 years compressor warranty.
We guarantee the outdoor unit compressors in the entire range for five years.

ADVANCED CONTROL

Advanced control.
Remote controller with full dotted 3,5'' wide back light screen. Menu with 17 available languages easy to use for installer and user. Included on J and H Generation.

INCLUDED WI-FI

Included Wi-Fi adapter.
A next generation system providing user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone, tablet or PC via the internet.

SG Ready Smart Heat Pumps

Aquarea J and H Generation heat pumps in combination with the optional PCB CZ-NSP4 hold the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Warmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control.

Why Panasonic?

Panasonic has more than 60 years of Heat Pump experience, having produced an exceptional amount of compressors. Quality is what Panasonic stands for and this is a key factor for succeeding in the European market.
As a member of the European Heat Pump Association, the production of Aquarea in Europe and maintaining high security protocols in European servers for the Aquarea Smart Cloud, makes Panasonic a trusted heating partner.

Aquarea EcoFleX Technical Data

Air to water **WH-ADF0309J3E5CM**	Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	8,00 / 4,21
	Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	8,00 / 2,81
	Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	6,70 / 3,25
	Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	6,00 / 2,08
	Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	5,60 / 2,84
	Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	5,30 / 1,91
	Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	—
	Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	—
	Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,00 / 3,20 (157 / 125)
		Energy class [1]	A+++ to D	A++ / A++
	Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	5,69 / 3,69 (224 / 145)
		Energy class [1]	A+++ to D	A+++ / A++
	Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	3,61 / 2,80 (141 / 109)
		Energy class [1]	A+++ to D	A+ / A+
	Sound pressure	Heat / Cool	dB(A)	28 / —
	Dimension / Net weight	H x W x D	mm / kg	1880 x 598 x 600 / 108
	Capacity of integrated electric heater		kW	3,00
	Water volume		L	185
	Maximum DHW temperature		°C	65
	Heating water flow (ΔT=5 K. 35 °C)		L/min	22,90
	Tapping profile according EN16147			L
	DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A / A+ / A
	DHW tank ERP average climate η / COPdhw		ηwh % / COPdhw	104 / 2,60
	DHW tank ERP warm climate η / COPdhw		ηwh % / COPdhw	134 / 3,35
	DHW tank ERP cold climate η / COPdhw		ηwh % / COPdhw	92 / 2,30
	Heat recovery capacity (DHW 55 °C)		kW	7,10 + 9,00
	Heat recovery input power (DHW 55 °C)		kW	3,15
	Heat recovery COP (DHW 55 °C)			5,11
	Water outlet		°C	20 ~ 55
Air to air **S-71WF3E**	Cooling capacity	Nominal	kW	7,10
	EER [3]	Nominal	W/W	3,40
	SEER [4]			**5,60 A+**
	Pdesign (cooling)			7,10
	Heating capacity	Nominal	kW	7,10
	COP [3]	Nominal	W/W	3,90
	SCOP [4]			**3,90 A**
	Pdesign at -10 °C		kW	4,80
	External static pressure [5]		Pa	30 (10 - 150)
	Air flow		m^3/min	22,7
	Sound pressure [6]	Cool / Heat (Hi)	dB(A)	34 / 34
	Sound power [7]	Cool / Heat (Hi)	dB(A)	57 / 57
	Dimension / Net weight	H x W x D	mm / kg	250 x 1000 x 730 / 30
	nanoe X Generator			Mark 2
Outdoor unit **CU-2WZ71YBE5**	Sound pressure	Cool / Heat (air to air)	dB(A)	49 / 49
	Sound power [7]	Cool / Heat (air to air)	dB(A)	68 / 67
	Sound pressure	Heat (air to water)	dB(A)	51
	Sound power [8]	Heat (air to water)	dB(A)	61
	Dimension / Net weight	H x W x D	mm / kg	999 x 940 x 340 / 82
	Refrigerant (R32) / CO_2 Eq.		kg / T	2,40 / 1,62
	Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)
	Pipe length range / Elevation difference (in / out)		m / m	35 / 30
	Pipe length for additional gas / Additional gas amount		m / g/m	30 / 20
	Operating range - outdoor ambient	Heat (air to air)	°C	-15 ~ +24
		Cool (air to air)	°C	-10 ~ +46
		Heat (air to water)	°C	-15 ~ +35
		Heat recovery (floor / DHW)	°C	+10 ~ +35 / +10 ~ +46

nanoe™ X as a standard.

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) EER and COP calculation is based in accordance to EN14511. 4) SEER and SCOP is calculated based on values of EU/626/2011. 5) Medium external static pressure setting from factory. 6) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) Sound power is measured in accordance with EN14511 and EN12102-1:2017 at +7 °C. 8) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C.

Panasonic

heating & cooling solutions

More about Panasonic Heating & Cooling Solutions

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