Panasonic

AQUAREA

NEW AQUAREA HIGH PERFORMANCE MONO-BLOC J GENERATION

The compact, high performance heat pump for new installations and low energy homes

heating & cooling solutions

R32
NEW REFRIGERANT GAS

Panasonic

AQUAREA MONO BLOC J GENERATION PROVIDES BOTH DOMESTIC HOT WATER AND HEAT FOR RADIATORS AND UNDERFLOOR HEATING FROM ONE COMPACT OUTDOOR UNIT.

Adapts to your home

The Aquarea High Performance monobloc range is extremely flexible. Selecting from a range of capacities, from 5kW to 9kW, you can find lower initial investment and lower operational cost options. If you have a well insulated home, why install oversized equipment that will cost more and will have higher running costs?
The range fully adapts the system to the needs of your home, whether it is a new build or a refurbishment, as it is able to reach up to 60°C water outlet.

Heat Pump, 80% of energy for free

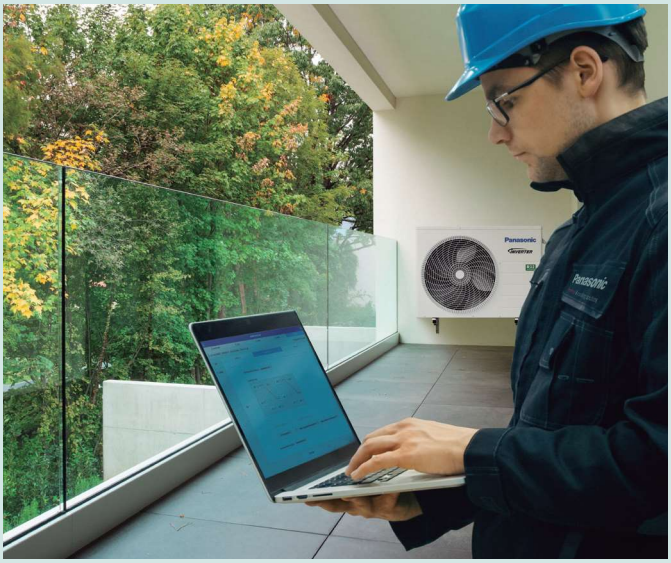
Based on Air to Water heat pump technology, Aquarea is highly efficient and environmentally friendly. It captures heat energy from the ambient air and transfers it to heat the water needed to warm your home, for domestic hot water and even to cool the house if wished. In this way, up to 80% of the heat energy required is taken from the ambient air - even in extremely low temperatures.

More comfort

The Aquarea Heat Pump is able to precisely control the temperature thanks to reliable Panasonic Inverter Compressors. Even in adverse weather conditions (-20°C), Aquarea warms your home effectively and efficiently. Aquarea can also cool space in summer and bring hot water all year round, offering different modes to give the ultimate comfort.

Space-saving solution

Aquarea High Performance Monobloc is the ideal space-saving solution for any home as the unit does not require a separate hydrokit inside. Additionally, thanks to the unit's neat design, all refrigerant is sealed in the compact outdoor unit, leaving only water pipes needed inside the property. For further space-saving ideas, combine Aquarea Monobloc with a Combo tank, which incorporates the DHW with a buffer tank.



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.

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AQUAREA MONO-BLOC J GENERATION. MORE SAVINGS, MORE EFFICIENCY AND MORE COMFORT.

The New Aquarea Monobloc J generation heat pump is easy to install on new or existing installations, in all types of properties.
For a house with low temperature radiators or under-floor heating, our high performance Aquarea heat pump is a good solution. This solution can work as a stand-alone unit or can be combined with an existing gas- or oil-fired heating system depending on requirements.

- High heating and cooling capacities, even at low outdoor temperatures
- A single outdoor unit with outstanding efficiency
- No hydrokit needed
- For new installations and low energy homes
- Outstanding efficiency and minimised CO_2 emission
- Optional Smartphone control
- Operation in cooling mode at outdoor temperatures as low as 10 °C

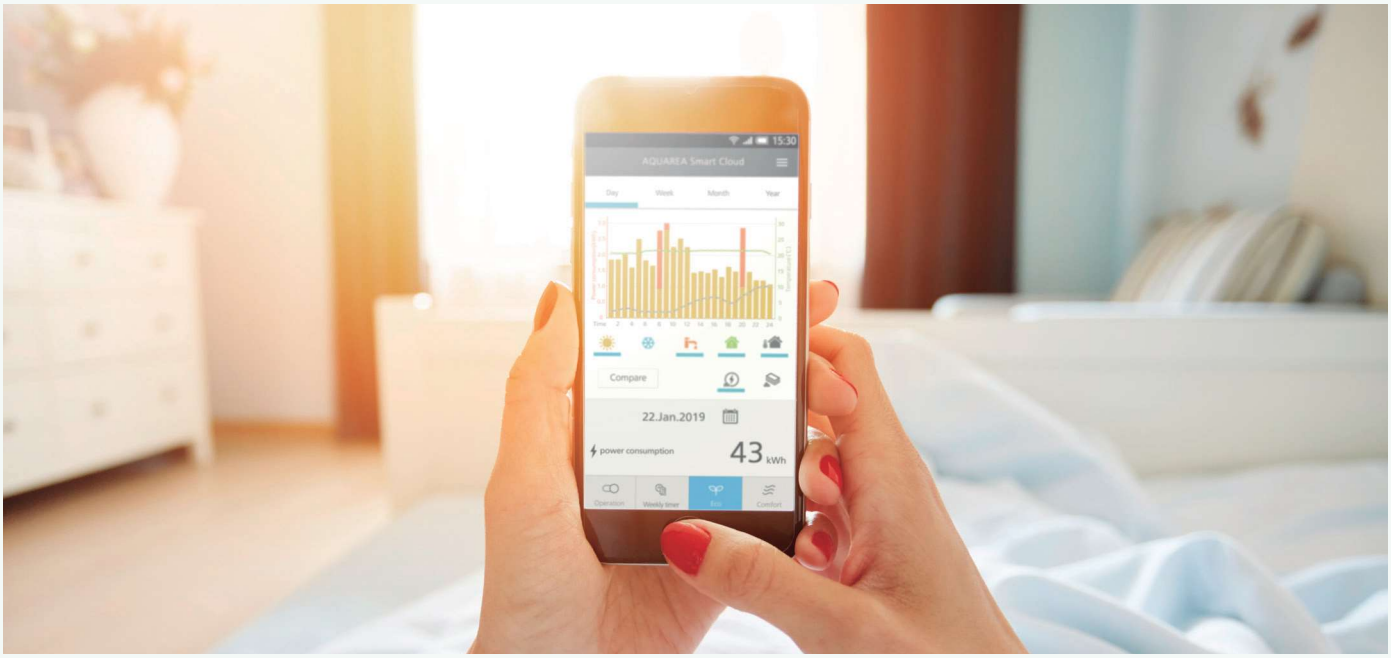
Technology for the future

R32 Refrigerant Gas: A 'small' change that changes everything
Panasonic recommends R32 because it is a more environmentally friendly solution. Compared to R22 and R410A, R32 has a very low potential impact on the depletion of the ozone layer and global warming.

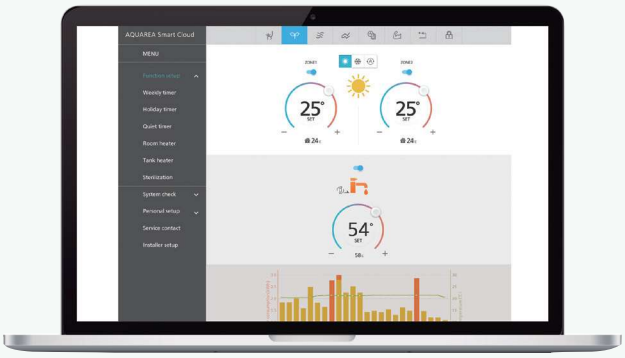
1. Installation innovation
- This refrigerant is 100% pure, which makes it easier to recycle and reuse

2. Environmental innovation
- Zero impact on the ozone layer
- 75% Less impact on global warming vs R410A

3. Economic and energy consumption innovation
- Lower cost and greater savings
- Higher energy efficiency than R410A



AQUAREA SMART CLOUD: THE MOST ADVANCED HEATING CONTROL FOR TODAY AND FOR THE FUTURE.



WATCH DEMO

Aquarea Smart Cloud for end users

Easy and powerful energy management

The Aquarea Smart Cloud is much more than a simple thermostat for switching a heating device ON or OFF. It is a powerful and intuitive service for remotely controlling the full range of heating and hot water functions, including monitoring energy consumption.

How does it works?

Connect Aquarea J and H Generation system to the cloud using wireless LAN or a wired LAN Network. The user connects to the Cloud portal to remotely operate all unit functions and can also permit partners to access customised functions for remote maintenance and monitoring.

Aquarea Smart Cloud works with IFTTT

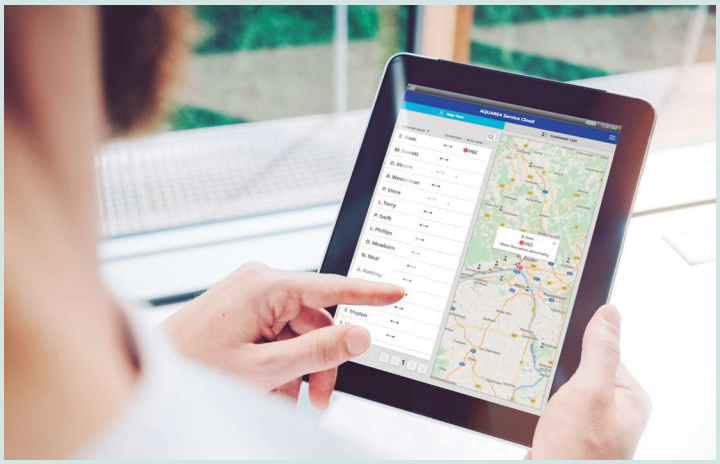
Aquarea Comfort Cloud connected to IFTTT is planned to be available in Autumn 2019

Aquarea Service Cloud for installers and maintenance

The real remote maintenance made simple: The Aquarea Service Cloud allows installers to remotely take care of their customer's heating system, saving time and money. It also shortens the response time, increasing customer satisfaction.

Advanced functions for remote maintenance with professional screens:

· Global view at a glance
· Error log history
· Full unit information
· Statistics always available
· Most settings available



* User interface image may change without notification.

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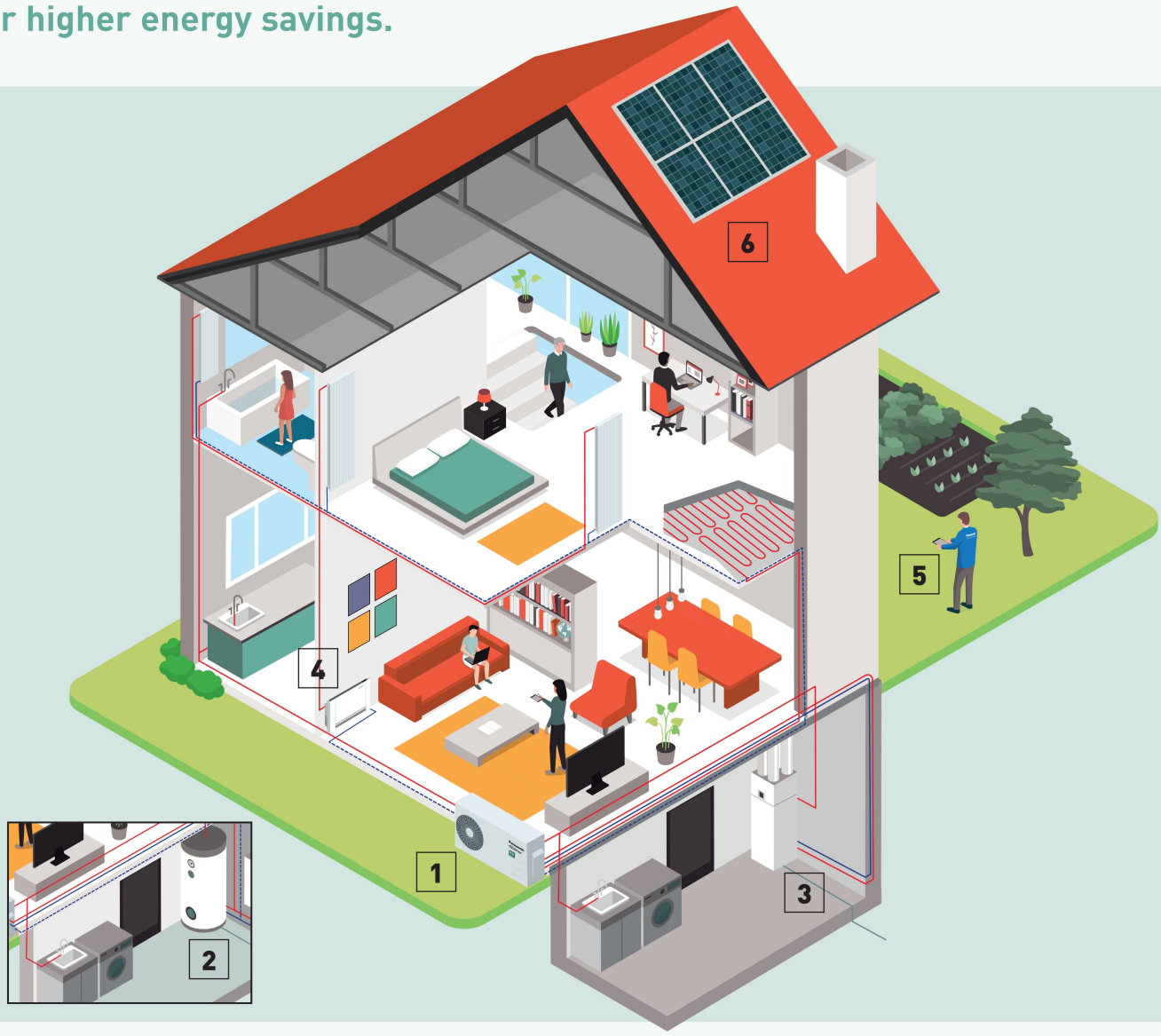
Combine Aquarea Mono-bloc with a high efficiency opcional accessories for higher energy savings.



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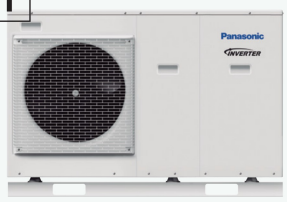


Mono-bloc system.

2

DHW Tanks (optional)
Stainless Steel Tank.

3

Heat Recovery Ventilation + DHW Tank (optional).

4

Fan coils for heating and cooling (optional).

5

Control through smartphone, tablet or computer (optional, requires CZ-TAW1).

6

Heat Pump + HIT Photovoltaic solar panel (optional).

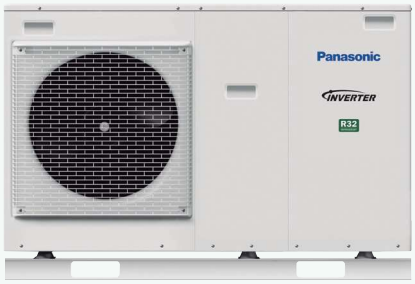
Anti-freeze valve
(Optional, PAW-A2W-AFVLV).

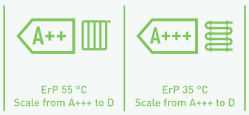
Wired LCD room thermostat with weekly timer (optional, PAW-A2W-RTWIRED).

Wireless LCD room thermostat with weekly timer (optional, PAW-A2W-RTWIRELESS).

New Aquarea High Performance Mono-bloc J Generation Single Phase. Heating and Cooling - MDC • R32 refrigerant

- Optional Smartphone control
- Maximum hydraulic module output temperature: 60 °C
- High heating and cooling capacities, even at low outdoor temperatures
- Works at temperatures as low as -20 °C
- Operation in cooling mode at outdoor temperatures as low as 10 °C
- Built-in magnet filter for easy installation





CZ-TAW1
Cloud connection. For user control and installer remote maintenance.

			Single Phase Heating and Cooling		
Outdoor unit			**WH-MDC05J3E5**	**WH-MDC07J3E5**	**WH-MDC09J3E5**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	5,00 / 5,08	7,00 / 4,76	9,00 / 4,48
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	5,00 / 3,01	7,00 / 2,82	8,95 / 2,78
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	5,00 / 3,57	7,00 / 3,40	7,45 / 3,13
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	5,00 / 2,27	6,30 / 2,16	7,00 / 2,12
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	5,00 / 2,78	6,80 / 2,81	7,50 / 2,63
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	5,00 / 1,85	6,30 / 1,86	7,00 / 1,80
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	5,00 / 3,31	7,00 / 3,06	9,00 / 2,71
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	5,00 / 5,05	7,00 / 4,73	9,00 / 4,25
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)		ηs %	202 / 142	193 / 130	193 / 130
		SCOP	5,12 / 3,63	4,90 / 3,32	4,90 / 3,32
Energy class heating average climate (W35 °C / W55 °C)		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating warm climate (W35 °C / W55 °C)		ηs %	237 / 165	227 / 160	227 / 160
		SCOP	6,00 / 4,20	5,75 / 4,07	5,75 / 4,07
Energy class heating warm climate (W35 °C / W55 °C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating cold climate (W35 °C / W55 °C)		ηs %	160 / 115	164 / 116	164 / 116
		SCOP	4,08 / 2,95	4,18 / 2,98	4,18 / 2,98
Energy class heating cold climate (W35 °C / W55 °C)		A+++ to D	A++ / A+	A++ / A+	A++ / A+
Sound power part load [1]	Heat	dB(A)	59	59	59
Sound power full load	Heat / Cool	dB(A)	64 / 65	68 / 67	69 / 68
Dimension	H x W x D	mm	865 x 1283 x 320	865 x 1283 x 320	865 x 1283 x 320
Net weight		kg	99	104	104
Refrigerant (R32) / CO_2 Eq. [2]		kg / T	1,3 / 0,878	1,3 / 0,878	1,3 / 0,878
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
Pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed
	Input power (Min / Max)	W	34 / 96	36 / 100	39 / 108
Heating water flow (ΔT=5 K. 35 °C)		L/min	14,3	20,1	25,8
Capacity of integrated electric heater		kW	3	3	3
Input Power	Heat	kW	0,985	1,47	2,01
	Cool	kW	1,51	2,29	3,32
Running and Starting current	Heat	A	4,7	7,0	9,3
	Cool	A	7,0	10,5	14,7
Current 1		A	12	17	17
Current 2		A	13	13	13
Recommended fuse		A	30 / 15	30 / 15	30 / 16
Recommended cable size, supply 1 / 2		mm²	3 x 1,5 / 3 x 1,5	3 x 2,5 / 3 x 1,5	3 x 2,5 / 3 x 1,5
Operation range (outdoor temperature)	Heat	°C	-20 ~ 35	-20 ~ 35	-20 ~ 35
	Cool	°C	10 ~ 43	10 ~ 43	10 ~ 43
Water outlet	Heat	°C	20 ~ 60	20 ~ 60	20 ~ 60
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20

Accessories (optional)	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50L

Accessories (optional)	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat
PAW-A2W-AFVLV	Anti-freeze valve.

1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. 2) WH-MDC models are hermetically sealed.
EER and COP calculation is based in accordance to EN14511. * Available in May 2020.