



Aquarea T-CAP Hydraulic All in One M Series

100% hydraulic solution for domestic hot water, heating and cooling from an integrated compact unit for a space-saving solution.

1. Employs natural refrigerant R290 with GWP 3
2. Up to 75°C water outlet down to -15°C outdoor
3. Aquarea T-CAP, high performance whatever the climate: Keeping heating capacity down to -20°C at 35°C water outlet. / Reliable outdoor units with Panasonic compressor, operating down to -28°C outdoor
4. Quiet operation: Only 29dB(A) sound pressure at 5m*
5. Compatible with Panasonic Comfort Cloud App and Aquarea Service Cloud

* Sound pressure calculation for WH-WXG12ME5, free standing, A +7°C, W 35°C in Quite mode 3



AQUAREA

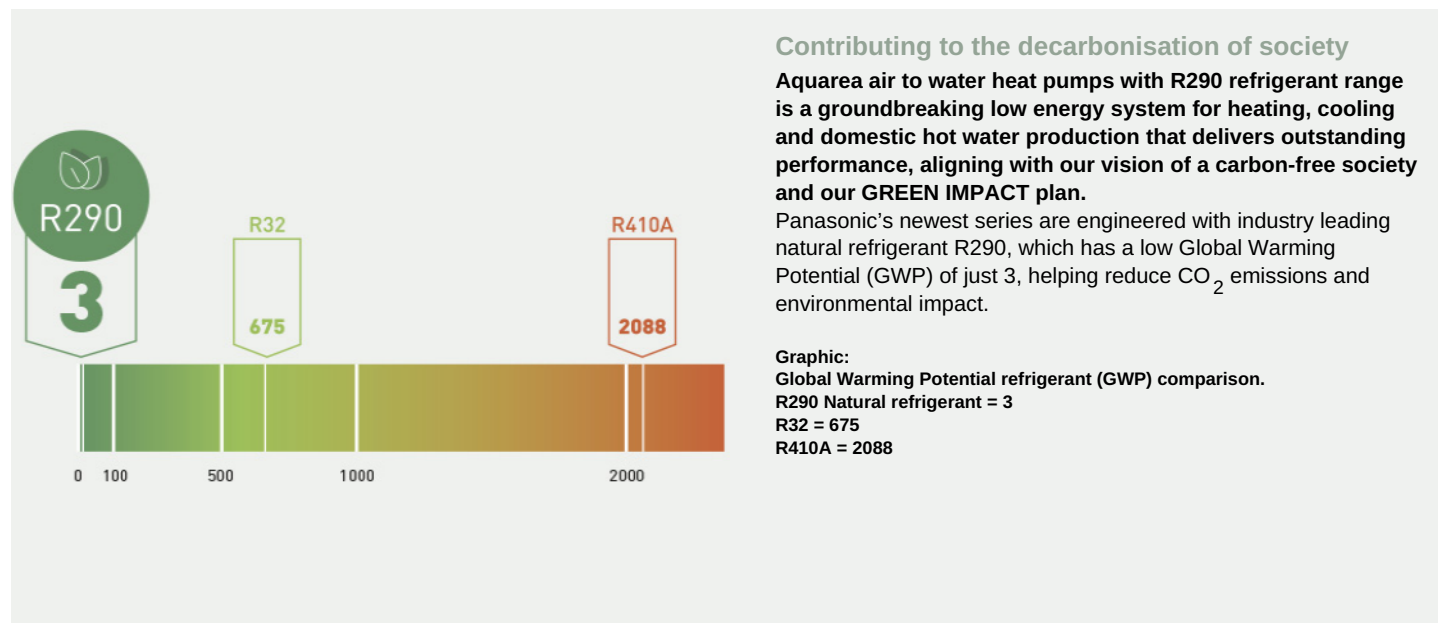
R290

A++

A+++

A+

A revolution in design, efficiency and connectivity



Introducing T-CAP, M Series the latest generation of Aquarea air to water heat pumps with R290

Flexible installation, suitable for retrofit and new buildings.

Thanks to its new, modular concept, the outdoor unit can function independently with just an indoor remote control, for those seeking basic functionalities. Homeowners can opt for enhanced functionality by incorporating the more advanced control module or selecting between the range of indoor units.



A revolution in design

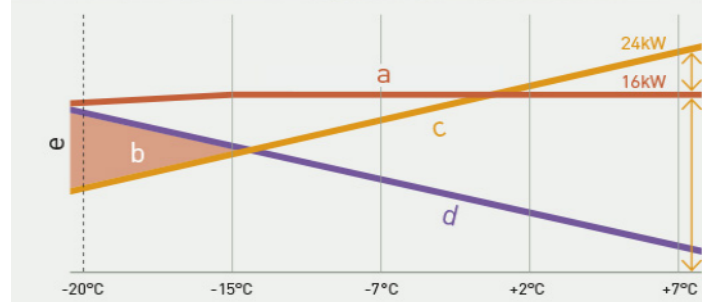
The outdoor unit. With an anthracite grey colour which dresses the entire range, is designed to harmonize with architecture and the environment with a quiet operation.

The indoor unit. Designed to blend into your interior space effortlessly. In premium white, faithful to the Aquarea spirit, underlined by the seamlessly integrated controller which provides a sleek black band across the unit.

* Awards for 9, 12 and 16kW Models (Single and Three phase)



Aquarea T-CAP, high performance whatever the climate



Aquarea T-CAP, high performance whatever the climate

Aquarea T-CAP outdoor units are highly reliable thanks to the quality of all components, including the new compressor with injection technology, developed and manufactured by Panasonic, that can work in outdoor temperatures as low as -28°C.

Specially designed to work under severe outdoor conditions, Aquarea T-CAP can work in outdoor temperatures as low as -28°C and maintain the rated heating capacity even at -20°C ¹⁾ outdoor temperature, without requiring an electrical heater.

1) At 35 °C flow temperature.

a. Aquarea T-CAP Heat Pump. b. Backup heater. c. Standard heat pump. d. Required heating load. e. Power (kW)

Other heat pumps may require oversizing plus additional backup heater support.

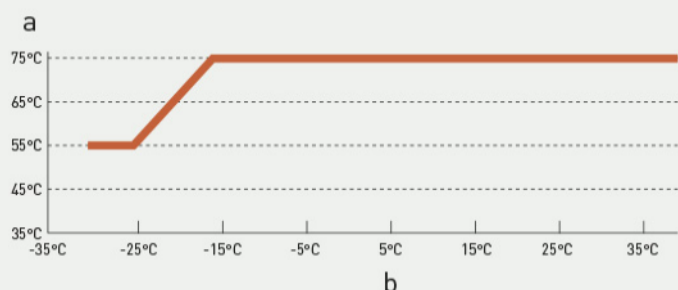
For retrofit and new buildings

The wide Aquarea T-CAP range ensures the most appropriate choice for your home - whatever the size.

Aquarea T-CAP easily replaces old boilers or manages bivalent installations and is ideal for supplying radiators, fan coils or underfloor heating up to 75°C, even at -15°C outside.

It can even supply hot water at 55°C when the outside temperature is -28°C.

a. Water temperature. b. Outdoor temperature.



High energy efficiency in heating and domestic hot water

The Aquarea M Series saves energy and significantly reduces operating cost by achieving the highest ErP energy rating. Aquarea M Series can reach a domestic hot water temperature of up to 65°C without the use of the electric heater, so the tank sterilization can be performed with the heat pump operation for further energy savings.

* Rating conditions: Heating: Inside air temperature: 20°C Dry Bulb / Outside air temperature: 7°C Dry Bulb / 6°C Wet Bulb. Conditions: Water input temperature: 30°C / Water output temperature: 35°C. Energy rating for WH-WXG12ME8.

High energy rank for domestic hot water.

Energy efficiency class up to A+ in a scale from A+ to F.

High energy rank for low/medium temperature applications.

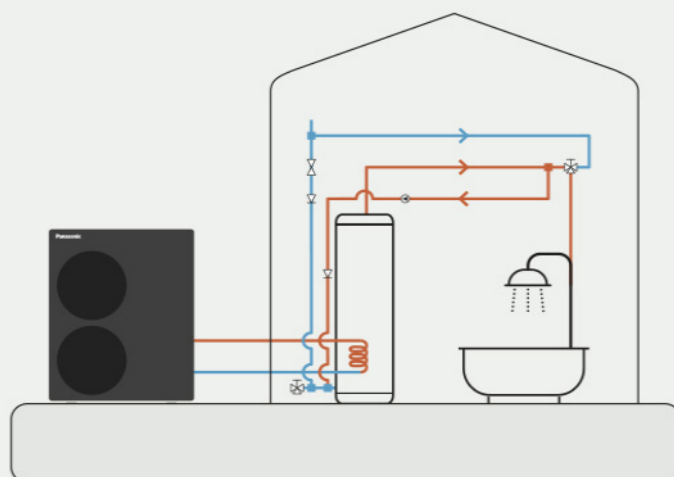
ErP 35°C / 55°C.

Energy efficiency class up to A+++/A++ in a scale from A+++ to D.

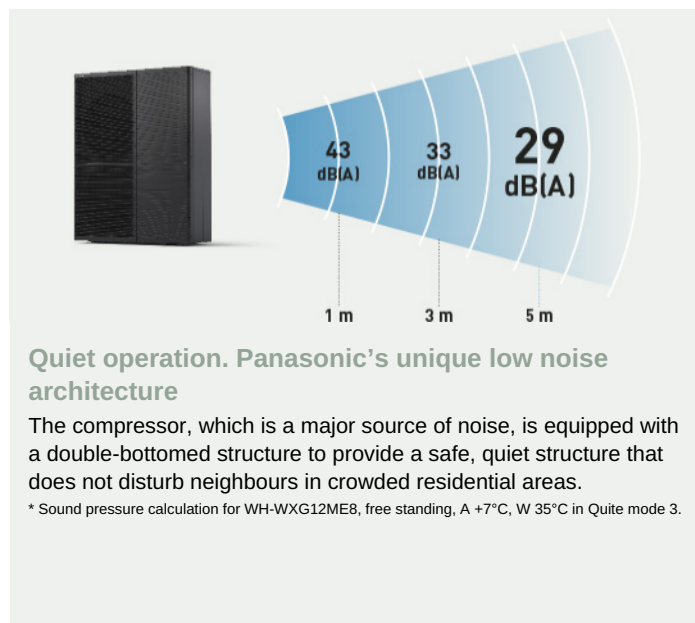
Maximising hot water comfort

- Up to 40% more tap water with a higher tank temperature setting to save space
- New domestic hot water circulation mode for instant availability of hot tap water
- During sterilisation, the domestic hot water circulation mode is activated to ensure sterilisation of the water pipes

The hot water in the pipes recirculates back to the tank at set intervals during the set time period, ensuring instant hot water for the end user.



Harmony between technology and home



Flexible hydraulic installation

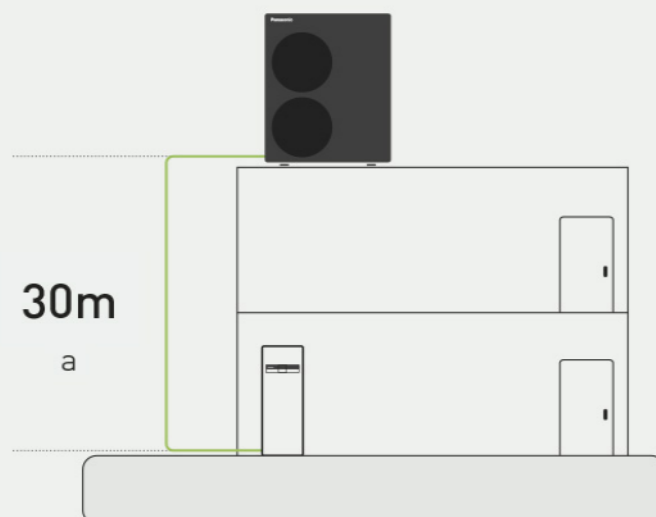
The installation of the system is 100% hydraulic, with only water pipes between the outdoor unit and the interior of the home.

More living space at home.

No indoor safety measures needed for refrigerant or fuel gas piping.

No F-gas certification required

a: Maximum height difference between outdoor unit and indoor unit.



Reliable technology

Aquarea T-CAP M Series outdoor units are equipped with a Panasonic R290 scroll compressor with injection technology, manufactured in-house, that can work in outdoor temperatures as low as -28°C.

The outdoor heat exchanger is protected with a Bluefin treatment for harsh ambient conditions.

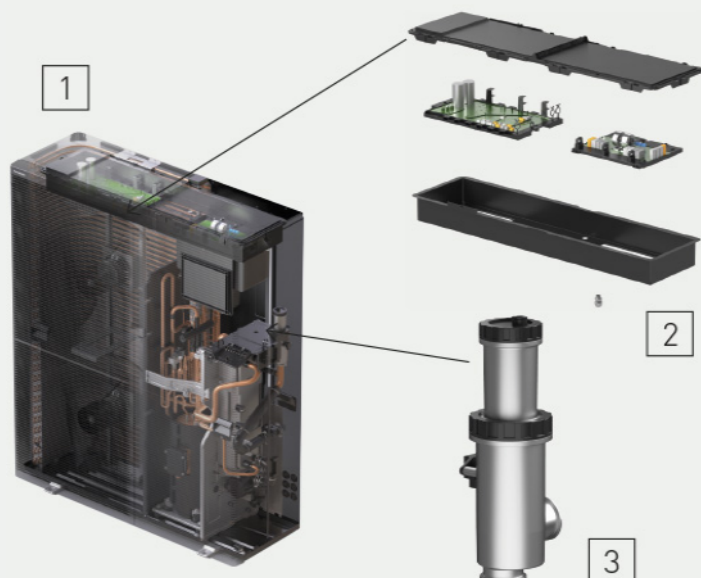
Great serviceability

Cutting-edge outdoor unit design keeps the PCB in a safe and accessible location.

Aquarea M Series safety optimisation.

- 1) Non-flammable control box
- 2) Power box cable gland with sealed connections
- 3) Air/refrigerant separator

* This image applies to 9, 12 and 16kW.



Aquarea All in One Hydraulic M Series. The ultimate space-saving solution



Premium white indoor units

The indoor unit is designed to blend into your interior space effortlessly. In premium white, faithful to the Aquarea spirit, underlined by the seamlessly integrated controller which provides a sleek black band across the unit.

599x602mm footprint reduces required installation space

Up to 40% more tap water with a higher tank temperature setting

No buffer tank required, reducing space, cost and installation time

Aquarea All-in-One M series: the best Panasonic technology

1. Great serviceability.

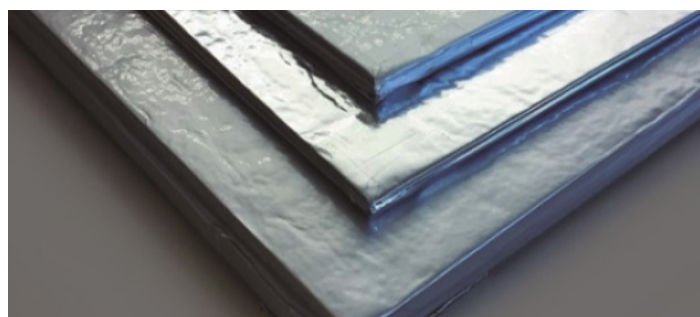
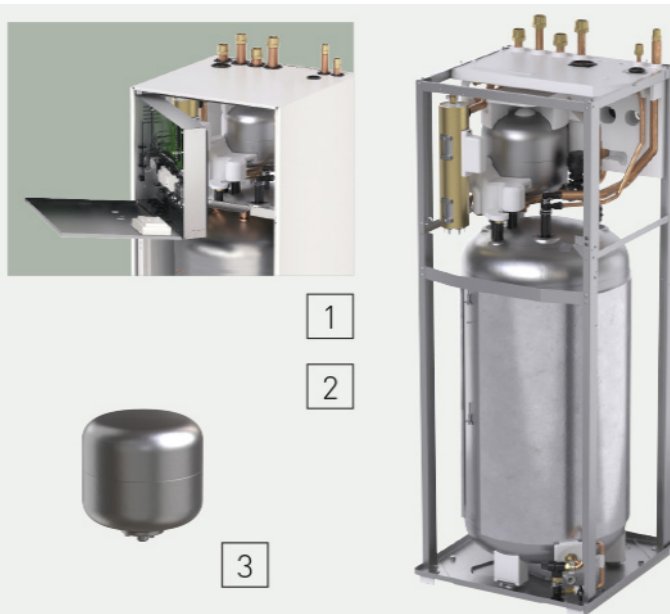
- Easy access to hydraulic part thanks to door opening mechanism
- All sensors can be checked from the remote controller
- Water pressure sensor and reading on home-screen

2. Other high quality components inside.

- Maintenance free Inox stainless 185l tank
- Variable speed water pump ("A class")
- Backup heater
- 3 way valve inside

3. Extended elevation difference (up to 30m).

With the new expansion vessel, the All in One M Series allows a high indoor/outdoor height difference of up to 30m.



U-Vacua™; Vacuum insulation panel

Significant energy savings with world-leading insulation performance

U-Vacua™ VIPs consist of a unique fiberglass core encased in a laminate film made up of several layers that include nylon, aluminium, and a protective layer. Interior pressure is reduced to a vacuum of 1-20Pa, thereby minimising thermal conductivity.



Aquarea All in One with Electrical Anode

The All in One with built-in impressed current anode is the ideal solution for installations in locations with harsh water conditions.

Aquarea M Series gives you even more



Remote controller designed in harmony

Remote controller designed in harmony with the whole system, with optimised user interface and improved features.

Smart bivalency: Cost effective bivalent mode with power tariff logic.

Optimised user interface: Each touch point designed in harmony, with optimised user interface across the range.



Dual controller system

A dual controller system, for independent control of two zones, within the home.

a: Zone 1: 18°C - b: Zone 2: 20°C.



BMS integration

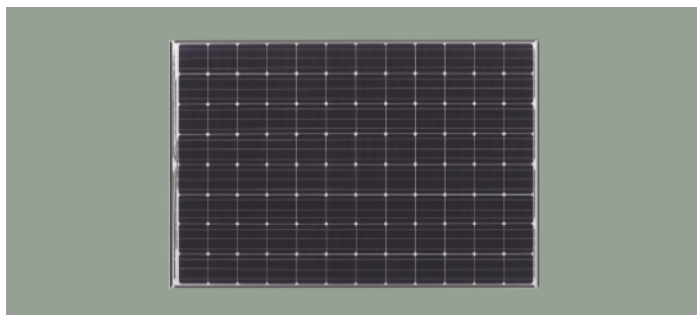
Aquarea heat pumps can be integrated into Modbus or KNX projects with an optional accessory, allowing comprehensive bi-directional monitoring and control of all operating parameters.



Ventilation unit on top for a low-energy house

Heat recovery ventilation units are ideal for homes, for these owners who are looking for high performance and maximum comfort.

Combine the Residential ventilation unit with Panasonic Aquarea for an space saving and highly efficient solution for heating, cooling, ventilation and DHW.



Aquarea + PV panels

Aquarea heat pumps can synchronise with PV panels, using the optional PCB CZ-NS5P or CZ-NS4P. Thanks to this feature, demand of heating, cooling and domestic hot water production is adapted to the PV panel production.

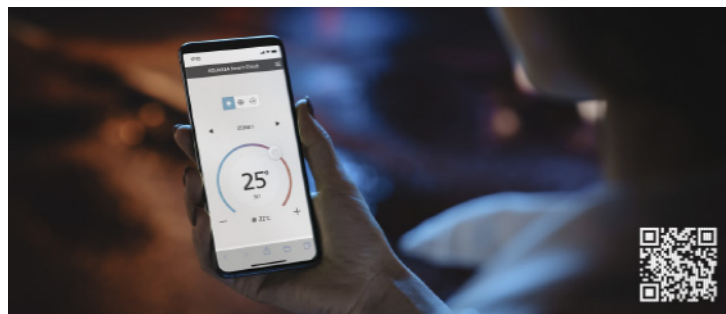


Smart Grid Ready

Aquarea heat pumps in combination with the optional PCB CZ-NS5P or CZ-NS4P hold the SG Ready function, allowing the heat pump to be connected in an intelligent grid control.

*J series or later

Home connectivity and energy management systems



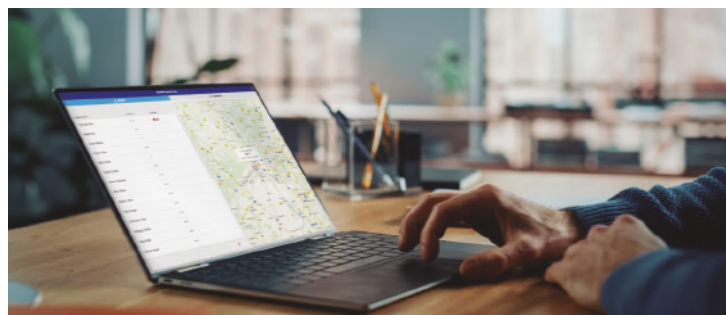
Panasonic Comfort Cloud App

The IoT solution for your heating and cooling systems to help maximize comfort while managing energy consumption.

The Panasonic Comfort Cloud App enables you to conveniently manage and monitor the Aquarea range of heating, cooling and hot water functions from just one mobile device. Also, energy monitoring is possible allowing opportunity to learn how to reduce the operating cost even more.

Included internet adapter for Wi-Fi and LAN connection

<https://demo.aquarea-smart.panasonic.com>

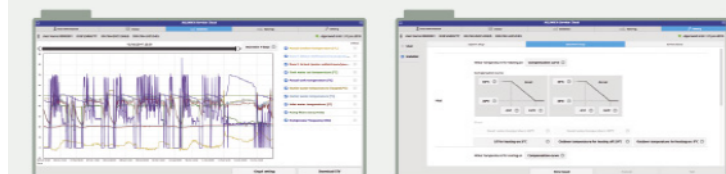


Aquarea Service Cloud

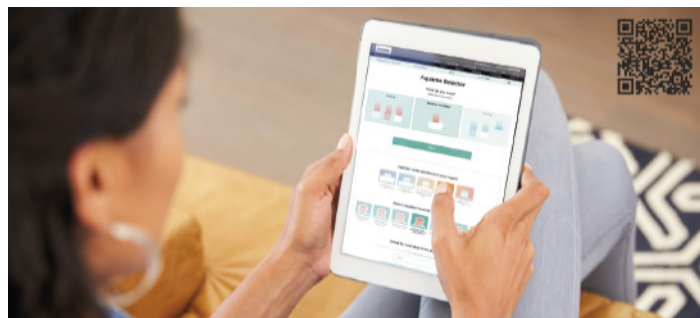
The real remote maintenance made simple.

Aquarea Service Cloud is an advanced service that allows your service provider to take care of your heating system remotely. It saves time and money and offers the quickest service and solutions for your heat pump.

Accurate monitoring and maintenance expands the system's lifespan and guarantees a higher Return On Investment for your heat pump.

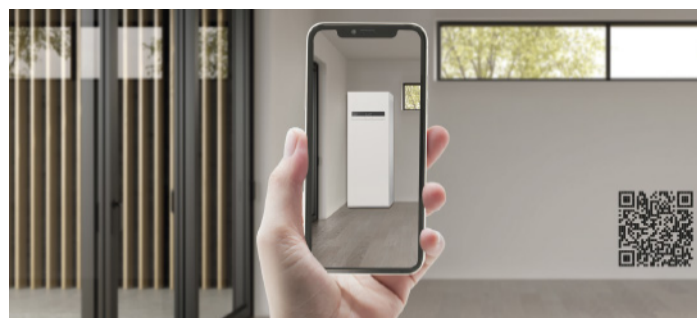


Convenience and support

**Aquarea Quick Selector**

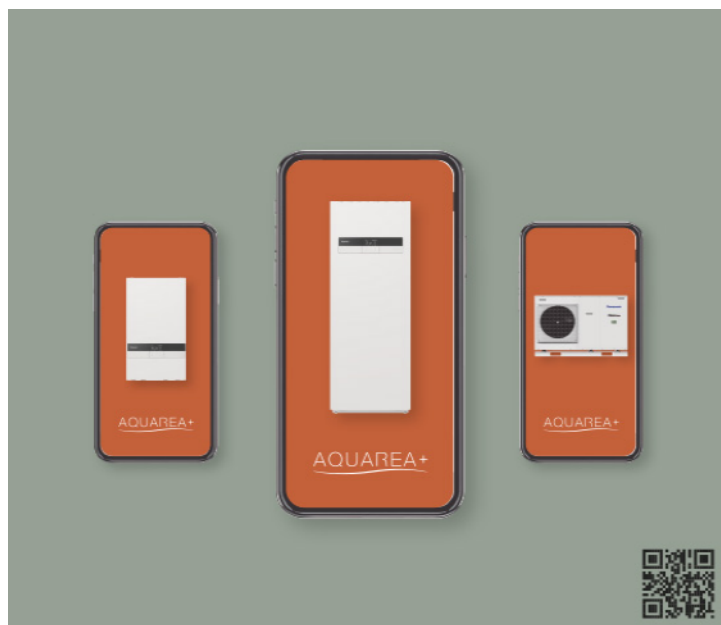
Helping you to find the Aquarea Heat Pump for your home in just a few clicks!

<https://aircon.panasonic.eu/visit/selection-tool/>

**AR Heat Pump Viewer**

This tool allows you to see how a Panasonic Aquarea Heat Pump looks in a home, utilising augmented reality.

<https://www.aircon.panasonic.eu/visit/ar-aquarea/>

**Aquarea+ get the most out of your Aquarea Heat Pump****Learn how to use and program your new Aquarea.**

In this site, you will find useful information that will allow you to operate your Panasonic Aquarea system to provide heating, cooling & hot water in the most efficient and cost effective way. Discover Panasonic Comfort Cloud App, the IoT solution for your heating and cooling systems to help maximize comfort while managing energy consumption.

<https://aquarea.panasonic.eu/plus>



AQUAREA
SERVICE⁺

**Aquarea Service+. A window to tranquility****Why choose our Aquarea Service+?**

1. Our service technicians are experts in Aquarea aerothermics.
2. We diagnose faults remotely and avoid unnecessary technical support visits.
3. IoT technology embedded in your Aquarea system.

How to choose your right service package?

Aquarea Service+ Premium: Labour & travel costs included · Free Panasonic Spare parts · Service support within 24h including weekends · Priority support hotline 24/7 · On site annual maintenance.

Aquarea Service+ Smart: Daily diagnosis check · Service support within 24h including weekends · Priority support hotline 24/7 · On site annual maintenance.

Aquarea Service+ Comfort: On site annual maintenance · Priority support hotline.

<https://shop.aircon.panasonic.eu/>

Product and accessories



1

2

3

4

5

6

Accessories

1. CZ-RTW2TAW1C	Remote controller with Wi-Fi adapter (required for stand-alone outdoor units). M Series
2. CZ-RTW2	Optional remote controller for 2 zone control. M Series
3. CZ-NS6P	PCB for advanced functions. M Series All in One and Bi-bloc
4. PAW-A2W-RTWIRED	Room thermostat
5. PAW-A2W-RTWIRELESS	Wireless LCD room thermostat
6. PAW-A2W-AFVLV-1	1 antifreeze valve. It is required to order 2 valves per system

Combination table

Indoor unit: Hydraulic All in One					Outdoor unit				
					Heating capacity				
					1φ		3φ		
Backup heater capacity	DHW tank capacity	Electrical Anode			9,0 kW	12,0 kW	9,0 kW	12,0 kW	16,0 kW
					WH-WXG09ME5	WH-WXG12ME5	WH-WXG09ME8	WH-WXG12ME8	WH-WXG16ME8
					✓	✓	—	—	—
1φ	3 kW	185 L	—	WH-ADC0316M3E52	✓	✓	—	—	—
	3 kW	185 L	✓	WH-ADC0316M3E5AN2	✓	✓	—	—	—
	6 kW	185 L	—	WH-ADC0316M6E52	✓	✓	—	—	—
3φ	9 kW	185 L	—	WH-ADC0316M9E82	✓	✓	✓	✓	✓
	9 kW	185 L	✓	WH-ADC0316M9E8AN2	✓	✓	✓	✓	✓

Aquarea T-CAP All in One M Series 1 phase - 3 phase · R290

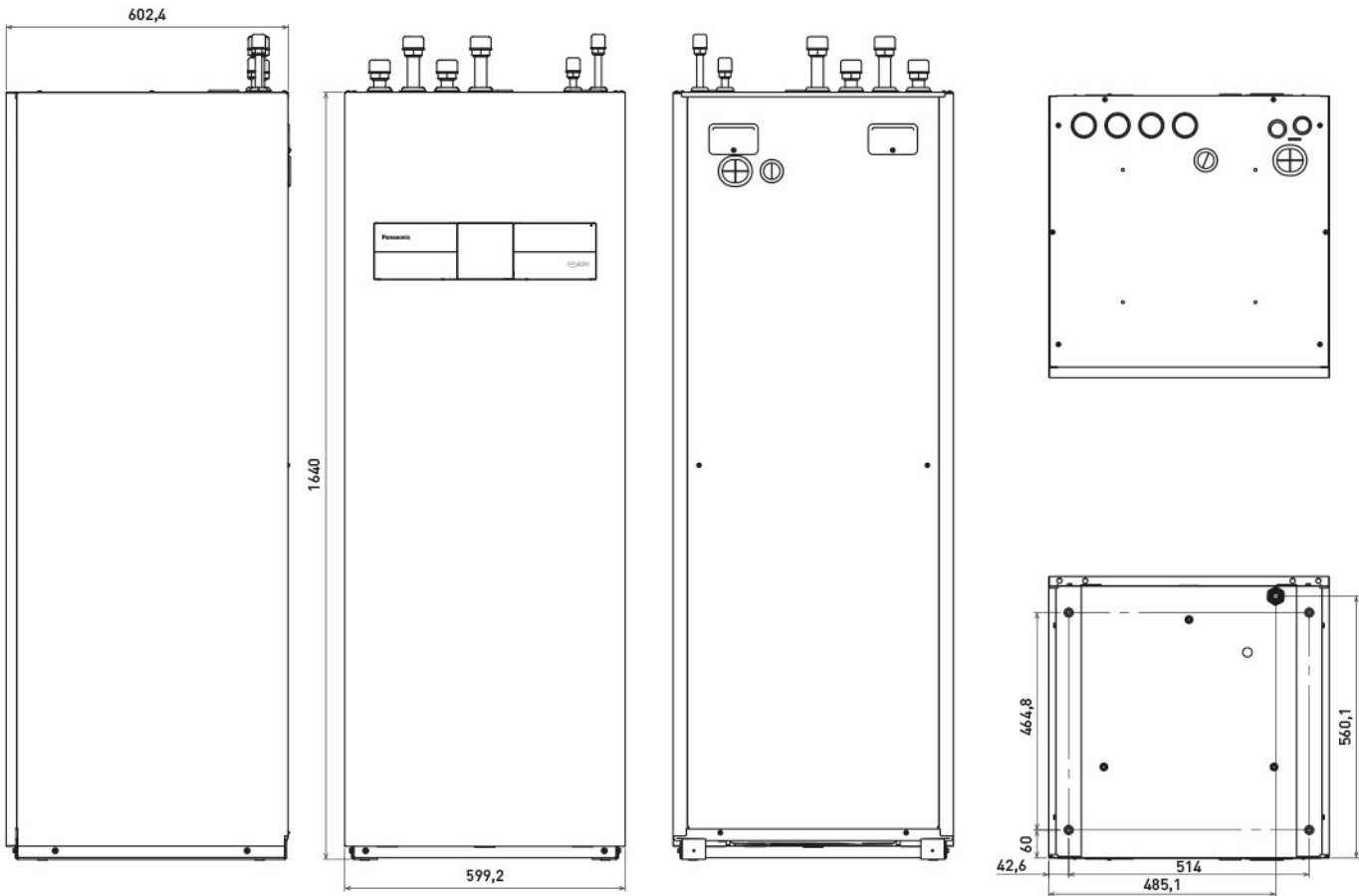
T-CAP All in One M Series 1 phase - 3 phase · R290		SINGLE PHASE		THREE PHASE		
		9 kW	12 kW	9 kW	12 kW	16 kW
Outdoor unit		WH-WXG09ME5	WH-WXG12ME5	WH-WXG09ME8	WH-WXG12ME8	WH-WXG16ME8
Heating capacity (A +7°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +7°C, W 35°C)		5,23	5,06	5,23	5,06	4,89
Heating capacity (A +7°C, W 55°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +7°C, W 55°C)		3,24	3,23	3,24	3,23	3,20
Heating capacity (A +2°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +2°C, W 35°C)		3,81	3,54	3,81	3,54	3,30
Heating capacity (A +2°C, W 55°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +2°C, W 55°C)		2,54	2,42	2,54	2,42	2,37
Heating capacity (A -7°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A -7°C, W 35°C)		3,45	3,00	3,45	3,00	2,53
Heating capacity (A -7°C, W 55°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A -7°C, W 55°C)		2,35	2,17	2,35	2,17	1,97
Cooling capacity (A 35°C, W 7°C)	kW	9,00	9,00	9,00	9,00	9,00
EER (A 35°C, W 7°C)		3,61	3,61	3,61	3,61	3,61
Cooling capacity (A 35°C, W 18°C)	kW	9,00	12,00	9,00	12,00	16,00
EER (A 35°C, W 18°C)		5,26	5,26	5,26	5,26	5,26
Heating average climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	4,96 / 3,57	5,00 / 3,46	4,96 / 3,57	5,00 / 3,46	4,20 / 3,31
Heating average climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	195 / 140	197 / 135	195 / 140	197 / 135	168 / 129
Heating average climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Heating warm climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	6,47 / 4,34	6,47 / 4,34	6,47 / 4,34	6,47 / 4,34	5,88 / 4,09
Heating warm climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	256 / 171	256 / 171	256 / 171	256 / 171	232/160
Heating warm climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Heating cold climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	4,31 / 3,26	4,31 / 3,26	4,31 / 3,26	4,31 / 3,26	3,83 / 3,20
Heating cold climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	169/127	169/127	169/127	169/127	150 / 125
Heating cold climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Outdoor dimension (Height)	mm	1.520	1.520	1.520	1.520	1.520
Outdoor dimension (Width)	mm	1.200	1.200	1.200	1.200	1.200
Outdoor dimension (Depth)	mm	430	430	430	430	430
Outdoor net weight	kg	161	161	161	161	165
A class pump (Number of speeds)		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
A class pump (Input power Min)	W	30	30	30	30	30
A class pump (Input power Max)	W	175	175	175	175	175
Heating water flow (ΔT=5 K, 35°C)	L/min	25,8	34,4	25,8	34,4	45,9
Operation range - outdoor temperature (Heat)	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
Operation range - outdoor temperature (Cool)	°C	+10 to +43	+10 to +43	+10 to +43	+10 to +43	+10 to +43
Water outlet (Heat)	°C	25 to 75	25 to 75	25 to 75	25 to 75	25 to 75
Water outlet (Cool)	°C	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
Indoor dimension (Height)	mm	1.642	1.642	1.642	1.642	1.642
Indoor dimension (Width)	mm	599	599	599	599	599
Indoor dimension (Depth)	mm	602	602	602	602	602
Indoor net weight	kg	89	89	89	89	89
Water volume	L	185	185	185	185	185
Maximum water temperature	°C	65	65	65	65	65
Material inside tank		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Elevation difference (in/out)	m	30	30	30	30	30
Tapping profile according EN16147		L	L	L	L	L
DHW tank ERP average climate η	ηwh %	123	123	123	123	117
DHW tank ERP warm climate η	ηwh %	132	132	132	132	128
DHW tank ERP cold climate η	ηwh %	88	88	88	88	84

Aquarea T-CAP All in One M Series 1 phase - 3 phase · R290

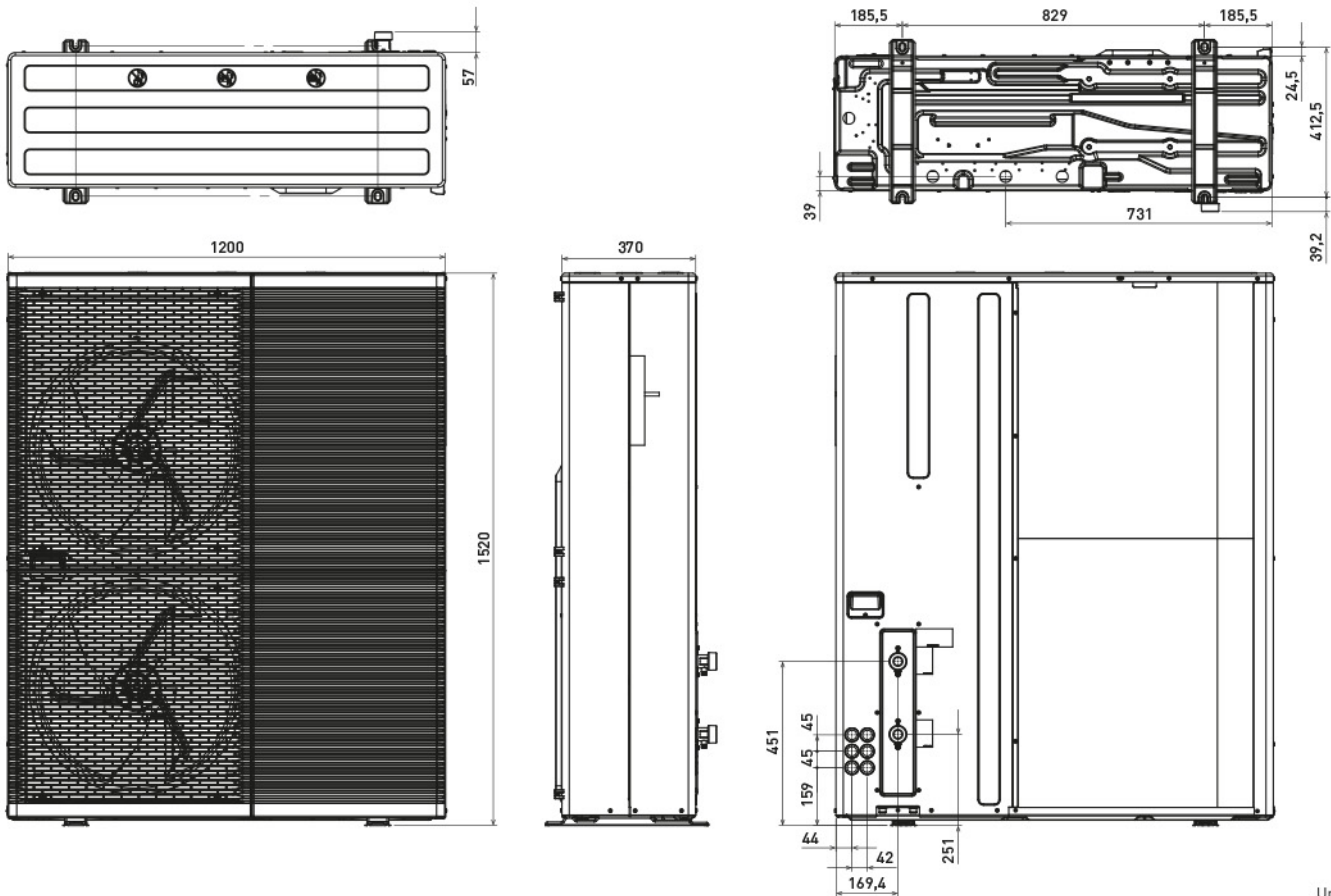
T-CAP All in One M Series 1 phase - 3 phase · R290	SINGLE PHASE		THREE PHASE		
	9 kW	12 kW	9 kW	12 kW	16 kW

Dimensions

Aquarea All in One M Series.



Aquarea T-CAP Hydraulic M Series outdoor units from 9 to 16 kW.



Unit: mm