

Aquarea, top-level efficiency across the board

Aquarea J Generation: much more than Aquarea in R32. Available
in 3/5/7/9 kW All in One / Bi-bloc and 5/7/9/12/16 kW Mono-bloc.



1 Keeping Aquarea essence

- A+++ in heating mode at 35 °C (scale from A+++ to D)
- Optional Aquarea Smart and Service Cloud

2 Higher efficiency

- SCOP up to + 5 % vs H Generation
- DHW COP up to 3,30 (for 3 kW All in One and 5 kW models)

3 More flexibility in design

- 60 °C water temperature (up to 65 °C in T-CAP Mono-bloc)
- Piping length between indoor and outdoor units improved: 7/9 kW: 50/30 m (up to 40 m without minimum floor area*) - 3/5 kW: 25/20 m
- Chiller function: cooling down to 10 °C outdoor temperature

* With a 5 % decrease of the capacity.

4 Smart functions

- SG ready for heating, cooling and DHW modes
- Utility remote bivalent control: By dry contacts*
- Stop external device when defrost by Dry contact (for fan coil fan stop)*

* Can not be used at same time.

5 More comfort

- Better comfort in extreme low temperature: Heating curve can be set up down to -20 °C
- Efficient or comfort mode for DHW: Part load for better efficiency or full load to reduce the heat up time
- DHW two sensor position selectable for All in One: Efficient position (best DHW COP) or bigger volume of hot water

Other improvements: More silent outdoor units / Magnet filter for water cycle.

R32 refrigerant gas: A 'small' change that changes everything

Panasonic recommends R32 because it is comparably environmentally friendly. Compared to R22 and R410A, R32 has a very low potential impact on the depletion of ozone layer and global warming.

In line with the European countries who are concerned in protecting and maintaining the environment by participating in the Montreal Protocol to protect the Ozone Layer and prevent Global Warming, Panasonic is leading the switch to R32.



Aquarea T-CAP Mono-bloc J Generation R32

R32 Refrigerant: A 'small' change that changes everything.

With Mono-bloc, the refrigerant circuit is sealed inside the outdoor unit, so there is no need to worry about the amount of refrigerant per room.

65 °C¹⁾ water temperature possible.

By optimising the system and the refrigerant cycle, the unit can work under higher pressure and realise a water temperature of 65°C.

1) In case of ΔT setting with remote controller is 15 °C and outdoor ambient temperature is 5 to 20 °C, 65 °C hot water temperature is possible. Even with the T-CAP series, capacity will drop when water temperature reaches 65 °C.



Aquarea J Generation.

The beauty of comfort. The J Generation is available from 3 to 16 kW. The small capacities are specially designed for low energy homes and achieve an impressive COP of 5 (on the 3 kW).

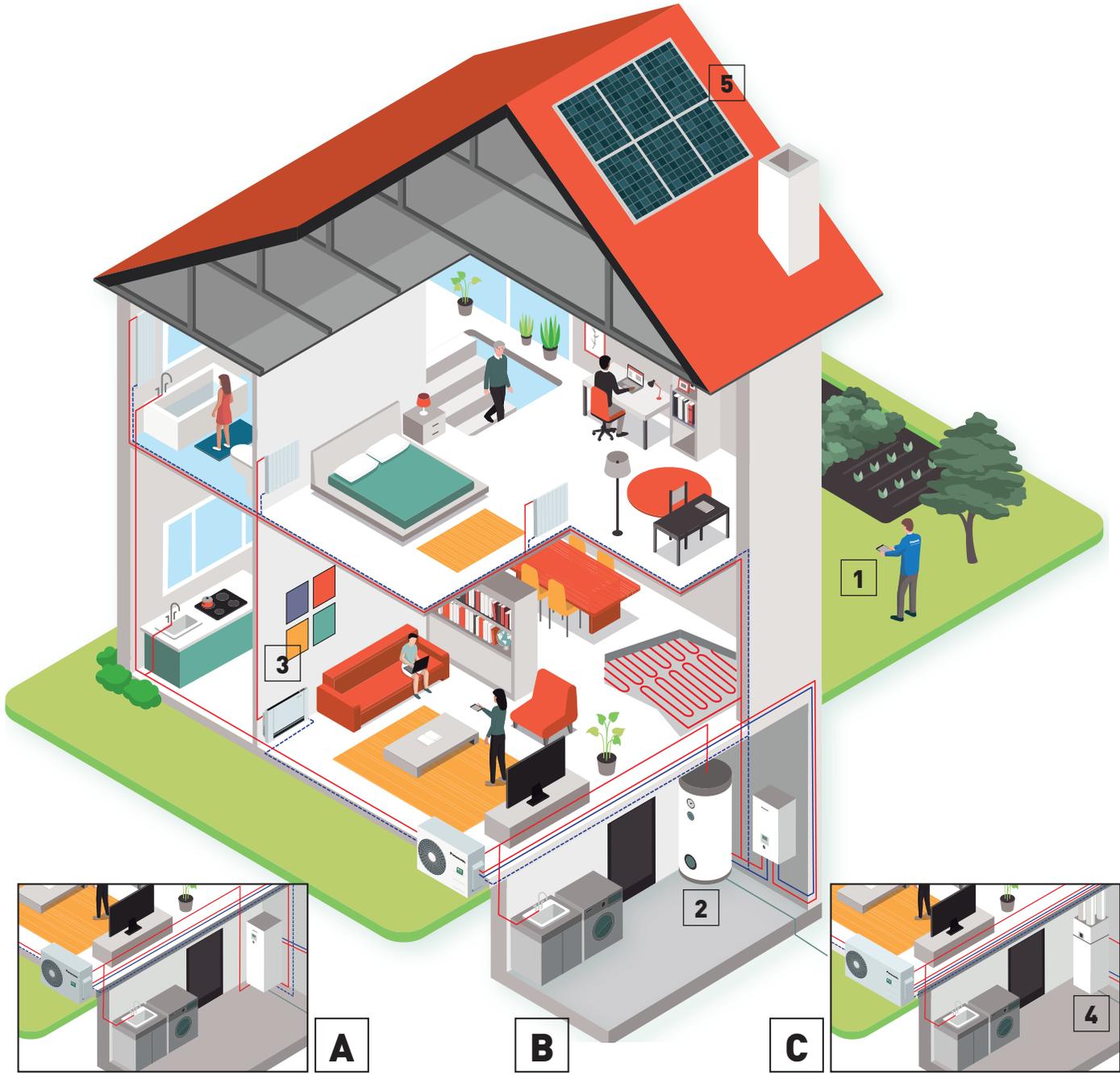
Better Efficiency & Value A++/A+++.

- A++ for medium temperature applications (radiators. ErP 55 °C in the scale from A+++ to D)
- A+++ for low temperature applications (floor heating. ErP 35 °C in the scale from A+++ to D)

Aquarea, a generation of energy efficient heating and hot water.

Thanks to the system's high degree of technology and advanced control, it is able to maintain a high output capacity and efficiency even at -7 °C and -15 °C. The Aquarea's software can be set for the requirements of low consumption homes in order to maximise energy efficiency. Whatever the weather, Aquarea can work even at -28 °C (for T-CAP All in One and Bi-bloc) lower limit. The compact design of the outdoor unit makes installation very easy.

Aquarea Heat Pump line-up



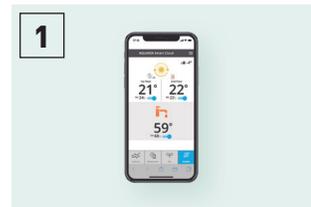
A All in One system.



B Bi-bloc system.



C Mono-bloc system.



1 Control through smartphone, tablet or computer (optional).



2 Super high efficiency cylinder (optional).



3 Fan coils for heating and cooling (optional).



4 Heat recovery Ventilation + DHW Tank (optional).



5 Heat Pump + HIT Photovoltaic solar panel (optional).

Panasonic Aquarea offers you solutions, helping to make the home more efficient and the installation cheaper and easier.

Aquarea High Performance

For new installations and low consumption homes.
Outstanding efficiency and energy savings with minimised CO₂ emissions and minimum space. Improved performance with COPs up to 5,33 for J Generation 3 kW.

Aquarea T-CAP

For extremely low temperatures, refurbishment and innovation.
Ideal to ensure that the heating capacity is maintained even at very low temperatures. This line-up is able to maintain the heat pump output capacity until -20 °C¹⁾ outdoor temperature without the help of an electrical booster heater.

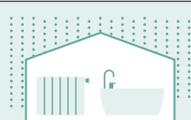
1) At 35 °C flow temperature.

Aquarea HT

For a house with old high-temperature radiators.
Ideal for retrofit: green energy source works with existing radiators. Aquarea HT Solution is the most appropriate, providing output water temperatures of 65 °C even at outdoor temperatures as low as -15 °C.

DHW Stand Alone

Highly efficient heat pump water heater.
Ideal to cover the hot water needs of a family house, stand alone DHW heat pumps are designed to provide maximum comfort and savings in the production of DHW. Consumption of the A+ DHW heat pump is reduced up to 72 % compared with traditional electric water heaters.

Aquarea High Performance	Aquarea T-CAP	Aquarea HT	DHW Stand Alone
 Heating - Cooling - DHW	 Heating - Cooling - DHW	 Heating - DHW	 Only DHW
Single phase from 3 to 16 kW Three phase from 9 to 16 kW	Single phase from 9 to 12 kW Three phase from 9 to 16 kW	Single phase from 9 to 12 kW Three phase from 9 to 12 kW	From 100 to 270 L
Connectable to			
 Radiators - Fan coil - Underfloor heating - DHW	 Radiators - Fan coil - Underfloor heating - DHW	 Traditional high-temperature radiators - DHW	 Domestic hot water
Application			
 Normal installation	 For extreme cold ambient	 Retrofit for old radiators	 Only DHW
Energy efficiency			
 Heating 35 °C / 55 °C ¹⁾	 Heating 35 °C / 55 °C ¹⁾	 Heating 35 °C / 55 °C ¹⁾	 DHW 50 ~ 62 °C
Minimum outdoor temperature			
-20 °C	-28 °C (All in One and Bi-bloc) -20 °C (Mono-bloc) ²⁾	-20 °C	-5 °C
Minimum outdoor temperature to provide constant capacity at 35 °C supply water temperature			
-7 °C (not for all units)	-20 °C ²⁾	-15 °C	—
Supply temperature for heating. Maximum / Heat pump only			
75 °C ³⁾ / 55 °C ⁴⁾ (or 60 °C for Aquarea J Generation)	75 °C ³⁾ / 60 °C ⁴⁾ (65 °C ⁵⁾ for Aquarea J Generation)	75 °C ³⁾ / 65 °C	—
Control and connectivity			
Smart Grid Contact ⁶⁾ Wireless LAN Ready	Smart Grid Contact ⁶⁾ Wireless LAN Ready	—	—
Range			
All in One from 3 to 16 kW (185 L) Bi-bloc from 3 to 16 kW Mono-bloc from 5 to 16 kW	All in One from 9 to 16 kW (185 L) Bi-bloc from 9 to 16 kW Mono-bloc from 9 to 16 kW	Bi-bloc from 9 to 12 kW Mono-bloc from 9 to 12 kW	Wall-mounted 100 and 150 L Floor-standing 200 and 270 L

All data in this chart is applicable in most of models in each line up, check product specs to confirm. 1) Scale from A+++ to D. 2) 9 and 12 kW. 3) DHW maximum temperature with heater. 4) In case of outdoor temperature over -10 °C. 5) It is possible to set temperature by 65 °C on remote controller. Normally, outlet water temperature is 60 °C or lower. In case of ΔT setting with remote controller is 15 °C and the outdoor ambient temperature is 5 to 20 °C, outlet water temperature 65 °C is possible. 6) J and H Generation with CZ-NS4P. * DHW Stand Alone is produced by S.A.T.E.

Aquarea Smart Cloud for the users

The most advanced heating control for today and for the future. Aquarea can be connected to the Cloud with the accessory CZ-TAW1, enabling both user control and remote maintenance by service partners.

WATCH DEMO



* User interface image may change without notification.

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 work?

After connecting an Aquarea J or H Generation to the cloud by wireless LAN or by wired LAN, the user accesses the Cloud portal to remotely operate all functions of his units. He can also permit service partners to access customised functions for remote maintenance and monitoring.

Requirements

1. Aquarea J or H Generation
2. In-house internet connection with router wireless LAN or wired LAN
3. Get a Panasonic ID in <https://aquarea-smart.panasonic.com/>

Functions:

- Visualization and Control
- Scheduling
- Energy Statistics
- Malfunction notification



More possibilities with IFTTT.
IF This Then That: IFTTT service enables user to automatically trigger actions for Aquarea system based on other apps, web services or devices.

Connect your Aquarea to your voice assistant, get an e-mail if your Aquarea gets an error or automatically turn on your Aquarea on Heat Mode when outdoor temperature drops below specified level.

Advantages

Energy savings, comfort and control from anywhere. Increased efficiency and resources management, operating costs savings and owner satisfaction. The Aquarea Smart Cloud services are focused on enabling full remote maintenance of the Aquarea system. This allows maintenance specialists to engage in predictive maintenance and system fine-tuning, as well as fixing malfunctions when they occur.

Aquarea compatibility	J and H Generation
Connection point	CN-CNT Aquarea port
Home router connection	Wireless or Wired LAN
Temperature sensor	Can use remote controller sensor
Tablet or PC browser compatibility*	Yes
Operation from remote — ON / OFF — Temperature setting Mode selection — DHW setting — Error codes — Scheduling	Yes
Heating areas	Up to 2 zones
Power consumption estimation — Operation log history	Yes — Yes

* Check browsers and version compatibility.

Get the most out of your Aquarea Heat Pump.

Aquarea+ offers end user useful information to operate a Panasonic Aquarea Heat Pump to provide heating, cooling and hot water in the most efficient and cost effective way.

AQUAREA+



Aquarea Service Cloud for installers or maintenance companies

WATCH DEMO



The Aquarea Service Cloud allows installers to take care of their customers' heating systems remotely. It saves time and money and shortens the response time, thus increasing the customers' satisfaction.



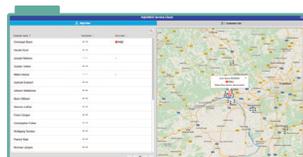
The real remote maintenance made simple

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

Home page.

Status of connected users at a glance. 2 view options: map view or list view.



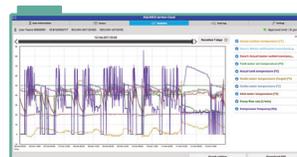
Status tab.

Current status of unit with a maximum of 28 parameters.



Statistics tab.

Customisable statistics of a maximum of 71 parameters. Available anytime with the information of the last 7 days.



Settings tab.

Most of the user and installer settings can be done remotely.



Activation of the Aquarea Service Cloud

Requirements.

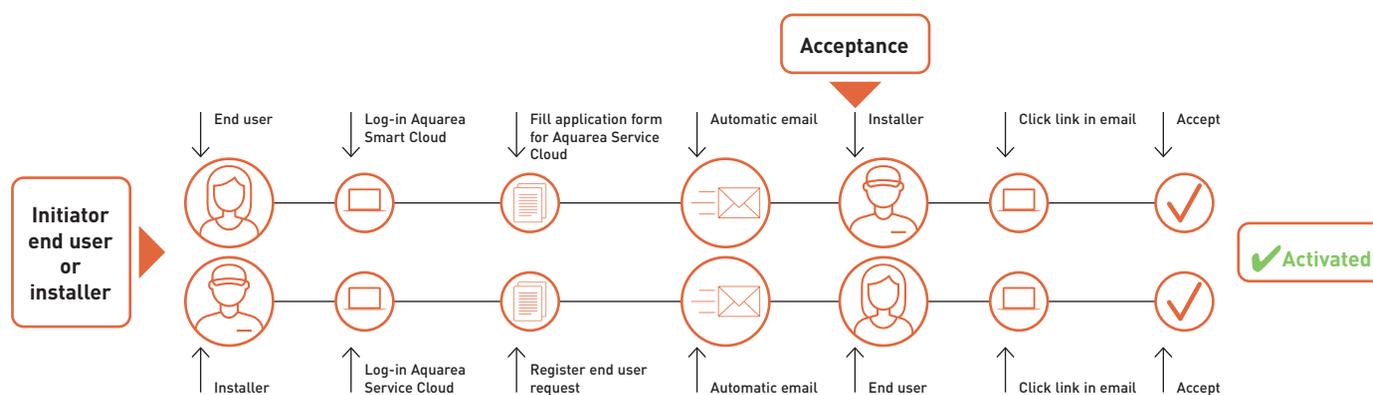
Hardware and connection	End user registration	Installer / maintenance registration
J or H Generation Aquarea connected to CZ-TAW1	Get Panasonic ID	Get Service ID
In-house internet connection with Wireless LAN or Wired LAN	Aquarea Smart Cloud	Aquarea Service Cloud

Connecting the unit to the Aquarea Service Cloud.

The process can be initiated by the end user or by the installer. The end user can select and change the installer's level of control anytime (4 levels).

Installer registration: <https://aquarea-service.panasonic.com/>

End user registration: <https://aquarea-smart.panasonic.com/>



Aquarea Heat Pump range

	3 kW	5 kW	7 kW
Aquarea High Performance All in One 1 Phase 3 Phase P. 27, 28, 29, 30 	 WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD03JE5	 WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD05JE5	 WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD07JE5
P. 31, 32 Bi-bloc 1 Phase 3 Phase 	 WH-SDC0305J3E5 WH-UD03JE5	 WH-SDC0305J3E5 WH-UD05JE5	 WH-SDC0709J3E5 WH-UD07JE5
P. 33 Mono-bloc 1 Phase 		 WH-MDC05J3E5	 WH-MDC07J3E5
Aquarea T-CAP All in One 1 Phase 3 Phase P. 34, 35, 36 			
P. 37, 38 Bi-bloc 1 Phase 3 Phase 			
P. 39 Mono-bloc 1 Phase 3 Phase 			
Aquarea HT Bi-bloc 1 Phase 3 Phase P. 40 			
P. 41 Mono-bloc 1 Phase 			

 Heating.  Cooling.  DHW. WH-__E5 1 Phase // WH-__E8 3 Phase. Green color: J Generation models with R32 refrigerant.


 Check all our certified heat pumps on:
www.heatpumpkeymark.com

9 kW



WH-ADC0309J3E5
 WH-ADC0309J3E5B
 WH-ADC0309J3E5C
 WH-UD09JE5-1
 WH-ADC0916H9E8
 WH-UD09HE8

12 kW



WH-ADC1216H6E5
 WH-ADC1216H6E5C
 WH-UD12HE5
 WH-ADC0916H9E8
 WH-UD12HE8

16 kW



WH-ADC1216H6E5
 WH-ADC1216H6E5C
 WH-UD16HE5
 WH-ADC0916H9E8
 WH-UD16HE8



WH-SDC0709J3E5
 WH-UD09JE5-1
 WH-SDC09H3E8
 WH-UD09HE8



WH-SDC12H6E5
 WH-UD12HE5
 WH-SDC12H9E8
 WH-UD12HE8



WH-SDC16H6E5
 WH-UD16HE5
 WH-SDC16H9E8
 WH-UD16HE8



WH-MDC09J3E5



WH-ADC1216H6E5
 WH-ADC1216H6E5C
 WH-UX09HE5
 WH-ADC0916H9E8
 WH-UX09HE8
 WH-ADC0916H9E8
 WH-UQ09HE8



WH-ADC1216H6E5
 WH-ADC1216H6E5C
 WH-UX12HE5
 WH-ADC0916H9E8
 WH-UX12HE8
 WH-ADC0916H9E8
 WH-UQ12HE8



WH-ADC0916H9E8
 WH-UX16HE8
 WH-ADC0916H9E8
 WH-UQ16HE8



WH-SXC09H3E5
 WH-UX09HE5
 WH-SXC09H3E8
 WH-UX09HE8
 WH-SQC09H3E8
 WH-UQ09HE8



WH-SXC12H6E5
 WH-UX12HE5
 WH-SXC12H9E8
 WH-UX12HE8
 WH-SQC12H9E8
 WH-UQ12HE8



WH-SXC16H9E8
 WH-UX16HE8
 WH-SQC16H9E8
 WH-UQ16HE8



WH-MXC09J3E5
 WH-MXC09J3E8



WH-MXC12J6E5
 WH-MXC12J9E8



WH-MXC16J9E8



WH-SHF09F3E5
 WH-UH09FE5
 WH-SHF09F3E8
 WH-UH09FE8



WH-SHF12F6E5
 WH-UH12FE5
 WH-SHF12F9E8
 WH-UH12FE8



WH-MHF09G3E5



WH-MHF12G6E5

Aquarea All in One

The best Panasonic technology for your home.

Aquarea All in One: the best Panasonic technology for your home

High quality components inside:

- Maintenance free Inox stainless 185 l tank
- Variable speed water pump (class A)
- Less frequent maintenance with pre-installed improved magnet filter
- Expansion vessel
- Vortex flow sensor
- Back up heater
- Safety valve
- Air purge valves
- 3 way valve inside

The ultimate space-saving solution.

- 598 x 600 mm footprint reduces required installation space
- Low height leaves space for a ventilation unit
- No buffer tank required, reducing space, cost and installation time

Further flexibility.

- Easy access to hydraulic parts
- Less frequent maintenance with pre-installed improved magnet filter
- Operation without back-up heating at -20 °C
- Can supply 60 °C hot water even at -10 °C outside temperature
- Piping length up to 50 m (for J Generation 7 and 9 kW)
- Modern remote controller can be installed up to 50 m from the indoor unit
- Can connect additional room temperature sensor, solar kit, 2 zones control, swimming pool and circulating pump (need optional PCB: CZ-NS4P)

Aquarea All in One Compact: Made compact but maintenance is still easy



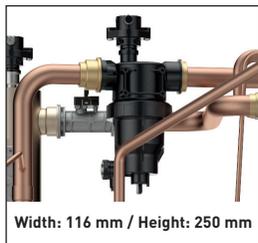
1 | Maintained serviceability.

- Easy maintenance concept
- Access to hydraulic parts thanks to door opening mechanism



2 | Slimmer, yet same tank capacity.

- Piping layout at the top in order to maintain large 185 L tank capacity.



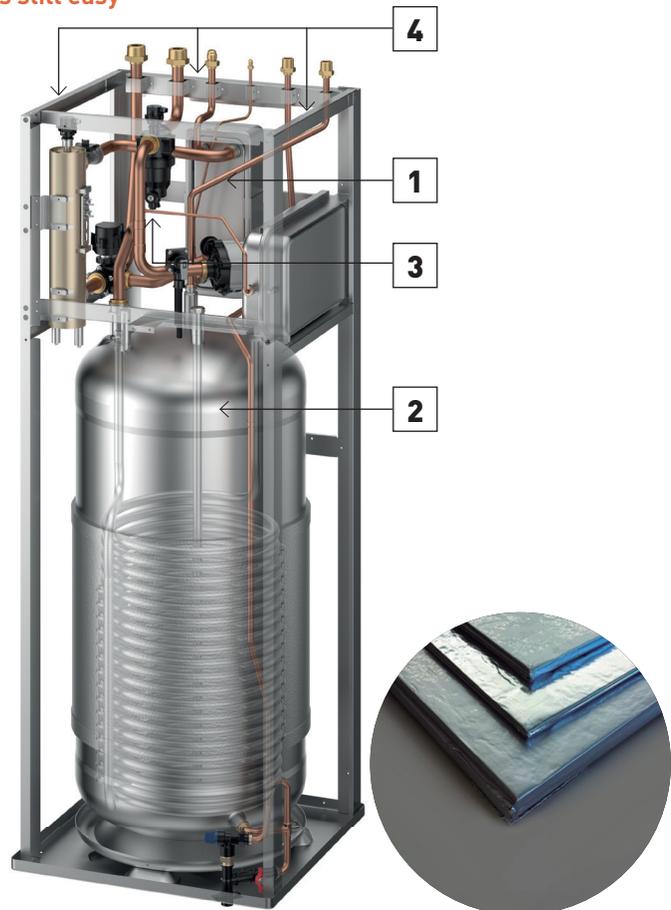
3 | Advanced magnetic water filter for less maintenance.

- Superior dust removal capacity of the water filter.
- Less frequent filter cleaning means more convenience.



4 | Robust body for top ventilation unit.

- Strengthening the body and top surface with a frame enables installation of a top ventilation unit. For safety, it's secured with bolts to prevent it falling.



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 1-20 Pa, thereby minimising thermal conductivity.

Aquarea All in One with 2 zone control: The optimal solution for an installation with 2 heating zones.

- 2 heating circuits, with 2 different water temperatures
- 2 water pumps and 2 water filters
- Floor heating water control with mixing valve



Aquaarea High Performance All in One J Generation Single phase. Heating and Cooling 1 or 2 zones - R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: Long piping lengths / Built-in magnetic water filter.

Comfort: Heating curve down to -20 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquaarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)			
Kit 1 zone (for 2 zone add B at the end)			KIT-ADC03JE5	KIT-ADC05JE5	KIT-ADC07JE5	KIT-ADC09JE5-1
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP		3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP		3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP		3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP		3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP		3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP		3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER		3,20/3,52	4,50/3,00	6,70/3,03	8,20/2,72
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER		3,20/4,71	4,80/4,29	6,70/4,72	9,00/4,18
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	200/136	200/136	193/130	193/130
	SCOP		5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
	Energy class ¹⁾		A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	157/110	157/110	164/116	164/116
	SCOP		4,00/2,83	4,00/2,83	4,18/2,98	4,18/2,98
	Energy class ¹⁾		A+++ to D	A++/A+	A++/A+	A++/A+
Indoor unit 1 zone hydrokit			WH-ADC0309J3E5	WH-ADC0309J3E5	WH-ADC0309J3E5	WH-ADC0309J3E5
Indoor unit 2 zones built-in hydrokit			WH-ADC0309J3E5B	WH-ADC0309J3E5B	WH-ADC0309J3E5B	WH-ADC0309J3E5B
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	28/28
Dimension	H x W x D	mm	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717
Net weight 1 zone / 2 zones		kg	122/130	122/130	122/130	122/130
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	30/120	30/120	30/120	30/120
Heating water flow (ΔT=5 K, 35 °C)		L/min	9,20	14,30	20,10	25,80
Capacity of integrated electric heater		kW	3,00	3,00	3,00	3,00
Power supply 1 = Compressor		A	12,0	12,0	15,9	15,9
Power supply 2 = Backup heater		A	13,0	13,0	13,0	13,0
Recommended fuse		A	16/16	16/16	25/16	25/16
Recommended cable size, supply 1 / 2		mm²	3x 1,5/3x 1,5	3x 1,5/3x 1,5	3x 2,5/3x 1,5	3x 2,5/3x 1,5
Water volume		L	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW tank ERP efficiency average / cold ²⁾	A+ to F		A+/A	A+/A	A+/A	A+/A
DHW tank ERP average climate η / COPdHW	ηwh % / COPdHW		132/3,30	132/3,30	120/3,00	120/3,00
DHW tank ERP cold climate η / COPdHW	ηwh % / COPdHW		99/2,48	99/2,48	99/2,47	99/2,47
Outdoor unit			WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1
Sound power ³⁾	Heat	dB(A)	55	55	59	59
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298 / 37	622 x 824 x 298 / 37	795 x 875 x 320 / 61	795 x 875 x 320 / 61
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,9/0,608	0,9/0,608	1,27/0,857	1,27/0,857
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)
Pipe length range / Elevation difference (in / out)		m / m	3-25/20	3-25/20	3-50/30	3-50/30
Pipe length for additional gas / Additional gas amount		m / g/m	10/20	10/20	10/25	10/25
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories

PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
CZ-TAW1	Aquaarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories

CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.
GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



GOOD DESIGN AWARD 2017

011-1W0515

A+++
ErP 55 °C
Scale from A+++ to D

A+++
ErP 35 °C
Scale from A+++ to D

A+
DHW
Scale from A+ to F

Aquarea High Performance All in One H Generation Single phase / Three phase. Heating and Cooling · R410A

Energy efficiency: A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

Kit	Single phase (Power to indoor)			Three phase (Power to indoor)			
	KIT-ADC12HE5	KIT-ADC16HE5	KIT-ADC09HE8	KIT-ADC12HE8	KIT-ADC16HE8		
Heating capacity / COP [A +7 °C, W 35 °C]	kW / COP	12,00/4,74	16,00/4,28	9,00/4,84	12,00/4,74	16,00/4,28	
Heating capacity / COP [A +7 °C, W 55 °C]	kW / COP	12,00/2,93	14,50/2,72	9,00/2,94	12,00/2,93	14,50/2,72	
Heating capacity / COP [A +2 °C, W 35 °C]	kW / COP	11,40/3,44	13,00/3,28	9,00/3,59	11,40/3,44	13,00/3,28	
Heating capacity / COP [A +2 °C, W 55 °C]	kW / COP	9,10/2,23	9,80/2,21	8,80/2,23	9,10/2,23	9,80/2,21	
Heating capacity / COP [A -7 °C, W 35 °C]	kW / COP	10,00/2,73	11,40/2,57	9,00/2,85	10,00/2,73	11,40/2,57	
Heating capacity / COP [A -7 °C, W 55 °C]	kW / COP	8,20/1,95	9,00/1,85	7,90/2,05	8,20/1,95	9,00/1,85	
Cooling capacity / EER [A 35 °C, W 7 °C]	kW / EER	10,00/2,81	12,20/2,56	7,00/3,17	10,00/2,85	12,20/2,56	
Cooling capacity / EER [A 35 °C, W 18 °C]	kW / EER	10,00/4,17	12,20/4,12	7,00/4,67	10,00/4,26	12,20/4,12	
Heating average climate [W 35 °C / W 55 °C]	Seasonal energy efficiency η_s %	190/134	190/130	190/133	190/134	190/130	
	SCOP	4,82/3,42	4,82/3,33	4,81/3,41	4,82/3,42	4,82/3,33	
Heating cold climate [W 35 °C / W 55 °C]	Seasonal energy efficiency η_s %	168/121	168/121	168/121	168/121	168/121	
	SCOP	4,29/3,10	4,28/3,10	4,28/3,10	4,29/3,10	4,28/3,10	
Indoor unit	Energy class ¹⁾	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	
		A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+	
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	
	Dimension	H x W x D	mm	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717
Net weight		kg	124	124	126	126	
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½	
A class pump	Number of speeds	Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed	
	Input power (Min/Max)	W	36/152	36/152	36/152	36/152	36/152
Heating water flow [$\Delta T=5$ K, 35 °C]		L/min	34,4	45,9	25,8	34,4	45,9
Capacity of integrated electric heater		kW	6,00	6,00	9,00	9,00	9,00
Power supply 1 = Compressor		A	24,0	26,0	8,8	8,8	9,9
Power supply 2 = Backup heater		A	26,0	26,0	13,0	13,0	13,0
Recommended fuse		A	30/30	30/30	16/16	16/16	16/16
Recommended cable size, supply 1 / 2		mm ²	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x1,5/5x1,5
Water volume		L	185	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L	L
DHW tank ERP efficiency average / cold ²⁾		A+ to F	A/A	A/B	A/A	A/A	A/B
DHW tank ERP average climate η / COPdHW		η_{wh} % / COPdHW	95/2,37	91/2,28	95/2,37	95/2,37	91/2,27
DHW tank ERP cold climate η / COPdHW		η_{wh} % / COPdHW	75/1,87	72/1,80	75/1,87	75/1,87	72/1,80
Outdoor unit			WH-UD12HE5	WH-UD16HE5	WH-UD09HE8	WH-UD12HE8	WH-UD16HE8
	Sound power ³⁾	Heat	dB(A)	65	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340x900x320/101	1340x900x320/101	1340x900x320/107	1340x900x320/107	1340x900x320/107
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range / Elevation difference (in / out)	m / m		3-50/30	3-50/30	3-30/20	3-30/20	3-30/20
Pipe length for additional gas / Additional gas amount	m / g/m		10/50	10/50	10/50	10/50	10/50
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20-55/5-20	20-55/5-20	20-55/5-20	20-55/5-20	20-55/5-20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



Aquarea High Performance All in One Compact J Generation Single phase. Heating and Cooling - R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: 598 x 600 footprint / Long piping lengths / Built-in magnetic water filter.

Comfort: Heating curve down to -20 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

		Single phase (Power to indoor)				
Kit		KIT-ADC03JE5C	KIT-ADC05JE5C	KIT-ADC07JE5C	KIT-ADC09JE5C-1	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48	
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40	
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78	
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93	
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	3,20/3,52	4,50/3,00	6,70/3,03	8,20/2,72	
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	3,20/4,71	4,80/4,29	6,70/4,72	9,00/4,18	
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	200/136	200/136	193/130	193/130
	SCOP		5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	157/110	157/110	164/116	164/116
	SCOP		4,00/2,83	4,00/2,83	4,18/2,98	4,18/2,98
	Energy class ¹⁾	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	
	Energy class ¹⁾	A+++ to D	A++ / A+	A++ / A+	A++ / A+	
Indoor unit		WH-ADC0309J3E5C	WH-ADC0309J3E5C	WH-ADC0309J3E5C	WH-ADC0309J3E5C	
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	
Dimension	H x W x D	mm	1640 x 598 x 600	1640 x 598 x 600	1640 x 598 x 600	
Net weight		kg	101	101	101	
Water pipe connector		Inch	R 1½	R 1½	R 1½	
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	
	Input power (Min/Max)	W	30/120	30/120	30/120	
Heating water flow (ΔT=5 K, 35 °C)		L/min	9,20	14,30	20,10	
Capacity of integrated electric heater		kW	3,00	3,00	3,00	
Power supply 1 = Compressor		A	12,0	12,0	15,9	
Power supply 2 = Backup heater		A	13,0	13,0	13,0	
Recommended fuse		A	16/16	16/16	25/16	
Recommended cable size, supply 1 / 2		mm ²	3 x 1,5/3 x 1,5	3 x 1,5/3 x 1,5	3 x 2,5/3 x 1,5	
Water volume		L	185	185	185	
Maximum DHW temperature		°C	65	65	65	
Material inside tank			Stainless steel	Stainless steel	Stainless steel	
Tapping profile according EN16147		L	L	L	L	
DHW tank ERP efficiency average / cold ²⁾		A+ to F	A+ / A	A+ / A	A+ / A	
DHW tank ERP average climate η / COP _{DHW}		η _{wh} % / COP _{DHW}	128/3,20	128/3,20	116/2,90	
DHW tank ERP cold climate η / COP _{DHW}		η _{wh} % / COP _{DHW}	99/2,48	99/2,48	98/2,45	
Outdoor unit		WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1	
Sound power ³⁾	Heat	dB(A)	55	55	59	
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298/37	622 x 824 x 298/37	795 x 875 x 320/61	
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,9/0,608	0,9/0,608	1,27/0,857	
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	
Pipe length range / Elevation difference (in / out)		m / m	3 - 25/20	3 - 25/20	3 - 50/30	
Pipe length for additional gas / Additional gas amount		m / g/m	10/20	10/20	10/25	
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	
Water outlet	Heat / Cool	°C	20 - 60/5 - 20	20 - 60/5 - 20	20 - 60/5 - 20	

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



Aquarea High Performance All in One Compact H Generation Single phase. Heating and Cooling - R410A

Energy efficiency: A+++ in heating at 35 °C and A in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: 598 x 600 footprint / Built-in magnetic water filter.

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

Single phase (Power to indoor)

Kit			KIT-ADC12HE5C	KIT-ADC16HE5C
Heating capacity / COP [A +7 °C, W 35 °C]	kW / COP		12,00/4,74	16,00/4,28
Heating capacity / COP [A +7 °C, W 55 °C]	kW / COP		-/-	-/-
Heating capacity / COP [A +2 °C, W 35 °C]	kW / COP		11,40/3,44	13,00/3,28
Heating capacity / COP [A +2 °C, W 55 °C]	kW / COP		-/-	-/-
Heating capacity / COP [A -7 °C, W 35 °C]	kW / COP		-/-	-/-
Heating capacity / COP [A -7 °C, W 55 °C]	kW / COP		-/-	-/-
Cooling capacity / EER [A 35 °C, W 7 °C]	kW / EER		10,00/2,81	12,20/2,56
Cooling capacity / EER [A 35 °C, W 18 °C]	kW / EER		-/-	-/-
Heating average climate [W 35 °C / W 55 °C]	Seasonal energy efficiency	η_s %	190/134	190/130
	SCOP		4,82/3,42	4,82/3,33
Heating cold climate [W 35 °C / W 55 °C]	Seasonal energy efficiency	η_s %	168/121	168/121
	SCOP		4,29/3,10	4,28/3,10
Energy class ¹⁾			A+++ / A++	A+++ / A++
Energy class ¹⁾			A++ / A+	A++ / A+
Indoor unit			WH-ADC1216H6E5C	WH-ADC1216H6E5C
Sound pressure	Heat / Cool	dB(A)	33/33	33/33
Dimension	H x W x D	mm	1640 x 598 x 600	1640 x 598 x 600
Net weight		kg	101	101
Water pipe connector		Inch	R 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed
	Input power (Min/Max)	W	-/-	-/-
Heating water flow [$\Delta T=5$ K, 35 °C]		L/min	34,40	45,90
Capacity of integrated electric heater		kW	6,00	6,00
Power supply 1 = Compressor		A	24	24
Power supply 2 = Backup heater		A	26	26
Recommended fuse		A	-/-	-/-
Recommended cable size, supply 1 / 2		mm ²	-/-	-/-
Water volume		L	185	185
Maximum DHW temperature		°C	65	65
Material inside tank			Stainless steel	Stainless steel
Tapping profile according EN16147			-	-
DHW tank ERP efficiency average / cold ²⁾		A+ to F	-/-	-/-
DHW tank ERP average climate η / COPdHW		$\eta_{wh} \%$ / COPdHW	92/2,30	88/2,20
DHW tank ERP cold climate η / COPdHW		$\eta_{wh} \%$ / COPdHW	72/1,81	70/1,74
Outdoor unit			WH-UD12HE5	WH-UD16HE5
Sound power ³⁾	Heat	dB(A)	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320 / 101	1340 x 900 x 320 / 101
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,55/5,324	2,55/5,324
Piping diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 50 / 30	3 ~ 50 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 50	10 / 50
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories

CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories

CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



**GOOD DESIGN
AWARD 2017**



011-1W0207
011-1W0208
011-1W0209



3, 5 and 7 kW
models.



ErP 55 °C
Scale from
A+++ to D

Aquarea High Performance Bi-bloc J Generation Single phase. Heating and Cooling - SDC · R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Long piping lengths / Built-in magnetic water filter.

Comfort: Operating range and heating curve down to -20 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

		Single phase (Power to indoor)				
Kit		KIT-WC03J3E5	KIT-WC05J3E5	KIT-WC07J3E5	KIT-WC09J3E5	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48	
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40	
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78	
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93	
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	3,20/3,52	4,50/3,00	6,70/3,03	8,20/2,72	
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	3,20/4,71	4,80/4,29	6,70/4,72	9,00/4,18	
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	200/136	200/136	193/130	193/130
	SCOP		5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	157/110	157/110	164/116	164/116
	SCOP		4,00/2,83	4,00/2,83	4,18/2,98	4,18/2,98
	Energy class	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
	Energy class	A+++ to D	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Indoor unit		WH-SDC0305J3E5	WH-SDC0305J3E5	WH-SDC0709J3E5	WH-SDC0709J3E5	
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	30/30	30/31
Dimension	H x W x D	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340
Net weight		kg	42	42	42	42
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	30/100	33/106	34/114	40/120
Heating water flow (ΔT=5 K, 35 °C)		L/min	9,2	14,3	20,1	25,8
Capacity of integrated electric heater		kW	3,00	3,00	3,00	3,00
Power supply 1 = Compressor		A	12,0	12,0	15,9	15,9
Power supply 2 = Backup heater		A	13,0	13,0	13,0	13,0
Recommended fuse		A	15/30	15/30	15/30	15/30
Recommended cable size, supply 1 / 2		mm²	3 x 1,5/3 x 1,5	3 x 1,5/3 x 1,5	3 x 2,5/3 x 1,5	3 x 2,5/3 x 1,5
Outdoor unit		WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1	
Sound power ¹⁾	Heat	dB(A)	55	55	59	59
Dimension	H x W x D	mm	622 x 824 x 298	622 x 824 x 298	795 x 875 x 320	795 x 875 x 320
Net weight		kg	37	37	61	61
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,9/0,608	0,9/0,608	1,27/0,857	1,27/0,857
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)
Pipe length range		m	3 - 25	3 - 25	3 - 50	3 - 50
Elevation difference (in / out)		m	20	20	30	30
Pipe length for additional gas		m	10	10	10	10
Additional gas amount		g/m	20	20	25	25
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories

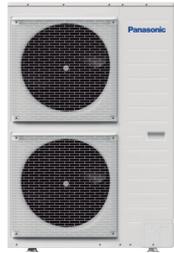
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

Accessories

CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.
GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



Aquarea High Performance Bi-bloc H Generation Single phase / Three phase. Heating and Cooling - SDC · R410A

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase		Three phase (Power to indoor)		
Kit			KIT-WC12H6E5	KIT-WC16H6E5	KIT-WC09H3E8	KIT-WC12H9E8	KIT-WC16H9E8
Heating capacity / COP [A +7 °C, W 35 °C]	kW / COP		12,00/4,74	16,00/4,28	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP [A +7 °C, W 55 °C]	kW / COP		12,00/2,93	14,50/2,72	9,00/2,94	12,00/2,93	14,50/2,72
Heating capacity / COP [A +2 °C, W 35 °C]	kW / COP		11,40/3,44	13,00/3,28	9,00/3,59	11,40/3,44	13,00/3,28
Heating capacity / COP [A +2 °C, W 55 °C]	kW / COP		9,10/2,23	9,80/2,21	8,80/2,23	9,10/2,23	9,80/2,21
Heating capacity / COP [A -7 °C, W 35 °C]	kW / COP		10,00/2,73	11,40/2,57	9,00/2,85	10,00/2,73	11,40/2,57
Heating capacity / COP [A -7 °C, W 55 °C]	kW / COP		8,20/1,95	9,00/1,85	7,90/2,05	8,20/1,95	9,00/1,85
Cooling capacity / EER [A 35 °C, W 7 °C]	kW / EER		10,00/2,81	12,20/2,56	7,00/3,17	10,00/2,85	12,20/2,56
Cooling capacity / EER [A 35 °C, W 18 °C]	kW / EER		10,00/4,17	12,20/4,12	7,00/4,67	10,00/4,26	12,20/4,12
Heating average climate [W 35 °C / W 55 °C]	Seasonal energy efficiency	ηs %	190/134	190/130	190/133	190/134	190/130
	SCOP		4,82/3,42	4,82/3,33	4,81/3,41	4,82/3,42	4,82/3,33
Heating cold climate [W 35 °C / W 55 °C]	Seasonal energy efficiency	ηs %	168/121	168/121	168/121	168/121	168/121
	SCOP		4,29/3,10	4,28/3,10	4,28/3,10	4,29/3,10	4,28/3,10
Energy class			A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Indoor unit			WH-SDC12H6E5	WH-SDC16H6E5	WH-SDC09H3E8	WH-SDC12H9E8	WH-SDC16H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	H x W x D	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340
Net weight		kg	43	44	43	44	45
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	34/110	30/105	32/102	34/110	30/105
Heating water flow [ΔT=5 K, 35 °C]		L/min	34,4	45,9	25,8	34,4	45,9
Capacity of integrated electric heater		kW	6,00	6,00	3,00	9,00	9,00
Power supply 1 = Compressor		A	24,0	26,0	13,1	8,8	9,9
Power supply 2 = Backup heater		A	26,0	26,0	13,0	13,0	13,0
Recommended fuse		A	30/30	30/30	15/30	15/30	15/30
Recommended cable size, supply 1 / 2		mm²	3x4,0 or 6,0/3x4,0	3x4,0 or 6,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x1,5/5x1,5
Outdoor unit			WH-UD12HE5	WH-UD16HE5	WH-UD09HE8	WH-UD12HE8	WH-UD16HE8
Sound power ¹⁾	Heat	dB(A)	65	65	65	65	65
Dimension	H x W x D	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Net weight		kg	101	101	107	107	107
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range		m	3-50	3-50	3-30	3-30	3-30
Elevation difference (in / out)		m	30	30	20	20	20
Pipe length for additional gas		m	10	10	10	10	10
Additional gas amount		g/m	50	50	50	50	50
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories

PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

Accessories

CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.

011-1W0398
011-1W0399
011-1W0400



Aquarea High Performance Mono-bloc J Generation Single phase. Heating and Cooling - MDC · R32

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Built-in magnetic water filter / Built-in 6L expansion vessel.

Comfort: Operating range and heating curve down to -20 °C / 60 °C water outlet temperature / Cooling mode down to +10 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

Outdoor unit		Single phase		
		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
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	202/142	193/130
	SCOP		5,12/3,63	4,90/3,32
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160/115	164/116
	SCOP		4,08/2,95	4,18/2,98
Sound power ¹⁾	Heat	dB(A)	59	59
	Cool			
Dimension	HxWxD	mm	865 x 1283 x 320	865 x 1283 x 320
Net weight		kg	99	104
Refrigerant (R32) / CO ₂ Eq. ²⁾		kg / T	1,3/0,878	1,3/0,878
Water pipe connector		Inch	R 1½	R 1½
Pump	Number of speeds		Variable Speed	Variable Speed
	Input power (Min/Max)	W	34/96	36/100
Heating water flow (ΔT=5 K, 35 °C)		L/min	14,3	20,1
Capacity of integrated electric heater		kW	3,00	3,00
Input power	Heat	kW	0,985	1,47
	Cool	kW	1,51	2,29
Running and starting current	Heat	A	4,7	7,0
	Cool	A	7,0	10,5
Power supply 1 = Compressor		A	12	17
Power supply 2 = Backup heater		A	13	13
Recommended fuse		A	30/15	30/15
Recommended cable size, supply 1 / 2		mm ²	3x 1,5/3x 1,5	3x 2,5/3x 1,5
Operating range - outdoor ambient	Heat	°C	-20 ~ 35	-20 ~ 35
	Cool	°C	+10 ~ +43	+10 ~ +43
Water outlet	Heat	°C	20 ~ 60	20 ~ 60
	Cool	°C	5 ~ 20	5 ~ 20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MDC models are hermetically sealed. * EER and COP calculation is based in accordance to EN14511.

Accessories

PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L - Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L - Stainless Steel
PAW-3WYVLY-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L

Accessories

CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
PAW-A2W-AFVLY	1 anti-freeze valve. It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.



GOOD DESIGN AWARD 2017



011-1W0510
011-1W0511

A++
ErP 55 °C
Scale from A+++ to D

A+++
ErP 35 °C
Scale from A+++ to D

A
DHW
Scale from A+ to F

Aquarea T-CAP All in One H Generation Single phase / Three phase. Heating and Cooling - R410A

Energy efficiency: A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

Kit	Single phase (Power to indoor)			Three phase (Power to indoor)		
	KIT-AXC09HE5	KIT-AXC12HE5	KIT-AXC09HE8	KIT-AXC12HE8	KIT-AXC16HE8	
Heating capacity / COP [A +7 °C, W 35 °C]	kW / COP	9,00/4,84	12,00/4,74	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP [A +7 °C, W 55 °C]	kW / COP	9,00/2,94	12,00/2,88	9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP [A +2 °C, W 35 °C]	kW / COP	9,00/3,59	12,00/3,44	9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP [A +2 °C, W 55 °C]	kW / COP	9,00/2,21	12,00/2,19	9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP [A -7 °C, W 35 °C]	kW / COP	9,00/2,85	12,00/2,72	9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP [A -7 °C, W 55 °C]	kW / COP	9,00/2,02	12,00/1,92	9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER [A 35 °C, W 7 °C]	kW / EER	7,00/3,17	10,00/2,81	7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER [A 35 °C, W 18 °C]	kW / EER	7,00/5,19	10,00/5,13	7,00/5,19	10,00/5,13	12,20/3,49
Heating average climate [W 35 °C / W 55 °C]	Seasonal energy efficiency	ηs %	181/130	170/130	181/130	170/130
	SCOP		4,59/3,32	4,32/3,32	4,59/3,32	4,32/3,32
Heating cold climate [W 35 °C / W 55 °C]	Seasonal energy efficiency	ηs %	160/125	160/125	160/125	150/125
	SCOP		4,08/3,20	4,08/3,20	4,08/3,20	3,83/3,20
Indoor unit	Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
	Dimension	H x W x D	mm	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717
Net weight		kg	124	124	126	126
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½
A class pump	Number of speeds	Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	36/152	36/152	36/152	36/152
Heating water flow [ΔT=5 K, 35 °C]		L/min	25,8	34,4	25,8	34,4
Capacity of integrated electric heater		kW	6,00	6,00	9,00	9,00
Power supply 1 = Compressor		A	29,0	29,0	10,4	11,9
Power supply 2 = Backup heater		A	26,0	26,0	13,0	13,0
Recommended fuse		A	30/30	30/30	16/16	16/16
Recommended cable size, supply 1 / 2		mm²	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5
Water volume		L	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW tank ERP efficiency average /cold 2)		A+ to F	A/A	A/A	A/A	A/B
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	95/2,37	95/2,37	95/2,37	91/2,27
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	75/1,87	75/1,87	75/1,87	72/1,80
Outdoor unit	Sound power 3)	Heat	dB(A)	66	66	65
	Dimension / Net weight	H x W x D	mm / kg	1340x900x320/101	1340x900x320/101	1340x900x320/108
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,85/5,951	2,85/5,951	2,85/5,951	2,90/6,055
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range / Elevation difference (in / out)		m / m	3-30/20	3-30/20	3-30/20	3-30/20
Pipe length for additional gas / Additional gas amount		m / g/m	10/50	10/50	10/50	10/50
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20-60/5-20	20-60/5-20	20-60/5-20	20-60/5-20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories

PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories

CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.
GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



**GOOD DESIGN
AWARD 2017**



011-1W0510
011-1W0511



Aquarea T-CAP All in One H Generation Three phase. Super Quiet outdoor unit. Heating and Cooling - R410A

Energy efficiency: A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Low noise level / Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

		Three phase (Power to indoor)			
Kit		KIT-AQC09HE8	KIT-AQC12HE8	KIT-AQC16HE8	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	16,00/4,28	
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,88	16,00/2,71	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44	16,00/3,10	
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	9,00/2,21	12,00/2,19	16,00/2,13	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/2,85	12,00/2,72	16,00/2,49	
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	9,00/2,02	12,00/1,92	16,00/1,86	
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	12,20/2,57	
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	12,20/3,49	
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	181/130	170/130	160/125
	SCOP		4,59/3,32	4,32/3,32	4,08/3,20
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160/125	160/125	150/125
	SCOP		4,08/3,20	4,08/3,20	3,83/3,20
Indoor unit	Energy class ¹⁾	A+++ to D	A+++/A++	A++/A++	A++/A++
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	HxWxD	mm	1800x598x717	1800x598x717	1800x598x717
Net weight		kg	126	126	126
Water pipe connector		Inch	R 1½	R 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	36/152	36/152	36/152
Heating water flow (ΔT=5 K, 35 °C)		L/min	25,8	34,4	45,9
Capacity of integrated electric heater		kW	9,00	9,00	9,00
Power supply 1 = Compressor		A	14,7	11,9	15,5
Power supply 2 = Backup heater		A	13,0	13,0	13,0
Recommended fuse		A	16/16	16/16	16/16
Recommended cable size, supply 1 / 2		mm ²	5 x 1,5/5 x 1,5	5 x 1,5/5 x 1,5	5 x 1,5/5 x 1,5
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L
DHW tank ERP efficiency average /cold ²⁾		A+ to F	A/A	A/A	A/B
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	95/2,37	95/2,37	91/2,27
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	75/1,87	75/1,87	72/1,80
Outdoor unit			WH-UQ09HE8	WH-UQ12HE8	WH-UQ16HE8
Sound power ³⁾	Heat	dB(A)	58	58	62
Dimension / Net weight	HxWxD	mm / kg	1410x1283x320/151	1410x1283x320/151	1410x1283x320/161
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,85/5,951	2,85/5,951	2,99/6,243
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range / Elevation difference (in / out)		m / m	3-30/20	3-30/20	3-30/20
Pipe length for additional gas / Additional gas amount		m / g/m	10/50	10/50	10/50
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20-60/5-20	20-60/5-20	20-60/5-20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-Block J and H Generation awarded with the prestigious Good Design Award 2017.



GOOD DESIGN AWARD 2017

011-1W0511

A+++
ErP 55 °C
Scale from A+++ to D

A+++
ErP 35 °C
Scale from A+++ to D

A
DHW
Scale from A+ to F

Aquarea T-CAP All in One Compact H Generation Single phase. Heating and Cooling · R410A

Energy efficiency: A+++ in heating at 35 °C and A in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: 598 x 600 footprint / Built-in magnetic water filter.

Comfort: Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

Single phase (Power to indoor)

Kit			KIT-AXC09HE5C	KIT-AXC12HE5C
Heating capacity / COP [A +7 °C, W 35 °C]	kW / COP		9,00/4,84	12,00/4,74
Heating capacity / COP [A +7 °C, W 55 °C]	kW / COP		-/-	-/-
Heating capacity / COP [A +2 °C, W 35 °C]	kW / COP		9,00/3,59	12,00/3,44
Heating capacity / COP [A +2 °C, W 55 °C]	kW / COP		-/-	-/-
Heating capacity / COP [A -7 °C, W 35 °C]	kW / COP		-/-	-/-
Heating capacity / COP [A -7 °C, W 55 °C]	kW / COP		-/-	-/-
Cooling capacity / EER [A 35 °C, W 7 °C]	kW / EER		7,00/3,17	10,00/2,81
Cooling capacity / EER [A 35 °C, W 18 °C]	kW / EER		-/-	-/-
Heating average climate [W 35 °C / W 55 °C]	Seasonal energy efficiency	ηs %	181/130	170/130
	SCOP		4,59/3,32	4,32/3,32
Heating cold climate [W 35 °C / W 55 °C]	Seasonal energy efficiency	ηs %	160/125	160/125
	SCOP		4,08/3,20	4,08/3,20
Energy class ¹⁾			A+++ / A++	A++ / A++
Indoor unit			WH-ADC1216H6E5C	WH-ADC1216H6E5C
Sound pressure	Heat / Cool	dB(A)	33/33	33/33
Dimension	H x W x D	mm	1640 x 598 x 600	1640 x 598 x 600
Net weight		kg	101	101
Water pipe connector		Inch	R 1/4	R 1/4
A class pump	Number of speeds		Variable Speed	Variable Speed
	Input power (Min/Max)	W	-/-	-/-
Heating water flow [ΔT=5 K, 35 °C]		L/min	25,80	34,40
Capacity of integrated electric heater		kW	6,00	6,00
Power supply 1 = Compressor		A	-	-
Power supply 2 = Backup heater		A	-	-
Recommended fuse		A	-/-	-/-
Recommended cable size, supply 1 / 2		mm ²	-/-	-/-
Water volume		L	185	185
Maximum DHW temperature		°C	65	65
Material inside tank			Stainless steel	Stainless steel
Tapping profile according EN16147			-	-
DHW tank ERP efficiency average / cold ²⁾		A+ to F	-/-	-/-
DHW tank ERP average climate η / COP _{DHW}		η _{wh} % / COP _{DHW}	92/2,30	92/2,30
DHW tank ERP cold climate η / COP _{DHW}		η _{wh} % / COP _{DHW}	72/1,81	72/1,81
Outdoor unit			WH-UX09HE5	WH-UX12HE5
Sound power ³⁾	Heat	dB(A)	66	66
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320 / 101	1340 x 900 x 320 / 101
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,85/5,951	2,85/5,951
Piping diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range / Elevation difference (in / out)		m / m	3~30/20	3~30/20
Pipe length for additional gas / Additional gas amount		m / g/m	10/50	10/50
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20~60/5~20	20~60/5~20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories

CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

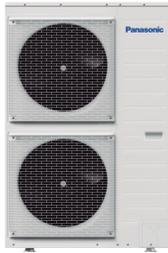
Accessories

CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



**GOOD DESIGN
AWARD 2017**



011-1W0510
011-1W0511



Aquarea T-CAP Bi-bloc H Generation Single phase / Three phase. Heating and Cooling - SXC · R410A

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

Kit	Single phase (Power to indoor)			Three phase (Power to indoor)		
	KIT-WXC09H3E5	KIT-WXC12H6E5	KIT-WXC09H3E8	KIT-WXC12H9E8	KIT-WXC16H9E8	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,88	9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44	9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	9,00/2,21	12,00/2,19	9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/2,85	12,00/2,72	9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	9,00/2,02	12,00/1,92	9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	7,00/5,19	10,00/5,13	12,20/3,49
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	181/130	170/130	181/130	170/130
	SCOP	4,59/3,32	4,32/3,32	4,59/3,32	4,32/3,32	4,08/3,20
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160/125	160/125	160/125	150/125
	SCOP	4,08/3,20	4,08/3,20	4,08/3,20	4,08/3,20	3,83/3,20
Energy class	A+++ to D	A+++ / A++	A++ / A++	A+++ / A++	A++ / A++	A++ / A++
	A+++ to D	A+++ / A++	A++ / A++	A+++ / A++	A++ / A++	A+++ / A++
Indoor unit		WH-SXC09H3E5	WH-SXC12H6E5	WH-SXC09H3E8	WH-SXC12H9E8	WH-SXC16H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33
Dimension	H x W x D	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340
Net weight		kg	43	43	44	45
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	32/102	34/110	32/102	34/110
Heating water flow (ΔT=5 K, 35 °C)		L/min	25,8	34,4	25,8	34,4
Capacity of integrated electric heater		kW	3,00	6,00	3,00	9,00
Power supply 1 = Compressor		A	29,0	29,0	14,7	11,9
Power supply 2 = Backup heater		A	13,0	26,0	13,0	13,0
Recommended fuse		A	30/30	30/30	16/16	16/16
Recommended cable size, supply 1 / 2		mm²	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	5 x 1,5 / 3 x 1,5	5 x 1,5 / 5 x 1,5
Outdoor unit			WH-UX09HE5	WH-UX12HE5	WH-UX09HE8	WH-UX12HE8
Sound power ¹⁾	Heat	dB(A)	66	66	65	65
Dimension	H x W x D	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Net weight		kg	101	101	108	108
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,85/5,951	2,85/5,951	2,85/5,951	2,85/5,951
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range		m	3-30	3-30	3-30	3-30
Elevation difference (in / out)		m	20	20	20	20
Pipe length for additional gas		m	10	10	10	10
Additional gas amount		g/m	50	50	50	50
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories

PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

Accessories

CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIREDLESS	Wireless LCD room thermostat



INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



GOOD DESIGN AWARD 2017



011-1W0510
011-1W0511

A++
ErP 55 °C
Scale from
A+++ to D

A+++
ErP 35 °C
Scale from
A+++ to D

Aquarea T-CAP Bi-bloc H Generation Three phase. Super Quiet outdoor unit. Heating and Cooling - SQC · R410A

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Low noise level / Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Three phase (Power to indoor)		
Kit			KIT-WQC09H3E8	KIT-WQC12H9E8	KIT-WQC16H9E8
Heating capacity / COP [A +7 °C, W 35 °C]	kW / COP		9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP [A +7 °C, W 55 °C]	kW / COP		9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP [A +2 °C, W 35 °C]	kW / COP		9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP [A +2 °C, W 55 °C]	kW / COP		9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP [A -7 °C, W 35 °C]	kW / COP		9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP [A -7 °C, W 55 °C]	kW / COP		9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER [A 35 °C, W 7 °C]	kW / EER		7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER [A 35 °C, W 18 °C]	kW / EER		7,00/5,19	10,00/5,13	12,20/3,49
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	181/130	170/130	160/125
	SCOP		4,59/3,32	4,32/3,32	4,08/3,20
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160/125	160/125	150/125
	SCOP		4,08/3,20	4,08/3,20	3,83/3,20
Energy class			A+++/A++	A++/A++	A++/A++
			A+++ to D	A++ to D	A++ to D
Indoor unit			WH-SQC09H3E8	WH-SQC12H9E8	WH-SQC16H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340
Net weight		kg	43	44	45
Water pipe connector		Inch	R 1½	R 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	32/102	34/110	30/105
Heating water flow (ΔT=5 K, 35 °C)		L/min	25,8	34,4	45,9
Capacity of integrated electric heater		kW	3,00	9,00	9,00
Power supply 1 = Compressor		A	14,7	11,9	15,5
Power supply 2 = Backup heater		A	13,0	13,0	13,0
Recommended fuse		A	15/30	15/30	15/30
Recommended cable size, supply 1 / 2		mm²	5 x 1,5/3 x 1,5	5 x 1,5/5 x 1,5	5 x 1,5/5 x 1,5
Outdoor unit			WH-UQ09HE8	WH-UQ12HE8	WH-UQ16HE8
Sound power ¹⁾	Heat	dB(A)	58	58	62
Dimension	H x W x D	mm	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	151	151	161
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,85/5,951	2,85/5,951	2,99/6,243
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range		m	3-30	3-30	3-30
Elevation difference (in / out)		m	20	20	20
Pipe length for additional gas		m	10	10	10
Additional gas amount		g/m	50	50	50
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20-60/5-20	20-60/5-20	20-60/5-20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



011-1W0463
011-1W0464
For 9 and 12 kW
single and three
phase.



Aquaarea T-CAP Mono-bloc J Generation Single phase / Three phase. Heating and Cooling - MXC - R32

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Built-in magnetic water filter.

Comfort: Constant capacity and operating range down to -20 °C / 65 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquaarea Smart and Service Cloud and integration into BMS projects.

Outdoor unit		Single phase			Three phase		
		WH-MXC09J3E5	WH-MXC12J6E5	WH-MXC09J3E8	WH-MXC12J9E8	WH-MXC16J9E8	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/5,08	12,00/4,80	9,00/5,08	12,00/4,80	16,00/4,52	
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	9,00/3,08	12,00/3,05	9,00/3,08	12,00/3,05	16,00/2,86	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,81	12,00/3,53	9,00/3,81	12,00/3,53	16,00/3,10	
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	9,00/2,54	12,00/2,42	9,00/2,54	12,00/2,42	16,00/2,07	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/3,08	12,00/2,82	9,00/3,08	12,00/2,82	16,00/2,39	
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	9,00/2,12	12,00/2,00	9,00/2,12	12,00/2,00	16,00/1,71	
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	9,00/3,18	12,00/2,90	9,00/3,09	12,00/2,84	14,50/2,84	
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	9,00/4,62	12,00/3,95	9,00/4,46	12,00/3,79	16,00/3,75	
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	195/140	195/140	195/140	195/140	176/129
	SCOP		4,96/3,57	4,96/3,57	4,96/3,57	4,96/3,57	4,46/3,31
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	169/127	169/127	169/127	169/127	150/125
	SCOP		4,31/3,26	4,31/3,26	4,31/3,26	4,31/3,26	3,83/3,20
Sound power ¹⁾	Heat	dB(A)	65	65	65	65	66
	Cool						
Dimension	HxWxD	mm	1410x1283x320	1410x1283x320	1410x1283x320	1410x1283x320	1410x1283x320
Net weight		kg	140	140	140	140	150
Refrigerant (R32) / CO ₂ Eq. ²⁾		kg / T	1,60/1,080	1,60/1,080	1,60/1,080	1,60/1,080	1,80/1,215
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½	R 1½
Pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	32/173	34/173	32/173	34/173	38/173
Heating water flow (ΔT=5 K, 35 °C)		L/min	25,8	34,4	25,8	34,4	45,9
Capacity of integrated electric heater		kW	3,00	6,00	3,00	9,00	9,00
Input power	Heat	kW	1,77	2,50	1,77	2,50	3,54
	Cool	kW	2,83	4,14	2,91	4,23	5,11
Running and starting current	Heat	A	8,3	11,6	2,6	3,7	5,3
	Cool	A	13,1	19,1	4,3	6,3	7,6
Power supply 1 = Compressor		A	29,0	29,0	14,7	11,8	16,4
Power supply 2 = Backup heater		A	13,0	26,0	13,0	13,0	13,0
Recommended fuse, supply 1 / 2		A	30/30	30/30	20/16	20/20	20/20
Recommended cable size, supply 1 / 2		mm ²	3x4,0 or 6,0/3x4,0	3x4,0 or 6,0/3x4,0	5x1,5/3x1,5	5x1,5/5x1,5	5x2,5/5x1,5
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	10 ~ +43	10 ~ +43	10 ~ +43	10 ~ +43	10 ~ +43
Water outlet ³⁾	Heat	°C	20 ~ 65	20 ~ 65	20 ~ 65	20 ~ 65	20 ~ 65
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MXC models are hermetically sealed. 3) It is possible to set temperature by 65 °C on remote controller. Normally, outlet water temperature is 60 °C or lower. In case of ΔT setting with remote controller is 15 °C and the outdoor ambient temperature is 5 to 20 °C, outlet water temperature 65 °C is possible. * EER and COP calculation is based in accordance to EN14511.

Accessories

PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L - Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L - Stainless Steel
PAW-3WYVLY-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L

Accessories

CZ-TAW1	Aquaarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
PAW-A2W-AFVLV	1 anti-freeze valve. It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



INTERNET CONTROL: Optional.



Aquarea HT Bi-bloc F Generation Single phase / Three phase. Heating Only - SHF · R407C

Energy efficiency: "A" water pump with variable speed.

Comfort: Operating range down to -20 °C outdoor temperature / 65 °C water outlet temperature

Kit		Single phase (Power to indoor)		Three phase (Power to indoor)		
		KIT-WHF09F3E5	KIT-WHF12F6E5	KIT-WHF09F3E8	KIT-WHF12F9E8	
Heating capacity / COP [A +7 °C, W 35 °C]	kW / COP	9,00/4,64	12,00/4,46	9,00/4,64	12,00/4,46	
Heating capacity / COP [A +7 °C, W 65 °C]	kW / COP	9,00/2,48	12,00/2,41	9,00/2,48	12,00/2,41	
Heating capacity / COP [A +2 °C, W 35 °C]	kW / COP	9,00/3,45	12,00/3,26	9,00/3,45	12,00/3,26	
Heating capacity / COP [A +2 °C, W 65 °C]	kW / COP	9,00/2,06	10,30/2,01	9,00/2,06	10,30/2,01	
Heating capacity / COP [A -7 °C, W 35 °C]	kW / COP	9,00/2,74	12,00/2,52	9,00/2,74	12,00/2,52	
Heating capacity / COP [A -7 °C, W 65 °C]	kW / COP	9,00/1,79	9,60/1,77	9,00/1,79	9,60/1,77	
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	153/125	150/125	153/125	150/125
	Energy class	SCOP	3,90/3,20	3,82/3,21	3,90/3,20	3,82/3,21
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	137/116	134/113	137/116	134/113
	Energy class	SCOP	3,50/2,97	3,42/2,90	3,50/2,97	3,42/2,90
Indoor unit		WH-SHF09F3E5	WH-SHF12F6E5	WH-SHF09F3E8	WH-SHF12F9E8	
Sound pressure	dB(A)	33	33	33	33	
Dimension	H x W x D	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	
Net weight	kg	46	47	47	48	
Water pipe connector	Inch	R 1½	R 1½	R 1½	R 1½	
A class pump	Number of speeds	7	7	7	7	
	Input power (Min/Max)	W	38/100	40/106	38/100	40/106
Heating water flow (ΔT=5 K, 35 °C)	L/min	25,8	34,4	25,8	34,4	
Capacity of integrated electric heater	kW	3,00	6,00	3,00	9,00	
Power supply 1 = Compressor	A	28,5	29,0	14,5	10,8	
Power supply 2 = Backup heater	A	13,0	26,0	13,0	13,0	
Recommended fuse	A	30/30	30/30	30/16	30/16	
Recommended cable size, supply 1 / 2	mm²	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	5 x 1,5 / 3 x 1,5	5 x 1,5 / 5 x 1,5	
Outdoor unit		WH-UH09FE5	WH-UH12FE5	WH-UH09FE8	WH-UH12FE8	
Sound power ¹⁾	dB(A)	—	—	—	—	
Dimension	H x W x D	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	
Net weight	kg	104	104	110	110	
Refrigerant (R407C) / CO ₂ Eq.	kg / T	2,90/5,145	2,90/5,145	2,90/5,145	2,90/5,145	
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	
Pipe length range	m	3-30	3-30	3-30	3-30	
Elevation difference (in / out)	m	20	20	20	20	
Pipe length for additional gas	m	10	10	10	10	
Additional gas amount	g/m	70	70	70	70	
Operating range	Outdoor ambient (Heat)	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	
Water outlet	Heat	°C	25 ~ 65	25 ~ 65	25 ~ 65	

¹⁾ Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories

PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled

Accessories

PAW-3WYVVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat





Aquarea HT Mono-bloc G Generation Single phase. Heating Only - MHF · R407C

Energy efficiency: "A" water pump with variable speed.

Comfort: Operating range down to -20 °C outdoor temperature / 65 °C water outlet temperature

		Single phase	
Outdoor unit		WH-MHF09G3E5	WH-MHF12G6E5
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00 / 4,64	12,00 / 4,46
Heating capacity / COP (A +7 °C, W 65 °C)	kW / COP	9,00 / 2,48	12,00 / 2,41
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00 / 3,45	12,00 / 3,26
Heating capacity / COP (A +2 °C, W 65 °C)	kW / COP	9,00 / 2,06	10,30 / 2,01
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00 / 2,74	12,00 / 2,52
Heating capacity / COP (A -7 °C, W 65 °C)	kW / COP	9,00 / 1,79	9,60 / 1,77
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	153 / 125
	SCOP		3,90 / 3,20
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	137 / 116
	SCOP		3,50 / 2,97
Sound power ¹⁾			
Dimension	H x W x D	mm	1410 x 1283 x 320
Net weight		kg	151
Refrigerant (R407C) / CO ₂ Eq. ²⁾		kg / T	1,92 / 3,406
Water pipe connector		Inch	R 1½
Pump	Number of speeds		7
	Input power (Min/Max)	W	—
Heating water flow (ΔT=5 K, 35 °C)		L/min	25,8
Capacity of integrated electric heater		kW	3,00
Input power		kW	1,94
Running and starting current		A	9,3
Power supply 1 = Compressor		A	28,5
Power supply 2 = Backup heater		A	13,0
Recommended fuse		A	30 / 30
Recommended cable size, supply 1 / 2		mm ²	3 x 4,0 or 6,0 / 3 x 4,0
Operating range	Outdoor ambient (Heat)	°C	-20 ~ +35
Water outlet	Heat	°C	25 ~ 65

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MHF models are hermetically sealed. * EER and COP calculation is based in accordance to EN14511.

Accessories

PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L - Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L - Stainless Steel

Accessories

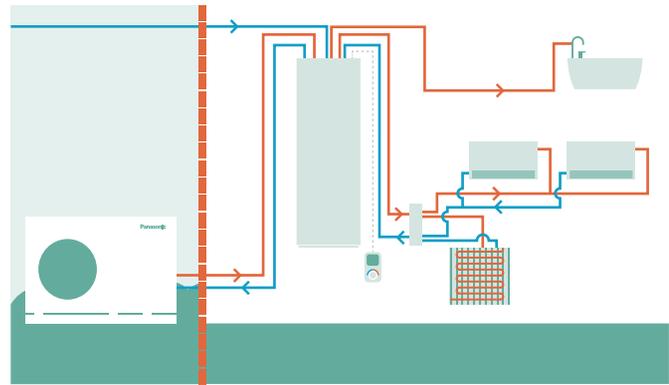
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L
PAW-A2W-AFVLV	1 anti-freeze valve. It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



Sanitary Tanks

Combo tanks.

The best option to combine with Mono-bloc units. DHW tank with buffer tank. Designed for retrofit applications, the DHW tank with a buffer tank is particularly suitable for fast integration on an existing installation. Easy to install, nice looking, high efficiency for DHW production and for heating.



Type		Enamelled		Stainless steel	
Reference		PAW-TD20B8E3-2		PAW-TD23B6E5	
Dimension HxWxD	mm	1770 x 640 x 690		1750 x 600 x 646	
Weight (empty)	kg	150		111	
Volume	L	185 + 80		230 + 60	
Power supply	V, Phase, Hz	230, 1, 50		230, 1, 50	
		Hot water tank		Hot water tank	
Volume	L	185	80	230	60
Max working pressure	MPa (bar)	0,8 (8)	0,6 (6)	1,0 (10)	0,3 (3,0)
Pressure test	MPa (bar)	1,2 (12)	0,9 (9)	1,5 (15)	0,39 (3,9)
Max working temp	°C	90	90	80	80
Connections	mm	Ø22	Ø22	Ø22	Ø22, copper
Material		S 275 JR vitrified	S235 JR	EN 14521	EN 14521
Insulation	Material, t=mm	PUR, 50	PUR 40	PUR, 50	PUR, 50
Heating coil surface	m ²	2,1	—	1,8	—
Electrical heater	W	3000	—	2800	—
Energy loss at 65 °C ¹⁾	kWh/24h	1,3	—	1,25	—
Energy efficiency class (from A+ to F) ²⁾		B	B	B	A
Standing loss	W	53	46	52	29

1) Tested pursuant to EN 12897:2006. 2) EU Regulation 812/2013. * Enamelled Combo Tank is produced by Lapesa. Stainless Steel Combo Tank is produced by OSO.



Buffer tanks.

Reference	PAW-BTANK50L-2	PAW-BTANK100L	PAW-BTANK200L	PAW-BTANK300L	
Capacity	L	48	100	199	289
Energy losses	W	35	55	50	66
Energy Efficiency Class (from A+ to F)	B	C	B	B	
Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	
Dimension (Hight / Diameter)	mm	636 / 430	1175 / 430	1275 / 595	1755 / 595
Net weight	kg	17	28	47	57

* Automatic air vent and drain cock are included. Built-in pocket sensor (sensor not included). ** Buffer Tank are produced by OSO.



Enamelled tanks.

Type	Enamelled Tank				Enamelled 2 coils Tank (for bivalent Solar + HP)	Square Tank
Reference	PAW-TA15C1E5STD	PAW-TA20C1E5STD	PAW-TA30C1E5STD	PAW-TA40C1E5STD	PAW-TA30C2E5STD	PAW-TA20C1E5C
Water volume	L	150	200	290	380	200
Maximum water temperature	°C	95	95	95	95	95
Dimension (Height / Diameter)	mm	1210/520	1340/610	1800/610	1835/670	1550 x 600 x 600
Weight / filled with water	kg	109/254	90/280	120/389	191/572	134 / 327
Electric heater	kW	—	3,00	3,00	3,00	—
Power supply	V	—	230	230	230	—
Material inside tank		Enamelled	Enamelled	Enamelled	Enamelled	Enamelled
Exchange surface	m ²	1,2	1,8	2,6	3,8	1,83
Energy loss at 65 °C ¹⁾	kWh/24h	1,45	1,37	1,61	1,76	1,37
3 way valve accessory PAW-3WYVLV-HW or CZ-NV1		Optional	Optional	Optional	Optional	Built-in 3 way valve
20 m temperature sensor cable included		Yes	Yes	Yes	Yes	Yes
Energy losses	W	60	57	67	73	57
Energy Efficiency Class (from A+ to F)		C	B	B	B	B
Warranty of the inner vessel		5 Years	5 Years	5 Years	5 Years	5 Years
Maintenance required		Every 2 years	Every 2 years	Every 2 years	Every 2 years	Every 2 years

1) Insulated tested under EN12897. * Enamelled Tanks and Square Tank are produced by AEmail.



Stainless steel tanks.

Reference	PAW-TD20C1E5	PAW-TD30C1E5	PAW-TD30C1E5-HI
Water volume	L	192	284
Maximum water temperature	°C	75	75
Dimension (Height / Diameter)	mm	1270/595	1750/595
Weight / filled with water	kg	50/—	61/—
Electric heater	kW	1,5	1,5
Power supply	V	230	230
Material inside tank		Stainless steel	Stainless steel
Exchange surface	m ²	1,8	2,35
Energy loss at 65 °C ¹⁾	kWh/24h	1,01	1,18
3 way valve accessory PAW-3WYVLV-HW or CZ-NV1		Optional	Optional
20 m temperature sensor cable included		Yes	Yes
Energy losses	W	42	49
Energy Efficiency Class (from A+ to F)		A	A
Warranty		2 Years	2 Years
Maintenance required		No	No

1) Insulated tested under EN12897. * Stainless Steel Tanks are produced by OSO.

Accessories for sanitary tanks

PAW-3WYVLV-HW 3 way valve for DHW Tanks

Accessories for sanitary tanks

CZ-NV1 3 way valve kit for inside of hydrokit