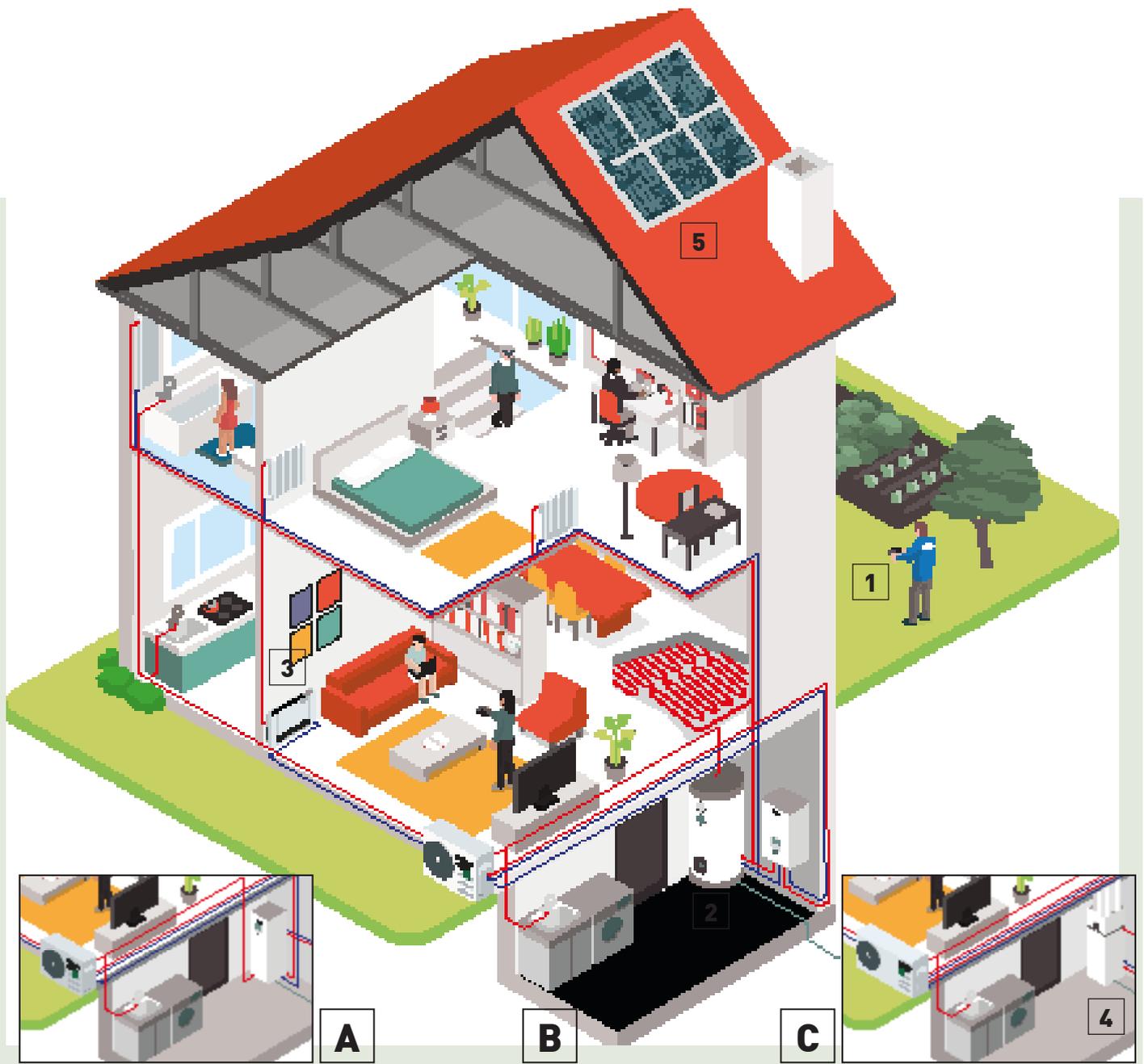


Aquarea Overview

Creating sustainable
comfort at home



Aquarea Heat Pump line-up



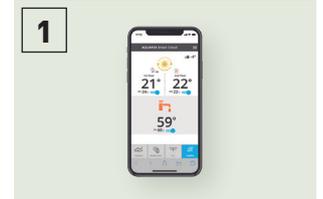
A All in One system.



B Bi-bloc system.



C Mono-bloc system.



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



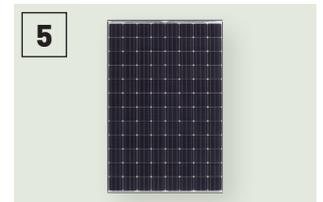
2 Super High Efficiency cylinder (optional).



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

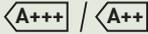
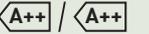
For extremely low temperatures, refurbishment and innovation.

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 °C outdoor temperature without the help of an electrical booster heater.

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.

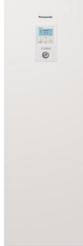
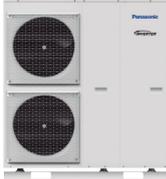
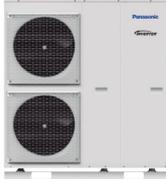
Aquarea High Performance	Aquarea T-CAP	Aquarea HT
 Heating - Cooling - DHW Single phase from 3 to 16 kW	 Heating - Cooling - DHW Single phase from 9 to 12 kW Three phase from 9 to 16 kW	 Heating - DHW Single phase from 9 to 12 kW Three phase from 9 to 12 kW
Connectable to		
 Radiators - Fan coil - Underfloor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

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) Scale from A+ to F. 3) 9 and 12 kW. 4) DHW maximum temperature with heater. 5) In case of outdoor temperature over -10 °C. 6) 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. 7) H Generation with CZ-NS4P, F and G Generation with Heat Pump Manager. * DHW Stand Alone is produced by S.A.T.E.

Aquarea Heat Pump range

		3 kW	5 kW	7 kW
Aquarea High Performance	All in One 1 Phase			
P. 19, 20, 21, 22	 KIT-G3ADC0309J3E5 WH-UD03JE5		KIT-G3ADC0309J3E5 WH-UD05JE5	KIT-G3ADC0309J3E5 WH-UD07JE5
P. 21, 22	Bi-bloc 1 Phase			
	 WH-SDC0305J3E5 WH-UD03JE5	WH-SDC0305J3E5 WH-UD03JE5	WH-SDC0305J3E5 WH-UD05JE5	WH-SDC0709J3E5 WH-UD07JE5
P. 23, 24	Mono-bloc 1 Phase			
	 WH-MDC05J3E5		WH-MDC05J3E5	WH-MDC07J3E5
Aquarea T-CAP	All in One 1 Phase			
P. 25, 28, 29				
P. 26, 27	Bi-bloc 1 Phase 3 Phase			
				
P. 28, 29	Mono-bloc 1 Phase 3 Phase			
				
Aquarea HT	Bi-bloc 1 Phase 3 Phase			
P. 30				
P. 31	Mono-bloc 1 Phase			
				

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

9 kW	12 kW	16 kW
 KIT-G3ADC0309J3E5 WH-UD09JE5-1	 KIT-G3ADC1216H6E5 WH-UD12HE5	 KIT-G3ADC1216H6E5 WH-UD16HE5
 WH-SDC0709J3E5 WH-UD09JE5-1	 WH-SDC12H6E5 WH-UD12HE5	 WH-SDC16H6E5 WH-UD16HE5
 WH-MDC09J3E5	 WH-MDC12H6E5	 WH-MDC16H6E5
 KIT-G3ADC1216H6E5UK WH-UX09HE5	 KIT-G3ADC1216H6E5UK WH-UX12HE5	
 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-MXC09H3E5 WH-MXC09H3E8 NEW WH-MXC09J3E5 WH-MXC09J3E8 ²⁾	 WH-MXC12H6E5 WH-MXC12H9E8 NEW WH-MXC12J6E5 WH-MXC12J9E8 ²⁾	 WH-MXC16H9E8 NEW WH-MXC16J9E8 ²⁾
 WH-SHF09F3E5 WH-UH09FE5 WH-SHF09F3E8 WH-UH09FE8	 WH-SHF12F6E5 WH-UH12FE5 WH-SHF12F9E8 WH-UH12FE8	
 WH-MHF09G3E5	 WH-MHF12G6E5	

DHW Tanks

DUO Pre-plumbed tank.

The best option to combine with Mono-bloc units. DHW tank with buffer tank. Designed for all applications, the DHW tank with a buffer tank is particularly suitable for fast integration on an existing installation. This tank includes a 3-way valve. Easy to install, and high efficiency for DHW production and for heating.



Model		PAW-TD20B7PP-UK		PAW-TD30B7PP-UK	
Dimension H x D		1992 x 550		2030 x 630	
Weight (empty)		51		64	
Volume		200+ 70		300+ 70	
Power supply	V-Ph-Hz	230, 1, 50		230, 1, 50	
		Hot water tank		Buffer tank	
Volume	L	185	70	285	30
Pressure regulating valve setting	bar	3	3	1,0 (10)	0,3 (3,0)
Expansion relief valve setting	bar	4.5	4.5	1,5 (15)	0,39 (3,9)
Temperature setting (P&T valve)	°C	95	—	95	—
Connections	inch	1" compression	1" compression	1" compression	1" compression
Expansion vessel size (volume)	litres	24	—	24	—
G3 kit included		YES	—	YES	—

Stainless steel DHW tanks.



Model		KIT-G3TD20C1E5	KIT-G3TD30C1E5
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	1,8
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
G3 Kit Included		YES	YES
Energy Efficiency Class (from A+ to F)		A	A
Warranty		2 Years	2 Years
Maintenance required		No	No

Buffer tanks.

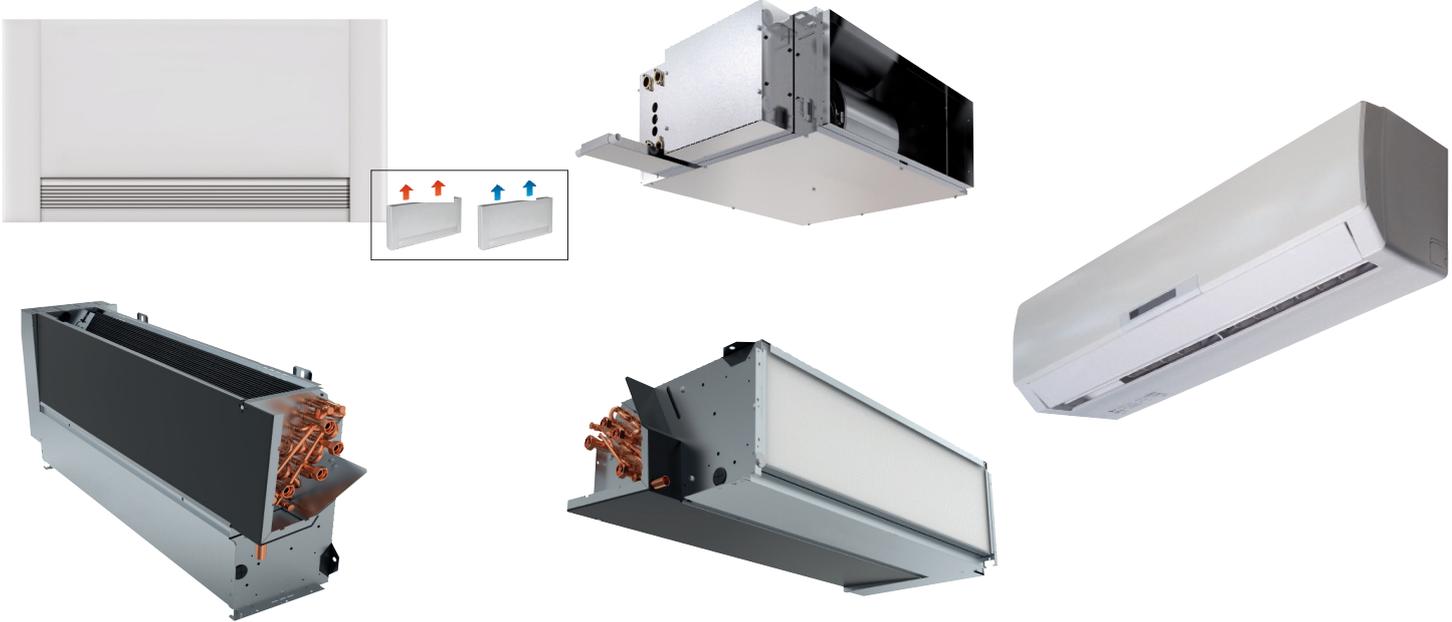


Model		PAW-BTANK50L-2	NEW PAW-BTANK100L	NEW PAW-BTANK200L	NEW PAW-BTANK300L
Capacity	L	48	100	199	289
Energy losses	W	35	55	50	66
Energy Efficiency Class (from A+ to F)		B	C	B	B
Material		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Dimension (Height / Diameter)	mm	636 / 430	1175 /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

MORE FAN COIL OPTIONS

Fan coils highlighted features

Designed with user in mind, perfectly designed to adapt to any installation. Providing comfort to hotels, shops, restaurants, offices or residential applications.



1 Innovation for an optimum comfort
 Range of fan coil for heating and cooling with capacities from 0,2 to 9,6 kW in cooling and from 0,2 to 13,6 kW in heating. Bring full year comfort with water based systems.

2 Energy efficient and low noise fan
 Dynamically balanced and specially designed fans, reinforced acoustic insulation and optimized fan speed staging for lower noise levels. Improved efficiency with optional EC fan motor.

3 Quality and efficient coil
 Constructed from staggered copper tubes, mechanically expanded into aluminium fins, providing maximum heat transfer efficiency, durability and hygiene.

4 Flexible installation
 Various types of unit to fit your needs with flexible installation options. A choice of service side for hydraulic connections, piping configuration and horizontal or vertical installation for ducted units.

Offering a great range of capacities and performance, presented in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location. Whether the requirements are for cooling only, or for both heating and cooling, there is a fan coil to suit. With a variety of piping and fan configuration, the range is capable of meeting the most stringent of requirement. Line up available in AC and EC fans, it is possible to achieve both powerful performance, but with sustainability in mind.

Wide range of controllers with sophisticated designs, provide a user friendly interface while enabling an easy and low cost integration to building management systems.



PAW-FC-RC1
 Optional wired remote controller for AC fan, 2-pipe and 4-pipe application.



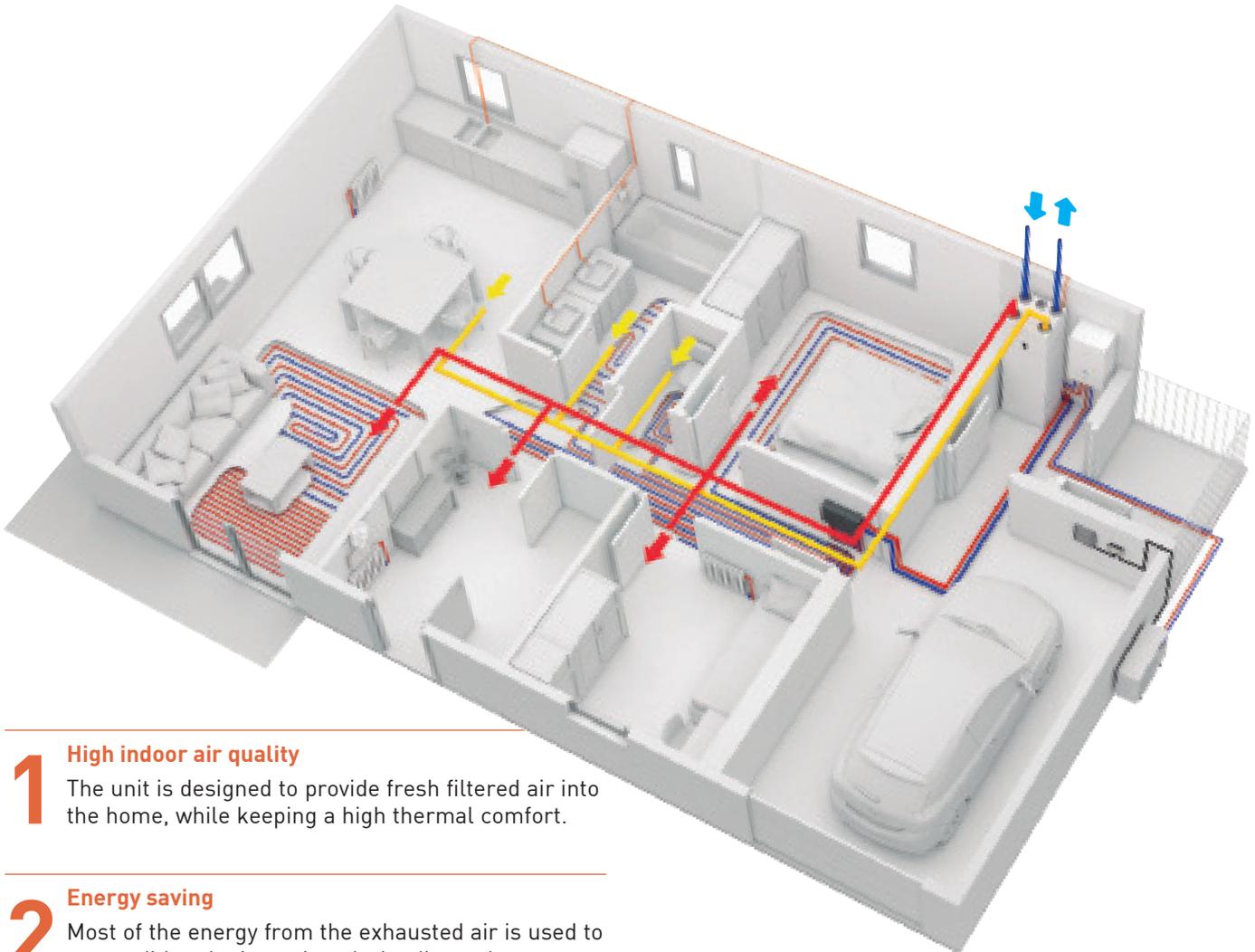
PAW-FC-TC903
 Optional wired remote controller for AC fan 2-pipe application.



PAW-FC-907TC
 Optional wired remote controller for EC fan, 2-pipe and 4-pipe application.

Heat recovery ventilation unit

The heat recovery ventilation unit is design not only to provide a good indoor air quality, but it is also designed to recover heat that would otherwise be lost throughout ventilation. These heat recovery ventilation systems are used in low energy homes to assist in the retention of heat.



1 High indoor air quality
The unit is designed to provide fresh filtered air into the home, while keeping a high thermal comfort.

2 Energy saving
Most of the energy from the exhausted air is used to precondition the incoming air, leading to lower heating requirements in the building.

3 Space saving
The compact ventilation unit can be installed over the DHW square tank or the Aquarea All in One Compact indoor unit for an space-saving solution.

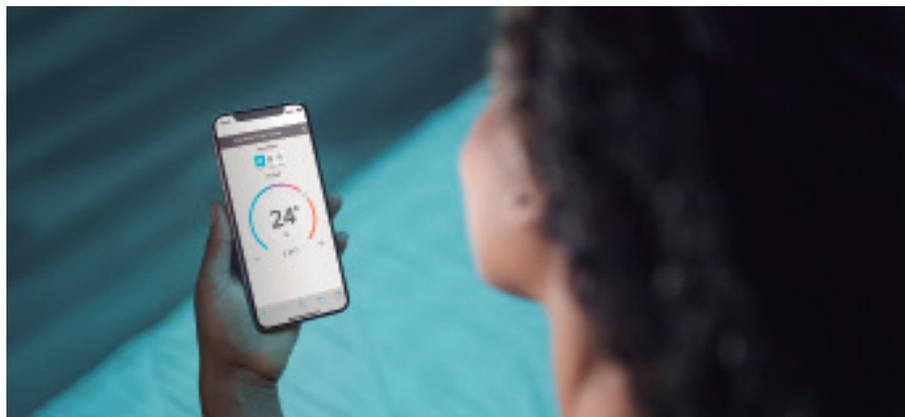
4 Better user interface
The Residential ventilation unit and the Aquarea heat pump can be controlled with one single user-friendly controller.

Heat recovery Ventilation unit		PAW-A2W-VENTA-R	PAW-A2W-VENTA-L
Nominal airflow rate	m ³ /h		204 @ 50 Pa
Maximum airflow rate	m ³ /h		292 @ 100 Pa
SPF			1,24 @ 204 m ³ /h
Heat exchanger rotor drive type			Variable speed
Exchanger type			Rotating
Heat recovery efficiency			84 %
Power supply	V / Hz		230 / 50 / 1 phase
Power consumption	W		176
Energy Class, basic unit			A
Energy Class, unit with local control on demand			A
Noise level	dB(A)		40
Dimension (W x H x D)	mm		598 x 450 x 500
Weight	kg		46
Mounting position			Vertical
Supply side		Right	Left
Duct connections	mm		DN125
Filter class, supply air			F7/ePM1 60 %
Filter class, extract air			M5/ePM10 50 %
Minimum outdoor temperature	°C		-20

Aquarea Smart Cloud for end users

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

WATCH DEMO



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.



* User interface image may change without notification.

Requirements

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

Functions:

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



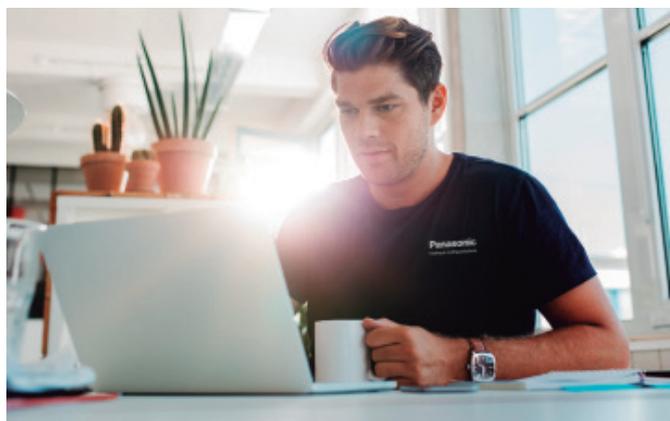
More possibilities with IFTTT.
IF This Then That: IFTTT service enables user to automatically trigger actions for Aquarea system based on other apps, web services or devices.



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.

Aquarea Service Cloud for Installers / Maintenance

WATCH DEMO



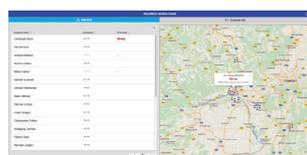
The real remote maintenance made simple

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.

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

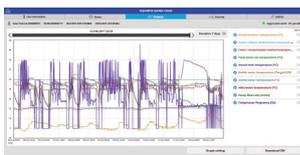
Home page



Status tab.



Statistics tab.



Settings tab.



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Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of the other refrigerant.
The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.