

# Panasonic

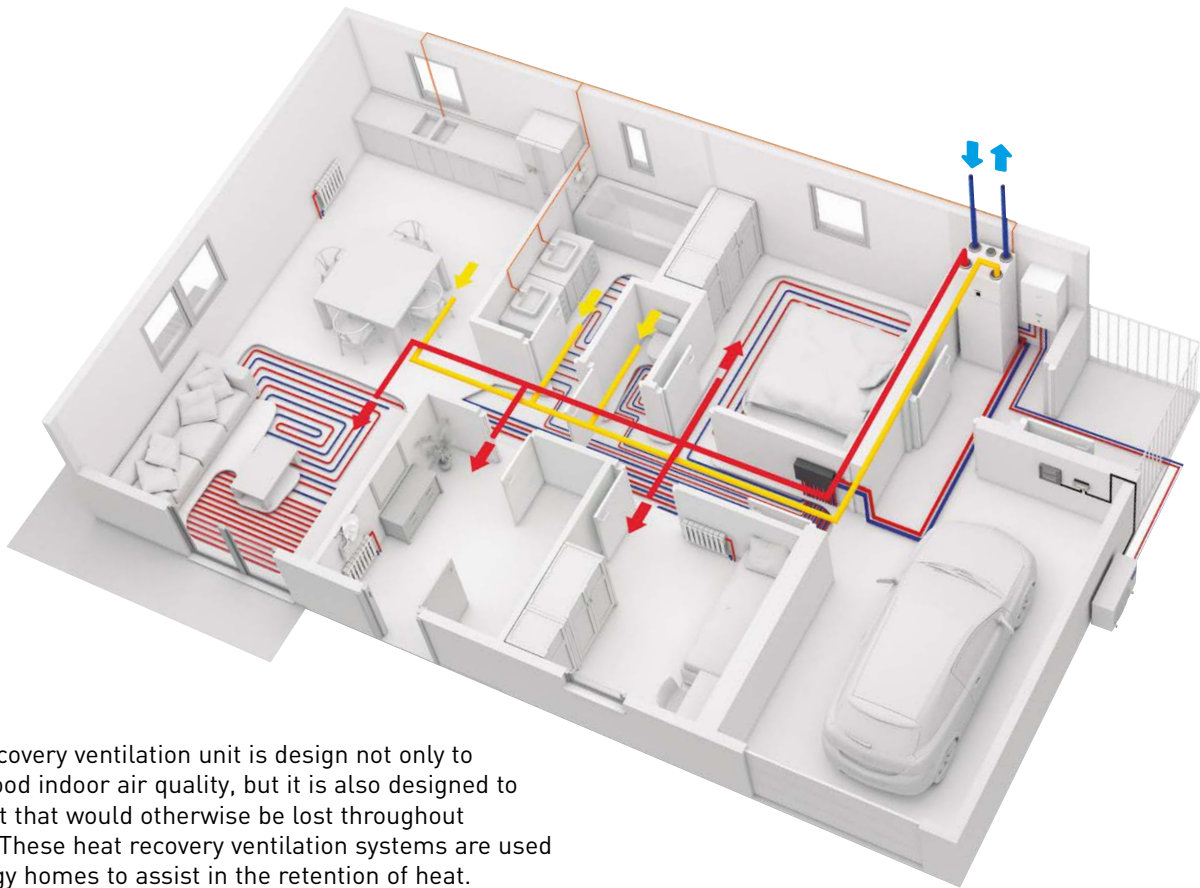


## Residential ventilation unit with Heat recovery

Ventilation systems with heat recovery offer users a high degree of living comfort thanks to temperature controlled and clean air. Heat recovery units are ideal for homes, for these owners who are looking for high performance and maximum comfort.



# Residential ventilation unit with heat recovery. Fresh filtered air and high energy savings



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.



### How Panasonic contributes to Nearly Zero Energy Buildings (NZEB)

#### Panasonic is committed to develop products with greater energy efficiency.

Our expertise gained over the years has helped to launch a range of products that contribute to a more carbon-free society.

Highly efficient Panasonic solutions can help to significantly reduce the energy consumption of the house:

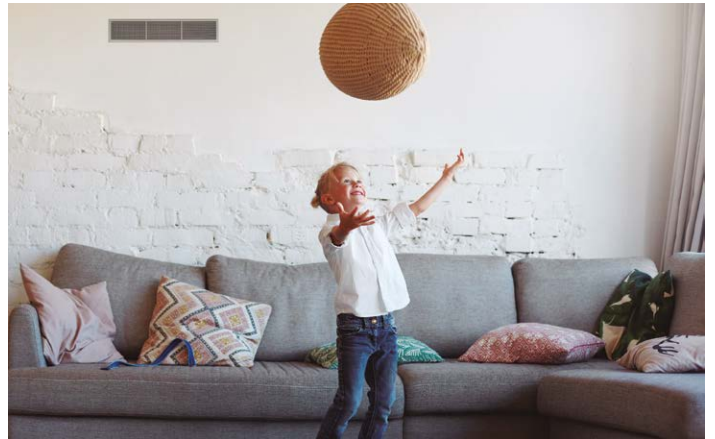
- Aquarea High performance heat pump for heating, cooling and domestic hot water production
- Aquarea Smart Cloud, for energy monitoring
- Heat recovery ventilation system
- PV panels to produce renewable energy on-site



The Residential ventilation unit with Heat recovery provides fresh filtered air into the house whilst retaining most of the energy that has been used in heating the house

### Main features of the Residential ventilation unit

- Designed for areas up to approximately 140 m<sup>2</sup>.
- High energy-efficiency rotary heat exchanger with EC - technology fans
- Moisture transfer function to minimize condensation in supply air during wintertime
- The built in humidity sensor in extract air can be used for demand control.
- Control via touch display and Startup Wizard for easy commissioning
- Modbus communication via RS-485
- Option to control an Aquarea H or J generation heat pump from PAW-A2W-VENTA control panel (PAW-AW-MBS-H and PAW-VEN-ACCPCB required)

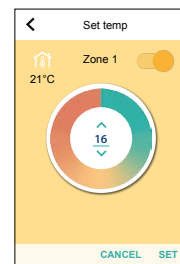
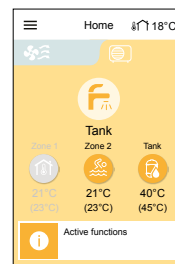
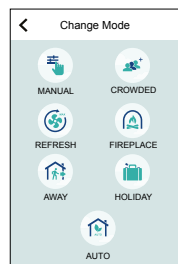


### Control user-friendly interface

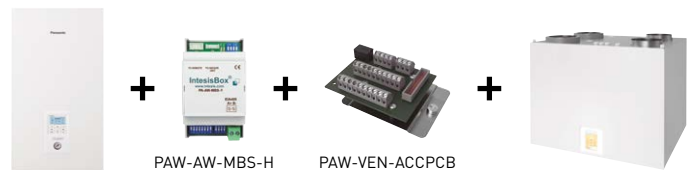
All settings and features accessible via a control panel, integrated into the front cover. The option for connecting one or more external control panels is available.

- Color touch screen with a user-friendly interface
- MANUAL and AUTO mode or choose preferred settings from the pre-configured user modes

- If Aquarea H and J series heat pumps are connected with PAW-A2W-VENTA, the heat pump control options appear on the home screen in a separate tab



How to integrate an Aquarea heat pump with the residential ventilation unit.



## AQUAREA

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



Heat Recovery Ventilation + Aquarea All in One Compact



Heat Recovery Ventilation + DHW Square Tank + Aquarea Mono-bloc



Heat Recovery Ventilation + DHW Square Tank + Aquarea Bi-bloc

## Heat Recovery Ventilation unit



Residential ventilation unit – air supply on the left side.



Residential ventilation unit – air supply on the right side.

Heat Recovery Ventilation unit		PAW-A2W-VENTA-R	PAW-A2W-VENTA-L
Nominal airflow rate	m <sup>3</sup> /h	204 @ 50 Pa	
Maximum airflow rate	m <sup>3</sup> /h	292 @ 100 Pa	
SPF		1,24 @ 204 m <sup>3</sup> /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	
<b>Energy Class, basic unit</b>		<b>A</b>	
<b>Energy Class, unit with local control on demand</b>		<b>A</b>	
Noise level	dB	38	
Dimensions (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	

\* Heat recovery efficiency according to EN 13141-7. \*\* Heat Recovery Ventilation unit is produced by Systemair & square tank by AEmail.



Find more information about the Residential ventilation unit in [www.panasonicproclub.com](http://www.panasonicproclub.com)

## Accessories (optional)



**PAW-VEN-DPL**  
Additional touch control panel. White frame (cable must be ordered separately).



**PAW-VEN-CBLEXT12**  
Cable with plug for electrical connection between unit and control panel, type CE and CD (12 m).



**PAW-VEN-DIVPLG**  
Twin plugs for installation of several control panels type CD or CE for one unit.



**PAW-VEN-DPLBOX**  
Touch control panel wall-mounted kit.



**PAW-VEN-S-C02RH-W**  
CO<sub>2</sub>, RH wall-mounted sensor.  
**PAW-VEN-S-C02-W**  
CO<sub>2</sub> wall-mounted sensor.



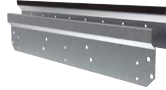
**PAW-VEN-S-C02-D**  
CO<sub>2</sub> duct sensor.



**PAW-VEN-FLTKIT**  
Supply and extract filters kit.



**PAW-VEN-ACCPCB**  
Optional PCB for additional functions.



**PAW-VEN-WBRK**  
Wall bracket kit for stand-alone installation on the wall.



**PAW-VEN-PTC08**  
0,8 kW PTC heater DN125.



**Square Tank (optional)**  
**PAW-TA20C1E5C**  
Square DHW tank. Compact dimensions (1550 x 600 x 600). The ventilation unit can be mounted on the tank.

# Panasonic®

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[uk-aircon@eu.panasonic.co.uk](mailto:uk-aircon@eu.panasonic.co.uk)

### Heating & Cooling Solutions

Panasonic Appliances Air Conditioning Europe (PAPAEU)  
Panasonic UK, a branch of Panasonic Marketing Europe GmbH  
Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT, UK

heating & cooling solutions