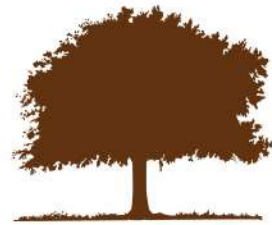


# Domestic Hot Water Heat Pump

EXPLORER EVO 200 Litre and 270 Litre  
EXPLORER RETRO 3.0kW



**PASSIVE  
HOUSE  
SYSTEMS**

Product Information

**2020-2022**



**LOW COST WATER HEATING 24/7  
ALL YEAR ROUND!**



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Our domestic hot water heat pumps – DHW Explorer Evo and the DHW\_HP Retro 3.0 use external air or used ventilation air for highly efficient water heating -all year round. The temperature of the exhaust air from the heat pump is 5-10 °C lower than input air, this difference is used to heat the water. The heat pump DHW Explorer Evo is a complete device that works with a market leading COP (coefficient of performance) of 3.8 while the DHW Retro works with your existing cylinder and has an amazing and market leading COP of 4.35.

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## All improvements at a glance The latest technology in one device...

- particularly high COP value: at 3.8 (as per EN 16147; A20/W10-55; XL)
- safe hygiene and legionella function
- easy assembly and installation
- small space and ceiling height requirement due to rotatable air connection sockets
- problem-free combination with other heating systems
- horizontal transport possible
- available at 270 and 200 L volumes, with or without a heat exchanger
- with photovoltaic function
- large colour display with accurate energy reading
- Application: -5°C to 43°C
- Smart Control

### Features Atlantic Explorer Evo

- with maintenance-free ACI hybrid external current anode
- 1.8 kW additional heating element – no calcification possible due to the dry heating element
- generously sized heat exchanger (1.2 m<sup>2</sup>) to connect further energy generators
- with circulation connection
- very quiet operation

Full range  
of ventilating  
accessories  
available

### Smart Control

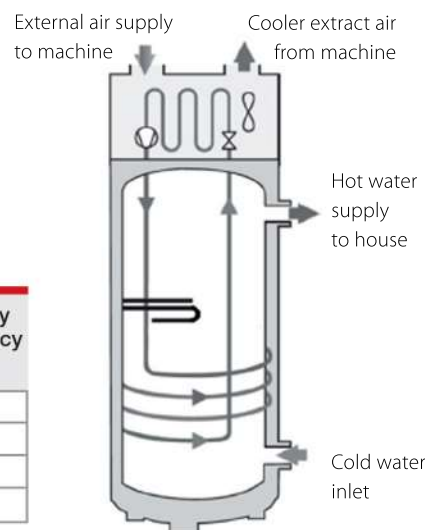
- Smart PV Control – intelligent photovoltaic boost function with two interfaces
- Smart Auto Control – self-learning optimal temperature per individual user profile
- Smart Control – select the most economical source of energy
- Smart Energy Control – accurate energy consumption indicator
- Smart Remote Control – I/O Home Control for control with smartphone/tablet
- Smart KWL – fan function for controlled ventilation

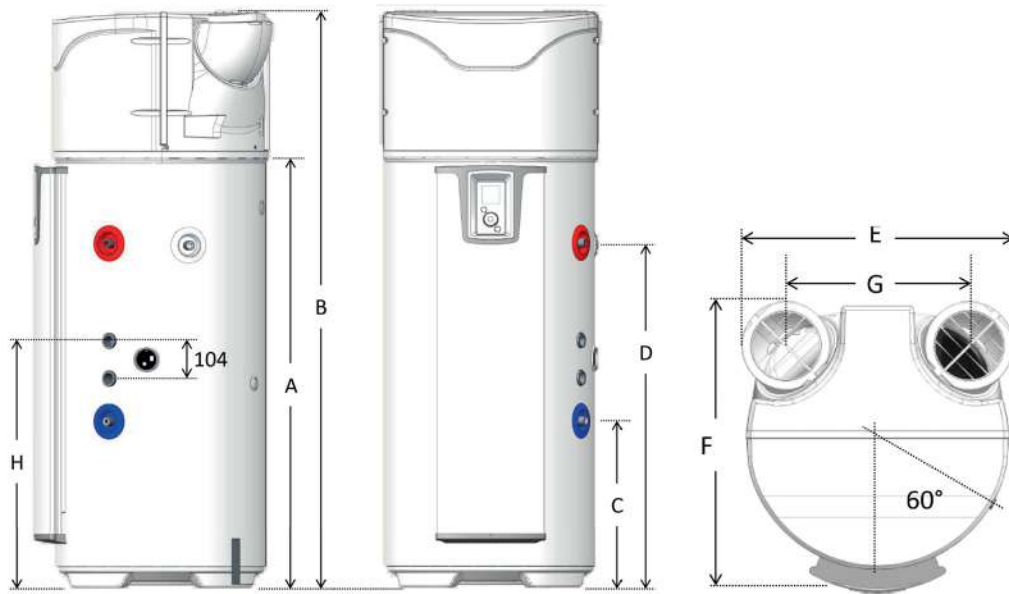
5 year  
Guarantee  
Storage tank

5 year  
Guarantee  
Electronics

### ECO DESIGN – LABELLING

Type	Heat Loss according to EN12897 in kWh/4h	Energy efficiency class
EXPLORER EVO 200	0.120	A+
EXPLORER EVO 200 with heat exchanger	0.124	A+
EXPLORER EVO 270	0.120	A+
EXPLORER EVO 270 with heat exchanger	0.144	A+





**DIMENSIONS** The total minimum height between floor and ceiling for 200 L should be the following: 1.81 m and for 300 L: 2.15 m.

Model	A Condensation run-off mm	B Height total mm	C Cold water inlet mm	D Warm water outlet mm	E Width total mm	F Depth total mm	G Centre distance openings mm	H Heat exchanger inlet mm
EXPLORER EVO 200	1221	1609	304	961	620	665	418	-
EXPLORER EVO 200 with heat exchanger	1221	1609	462	961	620	665	418	581
EXPLORER EVO 270	1562	1949	304	1300	620	665	418	-
EXPLORER EVO 270 with heat exchanger	1562	1949	462	1300	620	665	418	581

### TECHNICAL INFORMATION

Model		200 L	270 L
Dimensions (HxWxD)	mm	1609x620x665	1949x620x665
Empty weight (without heat exchanger)	kg	85	93
Empty weight (with heat exchanger)	kg	100	108
Memory capacity	L	200	270
Hot and cold water connection		3/4" M	3/4" M
Heat exchanger connection		1" M	1" M
Pipe coil heat exchange surface	m <sup>2</sup>	1.2	1.2
Heat exchange rate at 60°C	kW	16	16
Corrosion protection		ACI Hybrid	ACI Hybrid
Nominal pressure indicators	bar	8	8
Electrical Connection (voltage/frequency)	-	230 V/50 Hz	230 V/50 Hz
Maximum power consumption of the device	W	2465	2465
Maximum power consumption of the hot pump	W	665	665
Power consumption of electric booster heater	W	1800	1800
Adjustment range for domestic hot water temperature during WP operation	°C	40 to 62	40 to 62
Adjustment range for heat pump (air temperature range)	°C	-5 + 43	-5 + 43
Air duct connection diameter	mm	160	160
Air throughput (without air duct connection) Speed 1	m <sup>3</sup> /h	300	300
Air throughput (without air duct connection) Speed 2	m <sup>3</sup> /h	390	390
Reliable pressure drop in the air circuit without reduction in performance	Pa	25	25
Sound power level	dB(A)	50.3	50.3
Sound pressure level at 2 m without obstacles	dB(A)	33.5	33.5
Refrigerant quantity R134a	kg	1.25	1.35

Subject to technical alterations, errors and misprints excepted.



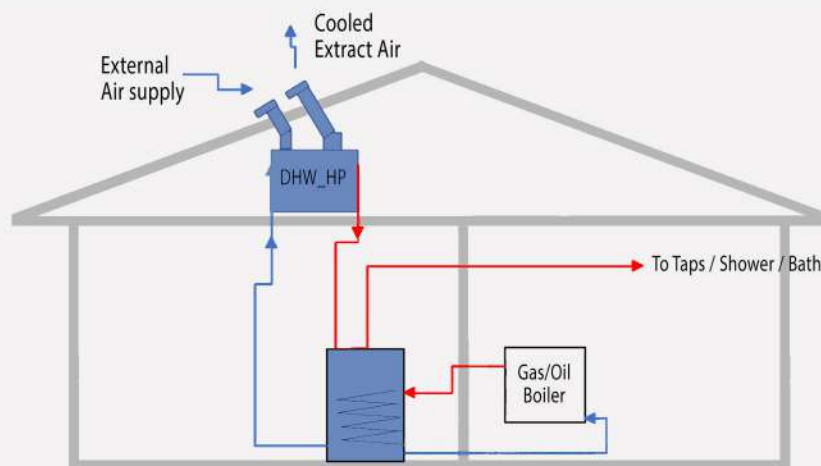


## MODULAR HEAT PUMP Retro 3.0kW HP

- For use with a new or existing domestic water heater (from 100 to 500 liters)
- Reliable and durable Panasonic rotary compressor, electronic expansion valve
- G-426 controller with the function of cooperation with the boiler and EKONTROL supervision
- High efficiency COP = 4.15 (A15 / W15-45) and very low noise level 45 dB (A) (in the source)
- Minimum recommended outside air temperature: -5 C
- Maximum hot water temperature: 60 C
- 3-year warranty (when registering the checklist)
- Circulation pump for DHW in scope of delivery

## SCHEME OF THE SYSTEM WITH A DHW\_HP\_RETRO HEAT PUMP

The Retro 3.0kW modular heat pump can be connected, for example, to an already existing DHW cylinder.



The heat pump is connected directly to the drinking water (no additional coil in the tank is required). The WILO ZRS 15/6 circulation pump is added as a standard in the price of the device.

### Heat pump performance

Nominal volume	L	100-500
Air operating range	°C	0-40
Achievable hot water temperature via heat pump	°C	60
Air flow	m <sup>3</sup> /h	350/500
Sound	dB(A)	45
Coefficient of performance A15/W15-45		4.35
Heating time		Depends on volume

### Dimensions and connections

Dimensions L/W/H	mm	720/600/490
Weight	kg	45
Air duct diameter	mm	150
Water connections	inch	3/4
Condensate tube	mm	16
Electrical supply		230V- 50Hz 1P&N
IP rating		IPX1
MCB type C		16

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