Air to Water Heat Pump

HP2000 series

- Low energy heating
- Typical Coefficient of Performance of 3
- Mains pressure
- 270 Litres capacity

Excellent low energy heating for domestic water. In principle it uses a reverse refrigeration process to transfer heat from the air into its water store. This is much more efficient than conventional heating, typically using only one third of the energy. It uses inlet and outlet air ducts to give flexibility in location. Since it is a mains pressure unvented heater a G3 safety kit is provided, requiring the usual discharge facility.

Characteristics

- Fully integrated single unit for domestic hot water.
- Compatible with conventional gas & oil boilers, and renewable energy boilers. A replacement for electric boilers.
- Typical Coefficient of Performance (COP) of 3, giving a fuel saving of 67%.
- Can be installed in garage, utility room, cupboard or other convenient space.
- Suitable for retrofit or new build.
- Similar size to an upright refrigerator: 60cm width, 72cm depth, 175cm height.
- Water storage capacity: 270 Litres. Replaces existing domestic water store when retrofitted.
- Provides approx. 800 Litres of hot water per 24 hours at mains pressure for excellent showers and fast bath filling.
- Additional heating coil for use in conjunction with existing gas or oil fired boiler.
- Modest capital cost.
- Alternative enclosures available to suit application.

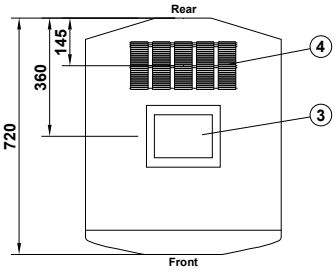
Technical data

Dimensions:	
H(max) x W x D (mm)	1750 x 600 x 720
Voltage	230Volt/50Hz
Coefficient of Performance	3.33*
Weight	165kg
Heat output:	
Heat pump	1.85kW*
Heating element	1.50kW
Max output	3.35kW
Power Consumed:	
Heat pump	0.55kW*
Heating element	1.50kW
Heating coil, surface VT157E	1.00m²
Heating coil, surface VT157E-2	0.6 + 1.50m²

Capacity	270L
Water temperature	28 to 55°C
Working temperature	-10 to 35°C
Quantity of air	200/300m³/h
Working pressure max.	10bar
Refrigerant medium	0.78kg (R134a)
Water Connections:	
Circulation	3/4" RT
Other connections	1“ RT

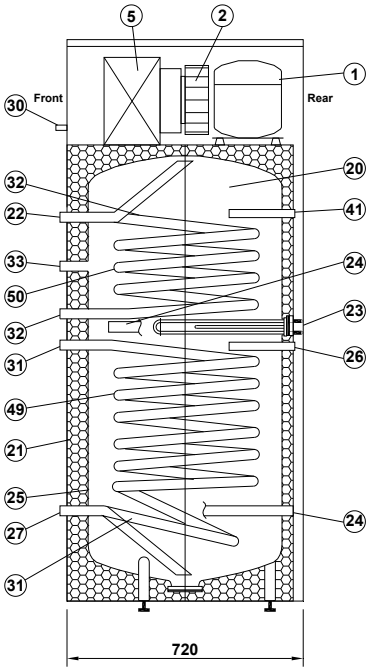
* Air temperature of 20°C 70% RH
* Water heating 15 to 47°C

Design Features

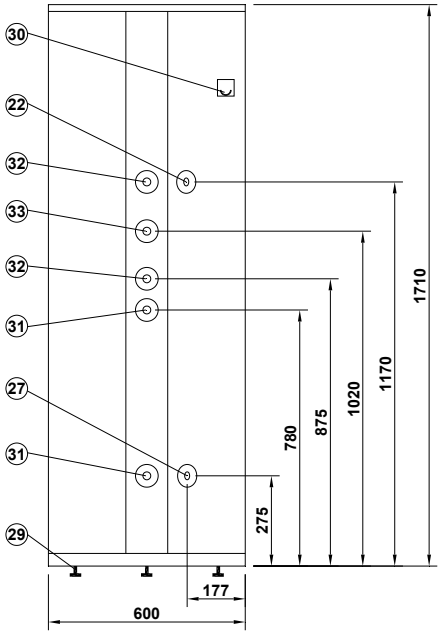


Plan (Top View)

01. Compressor
02. Fan
03. Air outlet
04. Air inlet
05. Evaporator
20. Water tank
21. Polyurethane insulation
22. Hot water outlet
23. Heating element
24. Magnesium anode upper
24. Magnesium anode lower*
25. D-tube condenser
26. Sensor socket-thermostat
27. Cold water inlet
29. Adjustable feet
30. Defrost water outlet
31. Connection lower heating coil
32. Connection upper heating coil*
33. Water circulation
41. Sensor socket-thermostat
49. Heating coil
50. Heating coil*
*only for VT157E-2



Section (Side Elevation)



Rear Elevation

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