UNDERFLOOR HEATING | HEAT PUMPS | SOLAR THERMAL

Nu-Heat UNDERFLOOR & RENEWABLES

Technical Bulletin

Nu-Heat EnergyMaster HP500 and HP500S cylinders

Nu-Heat's cylinder range is changing – 500-litre models will replace the HP540 and HP540 Solar

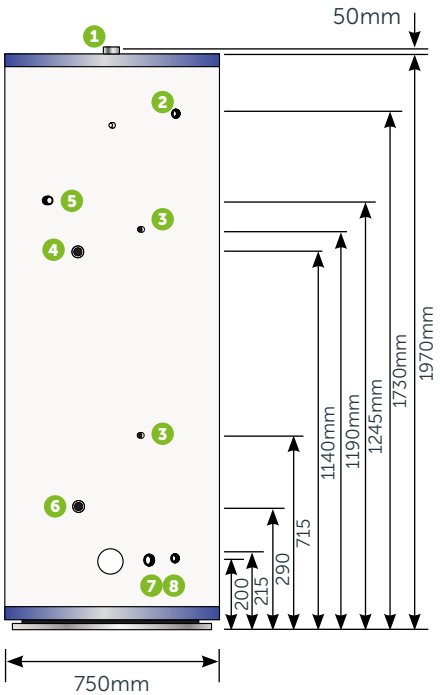
ENERGYMASTER HP500 AND ENERGYMASTER HP500 SOLAR

The 500-litre models are well matched to the larger heat pumps (both air and ground source) and for use where a property's water demand is greater.

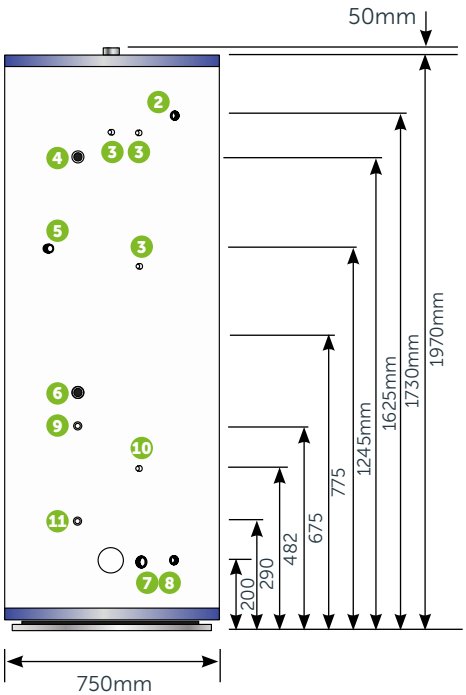
Both are supplied with all necessary components including:

- G3 inlet group
- Wholesome water expansion vessel
- Factory fitted T&P valve
- Over-temperature cut-out (GSHP and solar only)
- Drain valves
- Manual air vent for coil

EnergyMaster HP500



EnergyMaster HP500 Solar



Components

1. Domestic hot out
2. T&P relief valve
3. Sensor pockets
4. Heat pump flow (to cylinder)
5. Secondary hot water loop return
6. Heat pump return (from cylinder)
7. Cold mains in
8. Blanked off port, not used
9. Solar flow (to cylinder)
10. Solar sensor pocket
11. Solar return (from cylinder)

	EnergyMaster HP500	EnergyMaster HP500S
Total volume	500 litres	500 litres
Heat pump volume	500 litres	330 litres
Solar volume	-	170 litres
Cylinder weight (full)	581kg	588kg
Cylinder heat loss	2.37 kWh/day	2.37 kWh/day
Reheat time from 10-50˚C (reheat volume/power)	3 hours 50 mins (500 litres, 13kW)	2 hours 48 mins (330 litres, 13kW)

Cupboard sizing

The cylinder footprint is 750mm diameter.

Additional allowance must be made for connections at the front, 100mm at the top, and for other components, including the 50 litre floor standing expansion vessel.

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