StainlessLite HP

Unvented cylinders specifically designed to work with a heat pump

Gledhill have produced an unvented stainless steel unit specifically for heat pump applications providing mains pressure domestic hot water. Utilising the well established Gledhill Stainless Lite unvented hot water cylinder, this product has been developed to maximise the lower temperatures available from the heat pump.

The heat exchanger is a totally new design. It consists of a multi-pass corrugated stainless steel tube in parallel to reduce the pressure loss whilst maximising the heat exchange. Many medium to large heat pumps need heat exchangers in the store that will cope with the higher flow rates associated with primary temperatures that are typically 50˚C or 60˚C.

All the usual features of the Gledhill Stainless Lite are maintained together with all the necessary controls and expansion devices included.

Due to the fact that many heat pumps will not raise the stored water temperature to 60˚C, which is necessary to prevent the growth of legionella, the Stainless Lite HP model is supplied with an immersion heater tapping and a thermostat pocket.

It is recommended that a thermostat is fitted which brings the immersion heater ‘on’ at a temperature just below the heat pump maximum and switches off at 60˚C or 65˚C. In this way the use of ‘direct’ electricity is minimised and most of the water heating is achieved through the heat pump.

The key features of the Stainless Lite HP are:

- The latest and highest quality Duplex Stainless Steel.
- A 25 year guarantee.
- Fast reheat rate from its purpose designed low resistance coil.
- One of the highest insulation ratings on offer today.
- The Stainless Lite HP is supplied with all the necessary connections including two dry thermostat pockets.

Stainless Lite HP Technical Specification						
Description		**HP180IND**	**HP210IND**	**HP250IND**	**HP300IND**	**HP400IND**
Height	mm	1295	1483	1733	2020	2040
Diameter	mm	550	550	550	550	630
Weight (empty)	kg	33	38	43	49	61
Weight (full)	kg	213	248	293	349	461
Capacity	litres	180	210	250	300	400
Pressure regulator	bar	3	3	3	3	3
Expansion vessel size	litres	18	24	24	35	2 X 24
kW rating of heat pump coil	kW	24.3	26.2	27.5	34.2	47.2
Heat pump coil pressure loss	bar	0.048	0.054	0.060	0.019	0.027
Surface area of heat pump coil	m^2	1.36	1.56	1.94	2.04	2.91
Standing losses	kWhr/24hr	1.40	1.60	1.75	1.93	3.33
Surface area of solar coil	m^2	0.680	0.680	0.970	0.970	1.270
Dedicated solar volume	litres	65	75	90	105	130