

S-Cyl Pre-Plumbed Heat Pump Cylinder

180L–300L


WORLD HEAT
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of unvented pre-plumbed heat pump cylinders specifically for connection to Samsung air source heat pump systems.

All of our cylinders are manufactured from high quality stainless steel under an ISO9001 certified quality management system in our purpose made manufacturing facility in Manchester.

Key features

- Pre-plumbed for Samsung heat pumps
- Includes the Samsung FN touch screen controller
- Integrated 50L stainless steel buffer (30L on slim units)
- Saves installation time
- Prevents installation faults
- 25 year manufacturing warranty on the stainless vessel
- 12 month manufacturing warranty on components
- Highly insulated (ErP rated)
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management
- Potable expansion vessel and 28mm flow sensor supplied separately

Model	180SCYLPPSS	210SCYLPPSS	250SCYLPPSS	300SCYLPPSS
Nominal capacity (litres)	180	210	250	300
Overall cylinder dimensions H x W x D (mm)	1550 x 550 x 700	1738 x 550 x 700	1988 x 550 x 700	1994 x 600 x 750
Integrated buffer (litres)	50			
Weights (kg)	Empty	84	90	96
	Full	314	350	396
	Packaged	89	95	101
Unvented expansion vessel	Nominal volume	18L	18L	18L
	Charge pressure	3.0 Bar		
Control & relief valve pressure settings	Mains inlet pressure regulator	3.0 Bar		
	Expansion relief valve	6.0 Bar		
	T&P relief valve	7.0 Bar & 90°C		
Control & overheat safety thermostat settings	DHW control stat	Samsung FN touch screen controller		
	High limit stat	Mechanical 90°C		
	Voltage	230 - 240 V		
	Electronic immersion	Samsung FN touch screen controller		
Cylinder material	Duplex StainlessSteel			
DHW immersion heater duty	3kW (13 Amps 230V ac)			
Primary (buffer) immersion heater duty	3kW (13 Amps 230V ac)			
Heating surface area (m²)	2.29	3.31	3.31	3.31
Secondary return	No	Yes	Yes	Yes
Insulation type	Polyurethane (PU) Insulation with CO2 Blowing Agent			
Insulation thickness	50mm			
System circulating pump	Grundfos UPM3 8m head, A rated			
Central heating zone valve	Honeywell 28mm, 2 port (1 No.)			
Domestic hot water zone valve	Honeywell 28mm, 3 port diverter (1 No.)			
Central heating controller	3rd party controls			
Hot water controller	Samsung controller and dual thermostat			
Magnetic filter	28mm magnetic filter			
Flow setter valve	28mm inline flow sensor (supplied loose)			
Primary pressure drop of cylinder pipework	11kPa @ 17 litres per minute			
Re-heat time	35 - 45 minutes			
Standing heat loss (W)	71.25	78.75	87.5	92.5
ErP rating	C			
ODP of insulation	0			
GWP of insulation	Less than 5			

* Solar twin coil units available on request

