

## Product Information

### World Heat Cylinders

#### S-Cyl

#### Pre-Plumbed Heat Pump Cylinders

Issue: February 2024



**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.



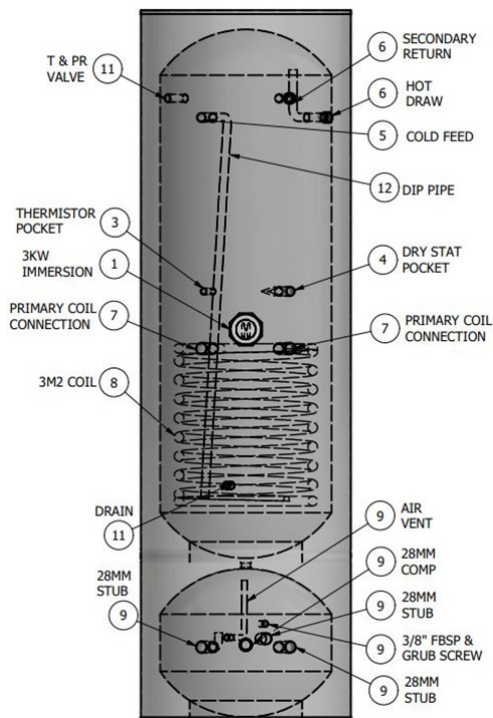
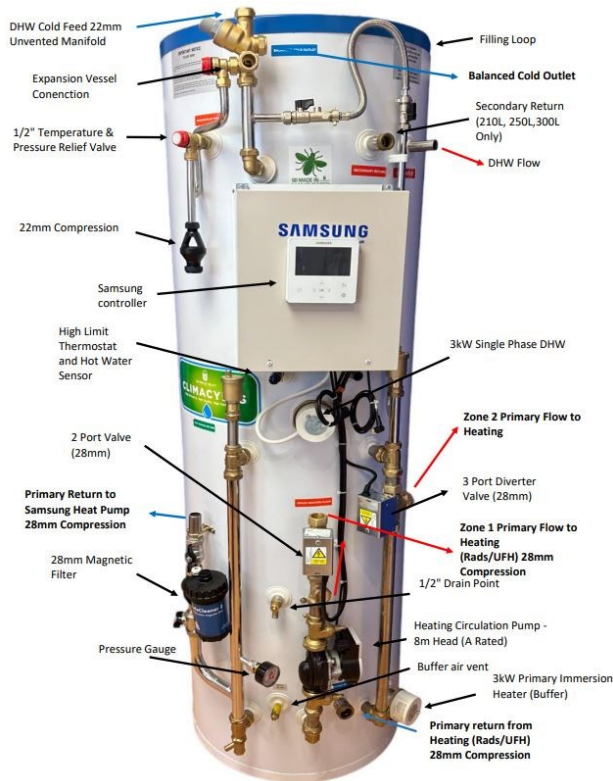
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**All of our cylinders are manufactured from high quality stainless steel under an ISO9001 certified quality management system in our purpose made manufacturing facility in Manchester.**

#### Key Features

- Pre-plumbed for Samsung Heat Pumps\*
- Integrated 50L Stainless steel Buffer
- Saves Installation Time
- Prevents Installation Faults
- 25 Year Manufacturing Warranty on 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 & 28mm Flow Sensor Supplied Separately
- Primary Pipe Work and Components are all 28mm Compression



All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement

WH Model Reference		150SCYLPPSS	180SCYLPPSS	210SCYLPPSS	250SCYLPPSS	300SCYLPPSS
Nominal Capacity (Litres)		150	180	210	250	300
Overall Shipping Dimensions H x W x D (mm)		1725x600x900	2050x600x900	1920x600x900	2220x600x900	2125x1200x1200
Overall Cylinder Dimensions H x W x D (mm)		1505x550x600	1630x550x600	1820x550x600	2020x550x600	2020x600x650
Weights (kg)	Empty	65.5	69.5	75	81	88
	Full	215.5	249.5	285	331	388
	Packaged	77	81	86	92	99
Unvented Expansion Vessel	Nominal Volume	12L	19L	19L	19L	24L
	Charge Pressure	3.0 Bar				
Control & Relief Valve Pressure Settings	Mains Inlet Pressure Regulator	3.0 Bar				
	Expansion Relief Valve (Cold)	6.0 Bar				
	T&P Relief Valve	7.0 Bar & 90°C				
Control & Overheat Safety Thermostat Temperature Settings	DHW Control Stat ON/OFF	Samsung Controller				
	High Limit Stat	Mechanical 90°C				
	Voltage	230 - 240 V				
	Electronic Immersion Timer	Samsung Controller				
Cylinder Material		Duplex Stainless Steel (25 year manufacturing warranty)				
DHW Immersion Heater Duty		3kW (13 Amps 230v ac)				
Primary (Buffer) Immersion Heater Duty		3kW (13 Amps 230v ac)				
Heating Surface Area		2m <sup>2</sup>	2m <sup>2</sup>	3m <sup>2</sup>	3m <sup>2</sup>	3m <sup>2</sup>
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 Pipe Work		16kPa @ 17 Litres per minute				
Re-Heat Time		35—45 Minutes				
Standing Heat Loss (W)		64.58	69.3	78.9	90.4	92.6
ERP Rating		B	B	B	B	B
ODP of Insulation		0	0	0	0	0
GWP of Insulation		Less than 5	Less than 5	Less than 5	Less than 5	Less than 5