

## Product Information

### World Heat Cylinders

#### S-Cyl Slimline

#### 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.



World Heat Cylinders  
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Tudor Industrial Estate  
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SK16 4RN

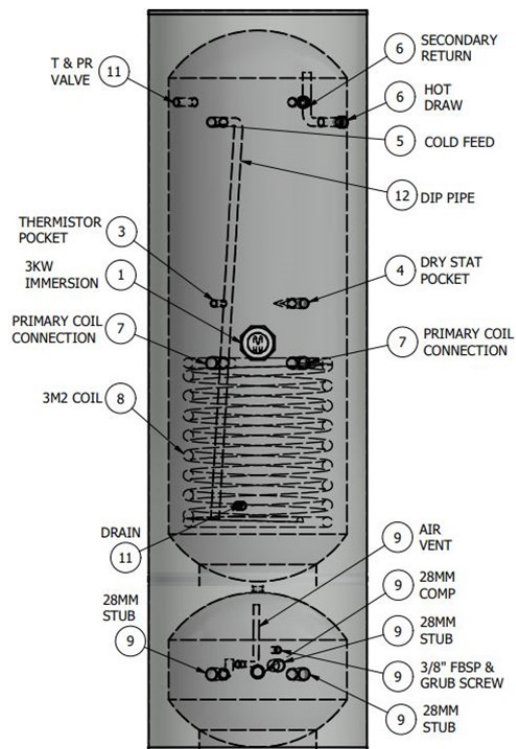
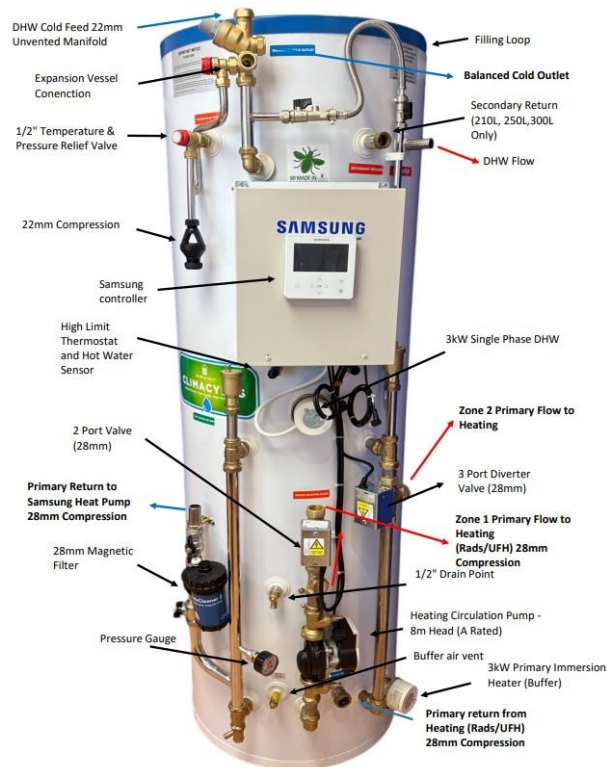
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**All of our cylinders are manufactured from high quality stainless steel under an ISO9001 certified quality management system in our purpose made manufacturing facility in Manchester.**

#### Key Features

- Pre-plumbed for Samsung Heat Pumps\*
- Integrated 25L Mild 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

\* Samsung Heat Pump not included



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

WH Model Reference		150SCYLPPSLIMSS	180SCYLPPSLIMSS
Nominal Capacity (Litres)		150	180
Overall Shipping Dimensions H x W x D (mm)		2000x600x900	2100x600x900
Overall Cylinder Dimensions H x W x D (mm)		1900x475x600	2085x475x600
Weights (kg)	Empty	65.5	69.5
	Full	215.5	249.5
	Packaged	77	81
Unvented Expansion Vessel	Nominal Volume	12L	19L
	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>
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
ERP Rating		B	B
ODP of Insulation		0	0
GWP of Insulation		Less than 5	Less than 5