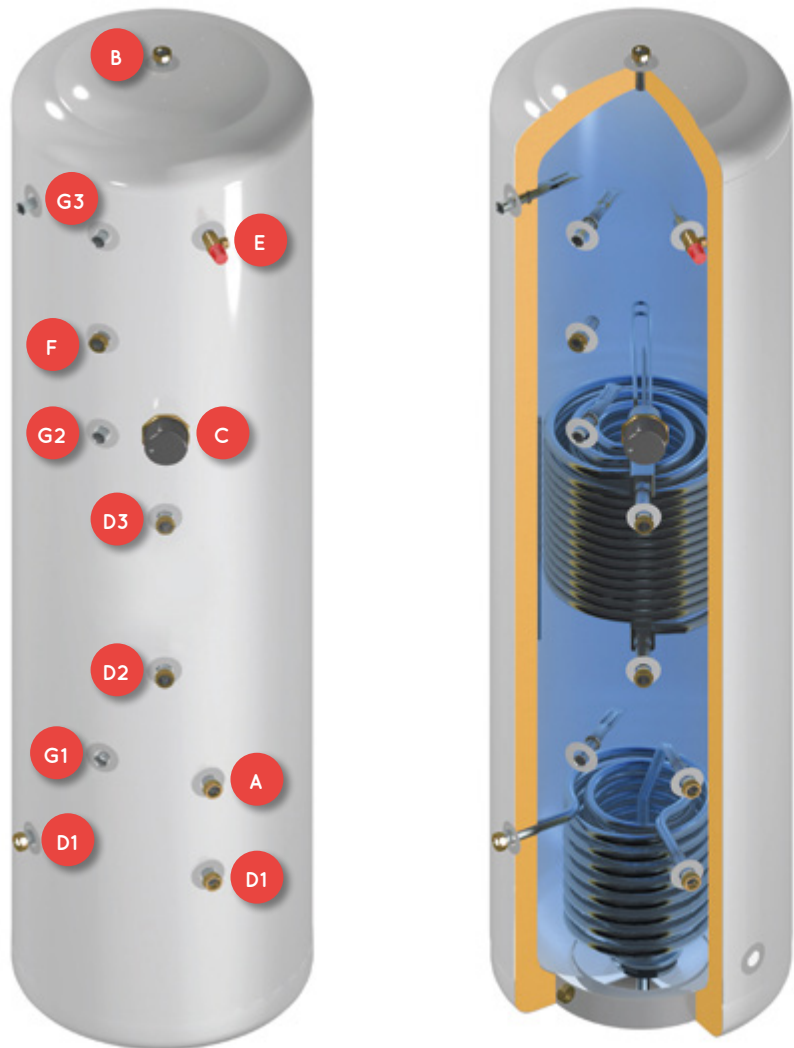


# Envirocyl™ Twin Coil Heat Pump / Solar Cylinder

Envirocyl™ twin coil heat pump / solar cylinders have been designed for use with heating systems where solar thermal is used to compliment an air source heat pump.

The cylinders feature purpose-designed solar and air source heat pump coils with a large surface area to allow maximum heat transfer of renewable energy into the stored water. The primary heating coil connects to the air source heat pump as the main heat source, with the secondary heating coil connected to the solar thermal system for back-up heating. A factory-fitted 3 kW immersion heater is also supplied as standard.

Available in a range of capacities, the cylinders are recommended for use with Firebird EnviroSol™ Solar Thermal Systems in conjunction with a Firebird Enviroair™ air source heat pump.



## Connections

- A** 22mm cold feed with dip pipe to diffuser
- B** 22mm hot water outlet
- C** Immersion heater\*
- D1** 22mm solar coil connections
- D2** Heat pump connection (return)
- D3** Heat pump connection (flow)
- E** 1/2" NPT x 15mm temperature & pressure relief valve\*
- F** 22mm secondary return (cylinders with a capacity of 210 litres and above only)
- G1** Dry stat pocket (solar)
- G2** Dry stat pocket (heat pump)
- G3** Dry stat pockets

## Connection Locations

Nominal Cap. (L)	A	B	C	D1	D2	D3	E	F	G1	G2	G3
	(mm)										
210	465	1496	1008	365	560	910	1270	1150	420	1008	1270
250	465	1746	1100	365	652	1002	1520	1400	420	1100	1520
300	465	2059	1170	365	725	1075	1830	1600	420	1173	1830

\*Factory fitted

## Product Information

Product Code	Capacity Litres	Height mm	Diameter mm	ErP Rating*	Standing Loss
ASH180HPS	180	1308	550	C	69
ASH210HPS	210	1496	550	C	73
ASH250HPS	250	1746	550	C	91
ASH300HPS	300	2055	550	C	87

## Technical Information

Product Code	Dedicated Solar Vol. Litres	DHW Expansion Vessel Litres	Weight (empty) kg	Heat-up Time min	ASHP Coil kW	Solar Coil kW	Heat Loss kW/24h	3 kW Immersion Heater
ASH180HPS	51.8	18	58	Refer to Enviroair™ Installation Manual	28.3	18.48	1.66	X 1
ASH210HPS	60.3	18	59		28.1	19.75	1.76	X 1
ASH250HPS	72.3	18	65		27.4	20.68	2.19	X 1
ASH300HPS	87.1	25	77		26.7	22.08	2.09	X 1

## Supplied with



**Acetal tundish**  
22mm x 15mm



**Inlet control set**  
with balanced cold  
22mm x 15mm



**Twin port valves**  
22mm



**Potable water expansion vessel**



**Dual thermostat**  
(Heat Pump)



**High Limit thermostat**



**Temperature & pressure relief valve\*\***  
1/2" NPT x 15mm (7 bar/90°C)



**Immersion heater\*\***  
3kW - 14"

\* Based on thermostat set a 60°C

\*\*Factory fitted