



TEMPEST HEAT PUMP CYLINDERS

THINK CYLINDERS. FIT TELFORD.

THE HOT WATER STORAGE SPECIALISTS

— EST. 1989 —

Contents

3.	Heat Pump Single Coil
4.	Heat Pump & Solar Twin Coil
5.	Heat Pump Single Coil Slimline
6.	Heat Pump with Combined Buffer (tank on tank)
7.	Heat Pump Twin Coil Horizontal
8.	Heat Pump Pre-Plumbed (Universal)
9.	Heat Pump with Integral Buffer Pre-Plumbed (Universal)
10.	Heat Pump Pre-Plumbed (LG)
11.	Heat Pump Pre-Plumbed (Samsung)
12.	Create your own Heat Pump Cylinder
13.	Buffer Stores & Volumisers 30L-500L



The Telford Family

Telford Copper & Stainless Cylinders Ltd are specialists in the design and manufacture of hot water storage solutions. Based in the UK for over 35 years, the extensive range of high performance cylinders are manufactured using premium quality materials and carry extensive warranties*

Air source heat pumps are a key solution for decarbonising homes, and their installation as an alternative to fossil fuel boilers is critical to meeting the UK's legally binding commitment to achieve net zero by 2050. Telford Copper & Stainless Cylinders LTD offer a range of heat pump cylinders which are designed to maximise the performance and operating efficiency of an air source heat pump.

As air and ground source heat pumps typically operate at a lower temperature and a higher flow rate than standard indirect and direct vented cylinders, we specify a purpose-designed coil with a 3m² surface area to allow maximum heat transfer of renewable energy into the stored water. Available as standard, or time-saving pre-plumbed options (which include an integrated 30 or 50 litre buffer store), all cylinders are supplied with a 3kW immersion heater to provide product back-up heat and perform legionella disinfection cycle.

To simplify the installation process further, we also offer a compact air-to-water air source heat pump, heating and domestic hot water package, with a pre-plumbed, indirect, unvented stainless steel hot water storage cylinder.

All Telford cylinders are supported by an in-house technical team and a national network of service engineers. This dedicated support service is available before, during or after the purchase of any Telford product.

*Terms & Conditions apply – visit our website www.telford-group.com

Tempest Heat Pump

Single Coil

ERP RATING

C

- High efficiency DN32 coil with large surface area and durable design
- Front-facing connections for ease of install
- 22mm compression secondaries
- Unvented kit included



Product Code	TSMI 200/HP	TSMI 250/HP	TSMI 300/HP	TSMI 400/HP	TSMI 500/HP
Nominal Capacity (L)	200	250	300	400	500
Height (mm)	1500	1800	1780	1590	1835
Diameter (mm)	554	554	580	660	660
Standing Heat Loss (kWh/24h)	1.85	2.00	2.22	2.42	2.49
Standing Loss (W)	77	83	92	101	104
ERP Rating	C	C	C	C	C
HP Coil Surface Area (m ²)	3	3	3	3	3
Empty Weight (kg)	46	55	61	68	75
Full Weight (kg)	240	301	355	459	560
Max incoming Supply Pressure (bar)	12	12	12	12	12
Operating Pressure (bar)	3	3	3	3	3
Immersion Heating Rating	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v

* 400 & 500L supplied with 1" F BSP secondaries as standard (unvented kit to suit)

Tempest Heat Pump & Solar Twin Coil

ERP RATING

C

- High efficiency DN32 HP coil with large surface area and durable design
- Solar coil included
- Stat pockets for solar sensors included
- Front-facing connections for ease of install
- 22mm compression secondaries
- Unvented kit included



Product Code	TSMI 200/HP/S	TSMI 250/HP/S	TSMI 300/HP/S	TSMI 400/HP/S	TSMI 500/HP/S
Nominal Capacity (L)	200	250	300	400	500
Height (mm)	1500	1800	1780	1590	1835
Diameter (mm)	554	554	580	660	660
Standing Heat Loss (kWh/24h)	1.85	2.00	2.22	2.42	2.49
Standing Loss (W)	77	83	92	101	104
ERP Rating	C	C	C	C	C
HP Coil Surface Area (m ²)	3	3	3	3	3
Solar Coil Surface Area (m ²)	1.2	1.2	1.2	1.4	1.6
Empty Weight (kg)	48	57	63	71	74
Full Weight (kg)	242	303	357	462	564
Max incoming Supply Pressure (bar)	12	12	12	12	12
Operating Pressure (bar)	3	3	3	3	3
Immersion Heating Rating	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v

Tempest Heat Pump

Single Coil Slimline

ERP RATING

C

- High efficiency DN32 HP coil with up to 3m² surface area and durable design, unique design to fit slim internal shell
- Front facing connections for ease of install
- 22mm compression connections
- Unvented kit included
- Slim footprint for tight installs



Product Code	TSMI 150SL/HP	TSMI 170SL/HP	TSMI 200SL/HP
Nominal Capacity (L)	150	170	200
Height (mm)	1200	1500	1800
Diameter (mm)	470	470	470
Standing Heat Loss (kWh/24h)	1.72	1.92	2.04
Standing Loss (W)	73	80	83
ERP Rating	C	C	C
HP Coil Surface Area (m ²)	2	2	3
Empty Weight (kg)	40	44	52
Full Weight (kg)	488	214	254
Max incoming Supply Pressure (bar)	12	12	12
Operating Pressure (bar)	3	3	3
Immersion Heating Rating	3kw @ 240v	3kw @ 240v	3kw @ 240v

Tempest Heat Pump

with Combined Buffer (tank on tank)

ERP RATING

C

- High efficiency DN32 HP coil with up to 3m² surface area and durable design
- Built-in 50L buffer store
- Buffer supplied with 4 x 28mm compression connections, drain and immersion heater
- Front-facing connections for ease of install
- 22mm compression connections



Product Code	TSMI 150/50/HP	TSMI 170/50/HP	TSMI 200/50/HP	TSMI 250/50/HP	TSMI 300/50/HP
Nominal Capacity (L)	150	170	200	250	300
Height (mm)	1460	1315	1525	1778	2040
Diameter (mm)	554	580	580	580	580
Buffer Store Volume (L)	50	50	50	50	50
Standing Heat Loss (kWh/24h)	1.85	1.94	1.97	2.11	2.28
Standing Loss (W)	77	81	82	88	95
ERP Rating	C	C	C	C	C
HP Coil Surface Area (m ²)	2	2	3	3	3
Empty Weight (kg)	70	79	88	98	110
Full Weight (kg)	219	247	282	344	404
Max incoming Supply Pressure (bar)	12	12	12	12	12
Operating Pressure (bar)	3	3	3	3	3
Immersion Heating Rating	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v

Heat Pump

Twin Coil Horizontal

ERP RATING

C

- High efficiency DN32 coil with large surface area and durable design
- Useful for low ceilings and lofts
- 22mm compression connections
- Unvented kit included
- Efficient coil configuration



Product Code	TSMI 200H/HP	TSMI 250H/HP	TSMI 300H/HP
Nominal Capacity (L)	200	250	300
Length (mm)	1500	1800	1780
Diameter & Height on Cradles (mm)	510/610	510/610	554/654
Standing Heat Loss (kWh/24h)	1.85	2.00	2.22
Standing Loss (W)	77	83	92
ERP Rating	C	C	C
HP Coil Surface Area (m ²)	3	3	3
Empty Weight (kg)	46	55	61
Full Weight (kg)	240	301	355
Max incoming Supply Pressure (bar)	12	12	12
Operating Pressure (bar)	3	3	3
Immersion Heating Rating	3kw @ 240v	3kw @ 240v	3kw @ 240v

Tempest Heat Pump

Pre-Plumbed (Universal)

ERP RATING

C

- High efficiency DN32 HP coil with large surface area and durable design
- Front-facing connections for ease of install
- 22mm compression connections
- Unvented kit included
- Universal Pre-Plumbed Solution
- G3 compliant pipework ready for final fix
- 3port valve as standard
- Mag filter included
- Electrical parts pre-wired to junction box



Product Code	TSMI200/ HP/PP	TSMI250/ HP/PP	TSMI300/ HP/PP	TSMI400/ HP/PP	TSMI500/ HP/PP
Nominal Capacity (L)	200	250	300	400	500
Height (mm)	1500	1800	1780	1590	1835
Diameter (mm)	554	554	580	660	660
Standing Heat Loss (kWh/24h)	1.85	2.00	2.22	2.42	2.49
Standing Loss (W)	77	83	92	101	104
ERP Rating	C	C	C	C	C
HP Coil Surface Area (m ²)	3	3	3	3	3
Empty Weight (kg)	64	72	85	94	98
Full Weight (kg)	262	318	382	494	596
Max incoming Supply Pressure (bar)	12	12	12	12	12
Operating Pressure (bar)	3	3	3	3	3
Immersion Heating Rating	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v

* 400 & 500L supplied with 1" F BSP secondaries as standard (unvented kit to suit)

Tempest Heat Pump

with Integral Buffer Pre-Plumbed (Universal)

ERP RATING

C

- High efficiency DN32 HP coil with large surface area and durable design
- Built in 50L buffer store
- Buffer supplied with 4 x 28mm compression connections, drain and immersion heater
- Front facing connections for ease of install
- 22mm compression connections
- Unvented kit included
- Universal Pre-Plumbed Solution
- G3 compliant pipework ready for final fix
- 3 port valve as standard
- Mag filter included
- Electrical parts pre-wired to junction box



Product Code	TSMI150/ 50/HP/PP	TSMI70/ 50/HP/PP	TSMI200/ 50/HP/PP	TSMI250/ 50/HP/PP	TSMI300/ 50/HP/PP
Nominal Capacity (L)	150	170	200	250	300
Height (mm)	1460	1315	1525	1778	2040
Diameter (mm)	554	580	580	580	580
Buffer Store Volume (L)	50	50	50	50	50
Standing Heat Loss (kWh/24h)	1.85	1.94	1.97	2.11	2.28
Standing Loss (W)	77	81	82	88	95
ERP Rating	C	C	C	C	C
HP Coil Surface Area (m ²)	2	2	3	3	3
Empty Weight (kg)	82	91	100	110	122
Full Weight (kg)	231	257	298	357	417
Max incoming Supply Pressure (bar)	12	12	12	12	12
Operating Pressure (bar)	3	3	3	3	3
Immersion Heating Rating	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v

Tempest Heat Pump

Pre-Plumbed (LG)

ERP RATING

C

- High efficiency DN32 HP coil with large surface area and durable design
- Front-facing connections for ease of install
- 22mm compression connections
- Unvented kit included
- LG DHW PHLTB factory fitted
- Pipework suitable for LG heat pumps
- G3 compliant pipework ready for final fix
- 3 port valve as standard
- Mag filter included
- Electrical parts pre-wired to junction box



Product Code	TSMI200/50/ HP/PP/LG	TSMI250/50/ HP/PP/LG	TSMI300/50/ HP/PP/LG
Nominal Capacity (L)	200	250	300
Height (mm)	1525	1778	2040
Diameter (mm)	580	580	580
Standing Heat Loss (kWh/24h)	1.97	2.11	2.28
Standing Loss (W)	82	88	95
ERP Rating	C	C	C
HP Coil Surface Area (m ²)	3	3	3
Empty Weight (kg)	100	110	122
Full Weight (kg)	298	357	417
Max incoming Supply Pressure (bar)	12	12	12
Operating Pressure (bar)	3	3	3
Immersion Heating Rating	3kw @ 240v	3kw @ 240v	3kw @ 240v

Tempest Heat Pump

Pre-Plumbed (Samsung)

- High efficiency DN32 HP coil with large surface area and durable design
- Front-facing connections for ease of install
- 22mm compression connections
- Unvented kit included
- Samsung MIM board factory-fitted
- Pipework suitable for Samsung heat pumps
- G3 compliant pipework ready for final fix
- Plate heat exchanger supplied and fitted
- Mag filter included
- Electrical parts pre-wired to junction box



Product Code	TSMI200/HP/ PP/SAM	TSMI250/HP/ PP/SAM	TSMI300/HP/ PP/SAM	TSMI400/HP/ PP/SAM	TSMI500/HP/ PP/SAM
Nominal Capacity (L)	200	250	300	400	500
Height (mm)	1500	1800	1780	1590	1835
Diameter (mm)	554	554	580	660	660
Standing Heat Loss (kWh/24h)	1.85	2.00	2.22	2.42	2.49
Standing Loss (W)	77	83	92	101	104
ERP Rating	C	C	C	C	C
HP Coil Surface Area (m ²)	3	3	3	3	3
Empty Weight (kg)	64	72	85	94	98
Full Weight (kg)	262	318	382	494	596
Max incoming Supply Pressure (bar)	12	12	12	12	12
Operating Pressure (bar)	3	3	3	3	3
Immersion Heating Rating	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v	3kw @ 240v

* 400 & 500L supplied with 1" F BSP secondaries as standard (unvented kit to suit)

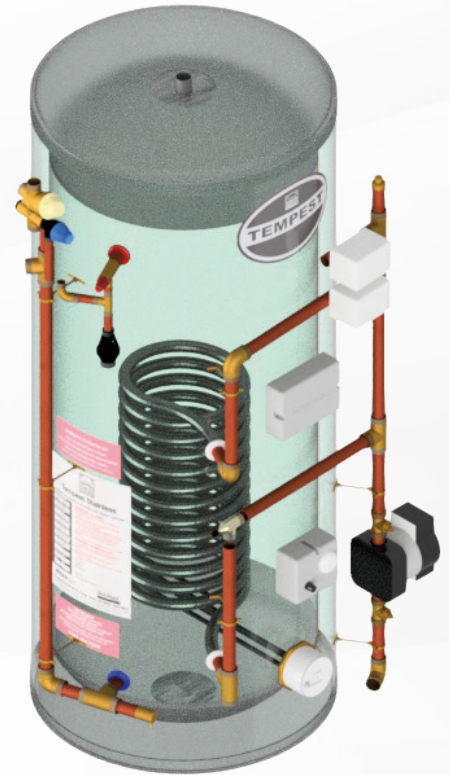
Create your own Heat Pump Cylinder

Your Bespoke Product

ERP RATING

C

Notes



Your Requirements

Send your design to technical@telford-group.com

Buffer Stores & Volumisers

30L - 500L

ERP RATING

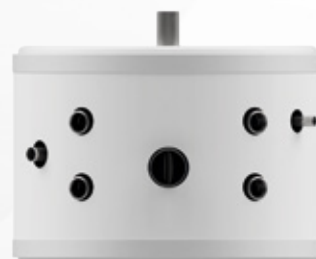
C

- 5 x 1" Female BSP connections
- Front-facing connections for ease of install
- 2 x Dry stat pockets
- Thermostat included
- 3kw Immersion included
- T&P & Tundish included
- Additional connections or coils available on request



Capacity (L)	Product Code	Height (mm)	Diameter (mm)	Standing Heat Loss (kWh/24hrs)	ERP Rating	Empty Weight (kg)	Full Weight (kg)	Operating Pressure (bar)
90	SPS090BUFF	750	510	1.58	C	30	117	3
125	SPS125BUFF	935	510	1.64	C	32	152	3
150	SPS150BUFF	1060	510	1.85	C	35	183	3
170	SPS170BUFF	1200	510	1.94	C	42	209	3
200	SPS200BUFF	1120	554	1.93	C	58	256	3
250	SPS250BUFF	1490	554	2.16	C	66	312	3
300	SPS300BUFF	1780	554	2.22	C	79	376	3
400	SPS400BUFF	1590	660	2.42	C	88	488	3
500	SPS500BUFF	1835	660	2.49	C	92	590	3

- Small compact dimensions
- Buffer with 5 x 1" connections
- Volumiser with 2 x 1" connections



ERP RATING

C

Capacity (L)	Product Code	Height (mm)	Diameter (mm)	No. of 1" Connections	Standing Heat Loss (kWh/24hrs)	ERP Rating	Empty Weight (kg)	Full Weight (kg)
30	VOL030	361	470	2	0.99	C	10	40
50	SPS050BUFF	510	470	5	1.05	C	14	54

Need to contact Telford?

You can call us on: +44 (0)1952 257961

Option 1 - *Sales*

Option 2 - *Transport*

Option 3 - *Technical*

Option 4 - *Customer Service*

Option 5 - *Book a Service Engineer*

Option 6 - *Purchase Ledger*

Option 7 - *Credit Control*

Telford Copper & Stainless Cylinders Ltd

Unit 22, Furrows Business Park, Haybridge, Telford, TF1 2FE

Firepower

We supply the trade with Telford cylinders here at Firepower. We can guide you to choose the right cylinder, and can help with full heat <https://www.firepowerheating.co.uk/telford-heat-pump-cylinders-hot-water-and-thermal-stores-productsing> system design and specification.

0800 246 1260

sales@firepower.co.uk

firepower.co.uk



Trade supply of Telford cylinders:

0800 246 1260
sales@firepower.co.uk
firepower.co.uk



Furrows Business Park
Haybridge Road
Telford TF1 2FE

Get In Touch Today

Telephone: 01952 257961
Email: sales@telford-group.com
Fax: 01952 253452
www.telford-group.com

