

WORLD HEAT CYLINDERS · MADE IN MANCHESTER

Domestic Hot Water & Heat Pump Cylinders



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Online

worldheat.co.uk



Welder working on a stainless steel vessel



WHO WE ARE

Welcome to World Heat Cylinders.

We are a UK specialist in the design, manufacture, and supply of advanced Hot Water Storage Systems. Making cylinders since 1989 (World Heat since 2008), our commitment has been to provide high-quality hot water cylinders, calorifiers, and buffer vessels. These expertly engineered products serve the diverse needs of residential, commercial, and industrial sectors.

Every vessel is designed, welded and tested in our own factories in Dukinfield, Greater Manchester. You deal directly with our own technical team, from sizing and drawings to commissioning and aftercare, and because we design and build everything here in the UK, we control bespoke work from drawing to dispatch.

Since 1989

Making cylinders (World Heat since 2008)

Immediately

for the standard range, 48 hours for bespoke, to confirm and respond to every enquiry

Up to 10,000L

Bespoke vessels built to order

2 factories

Cylinders made in our own Dukinfield factories

[More about us →](#)



WINNER

World Heat wins Business of the Year at the Pride of Tameside Business Awards

We are delighted to share that World Heat has won Business of the Year at the Pride of Tameside Business Awards, presented by Tameside Metropolitan Borough.

[Read the story →](#)

WHY WORLD HEAT CYLINDERS

01

Specialists, not generalists

Cylinders, calorifiers and buffer vessels are what we do — it's our whole business. That focus means engineers who know hot water storage inside out, from a single domestic cylinder to a plant-room calorifier.

02

Bespoke work, turned around fast

Bespoke sizes and specifications are our niche. Because we design and build everything in our own Dukinfield factories, with our own technical team, we control bespoke work from drawing to dispatch. Lead times vary by product – call 0161 343 8610 for today's lead time on your product.

03

UK-made and dependable

Every vessel is designed, welded and tested in our own two factories in Dukinfield. Making cylinders since 1989 (World Heat since 2008), with a BSI-audited ISO 9001 quality system, WRAS-approved cylinders and a Declaration of Conformity held under the Pressure Equipment Regulations (PED) for the products they apply to.

CREDENTIALS

ISO 9001

BSI certified

WRAS

Approved cylinders

G3

Compliant, G3 kit supplied

PED

Declaration of Conformity held

UKCA

Marked

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing



MADE IN MANCHESTER

ABOUT WORLD HEAT

Made in Manchester, built to last

Durable stainless steel cylinders, low-impact insulation and ranges built for heat pumps — made in our own factory in Greater Manchester.



Operator programming a machine on the factory floor



Technician working on a stainless steel vessel at the World Heat Cylinders factory

Made in Manchester, to ISO 9001

Cylinders for UK projects are built here rather than shipped from overseas, and we control quality under a BSI-audited ISO 9001:2015 system.

[Accreditation →](#)

Investing in robotic welding

We have recently installed a robotic welder in our factory, part of a wider investment in robotics and automation. A programmed weld is made the same way every time, so you get consistent, repeatable welds on every vessel and across every production run.

[Robotic welding →](#)

Reducing our own carbon emissions

Reporting of our scope 1 and scope 2 carbon emissions is now in place. We have just installed 100 kW of solar PV on our factory roof, on top of the 16 kW system that was already there. Last year we insulated the whole factory roof.

[Our carbon emissions →](#)

ABOUT WORLD HEAT

Sustainability, robotics and our community

Materials built to last

Our domestic cylinders are made from duplex stainless steel, which resists corrosion and scale — particularly in hard water areas. Stainless steel is a recyclable material, so a cylinder's vessel doesn't have to become waste at the end of its life.

[Sustainability →](#)

Low heat loss, low-impact insulation

Our unvented cylinders use polyurethane foam insulation made with a CO₂ blowing agent: its global warming potential is less than 5 and its ozone depletion potential is zero.

[Sustainability →](#)

Part of our community

We're a Greater Manchester manufacturer, and proud to back the local sports clubs, junior teams and charities around our factory in Dukinfield.

[Social responsibility →](#)

Leak testing a fabricated assembly in the World Heat Cylinders workshop



Technicians assembling components on the factory floor



Technician using a cordless drill on the production line

HOW WE MAKE CYLINDERS

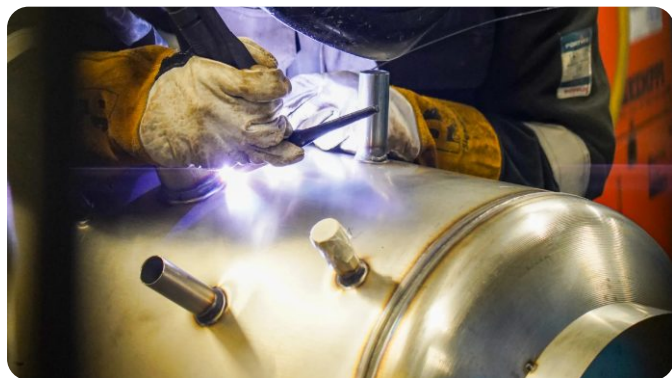
Made in our own factories in Dukinfield, backed by our own technical team

Cylinders made in our own Dukinfield factories, with technical support from our own team and bespoke work controlled from drawing to dispatch.

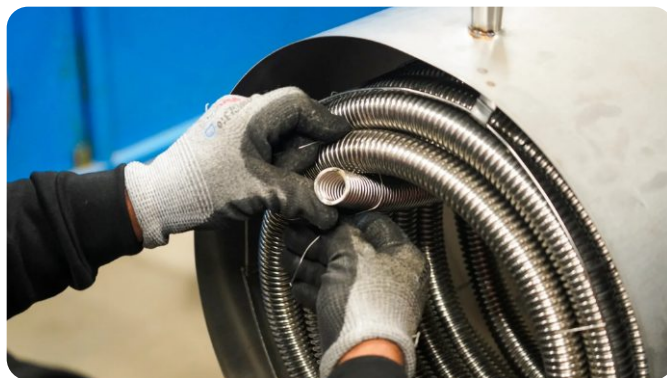
Welding of Stainless Steel is an aggressive process which, if not carried out correctly can greatly reduce the corrosion resistance of the material. World Heat Cylinders uses a process called purging during the manufacture of stainless steel cylinders to limit oxidation. All of our domestic cylinders are then pickled internally, in order to allow the formation of the passive corrosion resistant layer.



Operator feeding a steel sheet into the press brake



Welder joining a boss to a stainless steel vessel



Technician fitting a stainless steel coil into a cylinder shell



Technician fitting connections to a hot water cylinder



Finished domestic hot water cylinders on the production floor



Technician fitting a stainless steel domed end at the World Heat Cylinders factory

THE ESSENTIALS

Stainless steel, unvented or vented

Why Duplex stainless steel

Enhanced Durability in Hard Water Areas: Duplex stainless steel construction offers excellent resistance to corrosion and scale, significantly extending the lifespan of the cylinder compared to copper in aggressive water conditions.

Stainless Steel grades 304 and 316 tanks may be at risk from Stress Corrosion Cracking (SCC) due to high Chloride levels in the water supply. An alternative to austenitic is Duplex Stainless Steel, its inherent low nickel levels make it more resistant to SCC.

[TechTalk: corrosion of cylinders →](#)

Unvented or vented?

Unvented hot water systems are renowned for delivering excellent water pressure to all outlets. This makes them ideal for properties with multiple bathrooms or high-performance showers. Unlike traditional vented systems, they take their water supply directly from the mains. This direct feed eliminates the need for a cold water storage cistern in the loft and often simplifies pipework. As a result, it ensures consistently strong flow rates.

World Heat Cylinders manufactures a robust range of Duplex Stainless Steel Vented Hot Water Cylinders.

[Unvented Cylinders →](#)

DOMESTIC RANGE

The range at a glance

UNVENTED CYLINDERS

SuperFlow Direct

Direct (electrically heated) stainless steel unvented cylinders.

11

90–300 L

UNVENTED CYLINDERS

SuperFlow Indirect

Indirect stainless steel unvented cylinders, heated by a boiler coil.

12

90–300 L

UNVENTED CYLINDERS

Ultra Slim Unvented Cylinder

Our narrowest unvented cylinders — 400 mm diameter — for apartments, compact utility rooms and tight cupboards.

13

60–120 L

UNVENTED CYLINDERS

Horizontal Unvented Cylinders

Horizontal stainless steel unvented cylinders for lofts, eaves and anywhere height is limited — including Climacyl heat pump models.

14

90–300 L

UNVENTED CYLINDERS

Twin Coil Superflow

Unvented cylinders with a solar coil, as a single (direct) or twin coil cylinder.

15

150–300 L

HEAT PUMP CYLINDERS

Climacyl Heat Pump Cylinder

Heat pump cylinders with large-surface-area coils.

16

90–300 L

HEAT PUMP CYLINDERS

EcoSlim Unvented Cylinder

Slimline heat pump cylinders for cupboards and tight spaces.

17

90–210 L

HEAT PUMP CYLINDERS

Climabuff

Heat pump cylinders with an integrated buffer tank.

18

120–500 L

PRE-PLUMBED HEAT PUMP CYLINDERS

E-Cyl Pre-Plumbed

Pre-plumbed heat pump cylinders for Mitsubishi Electric Ecodan heat pumps.

19

150–300 L

PRE-PLUMBED HEAT PUMP CYLINDERS

S-Cyl Pre-Plumbed

Pre-plumbed heat pump cylinders for Samsung heat pumps.

20

150–300 L

PRE-PLUMBED HEAT PUMP CYLINDERS

V-Cyl Pre-Plumbed

Pre-plumbed heat pump cylinders for LG heat pumps.

21

150–300 L

PRE-PLUMBED HEAT PUMP CYLINDERS

U-Cyl Pre-Plumbed

Pre-plumbed heat pump cylinders with an integrated buffer.

22

120–300 L

THERMAL STORES

EcoTherm Thermal Stores

Mains-pressure hot water with the simplicity of a vented store — self-fill and separate feed & expansion models that take heat from several

23

150–210 L

VENTED CYLINDERS

Stainless Vented Cylinders

Duplex stainless steel vented cylinders for gravity-fed systems — a longer-lasting replacement for copper, especially in hard water

24

BUFFERS & VOLUMISERS

Buffer Vessels

Heating and chilled water buffer vessels from 10 to 10,000 litres, with the commercial range starting from 300 litres and bespoke sizes built to

25

25–300 L

UNVENTED CYLINDERS

Every unvented cylinder comes complete



All World Heat unvented cylinders are supplied with the full sealed system kit required for the application, to meet Building Regulations G3. What is in the kit depends on the cylinder:

Exact kit contents can vary with the cylinder size; we confirm them on your quotation.

[Unvented kit components →](#)

The unvented kit (the dual thermostat shown is for SuperFlow models only)

SuperFlow models

- ✓ **Expansion vessel**
Takes up the water's expansion as it heats
- ✓ **Inlet manifold block**
Pressure reducing valve, pressure relief valve, strainer and check valve in one block
- ✓ **Temperature and pressure relief (T&P) valve**
- ✓ **Tundish**
The visible air gap on the discharge pipe
- ✓ **Dual mechanical thermostat**
Control and high-limit thermostat for the boiler coil (indirect models)
- ✓ **Two-port zone valve**
Controls the boiler's flow to the coil (indirect models); we confirm it on your quotation

Climacyl and EcoSlim heat pump models

- ✓ **Expansion vessel**
Takes up the water's expansion as it heats
- ✓ **Inlet manifold block**
Pressure reducing valve, pressure relief valve, strainer and check valve in one block
- ✓ **Temperature and pressure relief (T&P) valve**
- ✓ **Tundish**
The visible air gap on the discharge pipe

Pre-plumbed packages

- ✓ **Unvented safety controls, fitted**
Mains inlet pressure regulator, expansion relief valve and T&P valve
- ✓ **Potable expansion vessel**
Supplied loose
- ✓ **System circulating pump**
Grundfos UPM3, A rated
- ✓ **Heating zone valve and hot water diverter valve**
Honeywell 28 mm two-port and three-port
- ✓ **28 mm magnetic filter**
- ✓ **3 kW immersion heaters**
With a 90 °C mechanical high-limit thermostat
- ✓ **Pre-wired for the heat pump's controls**
- ✓ **28 mm flow setter**
Supplied loose

UNVENTED CYLINDERS

SuperFlow Direct

Direct (electrically heated) stainless steel unvented cylinders.

90–300 L



Our premium unvented cylinder: Duplex stainless steel, direct or indirect, in slimline and standard diameters. Larger and bespoke sizes built to order.

Key features

- ✓ Direct and indirect, 90–300 L standard sizes
- ✓ Duplex stainless steel vessel
- ✓ ErP class B–C
- ✓ 50 mm PU foam insulation
- ✓ Supplied with unvented kit

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing

Which option is right for you?

Standard

90–300 L · 550 mm diameter

Slim

90–210 L · 475 mm diameter

For cupboards and retrofits where space is tight

Model	Capacity L	Height mm	Diameter mm	Weight empty / full kg	Heat loss kWh/24h	ErP
Standard						
90DSSFLOW	90	792	550	20 / 110	0.96	B
120DSSFLOW	120	954	550	25 / 145	1.24	B
150DSSFLOW	150	1,154	550	30 / 180	1.53	C
180DSSFLOW	180	1,280	550	35 / 215	1.78	C
210DSSFLOW	210	1,468	550	40 / 250	2.03	C
250DSSFLOW	250	1,718	550	45 / 295	2.20	C
300DSSFLOW	300	2,031	550	50 / 350	2.34	C
Slim						
90DSSFLOWSLIM	90	990	475	18 / 108	1.05	B
120DSSFLOWSLIM	120	1,208	475	23 / 143	1.23	B
150DSSFLOWSLIM	150	1,474	475	28 / 178	1.41	C
180DSSFLOWSLIM	180	1,690	475	33 / 213	1.52	C
210DSSFLOWSLIM	210	2,003	475	38 / 248	1.59	C

Full technical sheet →

Request a quote

Technical sheets:
SuperFlow Direct Unvented Cylinders ·
SuperFlow Direct Slimline Unvented Cylinders

UNVENTED CYLINDERS

SuperFlow Indirect

Indirect stainless steel unvented cylinders, heated by a boiler coil.

90–300 L

Our premium unvented cylinder: Duplex stainless steel, direct or indirect, in slimline and standard diameters. Larger and bespoke sizes built to order.

Key features

- ✓ Direct and indirect, 90–300 L standard sizes
- ✓ Duplex stainless steel vessel
- ✓ ErP class B–C
- ✓ 50 mm PU foam insulation
- ✓ Supplied with unvented kit

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing



Which option is right for you?

Standard

90–300 L · 550 mm diameter · 1.1 m² coil

Slim

90–210 L · 475 mm diameter · 1.1 m² coil

For cupboards and retrofits where space is tight

Model	Capacity L	Height mm	Diameter mm	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
Standard							
90ISSFLOW	90	792	550	25 / 115	1.1	1.03	B
120ISSFLOW	120	954	550	30 / 150	1.1	1.23	B
150ISSFLOW	150	1,154	550	35 / 185	1.1	1.31	B
180ISSFLOW	180	1,280	550	40 / 220	1.1	1.60	C
210ISSFLOW	210	1,468	550	45 / 255	1.1	1.85	C
250ISSFLOW	250	1,718	550	50 / 300	1.1	2.10	C
300ISSFLOW	300	2,031	550	55 / 355	1.1	2.31	C
Slim							
90ISSFLOWSLIM	90	990	475	23 / 113	1.1	1.05	B
120ISSFLOWSLIM	120	1,208	475	28 / 148	1.1	1.23	B
150ISSFLOWSLIM	150	1,474	475	33 / 183	1.1	1.41	C
180ISSFLOWSLIM	180	1,690	475	38 / 218	1.1	1.52	C
210ISSFLOWSLIM	210	2,003	475	43 / 253	1.1	1.59	C

Full technical sheet →

Request a quote

Technical sheets:
SuperFlow Indirect Unvented Cylinders ·
SuperFlow Indirect Slimline Unvented Cylinders

UNVENTED CYLINDERS

Ultra Slim Unvented Cylinder

Our narrowest unvented cylinders — 400 mm diameter — for apartments, compact utility rooms and tight cupboards.

60–120 L

Key features

- ✓ 400 mm diameter
- ✓ 60–120 L standard sizes
- ✓ Direct and indirect models
- ✓ Duplex stainless steel vessel
- ✓ ErP class C



Which option is right for you?

SuperFlow Direct Ultra Slim

60–120 L · 400 mm diameter

Electrically heated, for apartments, compact utility rooms and tight cupboards

SuperFlow Indirect Ultra Slim

60–120 L · 400 mm diameter · 1.1 m² coil

Heated by a boiler coil, for apartments, compact utility rooms and tight cupboards

Model	Capacity L	Height mm	Diameter mm	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
SuperFlow Direct Ultra Slim							
60DSSFLOWULTRAS	60	1,000	400	13 / 73	None	1.19	C
90DSSFLOWULTRAS	90	1,400	400	17 / 107	None	1.26	C
120DSSFLOWULTRAS	120	1,860	400	22 / 142	None	1.35	C
SuperFlow Indirect Ultra Slim							
60ISSFLOWULTRAS	60	1,000	400	18 / 78	1.1	1.19	C
90ISSFLOWULTRAS	90	1,400	400	22 / 112	1.1	1.26	C
120ISSFLOWULTRAS	120	1,860	400	27 / 147	1.1	1.35	C

Full technical sheet →

Request a quote

worldheat.co.uk/ultra-slim-unvented-cylinder

UNVENTED CYLINDERS

Horizontal Unvented Cylinders

Horizontal stainless steel unvented cylinders for lofts, eaves and anywhere height is limited — including Climacyl heat pump models.

90–300 L



Key features

- ✓ Lies horizontally where height is limited
- ✓ 120–500 L standard sizes
- ✓ SuperFlow and Climacyl heat pump models
- ✓ Duplex stainless steel vessel
- ✓ ErP class C

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing

Which option is right for you?

SuperFlow Direct Horizontal

90–300 L · 550 mm diameter

Electrically heated, for lofts, eaves and anywhere height is limited

SuperFlow Indirect Horizontal

90–300 L · 550 mm diameter · 1.1 m² coil

Heated by a boiler coil, for lofts, eaves and anywhere height is limited

Model	Capacity L	Length mm	Diameter mm	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
SuperFlow Direct Horizontal							
90DHSSFLOW	90	792	550	20 / 110	None	1.31	C
120DHSSFLOW	120	954	550	25 / 145	None	1.48	C
150DHSSFLOW	150	1,154	550	30 / 180	None	1.55	C
180DHSSFLOW	180	1,280	550	35 / 215	None	1.84	C
210DHSSFLOW	210	1,468	550	40 / 250	None	1.98	C
250DHSSFLOW	250	1,718	550	45 / 295	None	2.15	C
300DHSSFLOW	300	2,031	550	50 / 350	None	2.35	C
SuperFlow Indirect Horizontal							
90IHSSFLOW	90	792	550	25 / 115	1.1	1.31	C
120IHSSFLOW	120	954	550	30 / 150	1.1	1.48	C
150IHSSFLOW	150	1,154	550	35 / 185	1.1	1.55	C
180IHSSFLOW	180	1,280	550	40 / 220	1.1	1.84	C
210IHSSFLOW	210	1,468	550	45 / 255	1.1	1.98	C
250IHSSFLOW	250	1,718	550	50 / 300	1.1	2.15	C
300IHSSFLOW	300	2,031	550	55 / 355	1.1	2.35	C

Full technical sheet →

Request a quote

Technical sheets:

SuperFlow Indirect Horizontal Unvented Cylinders ·
SuperFlow Direct Horizontal Unvented Cylinders

UNVENTED CYLINDERS

Twin Coil Superflow

Unvented cylinders with a solar coil, as a single (direct) or twin coil cylinder.

150–300 L



Key features

- ✓ Two coils for two heat sources
- ✓ 60–500 L standard sizes
- ✓ Duplex stainless steel vessel

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing

Which option is right for you?

Solar-Therm Twin coil
150–300 L · 550 mm diameter

Solar-Therm Twin coil slim
150–210 L · 475 mm diameter

Solar-Therm Direct
150–300 L · 550 mm diameter · 1.1 m² coil

Solar-Therm Direct slim
150–210 L · 475 mm diameter · 1.1 m² coil

Solar-Therm Direct horizontal
150–300 L · 550 mm diameter · 1.1 m² coil

Model	Capacity L	Height / length mm	Diameter mm	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
Solar-Therm Twin coil							
150TSSFLOW	150	1,154	550	40 / 190	1.1 boiler + 1.1 solar	1.31	B
180TSSFLOW	180	1,280	550	45 / 225	1.1 boiler + 1.1 solar	1.60	C
210TSSFLOW	210	1,468	550	50 / 260	1.1 boiler + 1.1 solar	1.85	C
250TSSFLOW	250	1,718	550	55 / 305	1.1 boiler + 1.1 solar	2.10	C
300TSSFLOW	300	2,031	550	60 / 360	1.1 boiler + 1.1 solar	2.31	C
Solar-Therm Twin coil slim							
150TSSFLOWSLIM	150	1,474	475	38 / 188	1.1 boiler + 1.1 solar	1.41	C
180TSSFLOWSLIM	180	1,690	475	43 / 223	1.1 boiler + 1.1 solar	1.52	C
210TSSFLOWSLIM	210	2,003	475	48 / 258	1.1 boiler + 1.1 solar	1.59	C
Solar-Therm Direct							
150SDSSFLOW	150	1,154	550	35 / 185	1.1	1.31	B
180SDSSFLOW	180	1,280	550	40 / 220	1.1	1.60	C
210SDSSFLOW	210	1,468	550	45 / 255	1.1	1.85	C
250SDSSFLOW	250	1,718	550	50 / 300	1.1	2.10	C
300SDSSFLOW	300	2,031	550	55 / 355	1.1	2.31	C
Solar-Therm Direct slim							
150SDSSFLOWSLIM	150	1,474	475	33 / 183	1.1	1.41	C
180SDSSFLOWSLIM	180	1,690	475	38 / 218	1.1	1.52	C
210SDSSFLOWSLIM	210	2,003	475	43 / 253	1.1	1.59	C
Solar-Therm Direct horizontal							
150SDHSSFLOW	150	1,154	550	35 / 185	1.1	1.55	C
180SDHSSFLOW	180	1,280	550	40 / 220	1.1	1.84	C
210SDHSSFLOW	210	1,468	550	45 / 255	1.1	1.98	C
250SDHSSFLOW	250	1,718	550	50 / 300	1.1	2.15	C
300SDHSSFLOW	300	2,031	550	55 / 355	1.1	2.35	C

[Full technical sheet →](#)
[Request a quote](#)

Technical sheets:

SuperFlow Twin Coil Unvented Cylinders ·
SuperFlow Twin Coil Slimline Unvented Cylinders

HEAT PUMP CYLINDERS

Climacyl Heat Pump Cylinder

Heat pump cylinders with large-surface-area coils.

90-300 L



Key features

- ✓ Coils sized for heat pumps (2–3 m²)
- ✓ 120–500 L standard sizes
- ✓ Duplex stainless steel vessel

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing

Which option is right for you?

Standard

90–300 L · 550 mm diameter · 2.29–3.31 m² coil

Twin coil (heat pump & solar)

150–300 L · 550 mm diameter · 2.29–3.31 m² coil

Horizontal

120–300 L · 550 mm diameter · 2.29–3.31 m² coil

Horizontal twin coil (heat pump & solar)

150–300 L · 550 mm diameter · 2.29–3.31 m² coil

Model	Capacity L	Height / length mm	Diameter mm	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
Standard							
90CLIMACYLSS2	90	792	550	30 / 120	2.29	1.14	B
120CLIMACYLSS2	120	954	550	35 / 155	2.29	1.23	B
150CLIMACYLSS2	150	1,154	550	40 / 190	2.29	1.31	B
180CLIMACYLSS2	180	1,280	550	45 / 225	2.29	1.60	C
210CLIMACYLSS3	210	1,468	550	55 / 265	3.31	1.85	C
250CLIMACYLSS3	250	1,718	550	60 / 310	3.31	2.10	C
300CLIMACYLSS3	300	2,031	550	65 / 365	3.31	2.31	C
Twin coil (heat pump & solar)							
150CLIMACYLSSTC21	150	1,154	550	45 / 195	2.29 HP + 1.1 solar	1.31	B
180CLIMACYLSSTC21	180	1,280	550	50 / 230	2.29 HP + 1.1 solar	1.60	C
210CLIMACYLSSTC21	210	1,468	550	55 / 265	2.29 HP + 1.1 solar	1.85	C
250CLIMACYLSSTC31	250	1,718	550	65 / 315	3.31 HP + 1.1 solar	2.10	C
300CLIMACYLSSTC31	300	2,031	550	70 / 370	3.31 HP + 1.1 solar	2.31	C
Horizontal							
120CLIMACYLSSH	120	954	550	35 / 155	2.29	1.48	C
150CLIMACYLSSH	150	1,154	550	40 / 190	2.29	1.55	C
180CLIMACYLSSH	180	1,280	550	45 / 225	2.29	1.84	C
210CLIMACYLSSH	210	1,468	550	55 / 265	3.31	1.98	C
250CLIMACYLSSH	250	1,718	550	60 / 310	3.31	2.15	C
300CLIMACYLSSH	300	2,031	550	65 / 365	3.31	2.35	C
Horizontal twin coil (heat pump & solar)							
150CLIMACYLSSHTC	150	1,154	550	45 / 195	2.29 HP + 1.1 solar	1.55	C
180CLIMACYLSSHTC	180	1,280	550	50 / 230	2.29 HP + 1.1 solar	1.84	C
210CLIMACYLSSHTC	210	1,468	550	60 / 270	3.31 HP + 1.1 solar	1.98	C
250CLIMACYLSSHTC	250	1,718	550	65 / 315	3.31 HP + 1.1 solar	2.15	C
300CLIMACYLSSHTC	300	2,031	550	70 / 370	3.31 HP + 1.1 solar	2.35	C

Full technical sheet →

Request a quote

Technical sheets:

Climacyl Unvented Heat Pump Cylinders ·
Climacyl Twin Coil Unvented Heat Pump & Solar Cylinders ·
Climacyl Horizontal Unvented Heat Pump Cylinders

HEAT PUMP CYLINDERS

EcoSlim Unvented Cylinder

Slimline heat pump cylinders for cupboards and tight spaces.

90–210 L

Slimline stainless steel unvented cylinders with a 470 mm diameter, for cupboards and retrofits where space is tight.

Key features

- ✓ 470 mm diameter
- ✓ 90–210 L standard sizes
- ✓ Duplex stainless steel vessel
- ✓ 2 or 3 m² indirect coil
- ✓ 50 mm PU foam insulation

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing



Which option is right for you?

Standard

90–210 L · 475 mm diameter · 2.29–3.31 m² coil

Horizontal

150–210 L · 475 mm diameter · 2.29–3.31 m² coil

For lofts, eaves and anywhere height is limited

Twin coil (heat pump & solar)

150–210 L · 475 mm diameter · 2.29–3.31 m² coil

For two heat sources — typically a boiler plus solar thermal or a heat pump

Model	Capacity L	Height / length mm	Diameter mm	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
Standard							
90ECOSLIMSS2	90	990	475	30 / 120	2.29	1.05	B
120ECOSLIMSS2	120	1,208	475	33 / 153	2.29	1.23	B
150ECOSLIMSS2	150	1,474	475	38 / 188	2.29	1.41	C
180ECOSLIMSS2	180	1,690	475	43 / 223	2.29	1.52	C
210ECOSLIMSS3	210	2,003	475	53 / 263	3.31	1.59	C
Twin coil (heat pump & solar)							
150ECOSLIMSSTC12	150	1,474	475	43 / 193	2.29 HP + 1.1 solar	1.41	C
180ECOSLIMSSTC12	180	1,690	475	48 / 228	2.29 HP + 1.1 solar	1.52	C
210ECOSLIMSSTC13	210	2,003	475	58 / 268	3.31 HP + 1.1 solar	1.59	C
Horizontal							
150ECOSLIMSSH	150	1,474	475	38 / 188	2.29	1.68	C
180ECOSLIMSSH	180	1,690	475	43 / 223	2.29	1.95	C
210ECOSLIMSSH	210	2,003	475	53 / 263	3.31	2.08	C

Full technical sheet →

Request a quote

worldheat.co.uk/ecoslim-unvented-cylinder

HEAT PUMP CYLINDERS

Climabuff

Heat pump cylinders with an integrated buffer tank.

120–500 L

World Heat Cylinders manufacture a full range of unvented combined heat pump cylinders and buffer vessels in one integrated case.

Key features

- ✓ Combined buffer vessel and cylinder
- ✓ High quality stainless steel
- ✓ Highly insulated, Part L compliant
- ✓ Full system unvented kits
- ✓ ISO9001 certified quality management

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing.



Which option is right for you?

Climabuff Standard

150–300 L · 550–600 mm diameter · 50 L buffer · 2.29–3.31 m² coil

Climabuff 400L and 500L

400–500 L · 50 L buffer

Climabuff Slim

120–180 L · 475 mm diameter · 30 L buffer · 2.29 m² coil
For cupboards and retrofits where space is tight

Model	Capacity L	Height x diameter mm	Buffer L	Weight empty / full kg	Coil area m ²	Heat loss W	ErP
Climabuff Standard							
150CLIMABUFF	150	1,424 × 550	50	62 / 262	2.29	64.58	C
180CLIMABUFF	180	1,550 × 550	50	66 / 296	2.29	71.25	C
210CLIMABUFF	210	1,738 × 550	50	72 / 332	3.31	78.75	C
250CLIMABUFF	250	1,988 × 550	50	78 / 378	3.31	90.42	C
300CLIMABUFF	300	1,994 × 600	50	87 / 437	3.31	92.5	C
Climabuff Slim							
120CLIMABUFFSLIM	120	1,484 × 475	30	57 / 207	2.29	55.42	C
150CLIMABUFFSLIM	150	1,824 × 475	30	62 / 242	2.29	69.17	C
180CLIMABUFFSLIM	180	2,040 × 475	30	66 / 276	2.29	74.58	C
Climabuff 400L and 500L							
400CLIMABUFF	400	1,842	50	180 / 580	None	74	B
500CLIMABUFF	500	2,150	On request	200 / 700	None	79	B

Full technical sheet →

Request a quote

Technical sheets:

Climabuff Heat Pump Cylinders with Integrated Buffer ·
Climabuff Slimline Heat Pump Cylinders with Integrated Buffer ·
Climabuff 400L and 500L Heat Pump Cylinders with Integrated Buffer

PRE-PLUMBED HEAT PUMP CYLINDERS

E-Cyl Pre-Plumbed

Pre-plumbed heat pump cylinders for Mitsubishi Electric Ecodan heat pumps.

150–300 L

Factory-assembled, pre-plumbed cylinders — including heat pump packages for LG, Mitsubishi Ecodan and Samsung — to cut installation time on site.

Key features

- ✓ Pre-plumbed for Mitsubishi Electric Ecodan heat pumps
- ✓ Hot water, immersion timing and heating run from the Ecodan FTC controller (not supplied)
- ✓ Sizes from 150 to 300 litres
- ✓ Standard 550–600 mm and slimline 475 mm wide
- ✓ Integrated 50 L stainless steel buffer (30 L on slimline models)

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing.



Which option is right for you?

E-Cyl Standard

150–300 L · 50 L buffer · 2.29–3.31 m² coil

E-Cyl Slim

150–180 L · 475 × 600 mm footprint · 30 L buffer · 2.29 m² coil
For cupboards and retrofits where space is tight

Model	Capacity L	H × W × D mm	Buffer L	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
E-Cyl Standard							
150ECYLPPSS	150	1,424 × 550 × 700	50	76 / 276	2.29	1.55	C
180ECYLPPSS	180	1,550 × 550 × 700	50	80 / 310	2.29	1.71	C
210ECYLPPSS	210	1,738 × 550 × 700	50	86 / 346	3.31	1.89	C
250ECYLPPSS	250	1,988 × 550 × 700	50	92 / 392	3.31	2.10	C
300ECYLPPSS	300	1,994 × 600 × 750	50	102 / 452	3.31	2.22	C
E-Cyl Slim							
150ECYLPPSLIMSS	150	1,824 × 475 × 600	30	76 / 256	2.29	1.66	C
180ECYLPPSLIMSS	180	2,040 × 475 × 600	30	80 / 290	2.29	1.79	C

Full technical sheet →

Request a quote

Technical sheets:

E-Cyl Pre-Plumbed Heat Pump Cylinders for Mitsubishi Ecodan ·

E-Cyl Slimline Pre-Plumbed Heat Pump Cylinders for Mitsubishi Ecodan

PRE-PLUMBED HEAT PUMP CYLINDERS

S-Cyl Pre-Plumbed

Pre-plumbed heat pump cylinders for Samsung heat pumps.

150–300 L

Factory-assembled, pre-plumbed cylinders — including heat pump packages for LG, Mitsubishi Ecodan and Samsung — to cut installation time on site.

Key features

- ✓ Pre-plumbed for Samsung heat pumps
- ✓ Includes the Samsung FN touch screen controller
- ✓ Sizes from 150 to 300 litres
- ✓ Standard 550–600 mm and slimline 475 mm wide
- ✓ Integrated 50 L stainless steel buffer (30 L on slimline models)

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing.



Which option is right for you?

S-Cyl Standard

150–300 L · 50 L buffer · 2.29–3.31 m² coil

S-Cyl Slim

150–180 L · 475 × 625 mm footprint · 30 L buffer · 2.29 m² coil
For cupboards and retrofits where space is tight

Model	Capacity L	H × W × D mm	Buffer L	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
S-Cyl Standard							
150SCYLPPSS	150	1,424 × 550 × 700	50	76 / 276	2.29	1.55	C
180SCYLPPSS	180	1,550 × 550 × 700	50	84 / 314	2.29	1.71	C
210SCYLPPSS	210	1,738 × 550 × 700	50	90 / 350	3.31	1.89	C
250SCYLPPSS	250	1,988 × 550 × 700	50	96 / 396	3.31	2.10	C
300SCYLPPSS	300	1,994 × 600 × 750	50	106 / 456	3.31	2.22	C
S-Cyl Slim							
150SCYLPPSLIMSS	150	1,824 × 475 × 625	30	80 / 260	2.29	1.66	C
180SCYLPPSLIMSS	180	2,040 × 475 × 625	30	84 / 294	2.29	1.79	C

Full technical sheet →

Request a quote

worldheat.co.uk/packaged-cylinders

PRE-PLUMBED HEAT PUMP CYLINDERS

V-Cyl Pre-Plumbed

Pre-plumbed heat pump cylinders for LG heat pumps.

150–300 L

Factory-assembled, pre-plumbed cylinders — including heat pump packages for LG, Mitsubishi Ecodan and Samsung — to cut installation time on site.

Key features

- ✓ Pre-plumbed for LG heat pumps (heat pump not included)
- ✓ Hot water run from the LG RS3 controller; immersion timing from the RS3 and the LG tank kit
- ✓ Sizes from 150 to 300 litres
- ✓ Standard 550–600 mm and slimline 475 mm wide
- ✓ Integrated 50 L stainless steel buffer (30 L on slimline models)

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing.



Which option is right for you?

V-Cyl Standard

150–300 L · 50 L buffer · 2.29–3.31 m² coil

V-Cyl Slim

150–180 L · 475 × 600 mm footprint · 30 L buffer · 2.29 m² coil
For cupboards and retrofits where space is tight

Model	Capacity L	H × W × D mm	Buffer L	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
V-Cyl Standard							
150VCYLPPSS	150	1,424 × 550 × 700	50	76 / 276	2.29	1.55	C
180VCYLPPSS	180	1,550 × 550 × 700	50	80 / 310	2.29	1.71	C
210VCYLPPSS	210	1,738 × 550 × 700	50	86 / 346	3.31	1.89	C
250VCYLPPSS	250	1,988 × 550 × 700	50	92 / 392	3.31	2.10	C
300VCYLPPSS	300	1,994 × 600 × 750	50	102 / 452	3.31	2.22	C
V-Cyl Slim							
150VCYLPPSLIMSS	150	1,824 × 475 × 600	30	76 / 256	2.29	1.66	C
180VCYLPPSLIMSS	180	2,040 × 475 × 600	30	80 / 290	2.29	1.79	C

Full technical sheet →

Request a quote

worldheat.co.uk/packaged-cylinders

PRE-PLUMBED HEAT PUMP CYLINDERS

U-Cyl Pre-Plumbed

Pre-plumbed heat pump cylinders with an integrated buffer.

120–300 L

Key features

- ✓ Universal: for connection to any air source heat pump
- ✓ U-Cyl+: an electrical control box with relays to switch the immersion heater from the heat pump and, where the heat pump needs it, the heat pump through a volt-free contact (the U-Cyl has no control box)
- ✓ Sizes from 120 to 300 litres
- ✓ Standard 550–600 mm and slimline 475 mm wide



25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing.

Which option is right for you?

U-Cyl Standard

150–300 L · 50 L buffer · 2.29–3.31 m² coil

U-Cyl Plus Standard

150–300 L · 50 L buffer · 2.29–3.31 m² coil

U-Cyl Slim

120–180 L · 475 × 600 mm footprint · 30 L buffer · 2.29 m² coil

U-Cyl Plus Slim

150–180 L · 475 × 600 mm footprint · 30 L buffer · 2.29 m² coil

Model	Capacity L	H × W × D mm	Buffer L	Weight empty / full kg	Coil area m ²	Heat loss kWh/24h	ErP
U-Cyl Standard							
150UCYLPPSS	150	1,424 × 550 × 700	50	76 / 276	2.29	1.55	C
180UCYLPPSS	180	1,550 × 550 × 700	50	80 / 310	2.29	1.71	C
210UCYLPPSS	210	1,738 × 550 × 700	50	86 / 346	3.31	1.89	C
250UCYLPPSS	250	1,988 × 550 × 700	50	92 / 392	3.31	2.10	C
300UCYLPPSS	300	1,994 × 600 × 750	50	102 / 452	3.31	2.22	C
U-Cyl Slim							
120UCYLPPSLIMSS	120	1,484 × 475 × 600	30	72 / 222	2.29	1.48	C
150UCYLPPSLIMSS	150	1,824 × 475 × 600	30	76 / 256	2.29	1.66	C
180UCYLPPSLIMSS	180	2,040 × 475 × 600	30	80 / 290	2.29	1.79	C
U-Cyl Plus Standard							
150UCYLSSPLUS	150	1,424 × 550 × 700	50	78 / 278	2.29	1.55	C
180UCYLSSPLUS	180	1,550 × 550 × 700	50	82 / 312	2.29	1.71	C
210UCYLSSPLUS	210	1,738 × 550 × 700	50	88 / 348	3.31	1.89	C
250UCYLSSPLUS	250	1,988 × 550 × 700	50	94 / 394	3.31	2.10	C
300UCYLSSPLUS	300	1,994 × 600 × 750	50	104 / 454	3.31	2.22	C
U-Cyl Plus Slim							
150UCYLSSPLUSLIM	150	1,824 × 475 × 600	30	78 / 258	2.29	1.66	C
180UCYLSSPLUSLIM	180	2,040 × 475 × 600	30	82 / 292	2.29	1.79	C

Full technical sheet →

Request a quote

worldheat.co.uk/packaged-cylinders

THERMAL STORES

EcoTherm Thermal Stores

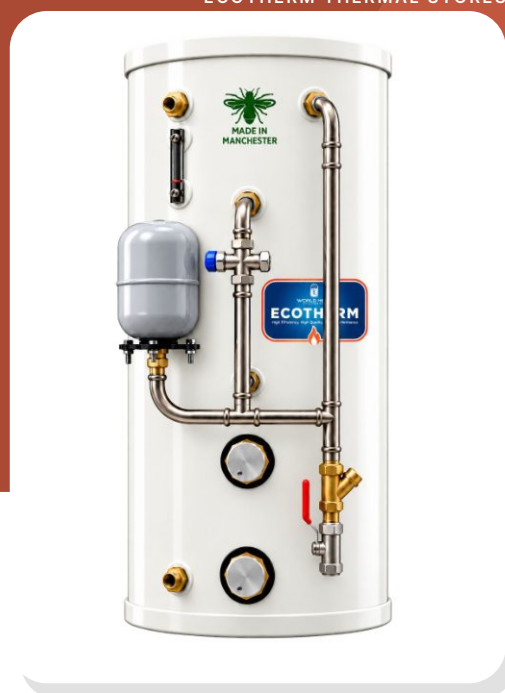
Mains-pressure hot water with the simplicity of a vented store — self-fill and separate feed & expansion models that take heat from several sources.

150–210 L

World Heat Cylinders manufacture a full range of thermal store cylinders for any application.

Key features

- ✓ Mains-pressure hot water from a vented store
- ✓ Self-fill or separate feed & expansion
- ✓ Ultra slim, slim and standard diameters
- ✓ Pre-plumbed system kits available



Which option is right for you?

EcoTherm Standard Direct self fill thermal store
150–210 L · 550 mm diameter

EcoTherm Slim Direct self fill thermal store
150–180 L · 470 mm diameter
For cupboards and retrofits where space is tight

Model	Capacity L	Height mm	Diameter mm	Weight empty / full kg
EcoTherm Standard Direct self fill thermal store				
150FISCHSTDSS	150	1,440	550	30 / 180
180FISCHSTDSS	180	1,589	550	35 / 215
210FISCHSTDSS	210	1,740	550	40 / 250
EcoTherm Slim Direct self fill thermal store				
150FISCHSLIMSS	150	1,530	470	30 / 180
180FISCHSLIMSS	180	1,840	470	35 / 215

Full technical sheet →

Request a quote

Technical sheets:
EcoTherm Direct Self Fill Thermal Stores ·
EcoTherm Slimline Direct Self Fill Thermal Stores

VENTED CYLINDERS

Stainless Vented Cylinders

Duplex stainless steel vented cylinders for gravity-fed systems — a longer-lasting replacement for copper, especially in hard water areas.

Key features

- ✓ For open-vented, gravity-fed systems
- ✓ Duplex stainless steel vessel
- ✓ Resists scale and corrosion in hard water
- ✓ Foam-lagged or cased & injection-insulated



Which option is right for you?

Stainless Vented Cylinders

For open-vented, gravity-fed systems · Duplex stainless steel vessel

Cased Vented Cylinders

For open-vented, gravity-fed systems · White gloss cased finish

Sizes and specifications

Sizes, coil ratings and tapping positions are confirmed per order. Tell us the capacity and dimensions you need (or the cylinder you're replacing) and we'll come back with a drawing and price.

[Full technical sheet →](#)[Request a quote](#)worldheat.co.uk/stainless-vented-cylinders

BUFFERS & VOLUMISERS

Buffer Vessels

Heating and chilled water buffer vessels from 10 to 10,000 litres, with the commercial range starting from 300 litres and bespoke sizes built to order, to stop heat pumps, boilers and chillers short cycling.

25–300 L



World Heat Cylinders manufacture a full range of wall mounted buffer vessels specifically for connection to heat pump systems.

Key features

- ✓ Buffer vessels from 10 L to 10,000 L
- ✓ Commercial range from 300 L
- ✓ 10–50 L inline volumisers
- ✓ Heating and chilled water
- ✓ PU injection foam insulation

Which option is right for you?

Wall mounted buffer vessels
25–50 L

Inline volumisers
25–50 L

SSBUFF Standard Buffer Vessels
50–300 L · 550 mm diameter

Model	Capacity L	Size mm	Weight empty / full kg	Heat loss W	ErP
Wall mounted buffer vessels					
WALLMOUNTEDBUFFER25	25	850 × 270 × 270	7 / 17	22	A
WALLMOUNTEDBUFFER50	50	800 × 350 × 350	14 / 60	44	A
Inline volumisers					
UK.INLINE.25	25	850 × 270 × 270	7 / 17	22	A
UK.INLINE.50	50	800 × 350 × 350	14 / 60	44	A
SSBUFF Standard Buffer Vessels					
50SSBUFF	50	510 × 550	30 / 80	48.6	C
100SSBUFF	100	750 × 550	35 / 165	54.6	C
150SSBUFF	150	1,200 × 550	40 / 190	60.2	C
180SSBUFF	180	1,335 × 550	45 / 225	64.3	C
210SSBUFF	210	1,575 × 550	50 / 260	75.2	C
250SSBUFF	250	1,750 × 550	55 / 305	86.4	C
300SSBUFF	300	2,110 × 550	60 / 360	94.2	C

[Full technical sheet →](#)
[Request a quote](#)

Technical sheets:
Wall Mounted Buffer Vessels · Inline Volumisers ·
SSBUFF Standard Stainless Steel Buffer Vessels

WORLD HEAT CYLINDERS

Quality and service

We confirm and respond to every bespoke enquiry within 48 hours, and standard range enquiries immediately. If you need a price on a standard product, don't hesitate to call and speak to one of our team on 0161 343 8610.

Approvals and certification

- ✓ **WRAS approval**
We hold WRAS approval on products up to 6,000 litres.
- ✓ **ErP compliance**
Our cylinders are ErP compliant up to 2,000 litres.
- ✓ **ISO 9001, audited by BSI**
Our quality management system is certified to ISO 9001 and audited by BSI.
- ✓ **G3 compliant unvented cylinders**
Our unvented cylinders are G3 compliant: they are supplied with the G3 unvented kit.

Accreditations and compliance →

25

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing

Lead times

Lead times as at 16 October 2026

Product	1 – 2 units ordered	3 – 9 units ordered	10 – 20 units ordered	21+ units ordered
Stainless SuperFlow	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks
Twin Coil Superflow	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks
EcoSlim Unvented Cylinder	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks
Ultra Slim Unvented Cylinder	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks
Horizontal Unvented Cylinders	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks
Climacyl Heat Pump Cylinder	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks
Packaged Cylinders	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks
EcoTherm Thermal Stores	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks
Stainless Vented Cylinders	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks
Cased Vented Cylinders	7 to 10 Days	10 to 14 Days	3 to 4 Weeks	4 to 5 Weeks

Lead times vary by product – call 0161 343 8610 for today's lead time on your product.

TALK TO OUR TEAM

0161 343 8610

sales@whcylinders.co.uk worldheat.co.uk

Request a quote →



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Hot Water Cylinder and Calorifier Manufacturer

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Tudor House / Unit 4, Tudor
Industrial Estate
Ashton Street
Dukinfield
Cheshire
SK16 4RN

Commercial cylinders

SITE 2

World Heat 2
Outram Road
Dukinfield
Manchester
SK16 4XE

Domestic cylinders and customer
collections



worldheat.co.uk

ISO 9001

BSI certified

WRAS

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G3

Compliant, G3 kit
supplied

PED

Declaration of
Conformity held

UKCA

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