

WORLD HEAT CYLINDERS · MADE IN MANCHESTER

# Technical Brochure: Cylinders, Calorifiers & Buffers



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Online

[worldheat.co.uk](http://worldheat.co.uk)



## 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 CO<sub>2</sub> 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

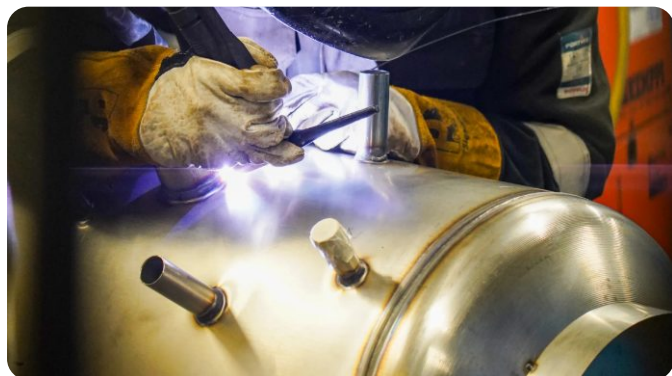
# Made in our own factories in Dukinfield, backed by our own technical team

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

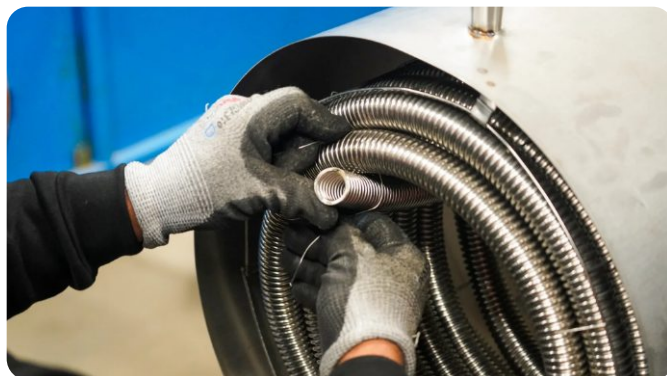
Welding of Stainless Steel is an aggressive process which, if not carried out correctly can greatly reduce the corrosion resistance of the material. World Heat Cylinders uses a process called purging during the manufacture of stainless steel cylinders to limit oxidation. All of our domestic cylinders 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 →](#)

## EVERY PRODUCT FAMILY

# The range at a glance

## PRODUCT FAMILY

## Unvented cylinders

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

13

10 products

## PRODUCT FAMILY

## Heat pump cylinders

Stainless steel unvented cylinders with large-surface-area coils sized for low-temperature heat pump flow, in slim, standard and wide diameters.

24

9 products

## PRODUCT FAMILY

## Pre-plumbed heat pump cylinders

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

34

6 products

## PRODUCT FAMILY

## 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.

41

2 products

## PRODUCT FAMILY

## Vented cylinders

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

44

2 products

## PRODUCT FAMILY

## Buffer vessels and commercial

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

47

7 products

## HOW TO CHOOSE

# How to choose the right cylinder

## Start with the job the cylinder has to do

### Unvented cylinders

13

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

### Heat pump cylinders

24

Stainless steel unvented cylinders with large-surface-area coils sized for low-temperature heat pump flow, in slim, standard and wide diameters.

### Pre-plumbed heat pump cylinders

34

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

### Thermal stores

41

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

### Vented cylinders

44

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

### Buffer vessels and commercial

47

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.

## Then the shape and the options

- ✓ Ultra Slim: for apartments, compact utility rooms and tight cupboards.
- ✓ Horizontal: for lofts, eaves and anywhere height is limited.
- ✓ Twin coil: for two heat sources — typically a boiler plus solar thermal or a heat pump.
- ✓ Slimline: for cupboards and retrofits where space is tight.
- ✓ Pre-plumbed: factory-assembled, to cut installation time on site.

## 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<br>units ordered | 3 – 9<br>units ordered | 10 – 20<br>units ordered | 21+<br>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         |

| Product                       | ≤ 500 L<br>capacity | 501 – 1,000 L<br>capacity | 1,001 – 2,000 L<br>capacity | > 2,000 L<br>capacity |
|-------------------------------|---------------------|---------------------------|-----------------------------|-----------------------|
| Storage Calorifiers/Cylinders | 4 to 6 Weeks        | 6 to 8 Weeks              | 6 to 8 Weeks                | 8 to 10 Weeks         |
| Buffer Vessels                | 4 to 6 Weeks        | 6 to 8 Weeks              | 6 to 8 Weeks                | 8 to 10 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 →

## 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

PRODUCT FAMILY

# Unvented cylinders

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

## IN THIS SECTION

- 14 Stainless SuperFlow Direct cylinder
- 15 Stainless SuperFlow Direct Slimline cylinder
- 16 Stainless SuperFlow Indirect cylinder
- 17 Stainless SuperFlow Indirect Slimline cylinder
- 18 SuperFlow Direct Ultra Slim cylinder
- 19 SuperFlow Direct Horizontal cylinder
- 20 SuperFlow Indirect Horizontal cylinder
- 21 SuperFlow Twin Coil cylinder
- 22 SuperFlow Twin Coil Slimline cylinder
- 23 Solar-Therm direct cylinder

[See the range online →](#)

# SuperFlow Direct Unvented Cylinders

90L-300L


**WORLD HEAT**  
CYLINDERS


**High quality British manufactured stainless steel domestic hot water solutions designed for any application.**

**World Heat Cylinders manufacture a full range of unvented mains pressure domestic hot water cylinders for any application.**

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

- High quality stainless steel
- 25 year manufacturing warranty, subject to annual maintenance
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management

## SuperFlow Direct Standard

| Model                              |                                  | 90<br>DSSFLOW                                       | 120<br>DSSFLOW         | 150<br>DSSFLOW         | 180<br>DSSFLOW         | 210<br>DSSFLOW         | 250<br>DSSFLOW         | 300<br>DSSFLOW         |
|------------------------------------|----------------------------------|-----------------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Nominal capacity (litres)          |                                  | 90                                                  | 120                    | 150                    | 180                    | 210                    | 250                    | 300                    |
| Height (mm)                        |                                  | 792                                                 | 954                    | 1154                   | 1280                   | 1468                   | 1718                   | 2031                   |
| Diameter (mm)                      |                                  | 550                                                 |                        |                        |                        |                        |                        |                        |
| Packaged dimensions H x W x D (mm) |                                  | 850 x<br>600 x<br>600                               | 1050 x<br>600 x<br>600 | 1250 x<br>600 x<br>600 | 1370 x<br>600 x<br>600 | 1600 x<br>600 x<br>600 | 1860 x<br>600 x<br>600 | 2150 x<br>600 x<br>600 |
| Approximate weight (kg)            | Empty                            | 20                                                  | 25                     | 30                     | 35                     | 40                     | 45                     | 50                     |
|                                    | Full                             | 110                                                 | 145                    | 180                    | 215                    | 250                    | 295                    | 350                    |
|                                    | Packaged                         | 40                                                  | 45                     | 50                     | 55                     | 60                     | 65                     | 70                     |
| Control & relief valve settings    | Pressure reducing & relief valve | 3 Bar / 6 Bar                                       |                        |                        |                        |                        |                        |                        |
|                                    | Expansion vessel                 | 12L                                                 | 12L                    | 12L                    | 18L                    | 18L                    | 24L                    | 24L                    |
|                                    | T&P valve                        | 7 Bar                                               |                        |                        |                        |                        |                        |                        |
| Immersion heaters fitted           |                                  | 1                                                   | 2                      | 2                      | 2                      | 2                      | 2                      | 2                      |
| Immersion heater                   |                                  | 2 x 3kW single phase - 230V - 50Hz                  |                        |                        |                        |                        |                        |                        |
| Secondary return                   |                                  | No                                                  | No                     | No                     | No                     | Yes                    | Yes                    | Yes                    |
| Cylinder material                  |                                  | Duplex stainless steel                              |                        |                        |                        |                        |                        |                        |
| Insulation type                    |                                  | Polyurethane (PU) insulation with CO2 blowing agent |                        |                        |                        |                        |                        |                        |
| Insulation thickness               |                                  | 50mm                                                |                        |                        |                        |                        |                        |                        |
| Standing heat loss (kWh/24h)       |                                  | 0.96                                                | 1.24                   | 1.53                   | 1.78                   | 2.03                   | 2.20                   | 2.34                   |
| Standing heat loss (W)             |                                  | 40                                                  | 51.67                  | 63.75                  | 74.17                  | 84.58                  | 91.67                  | 97.5                   |
| ErP energy efficiency class        |                                  | B                                                   | B                      | C                      | C                      | C                      | C                      | C                      |
| ODP of insulation                  |                                  | 0                                                   |                        |                        |                        |                        |                        |                        |
| GWP of insulation                  |                                  | Less than 5                                         |                        |                        |                        |                        |                        |                        |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request

\*\*\* All pictures shown are for illustration purposes only


**MADE IN**  
MANCHESTER

# SuperFlow Direct Slimline Unvented Cylinders

90L–210L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of unvented mains pressure domestic hot water cylinders for any application.

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

- High quality stainless steel
- 25 year manufacturing warranty, subject to annual maintenance
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management

## SuperFlow Direct Slim

| Model                              |                                  | 90<br>DSSFLOWSLIM                                   | 120<br>DSSFLOWSLIM | 150<br>DSSFLOWSLIM | 180<br>DSSFLOWSLIM | 210<br>DSSFLOWSLIM |
|------------------------------------|----------------------------------|-----------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Nominal capacity (litres)          |                                  | 90                                                  | 120                | 150                | 180                | 210                |
| Height (mm)                        |                                  | 990                                                 | 1208               | 1474               | 1690               | 2003               |
| Diameter (mm)                      |                                  | 475                                                 |                    |                    |                    |                    |
| Packaged dimensions H x W x D (mm) |                                  | 1150 x 550 x 550                                    | 1380 x 550 x 550   | 1570 x 550 x 550   | 1820 x 550 x 550   | 2130 x 550 x 550   |
| Approximate weight (kg)            | Empty                            | 18                                                  | 23                 | 28                 | 33                 | 38                 |
|                                    | Full                             | 108                                                 | 143                | 178                | 213                | 248                |
|                                    | Packaged                         | 40                                                  | 45                 | 50                 | 55                 | 60                 |
| Control & relief valve settings    | Pressure reducing & relief valve | 3 Bar / 6 Bar                                       |                    |                    |                    |                    |
|                                    | Expansion vessel                 | 12L                                                 | 12L                | 12L                | 18L                | 18L                |
|                                    | T&P valve                        | 7 Bar                                               |                    |                    |                    |                    |
| Immersion heaters fitted           |                                  | 2                                                   |                    |                    |                    |                    |
| Immersion heater                   |                                  | 2 x 3kW single phase - 230V - 50Hz                  |                    |                    |                    |                    |
| Secondary return                   |                                  | No                                                  | No                 | No                 | No                 | Yes                |
| Cylinder material                  |                                  | Duplex stainless steel                              |                    |                    |                    |                    |
| Insulation type                    |                                  | Polyurethane (PU) insulation with CO2 blowing agent |                    |                    |                    |                    |
| Insulation thickness               |                                  | 50mm                                                |                    |                    |                    |                    |
| Standing heat loss (kWh/24h)       |                                  | 1.05                                                | 1.23               | 1.41               | 1.52               | 1.59               |
| Standing heat loss (W)             |                                  | 43.75                                               | 51.25              | 58.75              | 63.33              | 66.25              |
| ErP energy efficiency class        |                                  | B                                                   | B                  | C                  | C                  | C                  |
| ODP of insulation                  |                                  | 0                                                   |                    |                    |                    |                    |
| GWP of insulation                  |                                  | Less than 5                                         |                    |                    |                    |                    |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request

\*\*\* All pictures shown are for illustration purposes only



# SuperFlow Indirect Unvented Cylinders

90L–300L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of unvented mains pressure domestic hot water cylinders for any application.

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

- High quality stainless steel
- 25 year manufacturing warranty, subject to annual maintenance
- Highly insulated, Part L compliant
- WRAS approved product
- ISO9001 certified quality management

## SuperFlow Indirect Standard

| Model                               |                                  | 90<br>ISSFLOW                                       | 120<br>ISSFLOW         | 150<br>ISSFLOW         | 180<br>ISSFLOW         | 210<br>ISSFLOW         | 250<br>ISSFLOW         | 300<br>ISSFLOW         |
|-------------------------------------|----------------------------------|-----------------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Nominal capacity (litres)           |                                  | 90                                                  | 120                    | 150                    | 180                    | 210                    | 250                    | 300                    |
| Height (mm)                         |                                  | 792                                                 | 954                    | 1154                   | 1280                   | 1468                   | 1718                   | 2031                   |
| Diameter (mm)                       |                                  | 550                                                 |                        |                        |                        |                        |                        |                        |
| Packaged dimensions H x W x D (mm)  |                                  | 850 x<br>600 x<br>600                               | 1050 x<br>600 x<br>600 | 1250 x<br>600 x<br>600 | 1370 x<br>600 x<br>600 | 1600 x<br>600 x<br>600 | 1864 x<br>600 x<br>600 | 2150 x<br>600 x<br>600 |
| Approximate weight (kg)             | Empty                            | 25                                                  | 30                     | 35                     | 40                     | 45                     | 50                     | 55                     |
|                                     | Full                             | 115                                                 | 150                    | 185                    | 220                    | 255                    | 300                    | 355                    |
|                                     | Packaged                         | 40                                                  | 45                     | 50                     | 55                     | 60                     | 65                     | 70                     |
| Control & relief valve settings     | Pressure reducing & relief valve | 3 Bar / 6 Bar                                       |                        |                        |                        |                        |                        |                        |
|                                     | Expansion vessel                 | 12L                                                 | 12L                    | 12L                    | 12L                    | 18L                    | 18L                    | 24L                    |
|                                     | T&P valve                        | 7 Bar                                               |                        |                        |                        |                        |                        |                        |
| Coil surface area (m <sup>2</sup> ) | Coil                             | 1.1                                                 |                        |                        |                        |                        |                        |                        |
| Immersion heaters fitted            |                                  | 1                                                   |                        |                        |                        |                        |                        |                        |
| Immersion heater                    |                                  | 3kW single phase - 230V - 50Hz                      |                        |                        |                        |                        |                        |                        |
| Secondary return                    |                                  | No                                                  | No                     | No                     | No                     | Yes                    | Yes                    | Yes                    |
| Cylinder material                   |                                  | Duplex stainless steel                              |                        |                        |                        |                        |                        |                        |
| Insulation type                     |                                  | Polyurethane (PU) insulation with CO2 blowing agent |                        |                        |                        |                        |                        |                        |
| Insulation thickness                |                                  | 50mm                                                |                        |                        |                        |                        |                        |                        |
| Standing heat loss (kWh/24h)        |                                  | 1.03                                                | 1.23                   | 1.31                   | 1.60                   | 1.85                   | 2.10                   | 2.31                   |
| Standing heat loss (W)              |                                  | 42.92                                               | 51.25                  | 54.58                  | 66.67                  | 77.08                  | 87.5                   | 96.25                  |
| ErP energy efficiency class         |                                  | B                                                   | B                      | B                      | C                      | C                      | C                      | C                      |
| ODP of insulation                   |                                  | 0                                                   |                        |                        |                        |                        |                        |                        |
| GWP of insulation                   |                                  | Less than 5                                         |                        |                        |                        |                        |                        |                        |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request

\*\*\* All pictures shown are for illustration purposes only


**MADE IN  
MANCHESTER**

# SuperFlow Indirect Slimline Unvented Cylinders

90L–210L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of unvented mains pressure domestic hot water cylinders for any application.

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

- High quality stainless steel
- 25 year manufacturing warranty
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management

## SuperFlow Indirect Slim

| Model                              |                                  | 90                                                  | 120              | 150              | 180              | 210              |
|------------------------------------|----------------------------------|-----------------------------------------------------|------------------|------------------|------------------|------------------|
|                                    |                                  | ISSFLOWSLIM                                         | ISSFLOWSLIM      | ISSFLOWSLIM      | ISSFLOWSLIM      | ISSFLOWSLIM      |
| Nominal capacity (litres)          |                                  | 90                                                  | 120              | 150              | 180              | 210              |
| Height (mm)                        |                                  | 990                                                 | 1208             | 1474             | 1690             | 2003             |
| Diameter (mm)                      |                                  | 475                                                 |                  |                  |                  |                  |
| Packaged dimensions H x W x D (mm) |                                  | –                                                   | 1300 x 550 x 550 | 1570 x 550 x 550 | 1950 x 550 x 550 | 2150 x 550 x 550 |
| Approximate weight (kg)            | Empty                            | 23                                                  | 28               | 33               | 38               | 43               |
|                                    | Full                             | 113                                                 | 148              | 183              | 218              | 253              |
|                                    | Packaged                         | –                                                   | 45               | 50               | 55               | 60               |
| Control & relief valve settings    | Pressure reducing & relief valve | –                                                   | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    |
|                                    | Expansion vessel                 | –                                                   | 12L              | 12L              | 12L              | 18L              |
|                                    | T&P valve                        | –                                                   | 7 Bar            | 7 Bar            | 7 Bar            | 7 Bar            |
| Coil surface area (m²)             | Coil                             | 1.1                                                 |                  |                  |                  |                  |
| Immersion heaters fitted           |                                  | 1                                                   |                  |                  |                  |                  |
| Immersion heater                   |                                  | 3kW single phase - 230V - 50Hz                      |                  |                  |                  |                  |
| Secondary return                   | No                               | No                                                  | No               | No               | Yes              |                  |
| Cylinder material                  |                                  | Duplex stainless steel                              |                  |                  |                  |                  |
| Insulation type                    |                                  | Polyurethane (PU) insulation with CO2 blowing agent |                  |                  |                  |                  |
| Insulation thickness               |                                  | –                                                   | 50mm             | 50mm             | 50mm             | 50mm             |
| Standing heat loss (kWh/24h)       |                                  | 1.05                                                | 1.23             | 1.41             | 1.52             | 1.59             |
| Standing heat loss (W)             |                                  | 43.75                                               | 51.25            | 58.75            | 63.33            | 66.25            |
| ErP energy efficiency class        |                                  | B                                                   | B                | C                | C                | C                |
| ODP of insulation                  |                                  | 0                                                   |                  |                  |                  |                  |
| GWP of insulation                  |                                  | Less than 5                                         |                  |                  |                  |                  |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request

\*\*\* All pictures shown are for illustration purposes only


**MADE IN**  
MANCHESTER



# SuperFlow Direct Ultra Slim Unvented Cylinder

60L–120L



High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of unvented mains pressure domestic hot water cylinders for any application.

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

- High quality stainless steel construction for durability and long life
- 25 year manufacturing warranty for peace of mind
- Highly insulated and Part L compliant for maximum energy efficiency
- Complete unvented system kits included
- Compact 400mm diameter design, ideal for space saving installations
- ISO 9001 certified quality management system
- Direct and indirect models available to suit different heating systems

## Ultra Slim Direct

| Model                              | 60DSSFLOWULTRAS                                                                                         | 90DSSFLOWULTRAS  | 120DSSFLOWULTRAS |
|------------------------------------|---------------------------------------------------------------------------------------------------------|------------------|------------------|
| Nominal capacity (litres)          | 60                                                                                                      | 90               | 120              |
| Height (mm)                        | 1000                                                                                                    | 1400             | 1860             |
| Diameter (mm)                      | 400                                                                                                     |                  |                  |
| Packaged dimensions H x W x D (mm) | 1100 x 450 x 450                                                                                        | 1500 x 450 x 450 | 1960 x 450 x 450 |
| Approximate weight (kg)            | Empty                                                                                                   | 13               | 17               |
|                                    | Full                                                                                                    | 73               | 107              |
|                                    | Packaged                                                                                                | 46               | 50               |
| Control & relief valve settings    | Pressure reducing & relief valve                                                                        | 3 Bar / 6 Bar    |                  |
|                                    | Expansion vessel                                                                                        | 12L              |                  |
|                                    | T&P valve                                                                                               | 7 Bar            |                  |
| Immersion heaters fitted           | 1                                                                                                       | 2                | 2                |
| Immersion heater                   | Direct: 2 x 3kW single phase - 230V - 50Hz (1 on the 60L). Indirect: 1 x 3kW single phase - 230V - 50Hz |                  |                  |
| Secondary return                   | No                                                                                                      |                  |                  |
| Cylinder material                  | Duplex stainless steel                                                                                  |                  |                  |
| Insulation type                    | Polyurethane (PU) insulation with CO2 blowing agent                                                     |                  |                  |
| Insulation thickness               | 50mm                                                                                                    |                  |                  |
| Standing heat loss (kWh/24h)       | 1.19                                                                                                    | 1.26             | 1.35             |
| Standing heat loss (W)             | 49.58                                                                                                   | 52.5             | 56.25            |
| ErP energy efficiency class        | C                                                                                                       |                  |                  |
| ODP of insulation                  | 0                                                                                                       |                  |                  |
| GWP of insulation                  | Less than 5                                                                                             |                  |                  |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request

\*\*\* All pictures shown are for illustration purposes only


**MADE IN  
MANCHESTER**

# SuperFlow Direct Horizontal Unvented Cylinders

90L–300L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel horizontal hot water cylinders, for lofts, ceiling voids and anywhere a tall cylinder won't go.

World Heat Cylinders manufacture a full range of horizontal unvented mains pressure domestic hot water cylinders for any application.

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

- High quality stainless steel
- 25 year manufacturing warranty, subject to annual maintenance
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management

## SuperFlow Direct Horizontal

| Model                              |                                  | 90                                                  | 120      | 150                    | 180                    | 210                    | 250                    | 300                    |
|------------------------------------|----------------------------------|-----------------------------------------------------|----------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                                    |                                  | DHSSFLOW                                            | DHSSFLOW | DHSSFLOW               | DHSSFLOW               | DHSSFLOW               | DHSSFLOW               | DHSSFLOW               |
| Nominal capacity (litres)          |                                  | 90                                                  | 120      | 150                    | 180                    | 210                    | 250                    | 300                    |
| Length (mm)                        |                                  | 792                                                 | 954      | 1154                   | 1280                   | 1468                   | 1718                   | 2031                   |
| Diameter (mm)                      |                                  | 550                                                 |          |                        |                        |                        |                        |                        |
| Packaged dimensions H x W x D (mm) |                                  | –                                                   | –        | 1250 x<br>600 x<br>600 | 1450 x<br>600 x<br>600 | 1650 x<br>600 x<br>600 | 1850 x<br>600 x<br>600 | 2150 x<br>600 x<br>600 |
| Approximate weight (kg)            | Empty                            | 20                                                  | 25       | 30                     | 35                     | 40                     | 45                     | 50                     |
|                                    | Full                             | 110                                                 | 145      | 180                    | 215                    | 250                    | 295                    | 350                    |
|                                    | Packaged                         | –                                                   | –        | 60                     | 65                     | 70                     | 75                     | 80                     |
| Control & relief valve settings    | Pressure reducing & relief valve | –                                                   | –        | 3 Bar / 6 Bar          | 3 Bar / 6 Bar          | 3 Bar / 6 Bar          | 3 Bar / 6 Bar          | 3 Bar / 6 Bar          |
|                                    | Expansion vessel                 | –                                                   | –        | 12L                    | 12L                    | 18L                    | 18L                    | 24L                    |
|                                    | T&P valve                        | –                                                   | –        | 7 Bar                  | 7 Bar                  | 7 Bar                  | 7 Bar                  | 7 Bar                  |
| Immersion heaters fitted           |                                  | 2                                                   |          |                        |                        |                        |                        |                        |
| Immersion heater                   |                                  | 2 x 3kW single phase - 230V - 50Hz                  |          |                        |                        |                        |                        |                        |
| Secondary return                   |                                  | No                                                  | No       | No                     | No                     | Yes                    | Yes                    | Yes                    |
| Cylinder material                  |                                  | Duplex stainless steel                              |          |                        |                        |                        |                        |                        |
| Insulation type                    |                                  | Polyurethane (PU) insulation with CO2 blowing agent |          |                        |                        |                        |                        |                        |
| Insulation thickness               |                                  | –                                                   | –        | 50mm                   | 50mm                   | 50mm                   | 50mm                   | 50mm                   |
| Standing heat loss (kWh/24h)       |                                  | 1.31                                                | 1.48     | 1.55                   | 1.84                   | 1.98                   | 2.15                   | 2.35                   |
| Standing heat loss (W)             |                                  | 54.58                                               | 61.67    | 64.58                  | 76.67                  | 82.5                   | 89.58                  | 97.92                  |
| ErP energy efficiency class        |                                  | C                                                   |          |                        |                        |                        |                        |                        |
| ODP of insulation                  |                                  | 0                                                   |          |                        |                        |                        |                        |                        |
| GWP of insulation                  |                                  | Less than 5                                         |          |                        |                        |                        |                        |                        |

\* Bespoke cylinders available on request

\*\* All pictures shown are for illustration purposes only



# SuperFlow Indirect Horizontal Unvented Cylinders

90L-300L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel horizontal hot water cylinders, for lofts, ceiling voids and anywhere a tall cylinder won't go.

World Heat Cylinders manufacture a full range of horizontal unvented mains pressure domestic hot water cylinders for any application.

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

- High quality stainless steel
- 25 year manufacturing warranty, subject to annual maintenance
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management
- Pre-plumbed models available

## SuperFlow Indirect Horizontal

| Model                               |                                  | 90                                                  | 120                   | 150                    | 180                    | 210                    | 250                    | 300                    |
|-------------------------------------|----------------------------------|-----------------------------------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                                     |                                  | IHSSFLOW                                            | IHSSFLOW              | IHSSFLOW               | IHSSFLOW               | IHSSFLOW               | IHSSFLOW               | IHSSFLOW               |
| Nominal capacity (litres)           |                                  | 90                                                  | 120                   | 150                    | 180                    | 210                    | 250                    | 300                    |
| Length (mm)                         |                                  | 792                                                 | 954                   | 1154                   | 1280                   | 1468                   | 1718                   | 2031                   |
| Diameter (mm)                       |                                  | 550                                                 |                       |                        |                        |                        |                        |                        |
| Packaged dimensions H x W x D (mm)  |                                  | –                                                   | 950 x<br>600 x<br>600 | 1250 x<br>600 x<br>600 | 1450 x<br>600 x<br>600 | 1650 x<br>600 x<br>600 | 1850 x<br>600 x<br>600 | 2100 x<br>600 x<br>600 |
| Approximate weight (kg)             | Empty                            | 25                                                  | 30                    | 35                     | 40                     | 45                     | 50                     | 55                     |
|                                     | Full                             | 115                                                 | 150                   | 185                    | 220                    | 255                    | 300                    | 355                    |
|                                     | Packaged                         | –                                                   | 40                    | 45                     | 50                     | 55                     | 60                     | 65                     |
| Control & relief valve settings     | Pressure reducing & relief valve | –                                                   | 3 Bar / 6 Bar         | 3 Bar / 6 Bar          | 3 Bar / 6 Bar          | 3 Bar / 6 Bar          | 3 Bar / 6 Bar          | 3 Bar / 6 Bar          |
|                                     | Expansion vessel                 | –                                                   | 12L                   | 12L                    | 12L                    | 18L                    | 18L                    | 24L                    |
|                                     | T&P valve                        | –                                                   | 7 Bar                 | 7 Bar                  | 7 Bar                  | 7 Bar                  | 7 Bar                  | 7 Bar                  |
| Coil surface area (m <sup>2</sup> ) | Coil                             | 1.1                                                 |                       |                        |                        |                        |                        |                        |
| Immersion heaters fitted            |                                  | 1                                                   |                       |                        |                        |                        |                        |                        |
| Immersion heater                    |                                  | 1 x 3kW single phase - 230V - 50Hz                  |                       |                        |                        |                        |                        |                        |
| Secondary return                    |                                  | No                                                  | No                    | No                     | No                     | Yes                    | Yes                    | Yes                    |
| Cylinder material                   |                                  | Duplex stainless steel                              |                       |                        |                        |                        |                        |                        |
| Insulation type                     |                                  | Polyurethane (PU) insulation with CO2 blowing agent |                       |                        |                        |                        |                        |                        |
| Insulation thickness                |                                  | –                                                   | 50mm                  | 50mm                   | 50mm                   | 50mm                   | 50mm                   | 50mm                   |
| Standing heat loss (kWh/24h)        |                                  | 1.31                                                | 1.48                  | 1.55                   | 1.84                   | 1.98                   | 2.15                   | 2.35                   |
| Standing heat loss (W)              |                                  | 54.58                                               | 61.67                 | 64.58                  | 76.67                  | 82.5                   | 89.58                  | 97.92                  |
| ErP energy efficiency class         |                                  | C                                                   |                       |                        |                        |                        |                        |                        |
| ODP of insulation                   |                                  | 0                                                   |                       |                        |                        |                        |                        |                        |
| GWP of insulation                   |                                  | Less than 5                                         |                       |                        |                        |                        |                        |                        |

\* Bespoke cylinders available on request

\*\* All pictures shown are for illustration purposes only


**MADE IN MANCHESTER**

# SuperFlow Twin Coil Unvented Cylinders

150L–300L


**WORLD HEAT**  
CYLINDERS


**High quality British manufactured stainless steel domestic hot water solutions designed for any application.**

**World Heat Cylinders manufacture a full range of unvented mains pressure domestic hot water cylinders for any application.**

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

- High quality stainless steel
- 25 year manufacturing warranty
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management

## Solar-Therm Twin coil

| Model                               |                                  | 150TSSFLOW                                          | 180TSSFLOW       | 210TSSFLOW       | 250TSSFLOW       | 300TSSFLOW       |
|-------------------------------------|----------------------------------|-----------------------------------------------------|------------------|------------------|------------------|------------------|
| Nominal capacity (litres)           |                                  | 150                                                 | 180              | 210              | 250              | 300              |
| Height (mm)                         |                                  | 1154                                                | 1280             | 1468             | 1718             | 2031             |
| Diameter (mm)                       |                                  | 550                                                 |                  |                  |                  |                  |
| Dedicated solar volume (litres)     |                                  | 50                                                  | 60               | 70               | 83               | 100              |
| Packaged dimensions H x W x D (mm)  |                                  | 1250 x 600 x 600                                    | 1370 x 600 x 600 | 1600 x 600 x 600 | 1864 x 600 x 600 | 2150 x 600 x 600 |
| Approximate weight (kg)             | Empty                            | 40                                                  | 45               | 50               | 55               | 60               |
|                                     | Full                             | 190                                                 | 225              | 260              | 305              | 360              |
|                                     | Packaged                         | 50                                                  | 55               | 60               | 65               | 70               |
| Control & relief valve settings     | Pressure reducing & relief valve | 3 Bar / 6 Bar                                       |                  |                  |                  |                  |
|                                     | Expansion vessel                 | 12L                                                 | 12L              | 18L              | 18L              | 24L              |
|                                     | T&P valve                        | 7 Bar                                               |                  |                  |                  |                  |
| Coil surface area (m <sup>2</sup> ) | Solar coil                       | 1.1                                                 |                  |                  |                  |                  |
|                                     | Boiler coil                      | 1.1                                                 |                  |                  |                  |                  |
| Immersion heaters fitted            |                                  | 1                                                   |                  |                  |                  |                  |
| Immersion heater                    |                                  | 3kW single phase - 230V - 50Hz                      |                  |                  |                  |                  |
| Secondary return                    |                                  | No                                                  | No               | Yes              | Yes              | Yes              |
| Cylinder material                   |                                  | Duplex stainless steel                              |                  |                  |                  |                  |
| Insulation type                     |                                  | Polyurethane (PU) insulation with CO2 blowing agent |                  |                  |                  |                  |
| Insulation thickness                |                                  | 50mm                                                |                  |                  |                  |                  |
| Standing heat loss (kWh/24h)        |                                  | 1.31                                                | 1.60             | 1.85             | 2.10             | 2.31             |
| Standing heat loss (W)              |                                  | 54.58                                               | 66.67            | 77.08            | 87.5             | 96.25            |
| ErP energy efficiency class         |                                  | B                                                   | C                | C                | C                | C                |
| ODP of insulation                   |                                  | 0                                                   |                  |                  |                  |                  |
| GWP of insulation                   |                                  | Less than 5                                         |                  |                  |                  |                  |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request

\*\*\* All pictures shown are for illustration purposes only


**MADE IN**  
MANCHESTER

# SuperFlow Twin Coil Slimline Unvented Cylinders

150L-210L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of unvented mains pressure domestic hot water cylinders for any application.

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

- High quality stainless steel
- 25 year manufacturing warranty
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management
- Pre-plumbed models available

## Solar-Therm Twin coil slim

| Model                              | 150TSSFLOWSLIM                                      | 180TSSFLOWSLIM   | 210TSSFLOWSLIM   |
|------------------------------------|-----------------------------------------------------|------------------|------------------|
| Nominal capacity (litres)          | 150                                                 | 180              | 210              |
| Height (mm)                        | 1474                                                | 1690             | 2003             |
| Diameter (mm)                      |                                                     | 475              |                  |
| Dedicated solar volume (litres)    | 50                                                  | 60               | 70               |
| Packaged dimensions H x W x D (mm) | 1570 x 550 x 550                                    | 1820 x 550 x 550 | 2150 x 550 x 550 |
| Approximate weight (kg)            | Empty                                               | 38               | 43               |
|                                    | Full                                                | 188              | 223              |
|                                    | Packaged                                            | 50               | 55               |
| Control & relief valve settings    | Pressure reducing & relief valve                    | 3 Bar / 6 Bar    |                  |
|                                    | Expansion vessel                                    | 12L              | 12L              |
|                                    | T&P valve                                           | 7 Bar            |                  |
| Coil surface area (m²)             | Solar coil                                          | 1.1              |                  |
|                                    | Boiler coil                                         | 1.1              |                  |
| Immersion heaters fitted           | 1                                                   |                  |                  |
| Immersion heater                   | 3kW single phase - 230V - 50Hz                      |                  |                  |
| Secondary return                   | No                                                  | No               | Yes              |
| Cylinder material                  | Duplex stainless steel                              |                  |                  |
| Insulation type                    | Polyurethane (PU) insulation with CO2 blowing agent |                  |                  |
| Insulation thickness               | 50mm                                                |                  |                  |
| Standing heat loss (kWh/24h)       | 1.41                                                | 1.52             | 1.59             |
| Standing heat loss (W)             | 58.75                                               | 63.33            | 66.25            |
| ErP energy efficiency class        | C                                                   |                  |                  |
| ODP of insulation                  | 0                                                   |                  |                  |
| GWP of insulation                  | Less than 5                                         |                  |                  |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request

\*\*\* All pictures shown are for illustration purposes only



# Solar Direct Unvented Cylinder

150L–300L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of unvented mains pressure domestic hot water cylinders for any application.

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

- High quality stainless steel
- 25 year manufacturing warranty
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management
- Pre-plumbed models available

## Solar-Therm Direct

| Model                        |       | 150<br>SDSSFLOW | 180<br>SDSSFLOW                                     | 210<br>SDSSFLOW | 250<br>SDSSFLOW | 300<br>SDSSFLOW |
|------------------------------|-------|-----------------|-----------------------------------------------------|-----------------|-----------------|-----------------|
| Nominal capacity (litres)    |       | 150             | 180                                                 | 210             | 250             | 300             |
| Height (mm)                  |       | 1154            | 1280                                                | 1468            | 1718            | 2031            |
| Diameter (mm)                |       | 550             |                                                     |                 |                 |                 |
| Approximate weight (kg)      | Empty | 35              | 40                                                  | 45              | 50              | 55              |
|                              | Full  | 185             | 220                                                 | 255             | 300             | 355             |
| Coil surface area (m²)       | Coil  | 1.1             |                                                     |                 |                 |                 |
| Immersion heaters fitted     |       |                 |                                                     | 1               |                 |                 |
| Immersion heater             |       |                 | 3kW single phase - 230V - 50Hz                      |                 |                 |                 |
| Secondary return             |       | No              | No                                                  | Yes             | Yes             | Yes             |
| Cylinder material            |       |                 | Duplex stainless steel                              |                 |                 |                 |
| Insulation type              |       |                 | Polyurethane (PU) insulation with CO2 blowing agent |                 |                 |                 |
| Standing heat loss (kWh/24h) |       | 1.31            | 1.60                                                | 1.85            | 2.10            | 2.31            |
| Standing heat loss (W)       |       | 54.58           | 66.67                                               | 77.08           | 87.5            | 96.25           |
| ErP energy efficiency class  |       | B               | C                                                   | C               | C               | C               |
| ODP of insulation            |       |                 |                                                     | 0               |                 |                 |
| GWP of insulation            |       |                 |                                                     | Less than 5     |                 |                 |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request

\*\*\* All pictures shown are for illustration purposes only


**MADE IN  
MANCHESTER**

PRODUCT FAMILY

# Heat pump cylinders

Stainless steel unvented cylinders with large-surface-area coils sized for low-temperature heat pump flow, in slim, standard and wide diameters.

IN THIS SECTION

- 25 Climacyl heat pump cylinder
- 26 Climacyl Twin Coil heat pump and solar cylinder
- 27 Climacyl Horizontal heat pump cylinder
- 28 EcoSlim heat pump cylinder
- 29 EcoSlim pre-plumbed heat pump cylinder
- 30 EcoSlim Horizontal heat pump cylinder
- 31 Climabuff integrated buffer cylinder
- 32 Climabuff Slimline integrated buffer cylinder
- 33 Climabuff 400L and 500L integrated buffer cylinder

[See the range online →](#)

# Climacyl Heat Pump Cylinder

90L-300L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of unvented mains pressure domestic hot water cylinders for any application.

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

- High quality stainless steel
- 25 year manufacturing warranty
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management
- Pre-plumbed models available

## Climacyl Standard

| Model                               |                                  | 90                                                  | 120              | 150              | 180              | 210              | 250              | 300              |
|-------------------------------------|----------------------------------|-----------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                     |                                  | CLIMACYLSS2                                         | CLIMACYLSS2      | CLIMACYLSS2      | CLIMACYLSS2      | CLIMACYLSS3      | CLIMACYLSS3      | CLIMACYLSS3      |
| Nominal capacity (litres)           |                                  | 90                                                  | 120              | 150              | 180              | 210              | 250              | 300              |
| Height (mm)                         |                                  | 792                                                 | 954              | 1154             | 1280             | 1468             | 1718             | 2031             |
| Diameter (mm)                       |                                  | 550                                                 |                  |                  |                  |                  |                  |                  |
| Packaged dimensions H x W x D (mm)  |                                  | –                                                   | 1000 x 600 x 600 | 1250 x 600 x 600 | 1450 x 600 x 600 | 1600 x 600 x 600 | 1920 x 600 x 600 | 2230 x 600 x 600 |
| Approximate weight (kg)             | Empty                            | 30                                                  | 35               | 40               | 45               | 55               | 60               | 65               |
|                                     | Full                             | 120                                                 | 155              | 190              | 225              | 265              | 310              | 365              |
|                                     | Packaged                         | –                                                   | 55               | 60               | 65               | 70               | 75               | 80               |
| Control & relief valve settings     | Pressure reducing & relief valve | –                                                   | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    |
|                                     | Expansion vessel                 | –                                                   | 12L              | 12L              | 12L              | 18L              | 18L              | 24L              |
|                                     | T&P valve                        | –                                                   | 7 Bar            | 7 Bar            | 7 Bar            | 7 Bar            | 7 Bar            | 7 Bar            |
| Coil surface area (m <sup>2</sup> ) | Coil                             | 2.29                                                | 2.29             | 2.29             | 2.29             | 3.31             | 3.31             | 3.31             |
| Immersion heaters fitted            |                                  | 1                                                   |                  |                  |                  |                  |                  |                  |
| Immersion heater                    |                                  | 3kW single phase - 230V - 50Hz                      |                  |                  |                  |                  |                  |                  |
| Secondary return                    |                                  | No                                                  | No               | No               | No               | Yes              | Yes              | Yes              |
| Cylinder material                   |                                  | Duplex stainless steel                              |                  |                  |                  |                  |                  |                  |
| Insulation type                     |                                  | Polyurethane (PU) insulation with CO2 blowing agent |                  |                  |                  |                  |                  |                  |
| Standing heat loss (kWh/24h)        |                                  | 1.14                                                | 1.23             | 1.31             | 1.60             | 1.85             | 2.10             | 2.31             |
| Standing heat loss (W)              |                                  | 47.5                                                | 51.25            | 54.58            | 66.67            | 77.08            | 87.5             | 96.25            |
| ErP energy efficiency class         |                                  | B                                                   | B                | B                | C                | C                | C                | C                |
| ODP of insulation                   |                                  | 0                                                   |                  |                  |                  |                  |                  |                  |
| GWP of insulation                   |                                  | Less than 5                                         |                  |                  |                  |                  |                  |                  |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request

\*\*\* All pictures shown are for illustration purposes only


**MADE IN MANCHESTER**


# Climacyl Twin Coil Unvented Heat Pump & Solar Cylinders

150L–300L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of unvented mains pressure heat pump and solar twin coil cylinders for any application.

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

- High quality stainless steel
- 25 year manufacturing warranty
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management
- Pre-plumbed models available

## Climacyl Twin coil (heat pump & solar)

| Model                              | 150<br>CLIMACYLSSTC21                               | 180<br>CLIMACYLSSTC21 | 250<br>CLIMACYLSSTC31 | 300<br>CLIMACYLSSTC31 |
|------------------------------------|-----------------------------------------------------|-----------------------|-----------------------|-----------------------|
| Nominal capacity (litres)          | 150                                                 | 180                   | 250                   | 300                   |
| Height (mm)                        | 1154                                                | 1280                  | 1718                  | 2031                  |
| Diameter (mm)                      | 550                                                 |                       |                       |                       |
| Packaged dimensions H x W x D (mm) | 1250 x 600 x 600                                    | 1320 x 600 x 600      | 1810 x 600 x 600      | 2150 x 600 x 600      |
| Approximate weight (kg)            | Empty                                               | 45                    | 65                    | 70                    |
|                                    | Full                                                | 195                   | 315                   | 370                   |
|                                    | Packaged                                            | 50                    | 65                    | 70                    |
| Control & relief valve settings    | Pressure reducing & relief valve                    | 3 Bar / 6 Bar         |                       |                       |
|                                    | Expansion vessel                                    | 12L                   | 18L                   | 24L                   |
|                                    | T&P valve                                           | 7 Bar                 |                       |                       |
| Coil surface area (m²)             | Heat pump coil                                      | 2.29                  | 3.31                  | 3.31                  |
|                                    | Solar coil                                          | 1.1                   |                       |                       |
| Immersion heaters fitted           | 1                                                   |                       |                       |                       |
| Immersion heater                   | 3kW single phase - 230V - 50Hz                      |                       |                       |                       |
| Secondary return                   | No                                                  | No                    | Yes                   | Yes                   |
| Cylinder material                  | Duplex stainless steel                              |                       |                       |                       |
| Insulation type                    | Polyurethane (PU) insulation with CO2 blowing agent |                       |                       |                       |
| Insulation thickness               | 50mm                                                |                       |                       |                       |
| Standing heat loss (kWh/24h)       | 1.31                                                | 1.60                  | 2.10                  | 2.31                  |
| Standing heat loss (W)             | 54.58                                               | 66.67                 | 87.5                  | 96.25                 |
| ErP energy efficiency class        | B                                                   | C                     | C                     | C                     |
| ODP of insulation                  | 0                                                   |                       |                       |                       |
| GWP of insulation                  | Less than 5                                         |                       |                       |                       |

\* Bespoke cylinders available on request

\*\* All pictures shown are for illustration purposes only



# Climacyl Horizontal Unvented Heat Pump Cylinders

120L-300L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel horizontal hot water cylinders, for lofts, ceiling voids and anywhere a tall cylinder won't go.

World Heat Cylinders manufacture a full range of horizontal unvented heat pump cylinders, with a heat exchanger designed for heat pump systems.

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

- High quality stainless steel
- Heat exchanger specifically designed for heat pump systems
- 25 year manufacturing warranty, subject to annual maintenance
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management

## Climacyl Horizontal

| Model                               |                                  | 120<br>CLIMACYLSSH                                  | 150<br>CLIMACYLSSH  | 180<br>CLIMACYLSSH  | 210<br>CLIMACYLSSH  | 250<br>CLIMACYLSSH  | 300<br>CLIMACYLSSH  |
|-------------------------------------|----------------------------------|-----------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Nominal capacity (litres)           |                                  | 120                                                 | 150                 | 180                 | 210                 | 250                 | 300                 |
| Length (mm)                         |                                  | 954                                                 | 1154                | 1280                | 1468                | 1718                | 2031                |
| Diameter (mm)                       |                                  | 550                                                 |                     |                     |                     |                     |                     |
| Packaged dimensions H x W x D (mm)  |                                  | –                                                   | 1250 x 600<br>x 600 | 1450 x 600<br>x 600 | 1650 x 600<br>x 600 | 1850 x 600<br>x 600 | 2100 x 600<br>x 600 |
| Approximate weight (kg)             | Empty                            | 35                                                  | 40                  | 45                  | 55                  | 60                  | 65                  |
|                                     | Full                             | 155                                                 | 190                 | 225                 | 265                 | 310                 | 365                 |
|                                     | Packaged                         | –                                                   | 45                  | 50                  | 55                  | 60                  | 65                  |
| Control & relief valve settings     | Pressure reducing & relief valve | –                                                   | 3 Bar / 6 Bar       | 3 Bar / 6 Bar       | 3 Bar / 6 Bar       | 3 Bar / 6 Bar       | 3 Bar / 6 Bar       |
|                                     | Expansion vessel                 | –                                                   | 12L                 | 12L                 | 18L                 | 18L                 | 24L                 |
|                                     | T&P valve                        | –                                                   | 7 Bar               | 7 Bar               | 7 Bar               | 7 Bar               | 7 Bar               |
| Coil surface area (m <sup>2</sup> ) | Coil                             | 2.29                                                | 2.29                | 2.29                | 3.31                | 3.31                | 3.31                |
|                                     | Immersion heaters fitted         | 1                                                   |                     |                     |                     |                     |                     |
| Immersion heater                    |                                  | 1 x 3kW single phase - 230V - 50Hz                  |                     |                     |                     |                     |                     |
| Secondary return                    |                                  | No                                                  | No                  | No                  | Yes                 | Yes                 | Yes                 |
| Cylinder material                   |                                  | Duplex stainless steel                              |                     |                     |                     |                     |                     |
| Insulation type                     |                                  | Polyurethane (PU) insulation with CO2 blowing agent |                     |                     |                     |                     |                     |
| Insulation thickness                |                                  | –                                                   | 50mm                | 50mm                | 50mm                | 50mm                | 50mm                |
| Standing heat loss (kWh/24h)        |                                  | 1.48                                                | 1.55                | 1.84                | 1.98                | 2.15                | 2.35                |
| Standing heat loss (W)              |                                  | 61.67                                               | 64.58               | 76.67               | 82.5                | 89.58               | 97.92               |
| ErP energy efficiency class         |                                  | C                                                   |                     |                     |                     |                     |                     |
| ODP of insulation                   |                                  | 0                                                   |                     |                     |                     |                     |                     |
| GWP of insulation                   |                                  | Less than 5                                         |                     |                     |                     |                     |                     |

\* Bespoke cylinders available on request

\*\* All pictures shown are for illustration purposes only



# Ecoslim Heat Pump Cylinder

90L-210L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of slimline unvented heat pump cylinders, only 475mm in diameter, for cupboards and tight spaces.

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

- High quality stainless steel
- 25 year manufacturing warranty
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management
- Pre-plumbed models available

## Ecoslim Standard

| Model                               | 90ECOSLIMSS2                                        | 120ECOSLIMSS2    | 150ECOSLIMSS2    | 180ECOSLIMSS2    | 210ECOSLIMSS3    |
|-------------------------------------|-----------------------------------------------------|------------------|------------------|------------------|------------------|
| Nominal capacity (litres)           | 90                                                  | 120              | 150              | 180              | 210              |
| Height (mm)                         | 990                                                 | 1208             | 1474             | 1690             | 2003             |
| Diameter (mm)                       | 475                                                 |                  |                  |                  |                  |
| Packaged dimensions H x W x D (mm)  | –                                                   | 1250 x 475 x 475 | 1550 x 475 x 475 | 1750 x 475 x 475 | 2100 x 475 x 475 |
| Approximate weight (kg)             | Empty                                               | 30               | 33               | 38               | 53               |
|                                     | Full                                                | 120              | 153              | 188              | 263              |
|                                     | Packaged                                            | –                | 55               | 60               | 70               |
| Control & relief valve settings     | Pressure reducing & relief valve                    | –                | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    | 3 Bar / 6 Bar    |
|                                     | Expansion vessel                                    | –                | 12L              | 12L              | 12L              |
|                                     | T&P valve                                           | –                | 7 Bar            | 7 Bar            | 7 Bar            |
| Coil surface area (m <sup>2</sup> ) | Coil                                                | 2.29             | 2.29             | 2.29             | 3.31             |
| Immersion heaters fitted            | 1                                                   |                  |                  |                  |                  |
| Immersion heater                    | 3kW single phase - 230V - 50Hz                      |                  |                  |                  |                  |
| Secondary return                    | No                                                  | No               | No               | No               | Yes              |
| Cylinder material                   | Duplex stainless steel                              |                  |                  |                  |                  |
| Insulation type                     | Polyurethane (PU) insulation with CO2 blowing agent |                  |                  |                  |                  |
| Standing heat loss (kWh/24h)        | 1.05                                                | 1.23             | 1.41             | 1.52             | 1.59             |
| Standing heat loss (W)              | 43.75                                               | 51.25            | 58.75            | 63.33            | 66.25            |
| ErP energy efficiency class         | B                                                   | B                | C                | C                | C                |
| ODP of insulation                   | 0                                                   |                  |                  |                  |                  |
| GWP of insulation                   | Less than 5                                         |                  |                  |                  |                  |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request


**MADE IN**  
MANCHESTER

# Ecoslim Heat Pump Pre-Plumb Cylinder

120L-210L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of slimline unvented heat pump cylinders, only 475mm in diameter, for cupboards and tight spaces.

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

- High quality stainless steel
- 25 year manufacturing warranty
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management
- Pre-plumbed models available

## Ecoslim Pre-plumbed

| Model                               |       | 120ECOSLIMPP2                                                   | 150ECOSLIMPP2 | 180ECOSLIMPP2 | 210ECOSLIMPP3 |
|-------------------------------------|-------|-----------------------------------------------------------------|---------------|---------------|---------------|
| Nominal capacity (litres)           |       | 120                                                             | 150           | 180           | 210           |
| Height (mm)                         |       | 1208                                                            | 1474          | 1690          | 2003          |
| Diameter (mm)                       |       | 475                                                             |               |               |               |
| Approximate weight (kg)             | Empty | 47                                                              | 52            | 57            | 67            |
|                                     | Full  | 167                                                             | 202           | 237           | 277           |
| Coil surface area (m <sup>2</sup> ) | Coil  | 2.29                                                            | 2.29          | 2.29          | 3.31          |
| Immersion heaters fitted            |       | 1                                                               |               |               |               |
| Immersion heater                    |       | 3kW single phase - 230V - 50Hz                                  |               |               |               |
| Secondary return                    |       | No                                                              | No            | No            | Yes           |
| Cylinder material                   |       | Duplex stainless steel                                          |               |               |               |
| Insulation type                     |       | Polyurethane (PU) insulation with CO <sub>2</sub> blowing agent |               |               |               |
| Standing heat loss (kWh/24h)        |       | 1.23                                                            | 1.41          | 1.52          | 1.59          |
| Standing heat loss (W)              |       | 51.25                                                           | 58.75         | 63.33         | 66.25         |
| ErP energy efficiency class         |       | B                                                               | C             | C             | C             |
| ODP of insulation                   |       | 0                                                               |               |               |               |
| GWP of insulation                   |       | Less than 5                                                     |               |               |               |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request


**MADE IN**  
MANCHESTER

# Ecoslim Horizontal Heat Pump Cylinder

150L–210L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

World Heat Cylinders manufacture a full range of slimline unvented heat pump cylinders, only 475mm in diameter, for cupboards and tight spaces.

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

- High quality stainless steel
- 25 year manufacturing warranty
- Highly insulated, Part L compliant
- Full system unvented kits
- WRAS approved product
- ISO9001 certified quality management
- Pre-plumbed models available

## Ecoslim Horizontal

| Model                               |       | 150ECOSLIMSSH | 180ECOSLIMSSH                                       | 210ECOSLIMSSH |
|-------------------------------------|-------|---------------|-----------------------------------------------------|---------------|
| Nominal capacity (litres)           |       | 150           | 180                                                 | 210           |
| Length (mm)                         |       | 1474          | 1690                                                | 2003          |
| Diameter (mm)                       |       |               | 475                                                 |               |
| Approximate weight (kg)             | Empty | 38            | 43                                                  | 53            |
|                                     | Full  | 188           | 223                                                 | 263           |
| Coil surface area (m <sup>2</sup> ) | Coil  | 2.29          | 2.29                                                | 3.31          |
| Immersion heaters fitted            |       |               | 1                                                   |               |
| Immersion heater                    |       |               | 3kW single phase - 230V - 50Hz                      |               |
| Secondary return                    |       | No            | No                                                  | Yes           |
| Cylinder material                   |       |               | Duplex stainless steel                              |               |
| Insulation type                     |       |               | Polyurethane (PU) insulation with CO2 blowing agent |               |
| Standing heat loss (kWh/24h)        |       | 1.68          | 1.95                                                | 2.08          |
| Standing heat loss (W)              |       | 70            | 81.25                                               | 86.67         |
| ErP energy efficiency class         |       |               | C                                                   |               |
| ODP of insulation                   |       |               | 0                                                   |               |
| GWP of insulation                   |       |               | Less than 5                                         |               |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request



# Climabuff Heat Pump Cylinders with Integrated Buffer

150L-300L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

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

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

- Combined buffer vessel and cylinder
- High quality stainless steel
- 25 year manufacturing warranty, subject to annual maintenance
- Highly insulated, Part L compliant
- Full system unvented kits
- ISO9001 certified quality management
- Pre-plumbed models available

## Climabuff Standard

| Model                               | 150<br>CLIMABUFF                                    | 180<br>CLIMABUFF | 210<br>CLIMABUFF | 250<br>CLIMABUFF | 300<br>CLIMABUFF |
|-------------------------------------|-----------------------------------------------------|------------------|------------------|------------------|------------------|
| Nominal capacity (litres)           | 150                                                 | 180              | 210              | 250              | 300              |
| Height (mm)                         | 1424                                                | 1550             | 1738             | 1988             | 1994             |
| Diameter (mm)                       | 550                                                 | 550              | 550              | 550              | 600              |
| Integrated buffer (litres)          | 50                                                  |                  |                  |                  |                  |
| Packaged dimensions H x W x D (mm)  | 1605 x 600 x 900                                    | 1730 x 600 x 900 | 1920 x 600 x 900 | 2120 x 600 x 900 | 2120 x 600 x 900 |
| Approximate weight (kg)             | Empty                                               | 62               | 66               | 72               | 78               |
|                                     | Full                                                | 262              | 296              | 332              | 378              |
|                                     | Packaged                                            | 77               | 81               | 86               | 92               |
| Control & relief valve settings     | Pressure reducing & relief valve                    | 3 Bar / 6 Bar    |                  |                  |                  |
|                                     | Expansion vessel                                    | 12L              | 12L              | 18L              | 24L              |
|                                     | T&P valve                                           | 7 Bar            |                  |                  |                  |
| Coil surface area (m <sup>2</sup> ) | Coil                                                | 2.29             | 2.29             | 3.31             | 3.31             |
| Immersion heaters fitted            | 1 cylinder + 1 buffer                               |                  |                  |                  |                  |
| Immersion heater                    | 1 x 3kW single phase - 230V - 50Hz                  |                  |                  |                  |                  |
| Secondary return                    | No                                                  | No               | Yes              | Yes              | Yes              |
| Cylinder material                   | Duplex stainless steel                              |                  |                  |                  |                  |
| Buffer vessel material              | Stainless steel                                     |                  |                  |                  |                  |
| Insulation type                     | Polyurethane (PU) insulation with CO2 blowing agent |                  |                  |                  |                  |
| Insulation thickness                | 50mm                                                |                  |                  |                  |                  |
| Standing heat loss (kWh/24h)        | 1.55                                                | 1.71             | 1.89             | 2.17             | 2.22             |
| Standing heat loss (W)              | 64.58                                               | 71.25            | 78.75            | 90.42            | 92.5             |
| ErP energy efficiency class         | C                                                   |                  |                  |                  |                  |
| ODP of insulation                   | 0                                                   |                  |                  |                  |                  |
| GWP of insulation                   | Less than 5                                         |                  |                  |                  |                  |

\* 100 litre buffer available on request (dimensions differ)

\*\* Bespoke cylinders available on request


**MADE IN  
MANCHESTER**

# Climabuff Slimline Heat Pump Cylinders with Integrated Buffer

120L-180L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured stainless steel domestic hot water solutions designed for any application.

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

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

- Combined buffer vessel and cylinder
- High quality stainless steel
- 25 year manufacturing warranty, subject to annual maintenance
- Highly insulated, Part L compliant
- Full system unvented kits
- ISO9001 certified quality management
- Pre-plumbed models available

## Climabuff Slim

| Model                               | 120CLIMABUFFSLIM                                    | 150CLIMABUFFSLIM | 180CLIMABUFFSLIM |
|-------------------------------------|-----------------------------------------------------|------------------|------------------|
| Nominal capacity (litres)           | 120                                                 | 150              | 180              |
| Height (mm)                         | 1484                                                | 1824             | 2040             |
| Diameter (mm)                       |                                                     | 475              |                  |
| Integrated buffer (litres)          |                                                     | 30               |                  |
| Packaged dimensions H x W x D (mm)  | –                                                   | 2000 x 600 x 900 | 2100 x 600 x 900 |
| Approximate weight (kg)             | Empty                                               | 57               | 62               |
|                                     | Full                                                | 207              | 242              |
|                                     | Packaged                                            | –                | 77               |
| Control & relief valve settings     | Pressure reducing & relief valve                    | –                | 3 Bar / 6 Bar    |
|                                     | Expansion vessel                                    | –                | 12L              |
|                                     | T&P valve                                           | –                | 7 Bar            |
| Coil surface area (m <sup>2</sup> ) | Coil                                                | 2.29             |                  |
| Immersion heaters fitted            | 1 cylinder + 1 buffer                               |                  |                  |
| Immersion heater                    | 1 x 3kW single phase - 230V - 50Hz                  |                  |                  |
| Secondary return                    | No                                                  |                  |                  |
| Cylinder material                   | Duplex stainless steel                              |                  |                  |
| Buffer vessel material              | Stainless steel                                     |                  |                  |
| Insulation type                     | Polyurethane (PU) insulation with CO2 blowing agent |                  |                  |
| Insulation thickness                | –                                                   | 50mm             | 50mm             |
| Standing heat loss (kWh/24h)        | 1.33                                                | 1.66             | 1.79             |
| Standing heat loss (W)              | 55.42                                               | 69.17            | 74.58            |
| ErP energy efficiency class         | C                                                   |                  |                  |
| ODP of insulation                   | 0                                                   |                  |                  |
| GWP of insulation                   | Less than 5                                         |                  |                  |

\* Bespoke cylinders available on request


**MADE IN**  
MANCHESTER



# Climabuff 400L and 500L Heat Pump Cylinders with Integrated Buffer

400L-500L



High quality British manufactured stainless steel domestic hot water solutions designed for any application.

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

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

- Combined buffer vessel and cylinder
- High quality stainless steel
- 25 year manufacturing warranty, subject to annual maintenance
- Highly insulated, Part L compliant
- Full system unvented kits
- ISO9001 certified quality management
- Pre-plumbed models available

## Climabuff 400-500 400L and 500L

| Model                              | 400CLIMABUFF                                        | 500CLIMABUFF     |
|------------------------------------|-----------------------------------------------------|------------------|
| Nominal capacity (litres)          | 400                                                 | 500              |
| Height (mm)                        | 1842                                                | 2150             |
| Integrated buffer (litres)         | 50                                                  | –                |
| Packaged dimensions H x W x D (mm) | 2000 x 800 x 900                                    | 2300 x 800 x 900 |
| Approximate weight (kg)            | Empty                                               | 180              |
|                                    | Full                                                | 580              |
|                                    | Packaged                                            | 203              |
| Control & relief valve settings    | Pressure reducing & relief valve                    | 3 Bar / 6 Bar    |
|                                    | Expansion vessel                                    | 35L              |
|                                    | T&P valve                                           | 7 Bar            |
| Immersion heater                   | 1 x 3kW single phase - 230V - 50Hz                  |                  |
| Cylinder material                  | 316 stainless steel                                 |                  |
| Buffer vessel material             | 316 stainless steel                                 |                  |
| Insulation type                    | Polyurethane (PU) insulation with CO2 blowing agent |                  |
| Insulation thickness               | 50mm                                                |                  |
| Standing heat loss (W)             | 74                                                  | 79               |
| ErP energy efficiency class        | B                                                   |                  |
| ODP of insulation                  | 0                                                   |                  |
| GWP of insulation                  | Less than 5                                         |                  |

\* Bespoke cylinders available on request



PRODUCT FAMILY

# Pre-plumbed heat pump cylinders

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

## IN THIS SECTION

- 35 S-Cyl pre-plumbed cylinder for Samsung
- 36 E-Cyl pre-plumbed cylinder for Mitsubishi Ecodan
- 37 E-Cyl Slimline pre-plumbed cylinder for Mitsubishi Ecodan
- 38 V-Cyl pre-plumbed cylinder for LG
- 39 U-Cyl universal pre-plumbed cylinder
- 40 U-Cyl Plus universal pre-plumbed cylinder

[See the range online →](#)

# S-Cyl Pre-Plumbed Heat Pump Cylinder

180L–300L


**WORLD HEAT**  
CYLINDERS


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.

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
- Includes the Samsung FN touch screen controller
- Integrated 50L stainless steel buffer (30L on slim units)
- Saves installation time
- Prevents installation faults
- 25 year manufacturing warranty on the 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 and 28mm flow sensor supplied separately

| Model                                         | 180SCYLPSS                                          | 210SCYLPSS                         | 250SCYLPSS       | 300SCYLPSS       |
|-----------------------------------------------|-----------------------------------------------------|------------------------------------|------------------|------------------|
| Nominal capacity (litres)                     | 180                                                 | 210                                | 250              | 300              |
| Overall cylinder dimensions H x W x D (mm)    | 1550 x 550 x 700                                    | 1738 x 550 x 700                   | 1988 x 550 x 700 | 1994 x 600 x 750 |
| Integrated buffer (litres)                    | 50                                                  |                                    |                  |                  |
| Weights (kg)                                  | Empty                                               | 84                                 | 90               | 96               |
|                                               | Full                                                | 314                                | 350              | 396              |
|                                               | Packaged                                            | 89                                 | 95               | 101              |
| Unvented expansion vessel                     | Nominal volume                                      | 18L                                | 18L              | 18L              |
|                                               | Charge pressure                                     | 3.0 Bar                            |                  |                  |
| Control & relief valve pressure settings      | Mains inlet pressure regulator                      | 3.0 Bar                            |                  |                  |
|                                               | Expansion relief valve                              | 6.0 Bar                            |                  |                  |
|                                               | T&P relief valve                                    | 7.0 Bar & 90°C                     |                  |                  |
| Control & overheat safety thermostat settings | DHW control stat                                    | Samsung FN touch screen controller |                  |                  |
|                                               | High limit stat                                     | Mechanical 90°C                    |                  |                  |
|                                               | Voltage                                             | 230 - 240 V                        |                  |                  |
|                                               | Electronic immersion                                | Samsung FN touch screen controller |                  |                  |
| Cylinder material                             | Duplex StainlessSteel                               |                                    |                  |                  |
| DHW immersion heater duty                     | 3kW (13 Amps 230V ac)                               |                                    |                  |                  |
| Primary (buffer) immersion heater duty        | 3kW (13 Amps 230V ac)                               |                                    |                  |                  |
| Heating surface area (m²)                     | 2.29                                                | 3.31                               | 3.31             | 3.31             |
| Secondary return                              | No                                                  | Yes                                | Yes              | Yes              |
| 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 pipework    | 11kPa @ 17 litres per minute                        |                                    |                  |                  |
| Re-heat time                                  | 35 - 45 minutes                                     |                                    |                  |                  |
| Standing heat loss (W)                        | 71.25                                               | 78.75                              | 87.5             | 92.5             |
| ErP rating                                    | C                                                   |                                    |                  |                  |
| ODP of insulation                             | 0                                                   |                                    |                  |                  |
| GWP of insulation                             | Less than 5                                         |                                    |                  |                  |

\* Solar twin coil units available on request



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

150L-300L


**WORLD HEAT**  
CYLINDERS


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 Mitsubishi Ecodan air source heat pump systems.

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 Mitsubishi Ecodan heat pumps
- Integrated stainless steel buffer for hydraulic separation
- Saves installation time
- Prevents installation faults
- 25 year manufacturing warranty on the 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 and 28mm flow setter supplied separately
- Primary pipework and components are all 28mm compression

| Model                                         | 150ECYLPSS                     | 180ECYLPSS       | 210ECYLPSS                                                | 250ECYLPSS       | 300ECYLPSS       |
|-----------------------------------------------|--------------------------------|------------------|-----------------------------------------------------------|------------------|------------------|
| Nominal capacity (litres)                     | 150                            | 180              | 210                                                       | 250              | 300              |
| Overall cylinder dimensions H x W x D (mm)    | 1424 x 550 x 700               | 1550 x 550 x 700 | 1738 x 550 x 700                                          | 1988 x 550 x 700 | 1994 x 600 x 750 |
| Integrated buffer (litres)                    |                                |                  | 50                                                        |                  |                  |
| Weights (kg)                                  | Empty                          | 76               | 80                                                        | 86               | 102              |
|                                               | Full                           | 276              | 310                                                       | 346              | 452              |
|                                               | Packaged                       | 77               | 81                                                        | 86               | 99               |
| Unvented expansion vessel                     | Nominal volume                 | 12L              | 19L                                                       | 19L              | 24L              |
|                                               | Charge pressure                |                  |                                                           | 3.0 Bar          |                  |
|                                               | Mains inlet pressure regulator |                  |                                                           | 3.0 Bar          |                  |
| Control & relief valve pressure settings      | Expansion relief valve         |                  |                                                           | 6.0 Bar          |                  |
|                                               | T&P relief valve               |                  |                                                           | 7.0 Bar & 90°C   |                  |
|                                               | DHW control stat               |                  | Ecodan FTC controller (not supplied)                      |                  |                  |
| Control & overheat safety thermostat settings | High limit stat                |                  | Mechanical 90°C                                           |                  |                  |
|                                               | Voltage                        |                  | 230 - 240 V                                               |                  |                  |
|                                               | Electronic immersion           |                  | Ecodan FTC controller (not supplied)                      |                  |                  |
| 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 (m²)                     | 2.29                           | 2.29             | 3.31                                                      | 3.31             | 3.31             |
| Secondary return                              | No                             | No               | Yes                                                       | Yes              | Yes              |
| 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                    |                                |                  | Ecodan FTC controller / 3rd party controls (not supplied) |                  |                  |
| Hot water controller                          |                                |                  | Ecodan FTC controller (not supplied)                      |                  |                  |
| Magnetic filter                               |                                |                  | 28mm magnetic filter                                      |                  |                  |
| Flow setter valve                             |                                |                  | 28mm inline flow setter (supplied separately)             |                  |                  |
| Primary pressure drop of cylinder pipework    |                                |                  | 16kPa @ 17 litres per minute                              |                  |                  |
| Re-heat time                                  |                                |                  | 35 - 45 minutes                                           |                  |                  |
| Standing heat loss (W)                        | 64.58                          | 71.25            | 78.75                                                     | 87.5             | 92.5             |
| ErP rating                                    |                                |                  | C                                                         |                  |                  |
| ODP of insulation                             |                                |                  | 0                                                         |                  |                  |
| GWP of insulation                             |                                |                  | Less than 5                                               |                  |                  |

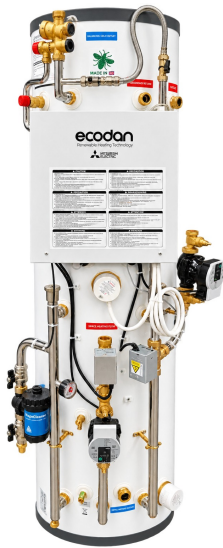
\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request


**MADE IN**  
MANCHESTER

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

150L-180L


**WORLD HEAT**  
CYLINDERS


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 Mitsubishi Ecodan air source heat pump systems.

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 Mitsubishi Ecodan heat pumps
- Integrated stainless steel buffer for hydraulic separation
- Saves installation time
- Prevents installation faults
- 25 year manufacturing warranty on the 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 and 28mm flow setter supplied separately
- Primary pipework and components are all 28mm compression

| Model                                         | 150ECYLPPSLIMSS                                           | 180ECYLPPSLIMSS                      |
|-----------------------------------------------|-----------------------------------------------------------|--------------------------------------|
| Nominal capacity (litres)                     | 150                                                       | 180                                  |
| Overall cylinder dimensions H x W x D (mm)    | 1824 x 475 x 600                                          | 2040 x 475 x 600                     |
| Integrated buffer (litres)                    | 30                                                        |                                      |
| Weights (kg)                                  | Empty                                                     | 76                                   |
|                                               | Full                                                      | 256                                  |
|                                               | Packaged                                                  | 77                                   |
| Unvented expansion vessel                     | Nominal volume                                            | 12L                                  |
|                                               | Charge pressure                                           | 3.0 Bar                              |
|                                               | Mains inlet pressure regulator                            | 3.0 Bar                              |
| Control & relief valve pressure settings      | Expansion relief valve                                    | 6.0 Bar                              |
|                                               | T&P relief valve                                          | 7.0 Bar & 90°C                       |
|                                               | DHW control stat                                          | Ecodan FTC controller (not supplied) |
| Control & overheat safety thermostat settings | High limit stat                                           | Mechanical 90°C                      |
|                                               | Voltage                                                   | 230 - 240 V                          |
|                                               | Electronic immersion                                      | Ecodan FTC controller (not supplied) |
| 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 (m <sup>2</sup> )        | 2.29                                                      |                                      |
| Secondary return                              | No                                                        |                                      |
| 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                    | Ecodan FTC controller / 3rd party controls (not supplied) |                                      |
| Hot water controller                          | Ecodan FTC controller (not supplied)                      |                                      |
| Magnetic filter                               | 28mm magnetic filter                                      |                                      |
| Flow setter valve                             | 28mm inline flow setter (supplied separately)             |                                      |
| Primary pressure drop of cylinder pipework    | 16kPa @ 17 litres per minute                              |                                      |
| Re-heat time                                  | 35 - 45 minutes                                           |                                      |
| Standing heat loss (W)                        | 69.17                                                     | 74.58                                |
| ErP rating                                    | C                                                         |                                      |
| ODP of insulation                             | 0                                                         |                                      |
| GWP of insulation                             | Less than 5                                               |                                      |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request


**MADE IN**  
MANCHESTER

# V-Cyl Pre-Plumbed Heat Pump Cylinder

150L-300L


**WORLD HEAT**  
CYLINDERS


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 LG air source heat pump systems.

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 LG heat pumps (heat pump not included)
- Integrated stainless steel buffer
- Saves installation time
- Prevents installation faults
- 25 year manufacturing warranty on the 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 and 28mm flow setter supplied separately
- Primary pipework and components are all 28mm compression

| Model                                         | 150VCYLPPSS                                             | 180VCYLPPSS      | 210VCYLPPSS      | 250VCYLPPSS                     | 300VCYLPPSS      |
|-----------------------------------------------|---------------------------------------------------------|------------------|------------------|---------------------------------|------------------|
| Nominal capacity (litres)                     | 150                                                     | 180              | 210              | 250                             | 300              |
| Overall cylinder dimensions H x W x D (mm)    | 1424 x 550 x 700                                        | 1550 x 550 x 700 | 1738 x 550 x 700 | 1988 x 550 x 700                | 1994 x 600 x 750 |
| Integrated buffer (litres)                    |                                                         |                  | 50               |                                 |                  |
| Weights (kg)                                  | Empty                                                   | 76               | 80               | 86                              | 102              |
|                                               | Full                                                    | 276              | 310              | 346                             | 392              |
|                                               | Packaged                                                | 77               | 81               | 86                              | 92               |
| Unvented expansion vessel                     | Nominal volume                                          | 12L              | 19L              | 19L                             | 24L              |
|                                               | Charge pressure                                         |                  |                  | 3.0 Bar                         |                  |
|                                               | Mains inlet pressure regulator                          |                  |                  | 3.0 Bar                         |                  |
| Control & relief valve pressure settings      | Expansion relief valve                                  |                  |                  | 6.0 Bar                         |                  |
|                                               | T&P relief valve                                        |                  |                  | 7.0 Bar & 90°C                  |                  |
|                                               | DHW control stat                                        |                  |                  | LG RS3 controller               |                  |
| Control & overheat safety thermostat settings | High limit stat                                         |                  |                  | Mechanical 90°C                 |                  |
|                                               | Voltage                                                 |                  |                  | 230 - 240 V                     |                  |
|                                               | Electronic immersion                                    |                  |                  | LG RS3 controller & LG tank kit |                  |
| 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 (m²)                     | 2.29                                                    | 2.29             | 3.31             | 3.31                            | 3.31             |
| Secondary return                              | No                                                      | No               | Yes              | Yes                             | Yes              |
| 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                          | LG RS3 controller                                       |                  |                  |                                 |                  |
| Magnetic filter                               | 28mm magnetic filter                                    |                  |                  |                                 |                  |
| Flow setter valve                             | 28mm inline flow setter (supplied separately)           |                  |                  |                                 |                  |
| Primary pressure drop of cylinder pipework    | 16kPa @ 17 litres per minute                            |                  |                  |                                 |                  |
| Re-heat time                                  | 35 - 45 minutes                                         |                  |                  |                                 |                  |
| Standing heat loss (W)                        | 64.58                                                   | 71.25            | 78.75            | 87.5                            | 92.5             |
| ErP rating                                    | C                                                       |                  |                  |                                 |                  |
| ODP of insulation                             | 0                                                       |                  |                  |                                 |                  |
| GWP of insulation                             | Less than 5                                             |                  |                  |                                 |                  |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request


**MADE IN**  
MANCHESTER

# U-Cyl Pre-Plumbed Heat Pump Cylinder

150L-300L


**WORLD HEAT**  
CYLINDERS


**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 for connection to all air source heat pump systems (tank kit not included).

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

- Universal: pre-plumbed for numerous heat pumps
- Integrated stainless steel buffer
- Saves installation time
- Prevents installation faults
- 25 year manufacturing warranty on the 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 and 28mm flow setter supplied separately
- Primary pipework and components are all 28mm compression

| Model                                         | 150UCYLPPSS                                             | 180UCYLPPSS      | 210UCYLPPSS      | 250UCYLPPSS                            | 300UCYLPPSS      |
|-----------------------------------------------|---------------------------------------------------------|------------------|------------------|----------------------------------------|------------------|
| Nominal capacity (litres)                     | 150                                                     | 180              | 210              | 250                                    | 300              |
| Overall cylinder dimensions H x W x D (mm)    | 1424 x 550 x 700                                        | 1550 x 550 x 700 | 1738 x 550 x 700 | 1988 x 550 x 700                       | 1994 x 600 x 750 |
| Integrated buffer (litres)                    |                                                         |                  | 50               |                                        |                  |
| Weights (kg)                                  | Empty                                                   | 76               | 80               | 86                                     | 92               |
|                                               | Full                                                    | 276              | 310              | 346                                    | 392              |
|                                               | Packaged                                                | 77               | 81               | 86                                     | 92               |
| Unvented expansion vessel                     | Nominal volume                                          | 12L              | 19L              | 19L                                    | 19L              |
|                                               | Charge pressure                                         |                  |                  | 3.0 Bar                                |                  |
|                                               | Mains inlet pressure regulator                          |                  |                  | 3.0 Bar                                |                  |
| Control & relief valve pressure settings      | Expansion relief valve                                  |                  |                  | 6.0 Bar                                |                  |
|                                               | T&P relief valve                                        |                  |                  | 7.0 Bar & 90°C                         |                  |
|                                               | DHW control stat                                        |                  |                  | Heat pump controls                     |                  |
| Control & overheat safety thermostat settings | High limit stat                                         |                  |                  | Mechanical 90°C                        |                  |
|                                               | Voltage                                                 |                  |                  | 230 - 240 V                            |                  |
|                                               | Electronic immersion                                    |                  |                  | Heat pump controls / third party timer |                  |
| 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 (m²)                     | 2.29                                                    | 2.29             | 3.31             | 3.31                                   | 3.31             |
| Secondary return                              | No                                                      | No               | Yes              | Yes                                    | Yes              |
| 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                          | Heat pump controls                                      |                  |                  |                                        |                  |
| Magnetic filter                               | 28mm magnetic filter                                    |                  |                  |                                        |                  |
| Flow setter valve                             | 28mm inline flow setter (supplied separately)           |                  |                  |                                        |                  |
| Primary pressure drop of cylinder pipework    | 16kPa @ 17 litres per minute                            |                  |                  |                                        |                  |
| Re-heat time                                  | 35 - 45 minutes                                         |                  |                  |                                        |                  |
| Standing heat loss (W)                        | 64.58                                                   | 71.25            | 78.75            | 87.5                                   | 92.5             |
| ErP rating                                    | C                                                       |                  |                  |                                        |                  |
| ODP of insulation                             | 0                                                       |                  |                  |                                        |                  |
| GWP of insulation                             | Less than 5                                             |                  |                  |                                        |                  |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request


**MADE IN**  
MANCHESTER



# U-Cyl Plus Pre-Plumbed Heat Pump Cylinder

150L-300L



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 for connection to all air source heat pump systems, with the tank kit included.

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

- Universal: pre-plumbed for all heat pumps
- Integral pre-wired relay for a volt free heating signal, for heat pumps that need volt free switching
- Integral pre-wired relay for 13 Amp switching of immersion heaters for legionella protection, where the heat pump can't switch 13 Amps
- Integrated stainless steel buffer
- Saves installation time
- Prevents installation faults
- 25 year manufacturing warranty on the 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 and 28mm flow setter supplied separately
- Primary pipework and components are all 28mm compression

| Model                                         | 150<br>UCYLSSPLUS                                       | 180<br>UCYLSSPLUS | 210<br>UCYLSSPLUS                      | 250<br>UCYLSSPLUS | 300<br>UCYLSSPLUS |
|-----------------------------------------------|---------------------------------------------------------|-------------------|----------------------------------------|-------------------|-------------------|
| Nominal capacity (litres)                     | 150                                                     | 180               | 210                                    | 250               | 300               |
| Overall cylinder dimensions H x W x D (mm)    | 1424 x 550 x 700                                        | 1550 x 550 x 700  | 1738 x 550 x 700                       | 1988 x 550 x 700  | 1994 x 600 x 750  |
| Integrated buffer (litres)                    |                                                         |                   | 50                                     |                   |                   |
| Weights (kg)                                  | Empty                                                   | 78                | 82                                     | 88                | 94                |
|                                               | Full                                                    | 278               | 312                                    | 348               | 394               |
| Unvented expansion vessel                     | Packaged                                                | 77                | 81                                     | 86                | 92                |
|                                               | Nominal volume                                          | 12L               | 19L                                    | 19L               | 24L               |
| Control & relief valve pressure settings      | Charge pressure                                         |                   | 3.0 Bar                                |                   |                   |
|                                               | Mains inlet pressure regulator                          |                   | 3.0 Bar                                |                   |                   |
|                                               | Expansion relief valve                                  |                   | 6.0 Bar                                |                   |                   |
|                                               | T&P relief valve                                        |                   | 7.0 Bar & 90°C                         |                   |                   |
| Control & overheat safety thermostat settings | DHW control stat                                        |                   | Heat pump controls                     |                   |                   |
|                                               | High limit stat                                         |                   | Mechanical 90°C                        |                   |                   |
|                                               | Voltage                                                 |                   | 230 - 240 V                            |                   |                   |
|                                               | Electronic immersion                                    |                   | Heat pump controls / third party timer |                   |                   |
| 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 (m <sup>2</sup> )        | 2.29                                                    | 2.29              | 3.31                                   | 3.31              | 3.31              |
| Secondary return                              | No                                                      | No                | Yes                                    | Yes               | Yes               |
| 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                          | Heat pump controls                                      |                   |                                        |                   |                   |
| Magnetic filter                               | 28mm magnetic filter                                    |                   |                                        |                   |                   |
| Flow setter valve                             | 28mm inline flow setter (supplied separately)           |                   |                                        |                   |                   |
| Primary pressure drop of cylinder pipework    | 16kPa @ 17 litres per minute                            |                   |                                        |                   |                   |
| Re-heat time                                  | 35 - 45 minutes                                         |                   |                                        |                   |                   |
| Standing heat loss (W)                        | 64.58                                                   | 71.25             | 78.75                                  | 87.5              | 92.5              |
| ErP rating                                    | C                                                       |                   |                                        |                   |                   |
| ODP of insulation                             | 0                                                       |                   |                                        |                   |                   |
| GWP of insulation                             | Less than 5                                             |                   |                                        |                   |                   |

\* Solar twin coil units available on request

\*\* Bespoke cylinders available on request


**MADE IN**  
MANCHESTER

PRODUCT FAMILY

# 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.

IN THIS SECTION

- 42 EcoTherm Direct Self Fill thermal store
- 43 EcoTherm Slimline Direct Self Fill thermal store

See the range online →

# EcoTherm Direct Self Fill Thermal Stores

150L–210L


**WORLD HEAT**  
CYLINDERS


**High quality British manufactured stainless steel thermal stores designed for any application.**

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

All of our vessels are manufactured under an ISO9001 certified quality management system in our purpose made manufacturing facility in Manchester.

### Key features

- High quality stainless steel
- 5 year manufacturing warranty
- Highly insulated, Part L compliant
- Full pre-plumbed system kits provided
- ISO9001 certified quality management

## EcoTherm Standard Direct self fill thermal store

| Model                              | 150FISCHSTDSS                                       | 180FISCHSTDSS | 210FISCHSTDSS |
|------------------------------------|-----------------------------------------------------|---------------|---------------|
| Nominal capacity (litres)          | 150                                                 | 180           | 210           |
| Height (mm)                        | 1440                                                | 1589          | 1740          |
| Diameter (mm)                      | 550                                                 |               |               |
| Packaged dimensions H x W x D (mm) | 1540 x 600                                          | 1689 x 600    | 1840 x 600    |
| Approximate weight (kg)            | Empty                                               | 30            | 35            |
|                                    | Full                                                | 180           | 215           |
|                                    | Packaged                                            | 35            | 40            |
| Vessel material                    | Stainless steel                                     |               |               |
| Insulation type                    | Polyurethane (PU) insulation with CO2 blowing agent |               |               |
| ODP of insulation                  | 0                                                   |               |               |
| GWP of insulation                  | Less than 5                                         |               |               |

\* Bespoke vessels available on request

\*\* All pictures shown are for illustration purposes only



# EcoTherm Slimline Direct Self Fill Thermal Stores

150L-180L



High quality British manufactured stainless steel thermal stores designed for any application.

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

All of our vessels are manufactured under an ISO9001 certified quality management system in our purpose made manufacturing facility in Manchester.

### Key features

- High quality stainless steel
- 5 year manufacturing warranty
- Highly insulated, Part L compliant
- Full pre-plumbed system kits provided
- ISO9001 certified quality management

## EcoTherm Slim Direct self fill thermal store (slim)

| Model                              | 150FISCHSLIMSS                                      | 180FISCHSLIMSS |
|------------------------------------|-----------------------------------------------------|----------------|
| Nominal capacity (litres)          | 150                                                 | 180            |
| Height (mm)                        | 1530                                                | 1840           |
| Diameter (mm)                      | 470                                                 |                |
| Packaged dimensions H x W x D (mm) | 1630 x 520                                          | 1940 x 520     |
| Approximate weight (kg)            | Empty                                               | 30             |
|                                    | Full                                                | 180            |
|                                    | Packaged                                            | 35             |
| Vessel material                    | Stainless steel                                     |                |
| Insulation type                    | Polyurethane (PU) insulation with CO2 blowing agent |                |
| ODP of insulation                  | 0                                                   |                |
| GWP of insulation                  | Less than 5                                         |                |

\* Bespoke vessels available on request

\*\* All pictures shown are for illustration purposes only



PRODUCT FAMILY

# Vented cylinders

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

IN THIS SECTION

45 Stainless Vented Cylinders

46 Cased Vented Cylinders

[See the range online →](#)

## 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

## 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.

[See it on our website →](#)[Request a quote](#)

## VENTED CYLINDERS

# Cased Vented Cylinders

Vented cylinders in a white gloss case with high-density injected foam insulation, for a neat, efficient gravity-fed installation.

## Key features

- ✓ For open-vented, gravity-fed systems
- ✓ White gloss cased finish
- ✓ High-density PU injection insulation
- ✓ Steel or stainless steel inner vessel

## Sizes and specifications

Sizes and connections are confirmed per order. Tell us the capacity, material and space available and we'll come back with a drawing and price.

[See it on our website →](#)[Request a quote](#)

PRODUCT FAMILY

# Buffer vessels and commercial

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.

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- 55 **Plate Heat Exchangers**

[See the range online →](#)

# SSBUFF Standard Stainless Steel Buffer Vessels

50L–300L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured, super insulated stainless steel buffer vessels designed for any application.

World Heat Cylinders manufacture a range of high quality stainless steel buffer vessels for any application.

All of our vessels are manufactured under an ISO9001 certified quality management system in our purpose made manufacturing facility in Manchester.

## Key features

- High quality stainless steel
- Highly efficient injection foam insulation
- Standard range capacity 50L to 300L
- ISO9001 certified quality management
- Fitted with a 3kW immersion heater
- Bespoke fast turnaround vessels available
- Primary expansion vessels available
- Capacity available up to 10,000L

## SSBUFF Standard Buffer Vessels Standard buffer vessels

| Model                       | 50<br>SSBUFF                                        | 100<br>SSBUFF | 150<br>SSBUFF | 180<br>SSBUFF | 210<br>SSBUFF | 250<br>SSBUFF | 300<br>SSBUFF |
|-----------------------------|-----------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Nominal capacity (litres)   | 50                                                  | 100           | 150           | 180           | 210           | 250           | 300           |
| Height (mm)                 | 510                                                 | 750           | 1200          | 1335          | 1575          | 1750          | 2110          |
| Diameter (mm)               | 550                                                 |               |               |               |               |               |               |
| Approximate weight (kg)     | Empty                                               | 30            | 35            | 40            | 45            | 50            | 55            |
|                             | Full                                                | 80            | 165           | 190           | 225           | 260           | 305           |
|                             | Packaged                                            | 55            | 60            | 65            | 70            | 75            | 80            |
| 28mm compression fittings   | 5                                                   |               |               |               |               |               |               |
| ½" female stat pockets      | 1                                                   | 2             | 3             | 3             | 3             | 3             | 3             |
| ½" female drain             | No                                                  | Yes           | Yes           | Yes           | Yes           | Yes           | Yes           |
| 3kW immersion heater fitted | Yes                                                 |               |               |               |               |               |               |
| Immersion heater            | 3kW                                                 |               |               |               |               |               |               |
| Maximum working pressure    | 6 Bar G (hydraulically tested to 10.05 Bar G)       |               |               |               |               |               |               |
| Vessel material             | 316 stainless steel                                 |               |               |               |               |               |               |
| Insulation type             | Polyurethane (PU) insulation with CO2 blowing agent |               |               |               |               |               |               |
| Standing heat loss (W)      | 48.6                                                | 54.6          | 60.2          | 64.3          | 75.2          | 86.4          | 94.2          |
| ErP fiche volume (litres)   | 52                                                  | 104           | 151           | 178           | 213           | 246           | 296           |
| ErP energy efficiency class | C                                                   |               |               |               |               |               |               |
| ODP of insulation           | 0                                                   |               |               |               |               |               |               |
| GWP of insulation           | Less than 5                                         |               |               |               |               |               |               |

\* 100mm insulation available on request

\*\* Alternative volumes and bespoke buffer vessels available on request



# Wall Mounted Buffer Vessels

25L–50L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured, highly insulated vessels for heat pump and boiler systems, designed for any application.

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

All of our vessels are manufactured under an ISO9001 certified quality management system in our purpose made manufacturing facility in Manchester.

## Key features

- Wall mounted buffer vessels
- 25L and 50L versions available
- High quality duplex stainless steel
- Highly insulated with injection polyurethane insulation
- BSI audited ISO9001 certified quality management
- Primary pipework connections 28mm compression

## Wall mounted buffer vessels

| Model                              | WALLMOUNTEDBUFFER25                                 | WALLMOUNTEDBUFFER50 |
|------------------------------------|-----------------------------------------------------|---------------------|
| Nominal capacity (litres)          | 25                                                  | 50                  |
| Overall dimensions H x W x D (mm)  | 850 x 270 x 270                                     | 800 x 350 x 350     |
| Packaged dimensions H x W x D (mm) | 950 x 400 x 400                                     | 900 x 500 x 400     |
| Approximate weight (kg)            | Empty                                               | 14                  |
|                                    | Full                                                | 60                  |
|                                    | Packaged                                            | 15                  |
| Connections                        | 28mm compression                                    |                     |
| Maximum working pressure           | 6 Bar G                                             |                     |
| Maximum flow rate                  | 60 litres per minute                                |                     |
| Vessel material                    | Duplex stainless steel                              |                     |
| Insulation type                    | Polyurethane (PU) insulation with CO2 blowing agent |                     |
| Insulation thickness               | 35mm                                                |                     |
| Standing heat loss (W)             | 22                                                  | 44                  |
| ErP energy efficiency class        | A                                                   |                     |
| ODP of insulation                  | 0                                                   |                     |
| GWP of insulation                  | Less than 5                                         |                     |

\* Larger capacity volumisers and buffers up to 8,000 litres are available on request

\*\* All pictures shown are for illustration purposes only



# Inline Volumisers

25L–50L


**WORLD HEAT**  
CYLINDERS


High quality British manufactured, highly insulated vessels for heat pump and boiler systems, designed for any application.

World Heat Cylinders manufacture a full range of inline volumisers specifically for connection to heat pump systems.

All of our vessels are manufactured under an ISO9001 certified quality management system in our purpose made manufacturing facility in Manchester.

### Key features

- Inline heat pump volumisers
- 25L and 50L versions available
- High quality duplex stainless steel
- Highly insulated with injection polyurethane insulation
- BSI audited ISO9001 certified quality management
- Primary pipework connections 28mm compression

## Inline volumisers

| Model                              | UK.INLINE.25                                        | UK.INLINE.50    |
|------------------------------------|-----------------------------------------------------|-----------------|
| Nominal capacity (litres)          | 25                                                  | 50              |
| Overall dimensions H x W x D (mm)  | 850 x 270 x 270                                     | 800 x 350 x 350 |
| Packaged dimensions H x W x D (mm) | 950 x 400 x 400                                     | 900 x 500 x 400 |
| Approximate weight (kg)            | Empty                                               | 14              |
|                                    | Full                                                | 60              |
|                                    | Packaged                                            | 15              |
| Connections                        | 28mm compression                                    |                 |
| Maximum working pressure           | 6 Bar G                                             |                 |
| Maximum flow rate                  | 60 litres per minute                                |                 |
| Vessel material                    | Duplex stainless steel                              |                 |
| Insulation type                    | Polyurethane (PU) insulation with CO2 blowing agent |                 |
| Insulation thickness               | 35mm                                                |                 |
| Standing heat loss (W)             | 22                                                  | 44              |
| ErP energy efficiency class        | A                                                   |                 |
| ODP of insulation                  | 0                                                   |                 |
| GWP of insulation                  | Less than 5                                         |                 |

\* Larger capacity volumisers and buffers up to 8,000 litres are available on request

\*\* All pictures shown are for illustration purposes only



# Low Loss Headers

9L


**WORLD HEAT**  
CYLINDERS


## High quality British manufactured low loss headers with high efficiency injection foam insulation.

World Heat Cylinders manufacture a range of low loss headers in a white gloss case finish with high efficiency injection foam insulation.

All of our vessels are manufactured under an ISO9001 certified quality management system in our purpose made manufacturing facility in Manchester.

### Key features

- High quality mild steel
- 5 year manufacturing warranty
- White gloss powder coated finish
- Highly efficient injection foam insulation
- ISO9001 certified quality management

## Low Loss Header Standard low loss header

| Model                        |          | 1000X100MSLLH                    |
|------------------------------|----------|----------------------------------|
| Nominal capacity (litres)    |          | 9                                |
| Height (mm)                  |          | 1050                             |
| Approximate weight (kg)      | Empty    | 7                                |
|                              | Full     | 16                               |
|                              | Packaged | 10                               |
| Maximum duty                 |          | 180kW at 11°C ΔT; 45kW at 5°C ΔT |
| Connections                  |          | 8 x 1" female and 2 x ½" female  |
| Vessel material              |          | Mild steel                       |
| Insulation type              |          | Polyurethane (PU) insulation     |
| Insulation thickness         |          | 50mm                             |
| Standing heat loss (kWh/24h) |          | 0.23                             |
| ODP of insulation            |          | 0                                |
| GWP of insulation            |          | Less than 5                      |

\* Alternative sized low loss headers available on request

\*\* Optional connection kits available, including 8 x compression connectors, an automatic air vent and drain


**MADE IN**  
MANCHESTER

## BUFFER VESSELS AND COMMERCIAL

# 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.



## 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
- ✓ Bespoke sizes are our speciality

## Buffer vessels: standard datasheet sizes

| Size (L) | Height (mm) | Diameter (mm) | Standing heat loss (W) |
|----------|-------------|---------------|------------------------|
| 600      | 1642        | 850           | 136                    |
| 750      | 1981        | 850           | 142                    |
| 800      | 2100        | 850           | 158                    |
| 1000     | 1850        | 1000          | 184                    |
| 1500     | 1950        | 1200          | 201.25                 |
| 2000     | 2200        | 1300          | 229.58                 |
| 2500     | 2500        | 1300          | 273.3                  |
| 3000     | 2840        | 1300          | 312.5                  |
| 4000     | 2500        | 1600          | 371.25                 |
| 5000     | 2750        | 1700          | 432.5                  |
| 6000     | 2850        | 1700          | 604.16                 |
| 8000     | 2750        | 2100          | 867.08                 |

## Inline volumisers 10L and 20L

|                        | 10                   | 20                   |
|------------------------|----------------------|----------------------|
| Height (mm)            | 396                  | 696                  |
| Width (mm)             | 270                  | 270                  |
| Standing heat loss (W) | 18                   | 22                   |
| ErP class              | A                    | A                    |
| Max working pressure   | 6 Bar G              | 6 Bar G              |
| Max flow rate          | 60 litres per minute | 60 litres per minute |

## BUFFER VESSELS AND COMMERCIAL

# Buffer Vessels: specifications

## Inline volumisers 25L and 50L

|                        | 25                   | 50                   |
|------------------------|----------------------|----------------------|
| Height (mm)            | 850                  | 800                  |
| Width (mm)             | 270                  | 350                  |
| Standing heat loss (W) | 22                   | 44                   |
| ErP class              | A                    | A                    |
| Max working pressure   | 6 Bar G              | 6 Bar G              |
| Max flow rate          | 60 litres per minute | 60 litres per minute |

[See it on our website →](#)[Request a quote](#)

BUFFER VESSELS AND COMMERCIAL

# Storage Calorifiers/Cylinders

Bespoke storage calorifiers from 100 to 10,000 litres, vertical or horizontal, in stainless or galvanised mild steel — heated by LTHW, MTHW, HTHW or steam.



## Key features

- ✓ 100–10,000 L standard sizes
- ✓ Vertical or horizontal
- ✓ Stainless or galvanised mild steel
- ✓ LTHW, MTHW, HTHW or steam primary
- ✓ Built to BS 853

## Storage calorifier dimensions, 100L to 10,000L (vertical or horizontal)

| Size (L) | Height / length (mm) | Diameter (mm) |
|----------|----------------------|---------------|
| 440      | 1800                 | 600           |
| 550      | 1700                 | 675           |
| 700      | 1750                 | 750           |
| 800      | 1950                 | 750           |
| 900      | 2000                 | 800           |
| 1000     | 1950                 | 850           |
| 1200     | 2100                 | 900           |
| 1350     | 2350                 | 900           |
| 1500     | 1950                 | 1050          |
| 1800     | 2300                 | 1050          |
| 2000     | 2500                 | 1050          |
| 2300     | 2400                 | 1150          |
| 2500     | 2450                 | 1200          |
| 3000     | 2900                 | 1200          |
| 3500     | 2700                 | 1350          |
| 4000     | 3050                 | 1350          |
| 4500     | 3400                 | 1350          |
| 5000     | 3200                 | 1450          |
| 6000     | 3800                 | 1450          |
| 7000     | 3300                 | 1680          |
| 8000     | 3700                 | 1680          |
| 9000     | 4200                 | 1680          |
| 10000    | 4600                 | 1680          |

## Sizes and specifications

Every calorifier is built to order with a fully detailed drawing, so the sizes above are a guide. Send us the capacity, recovery and primary heat source and we'll size it.

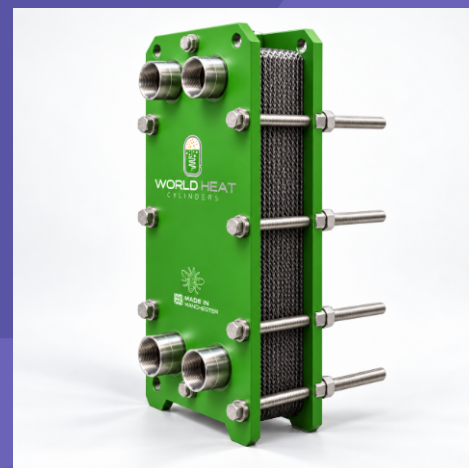
[See it on our website →](#)

[Request a quote](#)

## BUFFER VESSELS AND COMMERCIAL

# Plate Heat Exchangers

Gasketed and brazed plate heat exchangers, accessories and fully packaged PHE sets for DHW, LTHW, MTHW and steam duties.



## Key features

- ✓ Gasketed and brazed PHEs
- ✓ Compact footprint
- ✓ Packaged sets with pumps and controls
- ✓ Insulation jackets, splash guards, drip trays

## Sizes and specifications

Plate heat exchangers are selected for each duty. Send us both sides' fluids, temperatures, flow rates and allowable pressure drops and we'll select and quote.

[See it on our website →](#)[Request a quote](#)

BEFORE YOU INSTALL

# Technical notes

## Installation and G3

A safe and compliant installation of any unvented hot water cylinder depends on specific safety controls and unvented cylinder components. At World Heat Cylinders, we ensure all our domestic unvented cylinder ranges include high-quality, WRAS approved unvented kits. These kits are vital. Using correct, approved unvented cylinder components is not merely a recommendation. Indeed, it is a legal requirement for safety and compliance under UK G3 Building Regulations.

[Unvented cylinder components →](#)

## Regulations and standards

Compliance with the Pressure Equipment Directive (PED) 2014/68/EU is mandatory for relevant pressure equipment placed on the European market (and UKCA marking for Great Britain). World Heat Cylinders ensures that all applicable products we produce comply with the PED. World Heat Cylinders manufactures its calorifiers and storage cylinders to meet stringent industry standards. Where necessary, they comply with BS853 (Specification for vessels for use in heating systems).

[Building regulations →](#)

## Insulation and ErP

We offer a variety of high-performance insulation types and durable finishes tailored to different cylinder ranges and applications, from domestic hot water cylinders to large commercial calorifiers. Our solutions are designed to meet current building regulations, and the Energy-Related Products (ErP) requirements for cylinders up to 2,000 litres.

[Insulation →](#)

## Guarantee

25 year guarantee on stainless steel unvented cylinders up to 300 litres, subject to annual servicing. It applies to domestic cylinders from our standard range. Full terms:

<https://worldheat.co.uk/guarantee-terms/>

[Register your warranty →](#)



GET IN TOUCH

# Hot Water Cylinder and Calorifier Manufacturer

CALL

**0161 343 8610**

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**[sales@whcylinders.co.uk](mailto:sales@whcylinders.co.uk)**

ONLINE

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REQUEST A QUOTE

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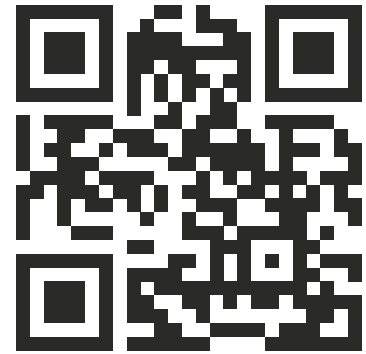
Tudor House / Unit 4, Tudor  
Industrial Estate  
Ashton Street  
Dukinfield  
Cheshire  
SK16 4RN

Commercial cylinders

SITE 2

World Heat 2  
Outram Road  
Dukinfield  
Manchester  
SK16 4XE

Domestic cylinders and customer  
collections



[worldheat.co.uk](http://worldheat.co.uk)

**ISO 9001**

BSI certified

**WRAS**

Approved cylinders

**G3**

Compliant, G3 kit  
supplied

**PED**

Declaration of  
Conformity held

**UKCA**

Marked

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