



HEAT PUMP



SOLAR PV

# Elite Cyl

The UK's Widest Range of Universal  
Heat Pump Cylinder Solutions



**UK CYLINDERS**

YOUR HOT WATER SPECIALISTS





# UK **Cylinders**

## Your Hot Water Specialists

Based in the UK, we are focused on service, availability, quality, performance and reliability. Utilising the vast experience of the team at **UK Cylinders** and our processes and procedures to deliver on these key objectives.

We are a market led company with many years' experience in manufacturing and product development, this ensures our products exceed our customers needs.

**UK Cylinders** hold strong values in terms of supporting customers requirements in an ever changing market.

OUR AIM IS TO PROVIDE THE BEST QUALITY AND VALUE HOT WATER STORAGE PRODUCTS AND TO CONSIDERABLY EXCEED OUR CUSTOMER EXPECTATIONS BY PROVIDING MARKET LEADING SERVICE LEVELS IN ALL AREAS OF OUR BUSINESS.

SERVICE | AVAILABILITY | QUALITY | PERFORMANCE | RELIABILITY

Your Hot Water Specialists | [www.ukcylinders.co.uk](http://www.ukcylinders.co.uk)



## Quality and Service

Customer service is at the forefront of the business philosophy at UK Cylinders which means the team know **THE CUSTOMER ALWAYS COMES FIRST.**

We will respond and reply same day to any requests.



## Availability and Stockists

We carry significant stock of a wide range of products in our warehouses, as well as stock on the ground with our merchant partners.

At UK Cylinders, we pride ourselves in working closely with our network of merchant stockists, supporting them providing hot water solutions to their customers.

Please contact us on **03330 329 650** or **sales@ukcylinders.co.uk** if you require details of your local stockist.

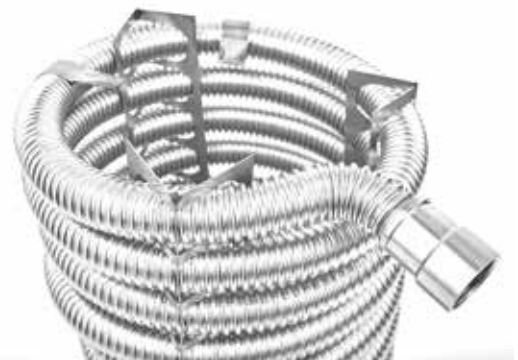


## Environmental - and a more sustainable future

Our environmental management system allows us to promote efficient manufacture of our products.

Key processes and procedures help us to move towards a more sustainable future and minimise any negative impact on the environment.

Specially designed heat pump coil



Please contact us on **03330 329 650** or **sales@ukcylinders.co.uk**



# Heat Pump Cylinders

All our Universal heat pump cylinders feature a unique high flow, high gain, full bore coil design which we manufacture in house, to provide superior performance.

The Elite Cyl is fitted and supplied with all the required components and controls (shown opposite) to provide seamless compatibility with your chosen heat pump.



## SPECIFICATION

- > Universally compatible with any heat pump
- > Supplied with a manufacturer's backed 25 year cylinder warranty and 2 years parts warranty.
- > Available in capacities from 120ltr - 600ltr.
- > Manufactured from high grade 1mm thick Duplex Stainless Steel.
- > Fully insulated with 50mm 100% CFC and HCFC free polyurethane to minimise heat loss.
- > High quality **100% recyclable** silver casing.
- > Supplied with high quality unvented components.
- > All plumbing connections are clearly identified with their description embossed into the cylinder case.
- > Supplied with 22mm hot and cold connections on 120ltr - 300ltr, 28mm hot and cold connections on 400ltr - 600ltr.
- > 12mm sensor probe pocket included for heat pump controls.
- > Market leading and highly efficient primary coil to ensure rapid exchange of heat from heat pump.
- > Long-life 3kW Incoloy immersion heater supplied as standard.
- > Immersion heater upgrades available upon request - i.e. Titanium or 6kW.
- > Supplied with all safety controls as required by UK Building Regulations.

# Efficiency

Market leading heat exchanger



The Elite Cyl heat pump cylinder is fitted with a market leading high efficiency heat exchanger (coil) with an enhanced surface area to ensure the rapid transfer of the low temperature inputs of ground & air source heat pumps.

The Elite Cyl heat pump range comes complete with all the fittings you will need for a complete trouble free installation. All the items provided in the unvented kit, ensure your installation meets Part G of the Building Regulations.



## ACCESSORIES SUPPLIED WITH STANDARD HEAT PUMP CYLINDERS (for pre plumbed see specific content pages)



COLD WATER  
INLET SET



TWO PORT ZONE VALVE  
28MM



HIGH LIMIT STAT



TUNDISH



3KW IMMERSION HEATER



T&P RELIEF VALVE



T&P COVER



EXPANSION VESSEL  
AND BRACKET





## Heat Pump Pre Plumbed

- > Universally compatible with any heat pump.
- > 3 port full bore, 28mm compression DHW & CH diverter valve.
- > 4 bar pressure gauge.
- > Fill & flush valve with servicing ports. Useful to fill and flush the system with cleaning chemicals or water treatment.
- > Optional 8m circulating pump for primary circuit.
- > G3 compliant cold feed pipework, inc. tundish, drain point, filling loop and 3 bar inlet control set.
- > Our 28mm full bore, high gain, high flow coil reduces noise and improves recovery times.
- > A T&P insulation cover and potable expansion vessel is also supplied.
- > Factory fitted immersion heater, for emergency backup this can be linked to a heat pump for an anti legionella cycle where required.
- > 12mm sensor probe pocket.



**Slimline Pre Plumbed also available**  
see page 8



| Description | Product Code with circulating pump | Product Code no circulating pump | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|-------------|------------------------------------|----------------------------------|----------------------|-------------|------------------|-------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|             |                                    |                                  |                      |             |                  |             |               |   | kWh/24h            | WATTS |                                       |          |
| 150L        | ESHPP2150                          | ESHPP2150X                       | 150                  | 58          | 208              | 1130        | 545           | 2.08  | 1.22               | 44    | X                                     | B        |
| 180L        | ESHPP2180                          | ESHPP2180X                       | 180                  | 63          | 230              | 1314        | 545           | 2.44  | 1.47               | 61    | X                                     | C        |
| 200L        | ESHPP3200                          | ESHPP3200X                       | 200                  | 72          | 267              | 1444        | 545           | 2.97  | 1.55               | 65    | ✓                                     | C        |
| 250L        | ESHPP3250                          | ESHPP3250X                       | 250                  | 75          | 319              | 1752        | 545           | 2.97  | 1.85               | 77    | ✓                                     | C        |
| 300L        | ESHPP3300                          | ESHPP3300X                       | 300                  | 80          | 360              | 1975        | 545           | 2.97  | 2.13               | 89    | ✓                                     | C        |
| 400L        | ESHPP4400                          | ESHPP4400X                       | 400                  | 78          | 477              | 1640        | 690           | 4   | 2.20               | 92    | ✓                                     | C        |
| 500L        | ESHPP4500                          | ESHPP4500X                       | 500                  | 94          | 591              | 1995        | 690           | 4   | 2.42               | 101   | ✓                                     | C        |
| 600L        | ESHPP4600                          | ESHPP4600X                       | 600                  | 105         | 674              | 2190        | 690           | 4   | 2.68               | 112   | ✓                                     | C        |

## Heat Pump Cylinder

- > Universally compatible with any heat pump.
- > Available from 120ltr up to 600ltr.
- > Universal large coil surface area as standard.
- > 28mm compression fittings as primary connections to the coil.
- > Provides a high flow rate capability and low pressure loss.
- > 12mm sensor probe pocket.



| Description | Product Code | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|-------------|--------------|----------------------|-------------|------------------|-------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|             |              |                      |             |                  |             |               |   | kWh/24h            | WATTS |                                       |          |
| 120L        | ESHDP3120    | 120                  | 27          | 145              | 945         | 545           | 1.61  | 1.06               | 42    | X                                     | B        |
| 150L        | ESHDP3150    | 150                  | 31          | 181              | 1130        | 545           | 2.08  | 1.22               | 61    | X                                     | B        |
| 180L        | ESHDP3180    | 180                  | 35          | 202              | 1314        | 545           | 2.44  | 1.47               | 65    | X                                     | C        |
| 200L        | ESHDP3200    | 200                  | 40          | 235              | 1444        | 545           | 2.97  | 1.55               | 77    | ✓                                     | C        |
| 250L        | ESHDP3250    | 250                  | 45          | 289              | 1752        | 545           | 2.97  | 1.85               | 89    | ✓                                     | C        |
| 300L        | ESHDP3300    | 300                  | 50          | 330              | 1975        | 545           | 2.97  | 2.13               | 94    | ✓                                     | C        |
| 400L        | ESHDP4400    | 400                  | 78          | 455              | 1640        | 690           | 4   | 2.20               | 92    | ✓                                     | C        |
| 500L        | ESHDP4500    | 500                  | 94          | 556              | 1995        | 690           | 4   | 2.42               | 101   | ✓                                     | C        |
| 600L        | ESHDP4600    | 600                  | 105         | 637              | 2190        | 690           | 4   | 2.68               | 112   | ✓                                     | C        |



## Heat Pump Slimline Pre Plumbed

- > Universally compatible with any heat pump.
- > Slimline 475mm diameter for smaller cupboard spaces.
- > 3 port full bore, 28mm compression DHW & CH diverter valve.
- > 4 bar pressure gauge.
- > Fill & flush valve with servicing ports. Useful to fill and flush the system with cleaning chemicals or water treatment.
- > Optional 8m circulating pump for primary circuit.
- > G3 compliant cold feed pipework, inc. tundish, drain point, filling loop and 3 bar inlet control set.
- > Our 22mm full bore, high gain, high flow coil reduces noise and improves recovery times.
- > A T&P insulation cover and potable expansion vessel is also supplied.
- > Factory fitted immersion heater, for emergency backup this can be linked to a heat pump for an anti legionella cycle where required.



| Description | Product Code with circulating pump | Product Code no circulating pump | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|-------------|------------------------------------|----------------------------------|----------------------|-------------|------------------|-------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|             |                                    |                                  |                      |             |                  |             |               |   | kWh/ 24h           | WATTS |                                       |          |
| 120L        | ESHPPN2120                         | ESHPPN2120X                      | 120                  | 33          | 158              | 1270        | 475           | 1.61  | 1.25               | 52    | ✗                                     | B        |
| 150L        | ESHPPN2150                         | ESHPPN2150X                      | 150                  | 39          | 194              | 1535        | 475           | 1.61  | 1.42               | 59    | ✗                                     | B        |
| 170L        | ESHPPN2170                         | ESHPPN2170X                      | 170                  | 45          | 215              | 1710        | 475           | 2.08  | 1.70               | 71    | ✗                                     | C        |
| 200L        | ESHPPN2200                         | ESHPPN2200X                      | 200                  | 48          | 248              | 1980        | 475           | 2.08  | 1.80               | 75    | ✓                                     | C        |



## Heat Pump Slimline

- > Universally compatible with any heat pump.
- > Slimline 475mm diameter for smaller cupboard spaces.
- > Capacities from 120ltr - 200ltr.
- > Only 475mm wide.
- > 22mm compression fittings as primary connections to the coil.
- > 12mm sensor probe pocket.



ELITE SLIMLINE HEAT PUMP

| Description | Product Code | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|-------------|--------------|----------------------|-------------|------------------|-------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|             |              |                      |             |                  |             |               |   | kWh/ 24h           | WATTS |                                       |          |
| 120L        | ESHPS3120    | 120                  | 32          | 151              | 1270        | 475           | 1.61  | 1.25               | 52    | ✗                                     | B        |
| 150L        | ESHPS3150    | 150                  | 34          | 184              | 1535        | 475           | 1.61  | 1.42               | 59    | ✗                                     | B        |
| 170L        | ESHPS3170    | 170                  | 37          | 207              | 1710        | 475           | 2.08  | 1.70               | 71    | ✗                                     | C        |
| 200L        | ESHPS3200    | 200                  | 41          | 241              | 1980        | 475           | 2.08  | 1.80               | 75    | ✓                                     | C        |



## Heat Pump and Buffer Combined Pre Plumbed Options

- > 3 port full bore, 28mm compression DHW & CH diverter valve.
- > 4 bar pressure gauge.
- > Fill & flush valve with servicing ports. Useful to fill and flush the system with cleaning chemicals or water treatment.
- > 6m Circulating pump supplied fitted for heating circuit.
- > G3 compliant cold feed pipework, inc. tundish, drain point, filling loop and 3 bar inlet control set.
- > Our 28mm full bore, high gain, high flow coil reduces noise and improves recovery times.
- > **Optional 8m circulating pump for primary circuit.**
- > Robokit / T&P insulation cover and potable expansion vessel is also supplied.
- > Factory fitted immersion heater, for emergency backup this can be linked to a heat pump for an anti legionella cycle where required.
- > 12mm heat pump sensor probe pocket.
- > Buffer provides hydraulic separation and minimum system volume.
- > Additional immersion, in buffer; can act as optional back up heater.



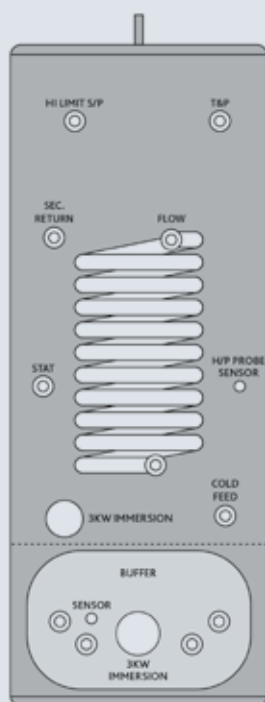
Supplied complete with 12ltr Robokit including heating expansion vessel (loose).



| Description                    | Product Code with 2 Circulating Pumps | Product Code with 1 Circulating Pump | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|--------------------------------|---------------------------------------|--------------------------------------|----------------------|-------------|------------------|-------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|                                |                                       |                                      |                      |             |                  |             |               |   | kWh/24h            | WATTS |                                       |          |
| <b>Slimline Diameter Model</b> |                                       |                                      |                      |             |                  |             |               |   |                    |       |                                       |          |
| 120L/30L                       | ESNPPB3012                            | ESNPPB3012X                          | 120                  | 52          | 196              | 1645        | 475           | 1.61  | 1.25               | 52    | X                                     | B        |
| 150L/30L                       | ESNPPB3015                            | ESNPPB3015X                          | 150                  | 55          | 229              | 1915        | 475           | 1.61  | 1.42               | 59    | X                                     | B        |
| 170L/30L                       | ESNPPB5017                            | ESNPPB5017X                          | 170                  | 58          | 270              | 2095        | 475           | 2.08  | 1.63               | 68    | X                                     | C        |
| <b>Standard Diameter Model</b> |                                       |                                      |                      |             |                  |             |               |   |                    |       |                                       |          |
| 150L/50L                       | ESPPB5015                             | ESPPB5015X                           | 150                  | 56          | 259              | 1540        | 545           | 2.08  | 1.22               | 44    | X                                     | B        |
| 180L/50L                       | ESPPB5018                             | ESPPB5018X                           | 180                  | 61          | 284              | 1675        | 545           | 2.44  | 1.47               | 68    | X                                     | C        |
| 200L/50L                       | ESPPB5020                             | ESPPB5020X                           | 200                  | 65          | 310              | 1850        | 545           | 2.97  | 1.55               | 71    | ✓                                     | C        |
| 225L/50L                       | ESPPB5022                             | ESPPB5022X                           | 225                  | 69          | 344              | 2011        | 545           | 2.97  | 1.70               | 83    | ✓                                     | C        |
| 250L/60L                       | ESPPB6025                             | ESPPB6025X                           | 250                  | 77          | 385              | 1919        | 580           | 2.97  | 1.85               | 75    | ✓                                     | C        |
| 300L/60L                       | ESPPB6030                             | ESPPB6030X                           | 300                  | 82          | 427              | 2076        | 580           | 2.97  | 2.13               | 86    | ✓                                     | C        |

## Heat Pump and Buffer Combined

- > Using a buffer tank is often described by heat pump manufacturers as “the ideal installation” providing optimum performance.
- > One neat solution providing a heat pump cylinder and buffer in the same footprint, saving both time and space.
- > Buffer provides hydraulic separation.
- > Our built in buffer features 1” female connections as standard.
- > 12mm sensor probe pockets provided in both the buffer and heat pump cylinder.
- > The buffer features an additional immersion heater that can be used as a back up heater, dependant on heatpump configuration.



Available in both slimline and standard diameter options, see below.

| Description                    | Product Code | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|--------------------------------|--------------|----------------------|-------------|------------------|-------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|                                |              |                      |             |                  |             |               |   | kWh/ 24h           | WATTS |                                       |          |
| <b>Slimline Diameter Model</b> |              |                      |             |                  |             |               |   |                    |       |                                       |          |
| 120/30L                        | ESNHPB3012   | 120                  | 42          | 186              | 1645        | 475           | 1.61  | 1.25               | 52    | ✗                                     | B        |
| 150/30L                        | ESNHPB3015   | 150                  | 45          | 219              | 1915        | 475           | 1.61  | 1.42               | 59    | ✗                                     | B        |
| 170/30L                        | ESNHPB3017   | 170                  | 48          | 260              | 2095        | 475           | 1.61  | 1.63               | 68    | ✗                                     | C        |
| <b>Standard Diameter Model</b> |              |                      |             |                  |             |               |   |                    |       |                                       |          |
| 150/50L                        | ESHBPB5015   | 150                  | 46          | 249              | 1540        | 545           | 2.08  | 1.22               | 44    | ✗                                     | B        |
| 180/50L                        | ESHBPB5018   | 180                  | 51          | 274              | 1675        | 545           | 2.44  | 1.47               | 68    | ✗                                     | C        |
| 200/50L                        | ESHBPB5020   | 200                  | 55          | 300              | 1850        | 545           | 2.97  | 1.55               | 71    | ✓                                     | C        |
| 225/50L                        | ESHBPB5022   | 225                  | 59          | 334              | 2011        | 545           | 2.97  | 1.70               | 83    | ✓                                     | C        |
| 250L/60L                       | ESHBPB6025   | 250                  | 67          | 375              | 1919        | 580           | 2.97  | 1.85               | 75    | ✓                                     | C        |
| 300L/60L                       | ESHBPB6030   | 300                  | 72          | 417              | 2076        | 580           | 2.97  | 2.13               | 86    | ✓                                     | C        |



## ELITE SG Heat Pump

The Elite SG features our well-known heat pump cylinder & Samsung MIM as one neat package

- > Specially designed pipework ensures a compact overall footprint
- > Options available in both Slimline (475mm) & Standard (545mm) diameter\*
- > Samsung MIM and user interface factory fitted & mounted neatly to cylinder chassis
- > Standard field settings optimised; function tested & prepared in our factory
- > 9m PWM circulating pump fitted to primary flow as standard
- > 3 port diverter valve included, fitted and wired.
- > Integrated flow switch ensures smooth operation
- > High limit stat wired & fitted to aid full compliance



The Samsung MIM-EO3EN is compatible with the Samsung HTQ, Gen6 & the new R290 AE050-160CX<sup>YD</sup>\*K/EU non-integrated heat pumps.



| Description                    | Product Code with 2 Circulating Pumps | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|--------------------------------|---------------------------------------|----------------------|-------------|------------------|-------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|                                |                                       |                      |             |                  |             |               |   | kWh/24h            | WATTS |                                       |          |
| <b>Slimline Diameter Model</b> |                                       |                      |             |                  |             |               |   |                    |       |                                       |          |
| 150L                           | ESAMPN2150                            | 150                  | 32          | 158              | 1535        | 475           | 1.61  | 1.25               | 52    | X                                     | B        |
| 170L                           | ESAMPN2170                            | 170                  | 34          | 194              | 1710        | 475           | 1.61  | 1.42               | 59    | X                                     | B        |
| 200L                           | ESAMPN2200                            | 200                  | 47          | 215              | 1980        | 475           | 2.08  | 1.80               | 75    | X                                     | C        |
| <b>Standard Diameter Model</b> |                                       |                      |             |                  |             |               |   |                    |       |                                       |          |
| 150L                           | ESAMP2150                             | 150                  | 31          | 181              | 1130        | 545           | 2.08  | 1.22               | 44    | X                                     | B        |
| 180L                           | ESAMP2180                             | 180                  | 35          | 202              | 1314        | 545           | 2.44  | 1.47               | 68    | X                                     | C        |
| 200L                           | ESAMP3200                             | 200                  | 40          | 235              | 1444        | 545           | 2.97  | 1.55               | 71    | ✓                                     | C        |
| 250L                           | ESAMP3250                             | 250                  | 45          | 289              | 1752        | 545           | 2.97  | 1.70               | 83    | ✓                                     | C        |
| 300L                           | ESAMP3300                             | 300                  | 50          | 330              | 1975        | 545           | 2.97  | 2.13               | 94    | ✓                                     | C        |

\*Excludes pipework. Model shown: 200ltr SG.

## ELITE SG+ Heat Pump and Buffer Combined

A fully preplumbed & prewired unit designed specifically for Samsung Heat pumps

- > The Elite SG+ features combine our well-known heat pump cylinder with integrated buffer into one neat package with the Samsung MIM
- > Samsung MIM and user interface factory fitted & mounted neatly to cylinder casing
- > Standard field settings optimised; function tested & prepared in our factory
- > 9m PWM circulating pump fitted to primary flow as standard
- > 3 port diverter valve included, fitted and wired
- > Integrated flow switch ensures smooth operation
- > Specially designed pipework ensures a compact footprint
- > Options available in both Slimline (475mm) & Standard (545mm) diameter\*
- > High limit stat wired & fitted to aid full compliance
- > Buffer features a fully integrated back up heater & relay
- > Complete with 28mm heating pipework & 2 x 28mm zone valves fitted for twin zone heating
- > 6m circulating pump fitted for the space heating circuit



The Samsung MIM-EO3EN is compatible with the Samsung HTQ, Gen6 & the new R290 AE050-160CXYD\*K/EU non-integrated heat pumps.

Supplied complete with 12ltr Robokit including heating expansion vessel (loose).



\*Excludes pipework. Model shown: 180/30ltr slim SG+.

| Description                    | Product Code with 2 Circulating Pumps | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|--------------------------------|---------------------------------------|----------------------|-------------|------------------|-------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|                                |                                       |                      |             |                  |             |               |   | kWh/ 24h           | WATTS |                                       |          |
| <b>Slimline Diameter Model</b> |                                       |                      |             |                  |             |               |   |                    |       |                                       |          |
| 150L/30L                       | ESAMNPB3015                           | 150                  | 58          | 202              | 1915        | 475           | 1.61  | 1.42               | 52    | X                                     | B        |
| 170L/30L                       | ESAMNPB3017                           | 170                  | 61          | 235              | 2095        | 475           | 2.08  | 1.63               | 68    | X                                     | C        |
| <b>Standard Diameter Model</b> |                                       |                      |             |                  |             |               |   |                    |       |                                       |          |
| 150L/50L                       | ESAMB5015                             | 150                  | 62          | 265              | 1540        | 545           | 2.08  | 1.22               | 44    | X                                     | B        |
| 180L/50L                       | ESAMB5018                             | 180                  | 67          | 290              | 1675        | 545           | 2.44  | 1.47               | 68    | X                                     | C        |
| 200L/50L                       | ESAMB5020                             | 200                  | 71          | 316              | 1850        | 545           | 2.97  | 1.55               | 71    | ✓                                     | C        |
| 225L/50L                       | ESAMB5022                             | 225                  | 75          | 350              | 2011        | 545           | 2.97  | 1.70               | 83    | ✓                                     | C        |
| 250L/60L                       | ESAMB6025                             | 250                  | 83          | 391              | 1919        | 580           | 2.97  | 1.85               | 75    | ✓                                     | C        |
| 300L/60L                       | ESAMB6030                             | 300                  | 88          | 433              | 2076        | 580           | 2.97  | 2.13               | 86    | ✓                                     | C        |





# Solar PV Priority Cylinder

Free hot water from your PV array

Due to the growth in popularity of PV systems across the UK, UK Cylinders have developed a specifically designed 'PV priority' cylinder in both Direct, Indirect & Heat Pump models.

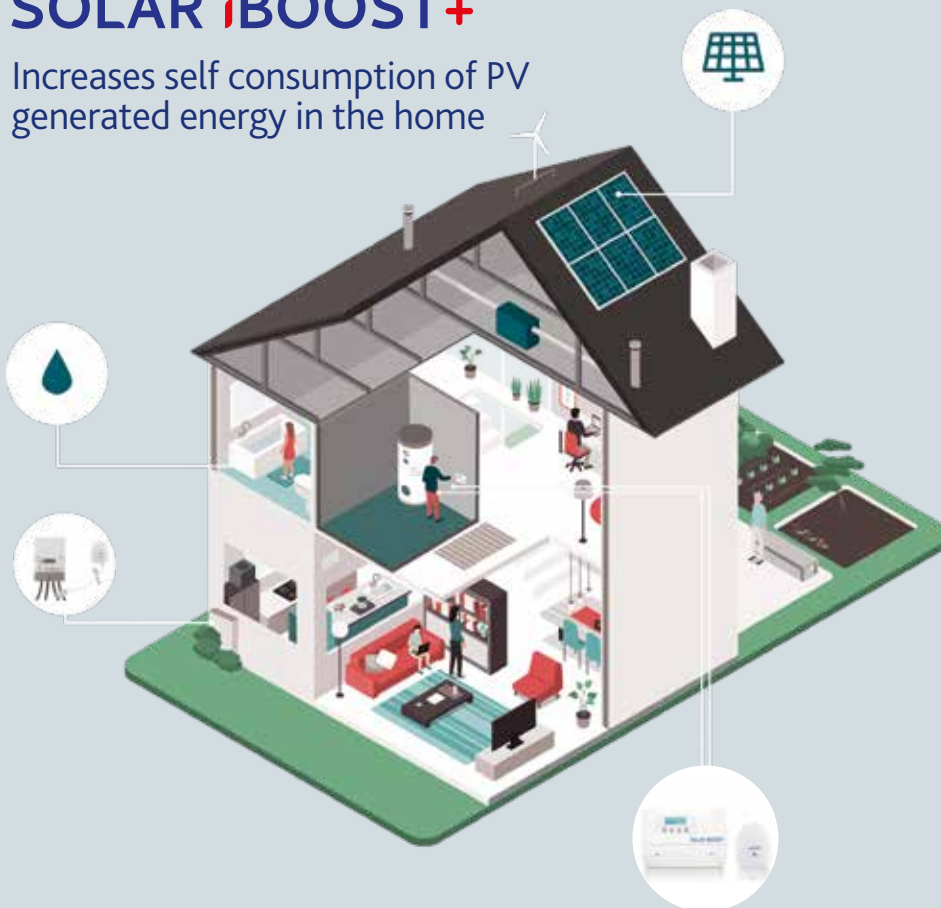
The Solar iBoost+™ is factory mounted to the cylinder and pre wired to the 1st immersion heater which is relocated at the base of the cylinders to ensure maximum available water capacity can be heated.

Throughout the day the water temperature is raised, reducing the operating time of the home's heating system.



## SOLAR iBOOST+

Increases self consumption of PV generated energy in the home

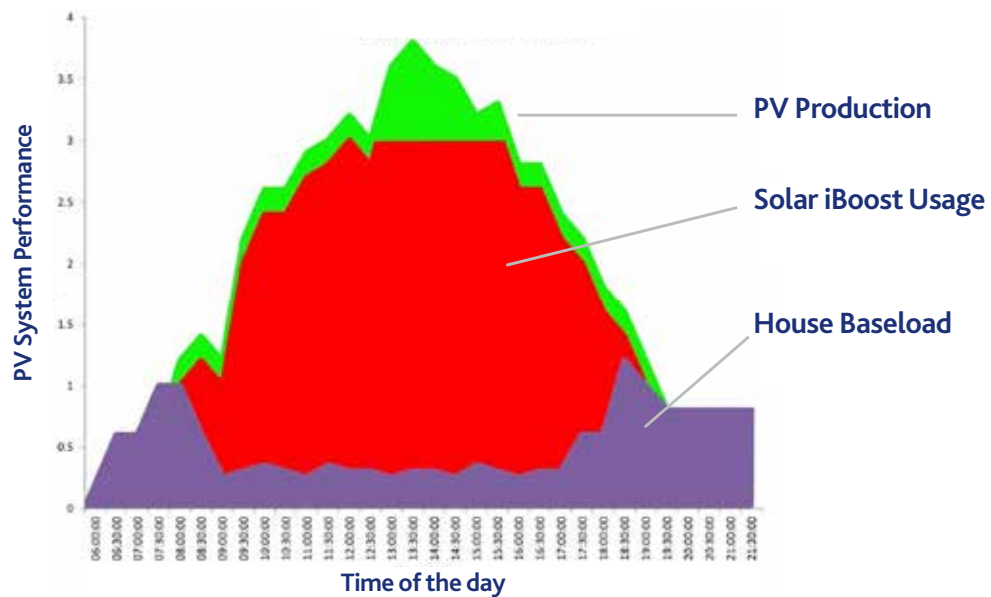


### FEATURES

- > Compatible with Battery Storage
- > Can assist in Building Regulations / SAP by reducing the number of solar panels required
- > Programmable Timed Boost
- > Reducing the number of solar panels can assist in G98 compliance and connection to the grid
- > Compatible with Dual Immersions
- > Can be Retrofitted to Existing Systems
- > User Friendly Display
- > Quick Installation Time
- > Wireless Technology

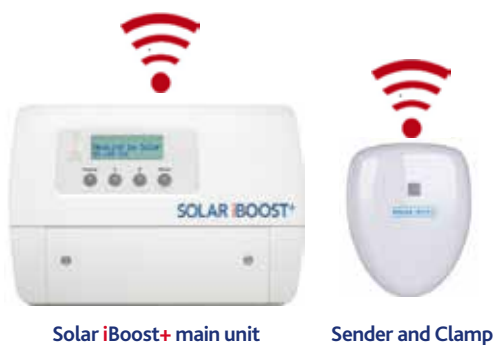
## Solar iBoost+ Performance

The CT clamp measures energy flow and switches Solar iBoost+ to maintain export at 100W or to the installer set threshold.



## Solar iBoost+ Key Functions

- > Manual Boost in 15 minute increments up to 2 hours.
- > Timed programming on 5/2 day basis, 2 times each day for economy settings.
- > Set Season for timed programming.
- > Easy connectivity with 'Optional' iBoost+ Buddy (purchased separately) for remote operation and monitoring.
- > Operating range between devices 30m indoors.



| Description  | Code        |
|--|-------------|
| Elite Direct Unvented 90L Solar iBoost+                            | ESDIR0090PV |
| Elite Direct Unvented 120L Solar iBoost+                           | ESDIR0120PV |
| Elite Direct Unvented 150L Solar iBoost+                           | ESDIR0150PV |
| Elite Direct Unvented 180L Solar iBoost+                           | ESDIR0180PV |
| Elite Direct Unvented 200L Solar iBoost+                           | ESDIR0200PV |
| Elite Direct Unvented 250L Solar iBoost+                           | ESDIR0250PV |
| Elite Direct Unvented 300L Solar iBoost+                           | ESDIR0300PV |
| Elite Heat Pump Unvented 120L Solar iBoost+                        | ESHDP3120PV |
| Elite Heat Pump Unvented 150L Solar iBoost+                        | ESHDP3150PV |
| Elite Heat Pump Unvented 180L Solar iBoost+                        | ESHDP3180PV |
| Elite Heat Pump Unvented 200L Solar iBoost+                        | ESHDP3200PV |
| Elite Heat Pump Unvented 250L Solar iBoost+                        | ESHDP3250PV |
| Elite Heat Pump Unvented 300L Solar iBoost+                        | ESHDP3300PV |
| Elite Heat Pump Unvented 400L Solar iBoost+                        | ESHDP3400PV |
| Elite Heat Pump Unvented 500L Solar iBoost+                        | ESHDP3500PV |
| Elite Heat Pump Unvented 600L Solar iBoost+                        | ESHDP3600PV |
| Elite Indirect Unvented 90L Solar iBoost+                          | ESIND0090PV |
| Elite Indirect Unvented 120L Solar iBoost+                         | ESIND0120PV |
| Elite Indirect Unvented 150L Solar iBoost+                         | ESIND0150PV |
| Elite Indirect Unvented 180L Solar iBoost+                         | ESIND0180PV |
| Elite Indirect Unvented 200L Solar iBoost+                         | ESIND0200PV |
| Elite Indirect Unvented 250L Solar iBoost+                         | ESIND0250PV |
| Elite Indirect Unvented 300L Solar iBoost+                         | ESIND0300PV |
| Elite Cyl Indirect Pre-Plumbed Twin Zone 120L Solar iBoost+        | ESPPT0120PV |
| Elite Cyl Indirect Pre-Plumbed Twin Zone 150L Solar iBoost+        | ESPPT0150PV |
| Elite Cyl Indirect Pre-Plumbed Twin Zone 180L Solar iBoost+        | ESPPT0180PV |
| Elite Cyl Indirect Pre-Plumbed Twin Zone 200L Solar iBoost+        | ESPPT0200PV |
| Elite Cyl Indirect Pre-Plumbed Twin Zone 250L Solar iBoost+        | ESPPT0250PV |
| Elite Cyl Indirect Pre-Plumbed Twin Zone 300L Solar iBoost+        | ESPPT0300PV |
| Elite Air System Boiler Pre-Plumbed Twin Zone 120 L- Solar iBoost+ | EAEBT0120PV |
| Elite Air System Boiler Pre-Plumbed Twin Zone 150 L- Solar iBoost+ | EAEBT0150PV |
| Elite Air System Boiler Pre-Plumbed Twin Zone 180 L- Solar iBoost+ | EAEBT0180PV |
| Elite Air System Boiler Pre-Plumbed Twin Zone 200 L- Solar iBoost+ | EAEBT0200PV |
| Elite Air System Boiler Pre-Plumbed Twin Zone 250 L- Solar iBoost+ | EAEBT0250PV |
| Elite Air System Boiler Pre-Plumbed Twin Zone 300 L- Solar iBoost+ | EAEBT0300PV |



## Heat Pump Solar Twin Coil

- > Universally compatible with any heat pump.
- > Designed for renewable energy systems where solar thermal and heat pump applications are required.
- > 12mm sensor probe pocket.



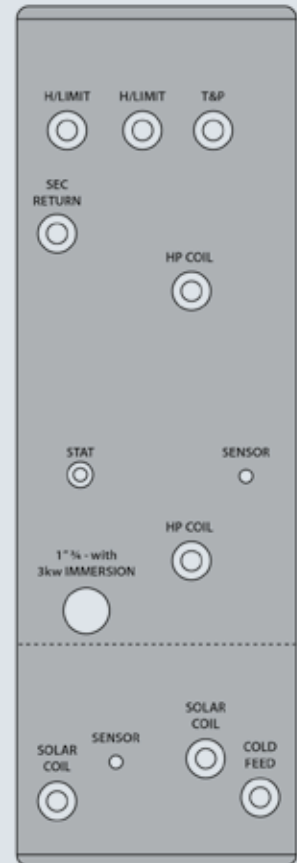
HEAT PUMP

Supplied with heat pump coil



SOLAR

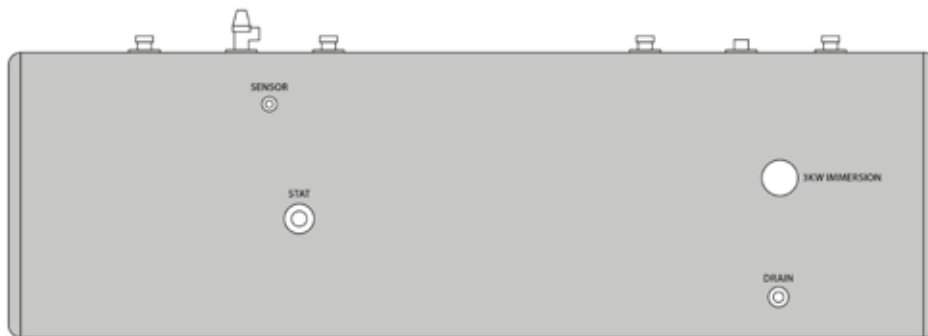
Supplied with additional Solar thermal coil



| Description | Product Code | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|-------------|--------------|----------------------|-------------|------------------|-------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|             |              |                      |             |                  |             |               |   | kWh/ 24h           | WATTS |                                       |          |
| 180L        | ESHPT2180    | 180                  | 39          | 208              | 1314        | 545           | 2.44  | 1.47               | 61    | X                                     | C        |
| 200L        | ESHPT2200    | 200                  | 44          | 241              | 1444        | 545           | 2.97  | 1.55               | 71    | ✓                                     | C        |
| 250L        | ESHPT2250    | 250                  | 46          | 295              | 1752        | 545           | 2.97  | 1.85               | 83    | ✓                                     | C        |
| 300L        | ESHPT2300    | 300                  | 48          | 336              | 1975        | 545           | 2.97  | 2.13               | 94    | ✓                                     | C        |
| 400L        | ESHPT2400    | 400                  | 55          | 461              | 1640        | 690           | 2.97  | 2.29               | 92    | ✓                                     | C        |
| 500L        | ESHPT2500    | 500                  | 58          | 562              | 1995        | 690           | 4   | 2.42               | 101   | ✓                                     | C        |
| 600L        | ESHPT2600    | 600                  | 67          | 643              | 2190        | 690           | 4   | 2.68               | 112   | ✓                                     | C        |

## Heat Pump Horizontal

- > Universally compatible with any heat pump.
- > Ideal for use where a vertical cylinder will not fit, typically in a loft space.
- > Supplied complete with floor standing cradles.



| Description | Product Code | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Width (mm) | Diameter (mm) | Heat Pump Coil Surface Area (m <sup>2</sup> ) | Standing Heat Loss |       | Secondary Return Included as standard | ERP BAND |
|-------------|--------------|----------------------|-------------|------------------|------------|---------------|---|--------------------|-------|---------------------------------------|----------|
|             |              |                      |             |                  |            |               |   | kWh/ 24h           | WATTS |                                       |          |
| 180L        | ESHPH2180    | 180                  | 43          | 202              | 1314       | 545           | 2.44  | 1.89               | 79    | ✓                                     | C        |
| 200L        | ESHPH3200    | 200                  | 49          | 235              | 1444       | 545           | 2.08  | 2.01               | 84    | ✓                                     | C        |
| 250L        | ESHPH3250    | 250                  | 53          | 289              | 1752       | 545           | 2.97  | 2.16               | 90    | ✓                                     | C        |
| 300L        | ESHPH3300    | 300                  | 57          | 330              | 1975       | 545           | 2.97  | 2.35               | 98    | ✓                                     | C        |

# Buffer Cylinders

UK Cylinders manufacture a complimentary family of buffer stores from 50ltr to 600ltr; made from high quality duplex stainless steel that can form part of the renewable energy heating system.



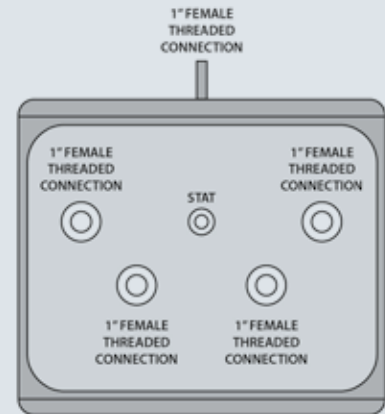
## SPECIFICATION

- > Using a buffer tank is often described by heat pump manufacturers as “the ideal installation” providing optimum performance.
- > The latest NHBC guidance (8.2/01) refers to the use of buffers as essential to create an efficient overall system. They are key to preventing short cycling allowing the heat pump to work at its optimum as well as reducing wear and tear on the heat pumps’ components.
- > If the flow to the heating system can be restricted using radiator thermostats, for example, install a UKC buffer as an intermediate tank. This ensures a secure flow for the heat pump, resulting in improved efficiency and operation of the heat pump.
- > Install a UKC buffer or combined heat pump and buffer to increase the overall system volume in the primary pipework, this helps limit switching the heat pump generator on/off and thereby prevents malfunctions and improves defrost cycles. The resulting use of back up heaters is limited and improves overall running costs.
- > The UKC buffer range also allows, a neutral point in the system; if required a different flow to the heating system, than across the heat pump.



## Buffer 50L - 60L

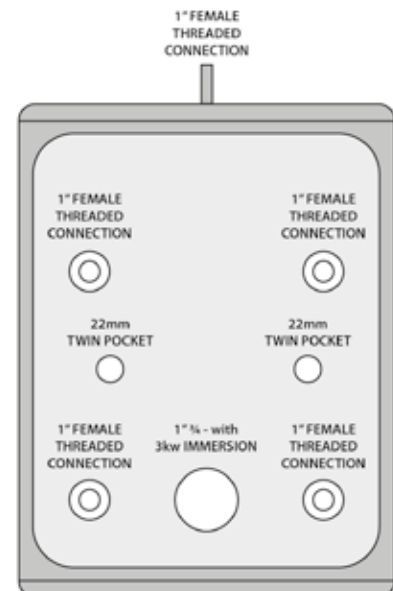
- > 50/60ltr stand alone buffer.
- > 5 x 1" female threaded connections as standard.
- > Thermostat pocket to allow independent control of the buffer temperature.



| Description | Product Code | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Standing Heat Loss |       |
|-------------|--------------|----------------------|-------------|------------------|-------------|---------------|--------------------|-------|
|             |              |                      |             |                  |             |               | kWh/ 24h           | WATTS |
| 50L         | ESBVS0050    | 50                   | 18          | 68               | 498         | 545           | #N/A               | #N/A  |
| Slim 60L    | ESNBV0060    | 60                   | 20          | 80               | 744         | 475           | 1.02               | 43    |

## Buffer 90L

- > 90ltr stand alone buffer.
- > 5 x 1" female threaded connections as standard.
- > Thermostat pocket to allow independent control of the buffer temperature.
- > Built in 3kW immersion as standard.



| Description | Product Code | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Standing Heat Loss |       | ERP BAND |
|-------------|--------------|----------------------|-------------|------------------|-------------|---------------|--------------------|-------|----------|
|             |              |                      |             |                  |             |               | kWh/ 24h           | WATTS |          |
| 90L         | ESBVS0090    | 90                   | 19          | 109              | 747         | 545           | 1.10               | 46    | B        |
| Slim 90L    | ESNBV0090    | 90                   | 21          | 111              | 1007        | 475           | 1.14               | 48    | C        |



## Buffer 120L - 600L

- > 7 x 1" female threaded connections as standard.
- > Built in 3kW immersion.
- > 3 x control stat / thermistor ports to allow independent control.



| Description                    | Product Code | Nominal Capacity (L) | Weight (KG) | Weight full (KG) | Height (mm) | Diameter (mm) | Standing Heat Loss |       | ERP BAND |
|--------------------------------|--------------|----------------------|-------------|------------------|-------------|---------------|--------------------|-------|----------|
|                                |              |                      |             |                  |             |               | kWh/ 24h           | WATTS |          |
| <b>Slimline Diameter Model</b> |              |                      |             |                  |             |               |                    |       |          |
| 120L                           | ESNBV0120    | 120                  | 25          | 145              | 1270        | 475           | 1.37               | 57    | C        |
| 150L                           | ESNBV0150    | 150                  | 29          | 179              | 1535        | 475           | 1.60               | 67    | C        |
| 170L                           | ESNBV0170    | 170                  | 33          | 203              | 1710        | 475           | 1.70               | 71    | C        |
| 200L                           | ESNBV0200    | 200                  | 37          | 237              | 1980        | 475           | 1.80               | 75    | C        |
| <b>Standard Diameter Model</b> |              |                      |             |                  |             |               |                    |       |          |
| 120L                           | ESBVS0120    | 120                  | 23          | 143              | 945         | 545           | 1.20               | 50    | B        |
| 150L                           | ESBVS0150    | 150                  | 27          | 177              | 1130        | 545           | 1.32               | 55    | B        |
| 180L                           | ESBVS0180    | 180                  | 31          | 201              | 1314        | 545           | 1.63               | 68    | C        |
| 200L                           | ESBVS0200    | 200                  | 35          | 235              | 1444        | 545           | 1.70               | 71    | C        |
| 250L                           | ESBVS0250    | 250                  | 40          | 290              | 1752        | 545           | 1.99               | 83    | C        |
| 300L                           | ESBVS0300    | 300                  | 45          | 335              | 1975        | 545           | 2.26               | 94    | C        |
| 400L                           | ESBVS0400    | 400                  | 51          | 431              | 1640        | 690           | 1.95               | 81    | C        |
| 500L                           | ESBVS0500    | 500                  | 54          | 529              | 1995        | 690           | 2.31               | 96    | C        |
| 600L                           | ESBVS0600    | 600                  | 63          | 633              | 2190        | 690           | 2.62               | 109   | C        |

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# Multi layered magnetic filter

**SPECIALLY DESIGNED FOR HEAT PUMPS**

## FEATURES

The HP magnetic central heating filter, featuring a unique direct multi-layered non-ferrous filter, is the ideal solution to protect your investment in a heat pump system.

A neat solution for capturing both magnetic and fine particle debris.



Rapid fit, it comes complete with 28mm full bore isolation valves and o rings.

Full bore, high flow rate capacity to aid heat pump performance.



Part number :  
**UKX070**

**Our filter protects your system against costly and unnecessary breakdowns caused by both magnetic and non-ferrous particulate in central heating.**

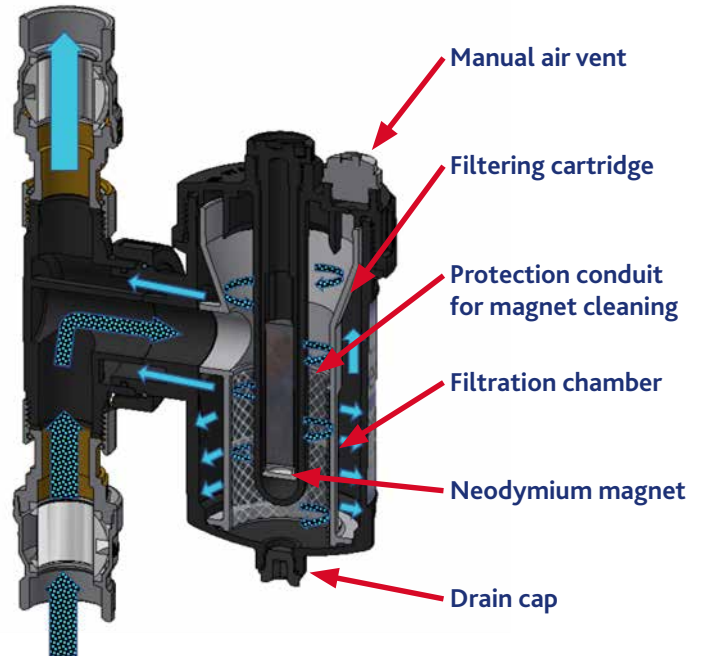




## BENEFITS

- > As well as separating magnetic debris and trapped air in circulating system fluid, the UK Cylinders Multi Layer Direct HP also includes a completely unique direct non-ferrous filter which contains multi-layered stainless steel gauze filters. The system debris is forced directly into the filter and breaks down the debris which then precipitate to the base of the pot.
- > The remaining magnetic debris is then drawn to the centre of the filter and captured by the 11,000-gauss rare earth neodymium magnet.
- > The filter pot has a fluid volume of 500ml - ideal for chemical dosing.
- > Reduces to a 300 micron degree of filtration.
- > 360° Fully Rotatable filter pot to aid installation and servicing.
- > 11000 gauss dry pocket, neodymium magnet.
- > Incorporated manual air vent to release built up air from the system.
- > Easy access replaceable gauze filter.

Filtered Water





# UK CYLINDERS

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UK Cylinders Ltd are proud to be members of the Hot Water Association (HWA) and are committed to its ethics and values

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