



HEAT PUMP

# Elite Cyl

The UK's Widest Range of Heat Pump  
& Buffer 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.

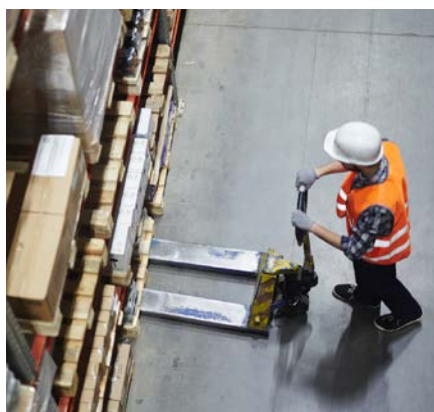
We are a market led company with many years' experience in manufacturing and product development, this ensures our products exceed our customers needs.

**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.

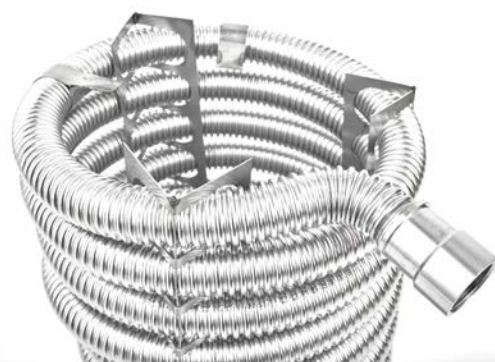
Please contact us on **03330 329 650** or **sales@ukcylinders.co.uk** if you require details of your local stockist.

## Environmental - and a more sustainable future

Our environmental management system allows us to promote efficient manufacture of our products and minimise negative impact on the environment.

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

**Specially designed Heatpump coil**



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



Your Hot Water Specialists | **03330 329 650**

# Heat Pump Cylinders

All our 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

- > 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 90ltr - 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 Universal

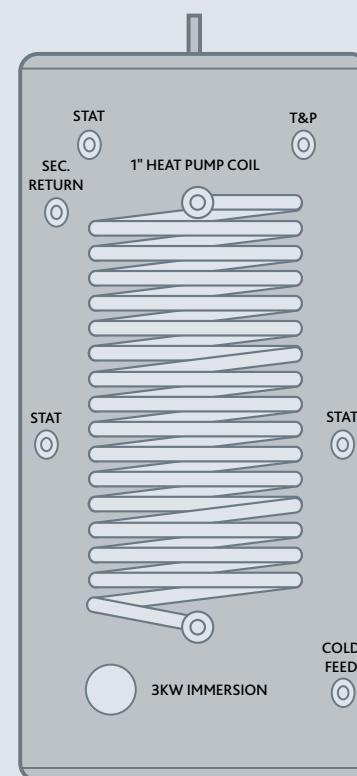
- > 3 port full bore, 28mm compression DHW & CH valve.
- > 4 bar pressure gauge.
- > Fill & flush valve with servicing ports. Useful to fill and flush the system with cleaning chemicals or water treatment.
- > Optional 8m circulating pump for primary circuit.
- > G3 compliant cold feed pipework, inc. 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.



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 (m²)	Standing Heat Loss		Secondary Return Included as standard	ERP BAND
									kWh/ 24h	WATTS		
120L	ESHPP2120	ESHPP2120X	120	54	172	888	545	1.61	1.06	42	✗	B
150L	ESHPP2150	ESHPP2150X	150	58	208	1075	545	2.08	1.22	44	✗	B
170L	ESHPP2170	ESHPP2170X	170	63	230	1203	545	2.08	1.63	68	✗	C
200L	ESHPP3200	ESHPP3200X	200	72	267	1389	545	2.97	1.7	71	✓	C
250L	ESHPP3250	ESHPP3250X	250	75	319	1701	545	2.97	1.99	83	✓	C
300L	ESHPP3300	ESHPP3300X	300	80	360	1924	545	2.97	2.26	94	✓	C
400L	ESHPP3400	ESHPP3400X	400	78	477	1613	690	4	2.2	92	✓	C
500L	ESHPP3500	ESHPP3500X	500	94	591	1975	690	4	2.42	101	✓	C
600L	ESHPP3600	ESHPP3600X	600	105	674	2139	690	4	2.68	112	✓	C

## Heat Pump Cylinder

- > 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	ESHDPD3120	120	27	145	888	545	1.61	1.06	42	X	B
150L	ESHDPD3150	150	31	181	1075	545	2.08	1.22	44	X	B
170L	ESHDPD3170	170	35	202	1203	545	2.08	1.63	68	X	C
200L	ESHDPD3200	200	40	235	1389	545	2.97	1.7	71	✓	C
250L	ESHDPD3250	250	45	289	1701	545	2.97	1.99	83	✓	C
300L	ESHDPD3300	300	50	330	1924	545	2.97	2.26	94	✓	C
400L	ESHDPD3400	400	54	453	1613	690	2.97	2.2	92	✓	C
500L	ESHDPD3500	500	57	554	1975	690	2.97	2.42	101	✓	C
600L	ESHDPD3600	600	66	635	2139	690	2.97	2.68	112	✓	C
400L	ESHDPD4400	400	78	455	1613	690	4	2.2	92	✓	C
500L	ESHDPD4500	500	94	556	1975	690	4	2.42	101	✓	C
600L	ESHDPD4600	600	105	637	2139	690	4	2.68	112	✓	C



## Heat Pump Slimline Pre Plumbed

- > Slimline 475mm diameter for smaller cupboard spaces.
- > 3 port full bore, 28mm compression DHW & CH 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.

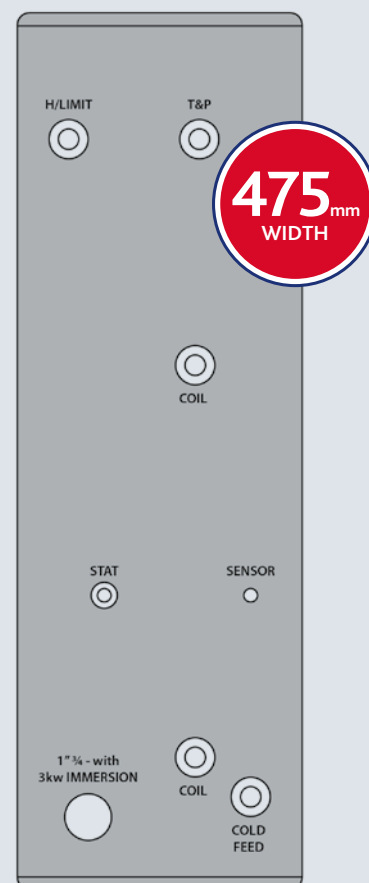


Description	Product Code with circulating pump	Product Code no circulating pump	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m <sup>2</sup> )	Standing Heat Loss		Secondary Return Included as standard	ERP BAND
									kWh/ 24h	WATTS		
120L	ESHPPN2120	ESHPPN2120X	120	33	158	1228	475	1.61	1.25	52	✗	B
150L	ESHPPN2150	ESHPPN2150X	150	39	194	1496	475	1.61	1.42	59	✗	B
170L	ESHPPN2170	ESHPPN2170X	170	45	215	1674	475	2.08	1.7	71	✗	C
200L	ESHPPN3200	ESHPPN3200X	200	48	248	1941	475	2.08	1.8	75	✓	C



## Heat Pump Slimline

- > 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.



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	158	1228	475	1.61	1.25	52	✗	B
150L	ESHPS3150	150	34	194	1496	475	1.61	1.42	59	✗	B
170L	ESHPS3170	170	45	215	1674	475	2.08	1.7	71	✗	C
200L	ESHPS3200	200	48	248	1941	475	2.08	1.8	75	✓	C



## Heat Pump and Buffer Combined Pre Plumbed Options

- > 3 port full bore, 28mm compression DHW & CH 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.
- > 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.
- > 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 sensor probe pocket.
- > Buffer provides hydraulic separation and minimum system volume.

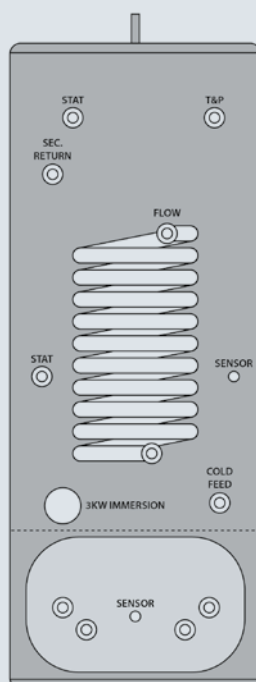
COMES COMPLETE WITH 12LTR HEATING  
EXPANSION VESSEL - SUPPLIED LOOSE.



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/30L	ESNPPB3012	ESNPPB3012X	120	43	193	1390	475	1.61	1.25		X	
150L/30L	ESNPPB3015	ESNPPB3015X	150	46	226	1863	475	1.61	1.42	59	X	B
150L/50L	ESNPPB5015	ESNPPB5015X	150	47	247	2045	475	1.61	1.42	59	X	B
170L/30L	ESNPPB5017	ESNPPB5017X	170	48	249	2041	475	2.08	1.63	68	X	C
170L/50L	ESPPB5017	ESPPB5017X	170	50	270	1603	545	2.08	1.63	68	X	C
200L/50L	ESPPB5020	ESPPB5020X	200	57	307	1801	545	2.97	1.7	71	✓	C
225L/50L	ESPPB5022	ESPPB5022X	225	60	364	2048	545	2.97	1.99	83	✓	C

## Heat Pump and Buffer Combined

- > Using a buffer tank is often described by heat pump manufacturers as “the ideal installation” providing optimum performance.
- > Our built in buffer features 1” female connections as standard.
- > One neat solution providing a heat pump cylinder and buffer in the same footprint, saving both time and space.
- > 12mm sensor probe pockets provided in both buffer and heat pump cylinder.
- > Buffer provides hydraulic separation.

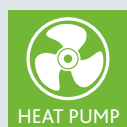


Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m <sup>2</sup> )	Standing Heat Loss		Secondary Return Included as standard	ERP BAND
								kWh/ 24h	WATTS		
120/30L	ESNHPB3012	120	43	186	1390	475	1.61	1.25	52	✗	B
150/30L	ESNHPB3015	150	46	219	1863	475	1.61	1.42	59	✗	B
150/50L	ESNHPB5015	150	47	240	2045	475	1.61	1.42	59	✗	B
170/30L	ESNHPB3017	170	49	260	2041	475	1.61	1.63	68	✗	C
170/50L	ESHBP5017	170	50	263	1603	545	2.08	1.63	68	✗	C
200/50L	ESHBP5020	200	57	300	1801	545	2.97	1.7	71	✓	C
225/50L	ESHBP5022	225	60	360	2048	545	2.97	1.99	83	✓	C

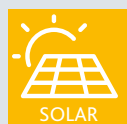


## Heat Pump Solar Twin Coil

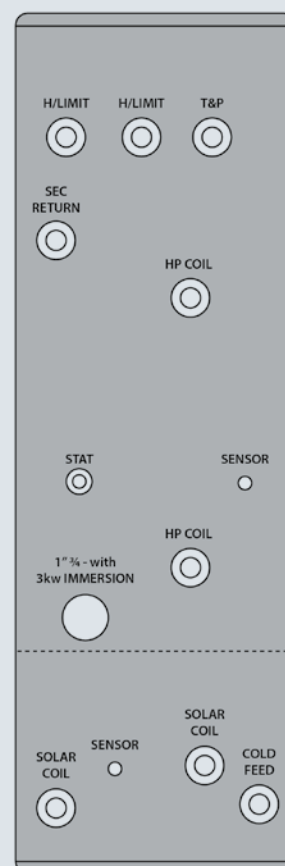
- > Designed for renewable energy systems where solar thermal and heat pump applications are required.
- > 12mm sensor probe pocket.



Supplied with  
heat pump coil



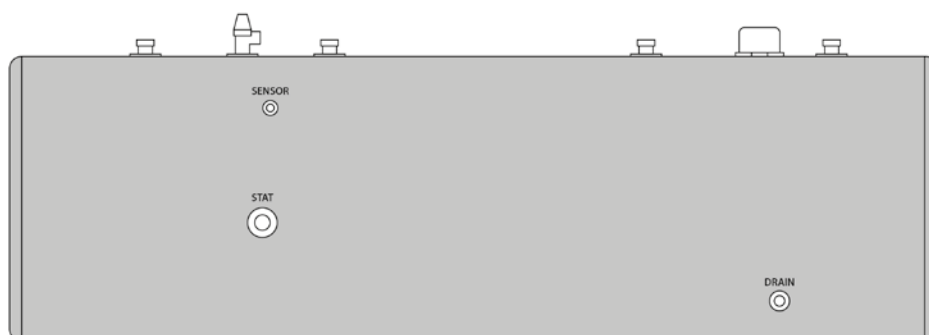
Supplied with  
additional Solar  
thermal coil



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		
170L	ESHPT2170	170	39	208	1203	545	2.08	1.63	68	X	C
200L	ESHPT2200	200	44	241	1389	545	2.97	1.7	71	✓	C
250L	ESHPT2250	250	46	295	1701	545	2.97	1.99	83	✓	C
300L	ESHPT2300	300	48	336	1924	545	2.97	2.26	94	✓	C
400L	ESHPT2400	400	55	461	1613	690	2.97	2.29	92	✓	C
500L	ESHPT2500	500	58	562	1975	690	4	2.42	101	✓	C
600L	ESHPT2600	600	67	643	2139	690	4	2.68	112	✓	C

## Heat Pump Horizontal

- > 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		
170L	ESHPH2170	170	43	202	1203	545	2.08	1.89	79	✓	C
200L	ESHPH3200	200	49	235	1389	545	2.08	2.01	84	✓	C
250L	ESHPH3250	250	53	289	1701	545	2.97	2.16	90	✓	C
300L	ESHPH3300	300	57	330	1924	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.

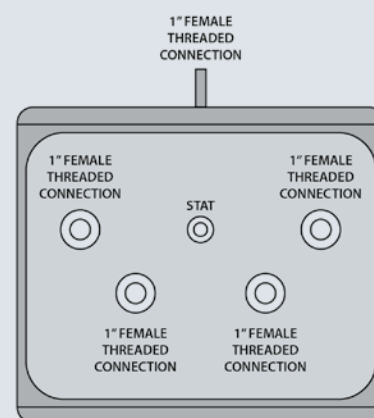


## SPECIFICATION

- > 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 heatpump to work at its optimum as well as reducing wear and tear on the heatpumps’ 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

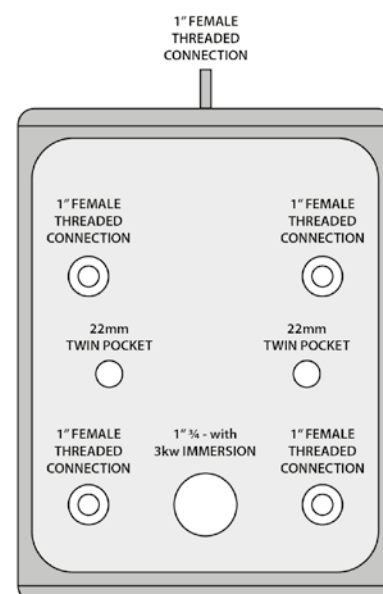
- > 50/60ltr stand alone buffer.
- > 5 x 1" female threaded connections as standard.
- > Thermostat pocket to allow independent control of the buffer temperature.



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	465	545	#N/A	#N/A
Slim 60L	ESNBV0060	60	20	80	697	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.

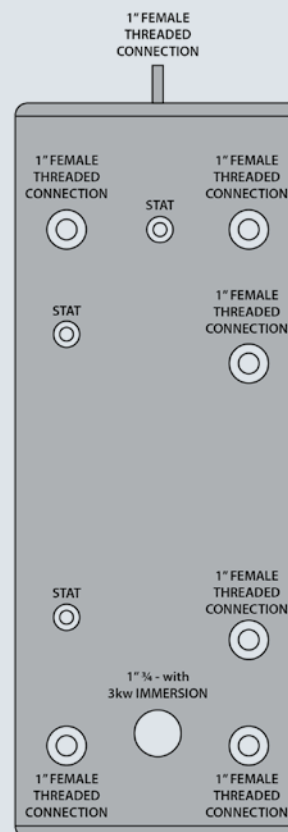


Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Standing Heat Loss		ERP BAND
							kWh/ 24h	WATTS	
90L	ESBVS0090	90	19	109	694	545	1.1	46	B
Slim 90L	ESNBV0090	90	21	111	961	475	1.14	48	C



## 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	
120L	ESBVS0120	120	23	143	888	545	1.2	50	B
150L	ESBVS0150	150	27	177	1075	545	1.32	55	B
170L	ESBVS0170	170	31	201	1203	545	1.63	68	C
200L	ESBVS0200	200	35	235	1389	545	1.7	71	C
250L	ESBVS0250	250	40	290	1701	545	1.99	83	C
300L	ESBVS0300	300	45	335	1924	545	2.26	94	C
400L	ESBVS0400	400	51	431	1613	690	1.95	81	C
500L	ESBVS0500	500	54	529	1975	690	2.31	96	C
600L	ESBVS0600	600	63	633	2139	690	2.62	109	C
Slim 120L	ESNBV0120	120	25	145	1228	475	1.37	57	C
Slim 150L	ESNBV0150	150	29	179	1496	475	1.6	67	C
Slim 170L	ESNBV0170	170	33	203	1674	475	1.7	71	C
Slim 200L	ESNBV0200	200	37	237	1941	475	1.8	75	C

# REDD

Plumbing, Heating  
and Renewable energy  
design services for the  
new build industry

REDD provide designs for all types of heating, plumbing and renewable energy systems. These designs can incorporate natural gas, low pressure gas (LPG), electric or oil-fired boilers, air source heat pumps (ASHP) or ground source heat pumps (GSHP) – Plus whatever Building regulations or SAP calculations the client requires.

Email your design enquiry to  
[designs@reddesign.uk](mailto:designs@reddesign.uk)

Renewable Energy Domestic Designs (REDD) core business is to provide a free-of-charge heating & plumbing design service to the new build housing sector. This is a 100% independent design company, able to provide designs for the domestic new build market incorporating any number of gas, electric or renewable energy based options.



Unit C | Washington Court | Windmill Avenue  
Kettering | Northants | NN16 0UE

T 01536 850350

E [designs@reddesign.uk](mailto:designs@reddesign.uk)

W [www.reddesign.uk](http://www.reddesign.uk)



# 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.**

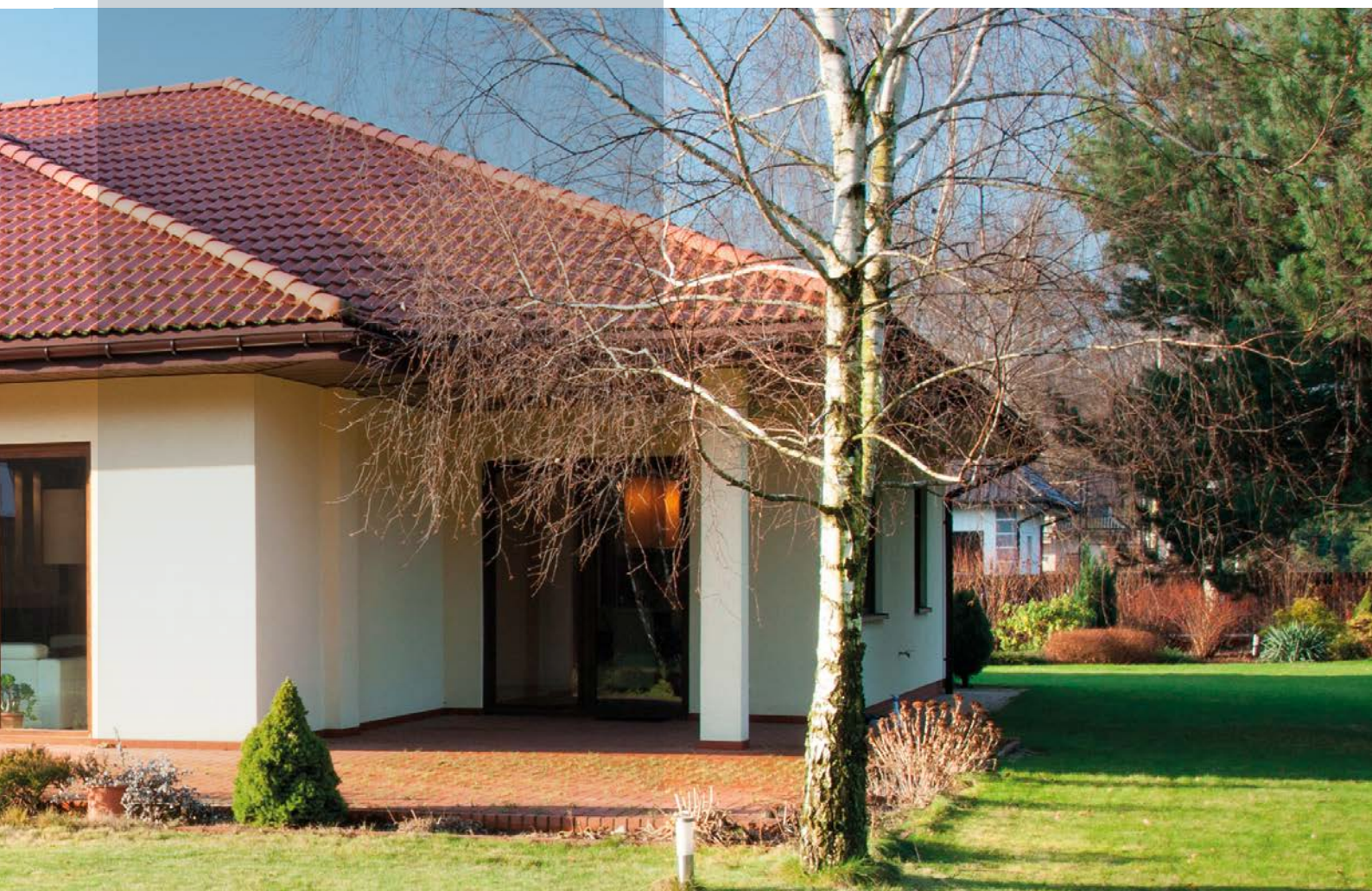
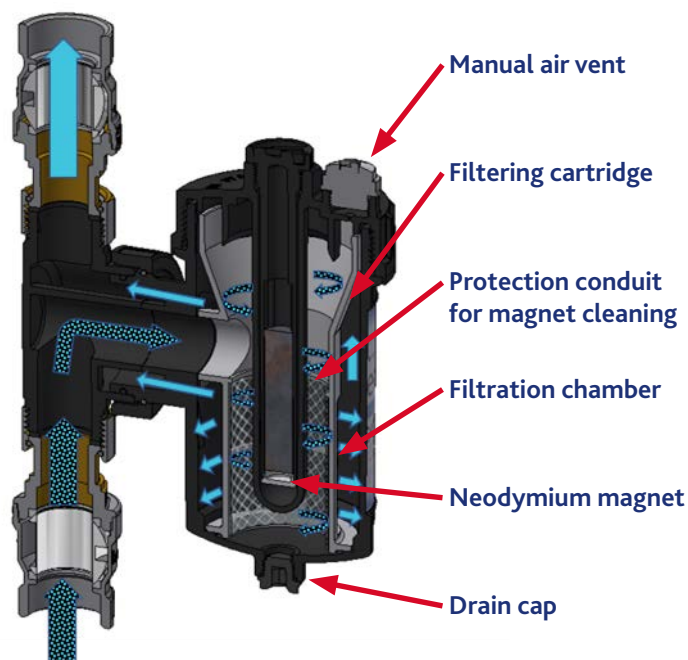




## BENEFITS

- > 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

YOUR HOT WATER SPECIALISTS



UK CYLINDERS • UNIT 3 RCM BUSINESS CENTRE  
DEWSBURY ROAD • OSSETT • WEST YORKSHIRE • WF5 9ND

T 03330 329 650 • F 01924 977 079  
sales@ukcylinders.co.uk • [www.ukcylinders.co.uk](http://www.ukcylinders.co.uk)



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

UK Cylinders endeavour to keep the content of this brochure as up-to-date as possible. We reserve the right to make changes to all UK Cylinders products and services at anytime. To ensure you have the most current information please contact UK Cylinders directly.