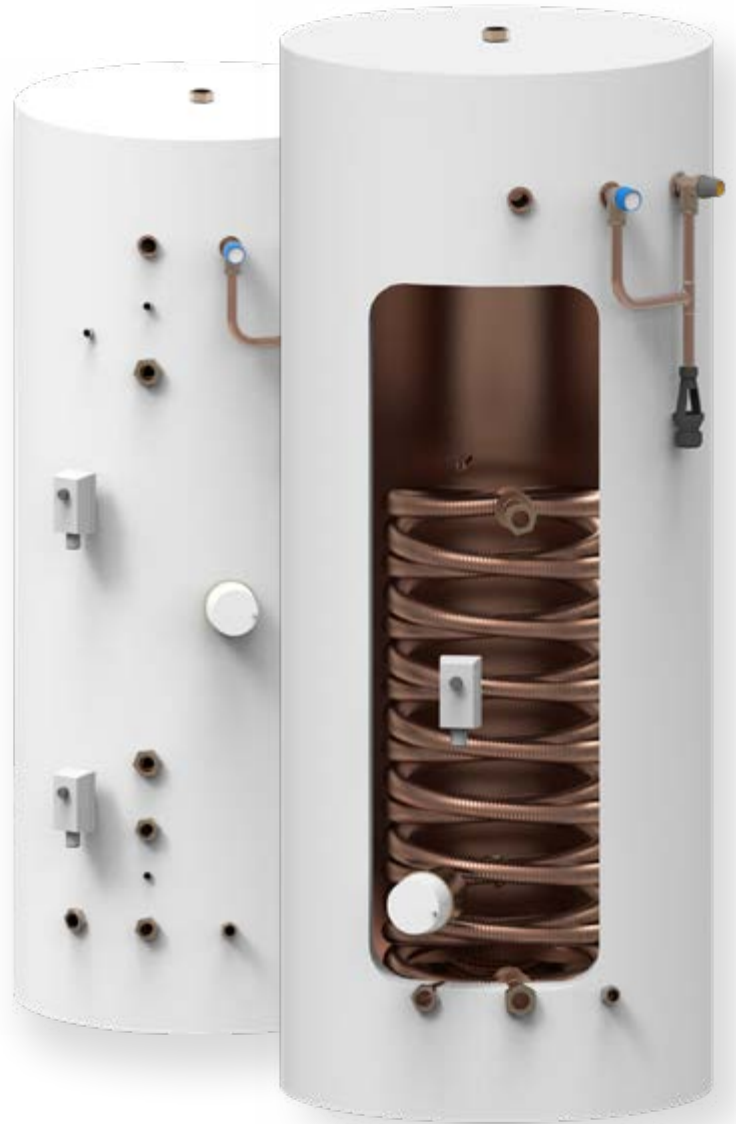


ECO FLOW

Heat Pump Cylinders

Standard And Bespoke Options
Manufactured From Copper



McDonald
Water Storage

Hot Water Storage Solutions



The Most Customisable Heat Pump Cylinder On The Market

Since its introduction in 1990's, the ECOflow unvented heat pump cylinder, has provided fantastic benefits for homeowners and installers.

The versatility of this unvented range allows the cylinder to be designed for your application, whether it is a narrower diameter, additional connections or larger coils to suit the heat pump input, ECOflow can be tailored to meet your requirements.

For the perfect heat pump cylinder for your next project, why settle for mass market products when you have ECOflow?



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ECOflow Heat Pump Solar

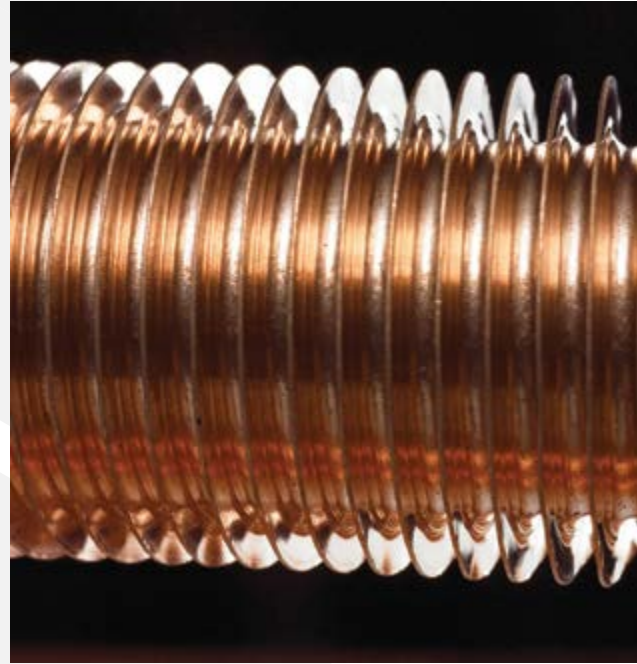
ECOflow Tank on Tank



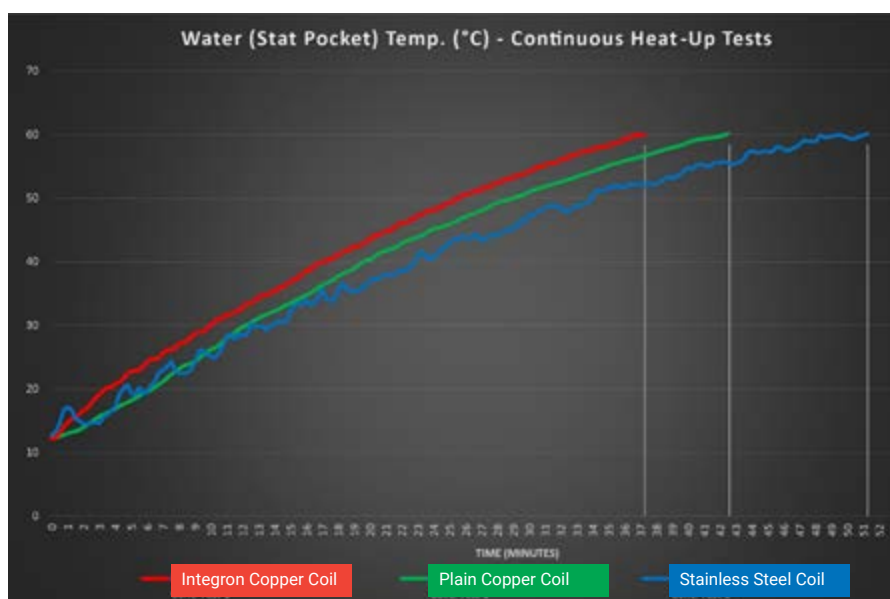
Discover The Benefit Of Our *ECOflow* Cylinders

There are many heat pump cylinder options on the market, but why should ECOflow be your first choice?

- **Bespoke design flexibility**
Providing an unvented solution to suit any installation requirement, maximising space with slimline models and reducing installation time with bespoke tappings
- **Copper performance and cost savings**
With superior heat transfer and reheat performance, in addition to a range of insulation options, save energy and reduce running costs
- **Range Of Heat Pump Coil Configurations**
The Integron coils used for the heat pump input can be configured to suit your heat pump input and cylinder size, whether it is an air source or ground source variant, maximising the available temperatures.



Maximising Performance

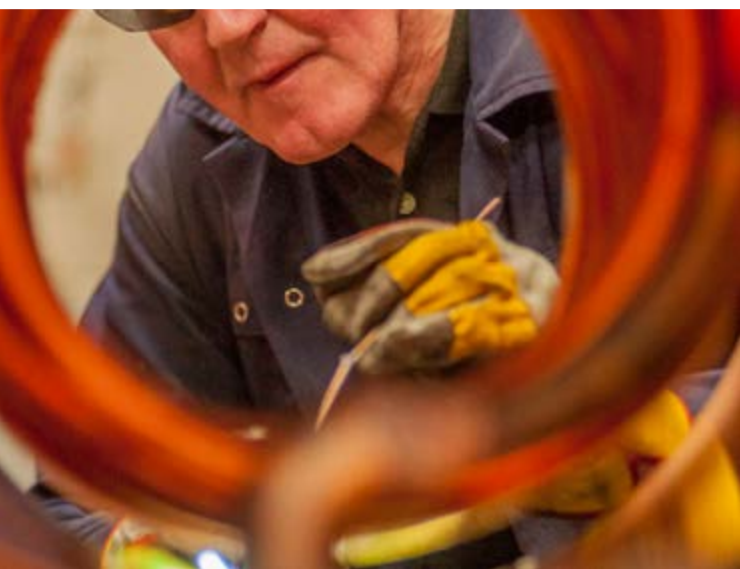


Tests showed that copper coils provided up to 27% faster reheat than a stainless steel alternative.

The ECOflow heat pump coil maximises the available heat delivered by your heat pump with copper's superior thermal conductivity.

Reducing reheat times not only improves efficiency but also lowers ongoing running costs for the homeowner.

Why should ECOflow Be First Choice For Your Project?



The bespoke design flexibility of the ECOflow range overcomes the restrictions of it's stainless steel alternative, making it the perfect solution where 'standard' products do not suit.

Whether it is something smaller in height or slimmer in width, the possibilities are extensive. Our Tank on Tank models provides both hot water and buffer benefits from one unit, rather than requiring two, the ideal space saving solution.

The double and triple pass coils are designed to maximise the heat input, whether it is for use with ground source or air source heat pumps.

The contract ECOflow range is supplied with spray foam insulation and 1.5 bar operating pressure.

The Perfect Installation Solution All In One Box

The ECOflow is supplied with all the necessary components required to install the unit, including a flexible hose connection and fixing bracket for the expansion vessel.

Compression fittings are supplied fitted on all the ECOflow cylinders to provide a quicker installation process.

The table opposite shows what is included with your ECOflow cylinder, dependant on model.

COMPONENT	Heat Pump	Heat Pump Solar
Pressure Reducing Valve, Tundish and Expansion Relief Valve (Fitted)	●	●
Temperature and Pressure Relief Valve (Fitted)	●	●
Check Valve (Supplied)	●	●
3kW Immersion Heater - Back Up Heat Source (Fitted)	●	●
3kW Immersion Heater - Integrated Buffer Vessel (Optional - Fitted)	●	●
Expansion Vessel (Supplied)	●	●
High Limit Thermostat (Supplied)	●	●
High Limit Thermostat (Solar - Supplied)		●
Flexible Hose For Connection to Expansion Vessel (Supplied)	●	●



Heat Pump Models

The ECOflow unvented heat pump cylinder is designed to heat the store with air source or ground source heat pumps.

Utilising the double or triple pass high efficiency copper finned coil, provides a high heat transfer and higher flow rates from the heat pump, enabling the fastest reheat possible of the cylinder. All units are also supplied with an electric immersion heater to raise the store temperature to 60 degrees.

The ECOflow heat pump cylinders are standard (shown below) or bespoke manufactured to the specific installation requirements, whether slimline models, change of tapping positions or increasing coil surface area, providing the ultimate unvented hot water solution.

Pre-plumb options available

COMPONENTS

1. Hot Draw (22mm Comp)
2. Cold Feed (22mm Comp)
3. Secondary Return
4. Expansion Relief Valve
5. Pressure & Temperature Relief Valve
6. Discharge Tundish
7. Drain
8. Heat Pump Coil Flow & Return (28mm Comp)
9. 3kW Immersion
10. High Limit Stat
11. 10mm Probe Pocket

KEY BENEFITS

- Bespoke design flexibility
- Copper finned integron coils for maximum heat transfer
- High density pouring foam insulation for low heat loss
- Slimline options with 450mm diameters
- Factory fitted discharge valves and pipework
- Standard operating pressure of 2.1 bar, with 1.5 or 3.0 bar options

Product Stock Code	EC180	EC210	EC250	EC300
Capacity (Litres)	180	210	250	300
Height (mm)	1350	1550	1850	1850
Diameter (mm)	550	550	550	600
Approximate Weight (KG)	Empty	58	64	73
	Full	238	274	323
Standing Heat Loss	Watts	59	65	72
	kW/24hr	1.41	1.56	1.72
ErP Class	C	C	C	C
HP Coil Surface Area	3sqm	3sqm	3sqm	3sqm

Sizes shown above are indicative only and include 50mm insulation (other thicknesses available). Other sizes are available to suit the installation requirements.



Heat Pump Solar Models

The ECOflow unvented heat pump solar cylinder is designed to heat the store with solar thermal input in addition to either air source or ground source heat pumps.

Utilising the double or triple pass high efficiency copper finned coil, provides a high heat transfer and higher flow rates from the heat pump, enabling the fastest reheat possible of the cylinder. All units are also supplied with a copper finned solar coil and an electric immersion heater to raise the store temperature to 60 degrees.

The ECOflow heat pump cylinders are standard (shown below) or bespoke manufactured to the specific installation requirements, whether slimline models, change of tapping positions or increasing coil surface area, providing the ultimate unvented hot water solution.

Pre-plumb options available

COMPONENTS

1. Hot Draw (22mm Comp)
2. Cold Feed (22mm Comp)
3. Secondary Return
4. Expansion Relief Valve
5. Pressure & Temperature Relief Valve
6. Discharge Tundish
7. Drain
8. Solar Coil Flow & Return (28mm Comp)
9. 10mm Solar Probe Pocket
10. Heat Pump Coil Flow & Return (28mm Comp)
11. 3kW Immersion
12. High Limit Stat
13. 10mm Heat Pump Probe Pocket

KEY BENEFITS

- Bespoke design flexibility
- Copper finned integron coils for maximum heat transfer
- High density pouring foam insulation for low heat loss
- Slimline options with 450mm diameters
- Factory fitted discharge valves and pipework
- Standard operating pressure of 2.1 bar, with 1.5 or 3.0 bar options

Product Stock Code		EC180SOL	EC210SOL	EC250SOL	EC300SOL
Capacity (Litres)		180	210	250	300
Height (mm)		1350	1550	1850	1850
Diameter (mm)		550	550	550	600
Approximate Weight (KG)	Empty	63	69	78	98
	Full	243	279	328	398
Standing Heat Loss	Watts	59	65	72	80
	kW/24hr	1.41	1.56	1.72	1.92
ErP Class		C	C	C	C
HP Coil Surface Area		3 sqm	3 sqm	3 sqm	3 sqm
Solar Coil Surface Area		1.2 sqm	1.2 sqm	1.5 sqm	1.5 sqm

Sizes shown above are indicative only and include 50mm insulation (other thicknesses available). Other sizes are available to suit the installation requirements.



Tank on Tank Models

The ECOflow heat pump or heat pump solar unvented cylinders can all be upgraded to incorporate a buffer store as a tank on tank configuration.

A heat pump system is designed to work continuously and cycle (turn on and off) as little as possible, heating the store and also providing heat to the building to keep up to temperature.

The buffer tank provides extra volume for the heating system. This allows the heat pump to work longer but reduce the cycling and increase the efficiency.

As with ECOflow products, the buffer tanks are bespoke manufactured to the specific installation requirements, up to 200 litres (subject to the overall height of the unit), and can be added to any of the ECOflow range, either standard diameter or slimline models, providing the ultimate unvented hot water solution.

Speak to the team to discuss your requirements and we will advise on the dimensions options to suit the installation.



COMPONENTS

1. Flow c/w Internal Uptake Pipe (1")
2. Flow c/w Baffle (1")
3. 1/2" Female
4. 3kW Immersion (Optional)
5. Return c/w Baffle (1")
6. Drain

KEY BENEFITS

- Buffer store increases the heating system volume, reducing cycling of the heat pump
- Reduced space requirement having single footprint
- Range of buffer vessel sizes to suit customer requirement

Pre-plumb options available

Discover Our Complete Range Of Hot Water Storage Solutions

Thermal Stores

Unvented Cylinders

Elson Replacement Solutions

Open Vented and Combination Cylinders

Commercial Cylinders

Bespoke Design and Manufacture



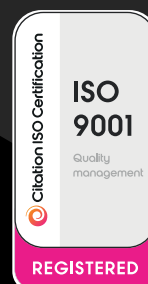
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