
DC Dimplex[®] EC

- Mains pressure hot water for fast filling baths and powerful showers
- Simultaneous supply of water to all bathrooms
- Long life low maintenance hot water supply



Stainless steel unvented cylinders

Mains pressure hot water with full eco-credentials

The EC-Eau™ range of unvented stainless steel cylinders from Dimplex can supply all the hot water required for the modern home, providing rapid fill baths and invigorating showers to en-suite bathrooms and other domestic appliances simultaneously. With both standard unvented indirect and direct models and models designed specifically to work with renewable energy sources, there is an EC-Eau cylinder suitable for every application. Offering low running costs, reliable hot water and fantastic flow rates, EC-Eau cylinders are available in a range of capacities, so there is a size to suit even the most demanding household.



The EC-Eau standard range of cylinders is available either for direct electric heating or with a coil for indirect heating and range from 100 to 300 litres with an external diameter of 580mm. Supplied with an external expansion vessel for improved reliability and reduced cylinder height, EC-Eau standard cylinders are flexible to site and easy to install.

To accommodate renewable energy heating systems Dimplex have developed the EC-Eau range with models specifically designed to operate with either solar thermal systems or heat pumps or both.

EC-Eau heat pump cylinders are specified with large, high surface area heat exchangers, specifically sized to match the requirements of Dimplex heat pumps, optimising heat pump efficiency

and reducing running costs. The solar models feature sizes from 175 to 300 litres with all capacities available in a choice of single or dual coil options, with increased dedicated solar storage to maximise the use of renewable energy.

Environmental sensitivity and efficient performance are key attributes across the EC-Eau range, which boasts 60mm of low GWP insulation foam and innovative measures such as recessed immersions and thermostats to reduce energy wastage. This combined with the use of 100% recyclable stainless steel inner components and a sleek black, hard wearing outer shell manufactured from completely recycled materials ensures the EC-Eau range looks as good as it performs.

EC-Eau cylinders for reliable, high performance hot water –

When you want it, where you need it

Unvented hot water cylinders such as the extensive EC-Eau range from Dimplex, provide efficient and economical, hot water delivery throughout the home. Ensuring mains pressure hot water for fast filling baths, powerful showers and constant water pressure, even when the washing machine is in use.

EC-Eau cylinders can be sited in any suitable location and on any floor of the building offering flexibility in installation as well as plentiful, powerful hot water to multiple points around the building simultaneously.

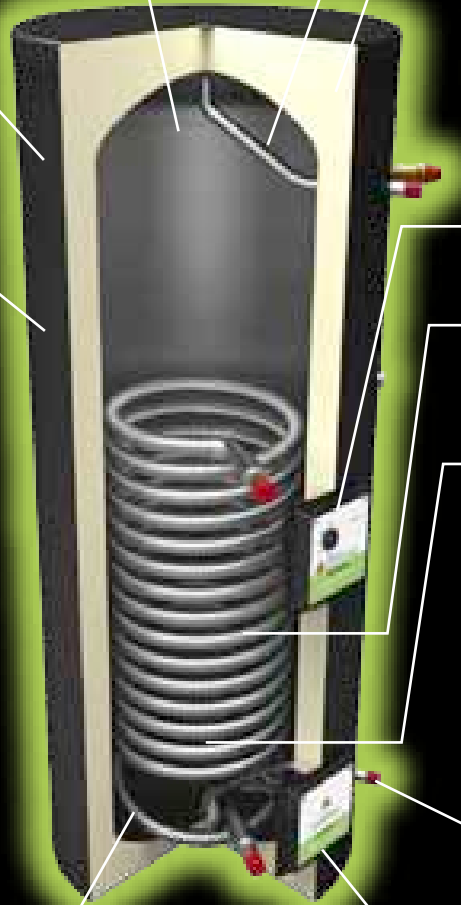
Benefits:

- **Mains pressure hot water**
 - For invigorating showers
- **High flow rates**
 - For quick filling baths and simultaneous supply of water to all bathrooms
- **Fast reheat**
 - For freely available hot water
- **Well insulated**
 - Minimises heat loss and energy consumption/running costs
- **Low maintenance**
 - No hidden costs
- **Duplex stainless steel**
 - Excellent corrosion resistance and long life
 - 100% recyclable
- **A complete package**
 - Just add pipework
- **25 year guarantee**
 - Peace of mind



Sustainable Material

- **Inner vessel manufactured from premium grade Duplex stainless steel:**
 - Lightweight yet ultra high strength and stress/corrosion resistant, ensuring long cylinder life
 - 100% recyclable
 - No need for sacrificial anode
 - 25 year warranty
- **HIPS/ABS outer cladding**
 - Produced from 100% recycled material
 - Hard wearing, flexible and damage resistant
- **CFC/HCFC free injected foam insulation**
- **High proportion of materials (excluding insulation) by volume recycled**



Environmentally Sound Performance

- **Designed for use with renewable sources of heat production – heat pumps and solar thermal systems**
- **Side hot water draw off connection, minimises heat losses through the top of the cylinder**
- **60mm of injected polyurethane foam insulation**
 - Exceeds 'CHESS' best practice standards for low heat loss and heat recovery
 - Completely void free, including insulation around immersions and thermostats
- **Recessed immersion heater and thermostat housings reduces heat loss**
- **Large surface area coil for use with heat pumps**
- **Up to 125l dedicated solar volume (ECS ST models) to maximise use of renewable energy**

Superior Operational Performance

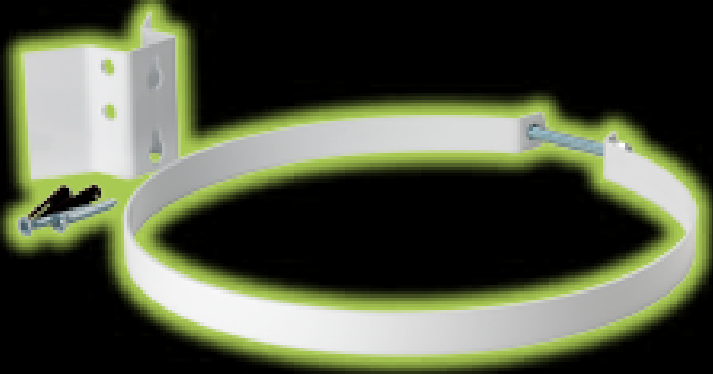
- **High flow rates for efficient hot water delivery**
 - Powerful showers and fast filling baths
- **Corrugated coil construction maximises surface area while maintaining high usable volume**
- **Light and easy to handle for easy installation**
- **Surface mounted thermostats and sensors for easy installation and maintenance/replacement**
- **Supplied complete with inlet safety group and external expansion vessel**
- **All connections accessible from the front**

EC-Eau Heat pump cylinder shown

What's included:

- **Cold Water Inlet Set consisting of:**

- Inline strainer
- PRV (3bar)
- ERV (6bar)
- Non-return valve
- Balanced cold water supply port
- 22mm connection for expansion vessel



Expansion vessel mounting kit

- **Large Surface Area Coil Heat Exchanger**

- **Environmentally Friendly Insulation**

- **External Expansion Vessel, Fixing Kit and Connection Hose**

- **Tundish**

- **Installation and User Instructions**

- **Optional Extras**

- Titanium elements
- 5 year warranty
- Only to be fitted by an authorised contractor



Expansion vessel hose



Thermostat



Tundish



Two port valve



Expansion vessel

EC-Eau is supplied complete with all the fittings required to complete installation

● Indirect Cylinders

- Inlet control set
- Temperature and Pressure relief valve
- Expansion vessel and mounting kit
- Tundish
- 1 x 3kW immersion heater
- Two port valve
- Dual thermostat
- Installation and user instructions

● Direct Cylinders

- Inlet control set
- Temperature and Pressure relief valve
- Tundish
- Expansion vessel and mounting kit
- 2 x 3kW immersion heaters (1 on 100l)
- Installation and user instructions



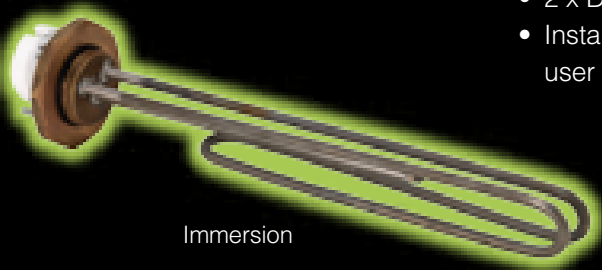
Inlet group

● Indirect Solar Cylinders

- Inlet control set
- Temperature and Pressure relief valve
- Expansion vessel and mounting kit
- Tundish
- 1 x 3kW immersion heater
- Two port valve
- 2 x Dual thermostats
- Installation and user instructions

● Direct Solar Cylinders*

- Inlet control set
- Temperature and Pressure relief valve
- Tundish
- Expansion vessel and mounting kit
- 2 x 3kW immersion heaters (1 on 100l)
- Dual thermostat
- Installation and user instructions



Immersion

● Heat Pump Cylinders

- Inlet control set
- Temperature and Pressure relief valve
- Tundish
- Expansion vessel and mounting kit
- 1 x 3kW immersion heater
- Dual thermostat
- Installation and user instructions



Temperature and pressure valve

*And Solar Heat Pump Cylinder

Specifications

● Materials

- Inner cylinder – Duplex stainless steel
- Outer casing – Black HIPS/ABS (from recycled materials)
- Inlet/outlet – Stainless steel
- Coils – Corrugated stainless steel
- Insulation – 60mm PU foam (GWP=1, ODP = 0)

● Max Operating Conditions

- Potable water temperature – 70°C
- Heating water temperature – 90°C
- Operating pressure – 3bar

● Cold Water Supply

- Minimum dynamic pressure – 1.5 bar
- Maximum pressure – 12 bar
- Minimum flow rate – 15l/min

● Connections

- Cold water inlet – 22mm stainless steel
- Hot water outlet – 22mm stainless steel
- Coil flow/return – 22mm / 28mm stainless steel
- Sensor – surface mounted
- T&P valve – ½" F BSP
- Immersion heater – 1¾" F BSP

● Immersion Heaters

- Indirect (standard and solar) – 1
- Direct (standard and solar) – 2 (1 on 100l standard)
- Heat pump – 1

● Thermostatic control

● Standard Cylinders

- **Indirect**
 - 1 x integrated surface mounted twin thermostat
 - 1 x integrated immersion heater thermostat and thermal cut out
- **Direct**
 - 2 x integrated immersion heater thermostats and thermal cut out (1 on 100l)

● Solar Cylinders

- **Indirect**
 - 2 x integrated surface mounted twin thermostat
 - 1 x integrated immersion heater and thermal cut out
- **Direct**
 - 2 x integrated immersion heater thermostats and thermal cut out
 - 1 x integrated surface mounted twin thermostat

● Solar/Heat Pump Cylinder

- 2 x integrated surface mounted twin thermostat
- 1 x integrated immersion heater and thermal cut out

● Heat Pump Cylinders

- 1 x integrated surface mounted twin thermostat
- 1 x integrated immersion heater and thermal cut out

● Safety Components

- Pressure reducing valve and strainer – 3 bar
- Expansion relief valve – 6 bar
- T&P valve – 7 bar / 90°C
- Factory pressure tests – 12 bar
- Expansion – external

● Approvals

- KIWA

● Guarantee

- Inner cylinder – 25 years
- Immersion heaters – 2 years excluding the effects of limescale
- Other components* – 2 years

*Excluding expansion vessel membrane



EC-Eau indirect and direct

Unvented stainless steel cylinders



- Mains pressure hot water for fast filling baths and powerful showers
- Simultaneous supply of water to all bathrooms
- No cold water storage tank required freeing up valuable living space
- Long life low maintenance hot water supply
- Attractive, hard wearing, easy to clean outer coating
- 60mm of CFC-free foam injected insulation for excellent heat retention – minimising heat loss and energy consumption
- Stainless steel inner cylinder with 25 year guarantee
- Supplied with an expansion vessel and all the necessary safety equipment required by governing legislation