Megaflo Eco unvented cylinders are your first choice for conserving energy while providing superior hot water performance. With a lifetime guarantee* for total peace of mind and made in the UK from high quality duplex stainless steel, Megaflo Eco is unrivalled in delivering high power showering and fast filling baths, even at low pressures. Featuring our internal expansion system and complete with a long life back up immersion heater, installation is quicker and easier too.

**DATA SHEET**

**Megaflo Eco**

**Indirect**

**UNVENTED CYLINDER**

Megaflo Eco unvented cylinders deliver up to 76 litres per minute of hot water at 3 bar pressure. Outstanding hot water performance without the need for shower pumps or tanks, even at low pressures.

**FEATURES**

- Internal expansion with floating baffle
- Insulated T&P valve and 60mm thick cylinder insulation
- High grade duplex stainless steel
- Coil in coil heat exchanger

**BENEFITS**

- Neat appearance, saves space and reduces installation time
- Best possible heat retention and energy efficiency
- High corrosion resistance and high strength to weight ratio
- Maximises the amount of water that can be heated in the quickest time

**MAX FLOW**

76 l/min at 3 bar

**OUTPUT @ 45L/MIN**

26.8-28.9

**NOMINAL CAPACITY**

70-300 Litres

**INSULATION**

60 mm

---

*In domestic installations*
**DATA SHEET**

**Megaflo Eco Indirect**

**UNVENTED CYLINDER**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>70i</th>
<th>125i</th>
<th>145i</th>
<th>170i</th>
<th>210i</th>
<th>250i</th>
<th>300i</th>
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<tr>
<td>Product code</td>
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<td>95050467</td>
<td>95050469</td>
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<tr>
<td>Nominal capacity (litres)</td>
<td>70</td>
<td>125</td>
<td>145</td>
<td>170</td>
<td>210</td>
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<tr>
<td>Internal expansion with floating baffle</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>Insulation thickness (mm)</td>
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<tr>
<td>Immersion heater rating (kW)</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
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<tr>
<td>Weight empty (kg)</td>
<td>25</td>
<td>31</td>
<td>35</td>
<td>39</td>
<td>43</td>
<td>50</td>
<td>58</td>
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<tr>
<td>Weight full (kg)</td>
<td>125</td>
<td>180</td>
<td>204</td>
<td>233</td>
<td>253</td>
<td>300</td>
<td>358</td>
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<tr>
<td>Standing heat loss (kWh/24h)</td>
<td>0.91</td>
<td>1.05</td>
<td>1.18</td>
<td>1.2</td>
<td>1.42</td>
<td>1.61</td>
<td>1.69</td>
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<tr>
<td>Standing heat loss (kWh/year)</td>
<td>332.15</td>
<td>383.25</td>
<td>430.2</td>
<td>438</td>
<td>518.3</td>
<td>587.65</td>
<td>616.85</td>
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<tr>
<td>Max flow at 3 bar (l/min)**</td>
<td>76</td>
<td>76</td>
<td>76</td>
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<td>76</td>
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<tr>
<td>Max flow at 1 bar (l/min)**</td>
<td>45</td>
<td>45</td>
<td>45</td>
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<tr>
<td>Recovery time at 13L/min, 80ºC primary flow, from 15ºC to 60ºC</td>
<td>17</td>
<td>23</td>
<td>24</td>
<td>22</td>
<td>28</td>
<td>34</td>
<td>39</td>
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<tr>
<td>Coil rating 15L/min (kW)</td>
<td>19.8</td>
<td>19.5</td>
<td>20.9</td>
<td>19.4</td>
<td>19.4</td>
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<tr>
<td>Coil rating 30L/min (kW)</td>
<td>23.4</td>
<td>25.1</td>
<td>25</td>
<td>25.1</td>
<td>25.3</td>
<td>24.2</td>
<td>25.4</td>
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<tr>
<td>Coil rating 45L/min (kW)</td>
<td>27.4</td>
<td>27.8</td>
<td>28.8</td>
<td>26.8</td>
<td>26.8</td>
<td>28.9</td>
<td>28.3</td>
</tr>
</tbody>
</table>

**ERP TECHNICAL DATA**

- **Storage volume V in litres @ 3 bar**: 92 137 155 178 195 233 283
- **Standing loss in W**: 38 44 49 50 59 67 70
- **The water heating energy efficiency class of the model**: B B B B B C C
- **The thermostat temperature settings of the water heater, as placed on the market by the supplier**: 60ºC

**TECHNICAL SPECIFICATION**

- **Maximum supply pressure to incoming mains cold water combination valve (supplied)**: 1.6 MPa (16 bar)
- **Minimum recommended supply pressure and flow rate**: 0.15 MPa (1.5 bar) – 20 litres per minute
- **Operating pressure**: 0.3 MPa (3 bar)
- **Inner water container**: High grade duplex stainless steel pressure tested to 15 bar
- **Thermal insulation (nominal thickness 60mm)**: CFC/HFC free, fire retardant expanded polyurethane foam with zero ozone depletion
  - **Global warming potential (GWP)** = 3.1
- **Pressure relief valve**: 0.8 MPa (8 bar)
- **Immersion heater rating (AC supply only)**: 3kW @ 240V
  - 2.8kW @ 230V
- **Connections**: 22mm compression / 3/4”BSP male
- **Domestic Hot Water Expansion**: 15/22mm Tundish
  - Additional thermostat and thermal cut out

**COMPONENTS**

The following components are supplied as standard with Megaflo Eco Indirect

**Immersion(s)**
- Factory fitted immersion heater(s) and thermal controls.
- Long-life superloy 825 alloy sheathed element(s).

**Cold water**
- Cold water inlet control kit comprising of 0.3MPa (3 bar) pressure reducing valve, 0.8MPa (8 bar) pressure relief valve (BS EN 1567, BS EN1491, EN 13959)
  - 1/4 turn isolating valve, line strainer, non-return valve, drain valve with hose connector, nuts and olives

**Safety**
- Factory fitted temperature and pressure relief valve set at 90ºC / 1 Mpa (10 bar) (BS EN 1490) inc. T&P valve insulation kit
  - 15/22mm Turkish Additional thermostat and thermal cut out

**Electrical**
- Wiring centre
  - 22mm 2 port motorised valve

**ACCESSORIES**

Titanium Indirect Control Assembly and Immersion Heater: 95 970 354

For more information 01603 420220 | enquiries@megaflo.com | www.megaflo.com
DIMENSIONS

<table>
<thead>
<tr>
<th>Model</th>
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<th>250i</th>
<th>300i</th>
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<tr>
<td>A. DHW inlet (mm)</td>
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<td>B. Primary coil connections (mm)</td>
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<td>C. Secondary return (mm)</td>
<td>–</td>
<td>709</td>
<td>810</td>
<td>934</td>
<td>1011</td>
<td>1238</td>
<td>1526</td>
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<td>D. T&amp;P relief valve (mm)</td>
<td>495</td>
<td>794</td>
<td>895</td>
<td>1020</td>
<td>1095</td>
<td>1238</td>
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<td>E. Height (mm)</td>
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<td>1102</td>
<td>1229</td>
<td>1384</td>
<td>1486</td>
<td>1738</td>
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<td>F. Depth (mm)</td>
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<td>G. Width (mm)</td>
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<td>H. Sensor pocket (mm)</td>
<td>410</td>
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<tr>
<td>I. Cable entry lower (mm)</td>
<td>275</td>
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</tbody>
</table>
CODES OF PRACTICE/LEGISLATION

EU Directives:
- Pressure Equipment Directive 97/23/EC.
- Low Voltage Directive (LVD) 2014/30/EU.
- RoHS (Restriction of certain Hazardous Substances) Directive 2011/65/EU.

Legislation:
- Building Regulations Part G and Part L (England and Wales).
- Scottish Building Standards Section 4 and Section 6.
- Building Regulations (Northern Ireland) Parts F1 and F2 and Part P.
- Water Supply (Water Fittings) Regulations (England and Wales).
- The Water Byelaws 2004 (Scotland).
- Water Supply (Water Fittings) Regulations (Northern Ireland).

Standards:
- Relevant clauses of the following standards are complied with:
  - EN 12897 – Specification for indirectly heated unvented cylinders.
  - Safety-Particular requirements for storage water heaters.
  - The stainless steel materials used comply with the relevant clauses of:
  - EN 10088 – Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes.

Components supplied comply with the following standards:
- BS EN 1490 Building Valves – Combined Temperature and Pressure Relief Valves.
- BS EN 1491 Building Valves – Expansion Valves.
- BS EN 1567 Building Valves – Water Pressure Reducing Valves and Combination Reducing Valves.
- BS EN 60730-1-2-8 Automatic Electrical Controls – For households and similar use. Part 1: General Requirements.
- BS EN 60730-1-2-8 Automatic Electrical Controls – Particular Requirements for Electrically Operated Water Valves.
- BS EN 13959 Anti-pollution Check Valves.

The use of these water heaters will aid in compliance with:
- Health and Safety Executive Approved Code of Practice L8: The control of legionella bacteria in water systems.
- BS EN 806 Parts 1 to 5: Specification for installations inside buildings conveying water for human consumption.
- BS 8558 Guide to the design, installation, testing and maintenance of services supplying water for domestic use within buildings.
- Chartered Institute of Building Services Engineers Guide B and Guide F.

Manufactured in a factory approved to:
- BS EN ISO 9001
- OHSAS 18001
- ISO 50001
- ISO 14001

Megaflo Eco approvals:
- Kiwa Certification Number: 1608707.
- Nemko Certification Number: P10213136/A6.

For more information
01603 420220 | enquiries@megaflo.com
megaflo.com

Megaflo, Hurricane Way, Norfolk, NR6 6EA

MEGAFLO may introduce modifications to their products from time to time.
Consequently the details given in this data sheet are subject to alteration without notice.

Please recycle this product once you have finished with it.

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