Megaflo Eco SystemFit
Indirect

UNVENTED CYLINDER

Megaflo Eco SystemFit goes one step further than our standard Megaflo Eco by adding factory-fitted plumbing and wiring, making it ready for installation with a heat only boiler – not only saving on installation time but also providing a consistently neater appearance.

FEATURES

- Fully plumbed and wired system components
- 60mm insulation
- Insulated T&P valve
- High grade duplex stainless steel
- Delivers up to 76 litres per minute of hot water at 3 bar pressure

BENEFITS

- Neat appearance, saves space and reduces installation time
- Improves SAP performance
- Improves SAP performance
- High corrosion resistance for long life
- Outstanding hot water performance without the need for shower pumps or tanks, even at low pressures

MAX FLOW

76 l/min at 3 bar

IMMERSION HEATER

3 kW

NOMINAL CAPACITY

125-300 Litres

INSULATION

60 mm
# Megaflo Eco SystemFit Indirect

## UNVENTED CYLINDER

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>125SF</th>
<th>145SF</th>
<th>170SF</th>
<th>210SF</th>
<th>250SF</th>
<th>300SF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>95050450</td>
<td>95050451</td>
<td>95050452</td>
<td>95050453</td>
<td>95050454</td>
<td>95050455</td>
</tr>
<tr>
<td>Nominal capacity (litres)</td>
<td>125</td>
<td>145</td>
<td>170</td>
<td>210</td>
<td>250</td>
<td>300</td>
</tr>
<tr>
<td>Internal expansion with floating baffle</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Insulation thickness (mm)</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Immersion heater rating (No. x 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>
</tr>
<tr>
<td>Weight empty (kg)</td>
<td>43</td>
<td>48</td>
<td>52</td>
<td>55</td>
<td>61</td>
<td>69</td>
</tr>
<tr>
<td>Weight full (kg)</td>
<td>183</td>
<td>203</td>
<td>234</td>
<td>254</td>
<td>297</td>
<td>352</td>
</tr>
<tr>
<td>Standing heat loss (kWh/24h)</td>
<td>1.05</td>
<td>1.18</td>
<td>1.20</td>
<td>1.42</td>
<td>1.61</td>
<td>1.69</td>
</tr>
<tr>
<td>Standing heat loss (kWh/year)</td>
<td>383.25</td>
<td>430.7</td>
<td>348</td>
<td>518.3</td>
<td>587.65</td>
<td>616.85</td>
</tr>
<tr>
<td>Max flow at 3 bar (l/min)**</td>
<td>76</td>
<td>76</td>
<td>76</td>
<td>76</td>
<td>76</td>
<td>76</td>
</tr>
<tr>
<td>Max flow at 1 bar (l/min)**</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
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<tr>
<td>Heat up time at 15l/min, 80°C primary flow (mins) from 15°C to 60°C</td>
<td>23</td>
<td>24</td>
<td>22</td>
<td>28</td>
<td>34</td>
<td>39</td>
</tr>
<tr>
<td>Recovery 70% draw off (mins)</td>
<td>15</td>
<td>17</td>
<td>16</td>
<td>19</td>
<td>23</td>
<td>27</td>
</tr>
</tbody>
</table>

### ERP TECHNICAL DATA

| Storage volume V in litres @ 3 bar | 137 | 155 | 178 | 195 | 233 | 283 |
| Standing loss in W | 50 | 55 | 59 | 65 | 70 | 79 |
| The water heating energy efficiency class of the model | B | B | B | B | C | C |

The thermostat temperature settings of the water heater, as placed on the market by the supplier 60°C

### 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 50mm)**: CFC/HCFC 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 DHW connections
- **Domestic Hot Water Expansion**: Megaflo Eco SystemFit Indirect has an internal air gap with floating baffle, which accommodates hot water expansion. Meaning that there is no need to fit an external expansion vessel.

### COMPONENTS

The following components are supplied as standard with Megaflo Eco SystemFit Indirect

<table>
<thead>
<tr>
<th>Component</th>
<th>Factory fitted</th>
<th>Supplied with product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immersion(s)</td>
<td>Immersion heater(s) and thermal controls. Long-life superloy 825 alloy sheathed element(s).</td>
<td></td>
</tr>
<tr>
<td>Cold water</td>
<td>Cold water inlet kit comprising of 0.3MPa (3 bar) pressure reducing valve 0.8MPa (8 bar) pressure relief valve BS EB 1567, BS EN 1491, (EN 13999). 1/4 turn isolating valve, line strainer, non-return valve, drain valve</td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td>Factory fitted temperature and pressure relief valve set at 90°C / 1 Mpa (10 bar) (BS EN 1490) inc. T&amp;P valve insulation kit 15/22mm Tundish Additional thermostat and thermal cut out</td>
<td></td>
</tr>
<tr>
<td>Electrical</td>
<td>Wiring centre 22mm 2 port motorised valve</td>
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</tbody>
</table>
### DIMENSIONS

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<tr>
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<tbody>
<tr>
<td>A</td>
<td>709</td>
<td>810</td>
<td>934</td>
<td>1011</td>
<td>1238</td>
<td>1526</td>
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<tr>
<td>B</td>
<td>794</td>
<td>895</td>
<td>1020</td>
<td>1095</td>
<td>1323</td>
<td>1574</td>
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<td>C</td>
<td>1102</td>
<td>1229</td>
<td>1384</td>
<td>1486</td>
<td>1738</td>
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<td>D</td>
<td>720</td>
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<tr>
<td>E</td>
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<tr>
<td>F</td>
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<tr>
<td>G</td>
<td>275</td>
<td>275</td>
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</tr>
</tbody>
</table>

### ACCESSORIES

Titanium Indirect Control Assembly and Immersion Heater 95 970 554

For more information 01603 420220 | enquiries@megaflo.com | www.megaflo.com
CODES OF PRACTICE/LEGISLATION

EU Directives:
- Pressure Equipment Directive 97/23/EC.
- Low Voltage Directive (LVD) 2014/30/EU.
- RoHS 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 Automatic Electrical Controls – For households and similar use. Part 1: General Requirements.
- BS EN 60730-2-8 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 14001
- ISO 50001

Megaflo Eco SystemFit approvals:
- Kiwa Certification Number: 1608714.
- Nemko Certification Number: P10213136/A6.