



BY HEATRAESADIA



DATA SHEET

Megaflo Eco Solar Direct

UNVENTED CYLINDER

Our Megaflo Eco Solar provides an abundance of hot water for fast filling baths and invigorating powerful showers without the need for pumps or tanks, while running costs are kept to a minimum by harnessing the sun's energy when used in conjunction with a separately available solar thermal flat plate collector or an evacuated tube package. Proudly made in the UK from high grade duplex stainless steel to combat even the most aggressive water conditions, Megaflo assures to provide total peace of mind.

| | | | |
|--------------------------------|-------------------|--------------------------|-----------------|
| 76 l/min at 3 bar | 2x3 kW | 170-300 Litres | 60 mm |
| MAX FLOW | IMMERSION HEATERS | NOMINAL CAPACITY | INSULATION |



FEATURES

- 60mm insulation
- Insulated T&P valve
- High grade duplex stainless steel
- Megaflo Eco delivers up to 76 litres per minute of hot water at 3 bar pressure
- Titanium elements
- High performance solar coil

BENEFITS

- Best possible heat retention and energy efficiency
- Reduces heat loss for better energy efficiency
- High corrosion resistance and a high strength to weight ratio
- Outstanding hot water performance without the need for shower pumps, even at low pressures
- The highest quality elements, specially designed to combat even the most aggressive or corrosive water conditions
- Maximising harnessed energy

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SPECIFICATIONS

| Model | 170D | 210DD | 260DD | 300DD |
|--|----------|----------|----------|----------|
| Product code | 95050527 | 95050512 | 95050528 | 95050516 |
| Nominal capacity (litres) | 170 | 210 | 260 | 300 |
| Insulation thickness (mm) | 60 | 60 | 60 | 60 |
| Immersion heater rating (No. x kW) | 1 x 3 | 2 x 3 | 2 x 3 | 2 x 3 |
| Weight empty (kg) | 37.8 | 42.5 | 47.3 | 61.5 |
| Weight full (kg) | 207.8 | 252.5 | 307.3 | 361.5 |
| Standing heat loss (kWh/24h) | 1.25 | 1.41 | 1.63 | 1.84 |
| Standing heat loss (kWh/year) | 456.25 | 514.65 | 594.95 | 671.6 |
| Max flow at 3.5 bar (l/min) | 76 | 76 | 76 | 76 |
| Max flow at 1 bar (l/min) | 45 | 45 | 45 | 45 |
| Heat up time direct at 45K (mins) using lower element only (3kW) | 126 | 150 | 178 | 220 |

ERP TECHNICAL DATA

| | | | | |
|--|------|-------|-------|-------|
| Storage volume V in litres @ 3 bar | 120 | 140 | 170 | 200 |
| Mixed water at 40°C V40 in litres | 141 | 208 | 271 | 309.3 |
| The declared load profile | L | XL | XL | XL |
| The water heating energy efficiency class of the model | C | C | C | C |
| The water heating energy efficiency in % | 38.6 | 38.6 | 38.3 | 38.2 |
| The annual electricity consumption in kWh | 2651 | 4338 | 4377 | 4386 |
| The daily electricity consumption in kWh | 12.2 | 19.96 | 20.19 | 20.24 |
| 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 60mm) | CFC/HCFC free, fire retardant expanded polyurethane foam with zero ozone depletion Global warming potential (GWP) = 3.1 |
| DHW Pressure relief valve | 0.8 MPa (8 bar) |
| Immersion heater rating (AC supply only) | 3kW @ 240V 2.8kW @ 230V |
| Solar/Auxiliary coil hydraulic resistance @ 15 l/min | 0.0002 MPa (0.002 bar) |
| Connections | 22mm compression / 3/4" BSP male Secondary return 1/2" BSP female connection |
| Domestic Hot Water Expansion | Comes complete with 24 litre remote expansion vessel and bracket |

COMPONENTS

The following components are supplied as standard with Megaflo Eco Solar Direct

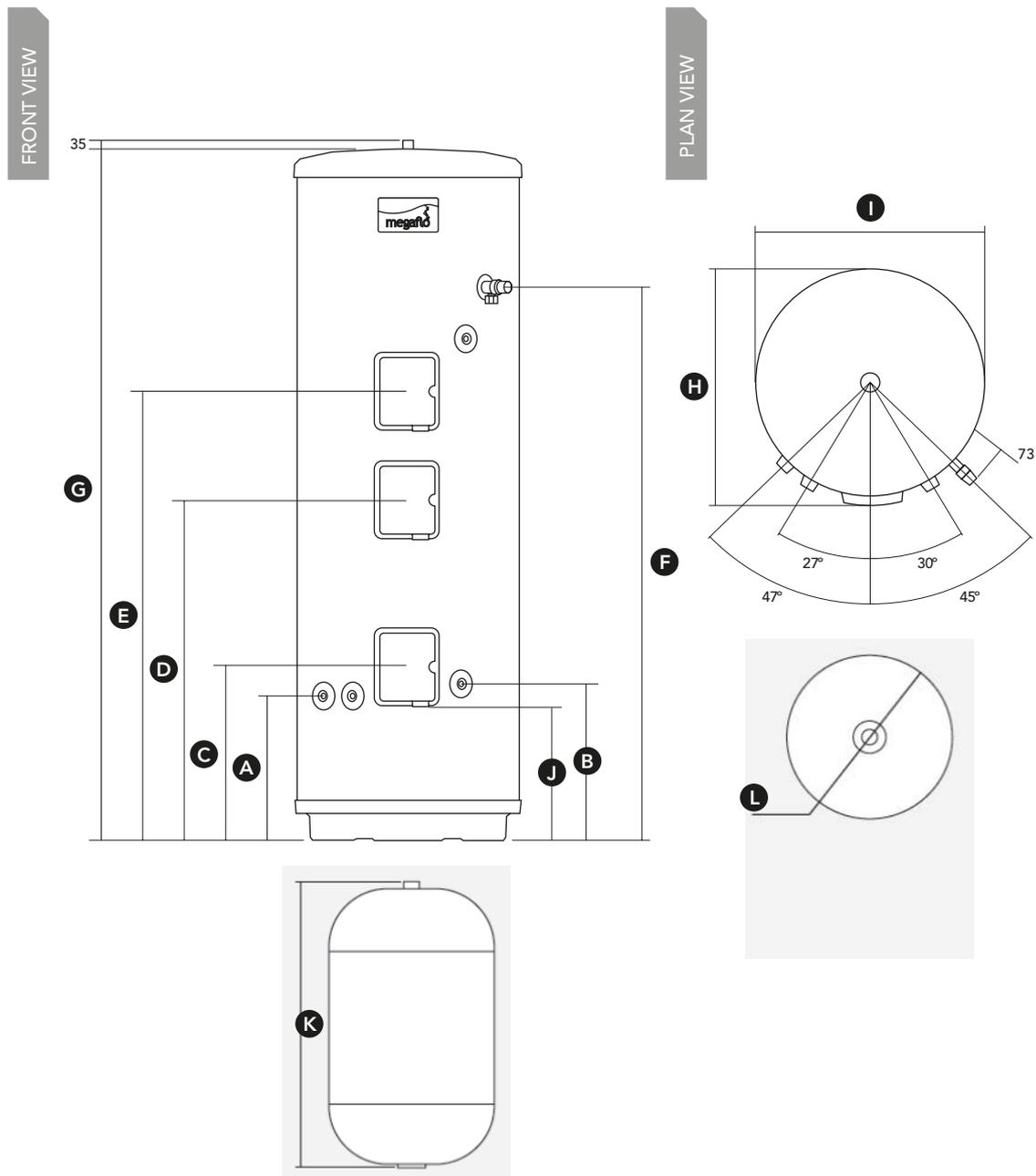
| | |
|--------------|---|
| Immersion(s) | Factory fitted immersion heater(s) and thermal controls. Titanium elements. |
| Cold water | Cold water inlet control kit comprising of 0.3MPa (3 bar) pressure reducing valve 0.8MPa (8 bar) pressure relief valve (BS EB 1567, BS EN 1491, EN 13959) 1/4 turn isolating valve, line strainer, non-return valve, drain valve |
| Safety | Factory fitted temperature and pressure relief valve set at 90°C / 1 Mpa (10 bar) (BS EN 1490) inc. T&P valve insulation kit 22mm Tundish, Solar control thermal cut out 24 litre DHW expansion vessel with brackets |

A range of solar collectors and accessories are available through Heatrae Sadia, visit heatraesadia.com for further details.

For more information 0344 871 1535 | www.megaflo.com

DIMENSIONS

| Model | 170D | 210DD | 260DD | 300DD |
|---|------|-------|-------|-------|
| A Primary coil connections (mm) | 373 | 373 | 373 | 373 |
| B Inlet (mm) | 454 | 454 | 454 | 454 |
| C Solar control housing (mm) | 795 | 932 | 995 | 1289 |
| D Back up element control housing (mm) | 794 | 829 | 888 | 983 |
| E Auxiliary element control housing (mm) | - | 1103 | 1167 | 1444 |
| F T&P valve (mm) | 925 | 1184 | 1441 | 1693 |
| G Height (mm) | 1229 | 1489 | 1802 | 2053 |
| H Depth (mm) | 600 | 600 | 600 | 600 |
| I Width (mm) | 579 | 579 | 579 | 579 |
| J Cable entry lower (mm) | 275 | 275 | 275 | 275 |
| K Portable water expansion vessel height (mm) | 492 | 492 | 492 | 492 |
| L Portable water expansion vessel diameter (mm) | 280 | 280 | 280 | 280 |





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CODES OF PRACTICE/LEGISLATION

EU Directives:

- Pressure Equipment Directive 97/23/EC.
- Low Voltage Directive (LVD) 2014/30/EU.
- RoHS Directive 2011/65/EU.
- Electromagnetic Compatibility (EMC) Directive 2014/35/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 6144 Specification for Expansion Vessels Using An Internal Diaphragm For Unvented Water Supply Systems.
- 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 50001
- ISO 14001

Megaflo Eco Solar approvals:

- Kiwa Certification Number: 1608707.



For more information 0344 871 1535 | megaflo.com



Part of



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HEATRAESADIA

MAIN HEATING

POTTERTON COMMERCIAL

Residential and commercial heating and hot water solutions

Baxi Heating UK Limited is registered in England and Wales with company number 03879156 and registered office address Brooks House, Coventry Road, Warwick, CV34 4LL. VAT registration number is 604665837

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

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