



BY HEATRAESADIA



DATA SHEET

Megaflo Eco SolaReady Indirect

UNVENTED CYLINDER

Megaflo Eco SolarReady takes the complexity out of installation by having all the necessary solar thermal components factory fitted and prewired to the cylinder. Not only can it produce unrivaled high performance showering and fast filling baths without the need for pumps or tanks; it provides an exceptionally neat installation and saves time too. Simply connect to either flat plate solar collectors or evacuated tubes to enjoy the sun's free energy. Proudly made in the UK with a life time guarantee* for total peace of mind.

76
l/min
at 3 bar

MAX FLOW

3
kW

IMMERSION BACK UP

250-300
Litres

NOMINAL CAPACITY

60
mm

INSULATION



FEATURES

Factory fitted solar components

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

BENEFITS

Simple, time saving & neat installation

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 or tanks, even at low pressures

*In domestic installations

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SPECIFICATIONS

Model	250i	300i
Product code	95050503	95050507
Nominal capacity (litres)	250	300
Insulation thickness (mm)	60	60
Immersion heater rating (No. x kW)	1 x 3	1 x 3
Weight empty (kg)	56.5	66.5
Weight full (kg)	306.5	366.5
Standing heat loss (kWh/24h)	1.56	1.84
Standing heat loss (kWh/year)	569.4	671.6
Max flow at 3.5 bar (l/min)	76	76
Max flow at 1 bar (l/min)	45	45
Heat up time direct at 45K (mins) using lower element only (3kW)	24.5	22.5

ERP TECHNICAL DATA

Storage volume V in litres @ 3 bar	250	300
The water heating energy efficiency class of the model	C	C
Standing loss (W)	80	88
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	0.35 MPa (3.5 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
Pressure relief valve	0.8 MPa (8 bar)
Solar primary pressure relief valve	0.6 MPa (6 bar)
Immersion heater rating (AC supply only)	3kW @ 240V 2.8kW @ 230V
Auxiliary coil hydraulic resistance @ 15 l/min	0.0002 MPa (0.002 bar)
Connections	22mm compression Secondary return ½" BSP female connection

COMPONENTS

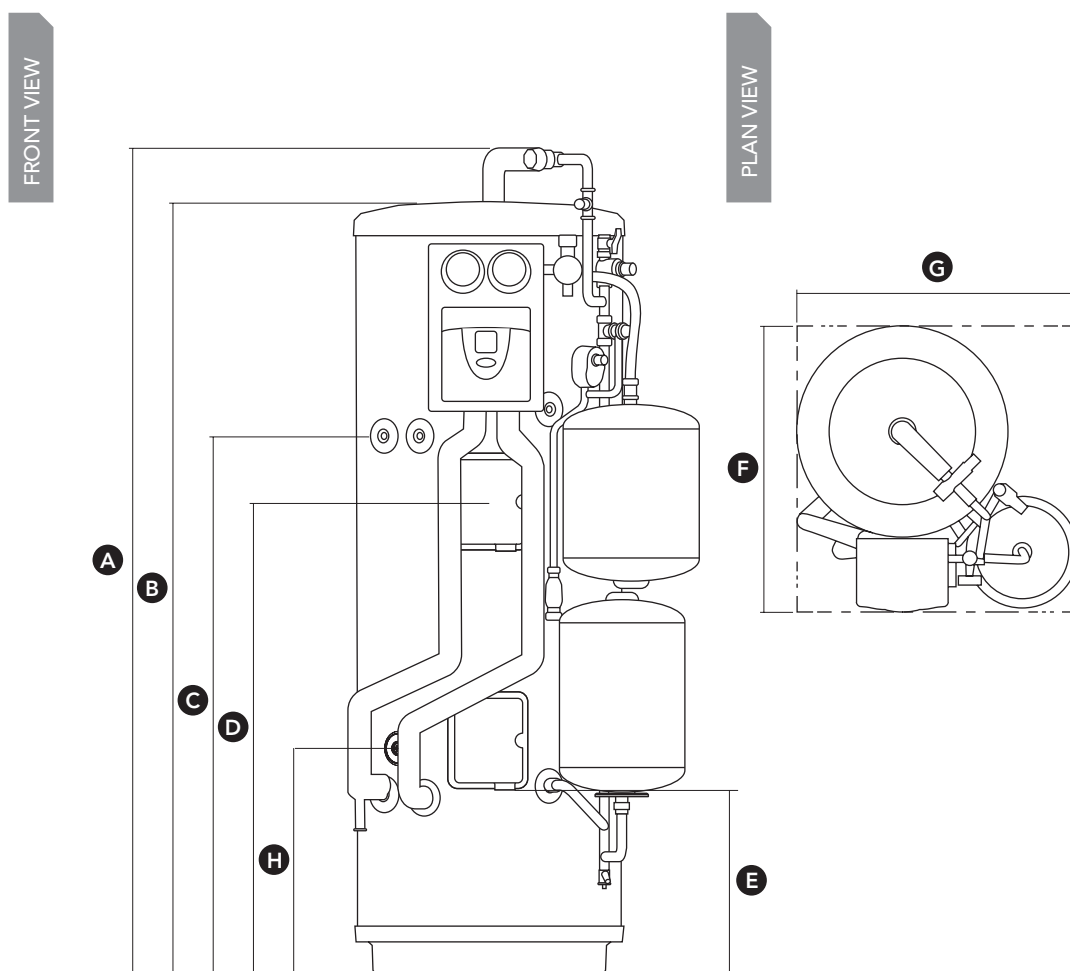
The following components are supplied as standard with Megaflo Eco SolaReady Indirect

Immersion(s)	Factory fitted immersion heater(s) and thermal controls
Cold water	Cold water inlet control kit comprising of: 0.35MPa (3.5 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 15/22mm Tundish 24 litre solar circuit expansion vessel with connection pipe 24 litre domestic hot water expansion vessel and bracket Positioning handles Thermostatic blending valve Relay
Electrical	Megaflo solar pump station comprising of: Solar primary circuit circulating pump, Air separator, Flow and return temperature gauges, Flow and return combined isolating/check valves, Solar primary pressure relief valve 0.6 Mpa (6 bar)/ Solar differential temperature controller, Flowmeter Wiring centre 22mm 2 port motorised valve

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

DIMENSIONS

Model	250i	300i
A Height (overall) (mm)	1845	2160
B Height mm (cylinder) (mm)	1734	2048
C Secondary return (mm)	1142	1438
D Element control housing (mm)	1068	1255
E Cable entry lower (mm)	275	275
F Depth (mm)	780	780
G Width (mm)	770	770
H Sensor pocket (mm)	410	410





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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 14001
- ISO 50001

Megaflo Eco SolaReady approvals:

- Kiwa Certification Number: 1608714.
- Nemko Certification Number: P10213136/A6.



For more information
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Please recycle this product once you have finished with it

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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.