



BY HEATRAESADIA



DATA SHEET

# Megaflo Eco Solar PV Ready Direct

## UNVENTED CYLINDER

The Megaflo Eco Solar PV Ready takes the energy harvested by PV panels on the roof and transfers it directly to the cylinder delivering free hot water.

Operating on any PV array, with the panels wired straight into the cylinder, it requires no roof work or additional training to install<sup>†</sup> and the pre-wired controller reduces installation time quickly and effectively.

<sup>†</sup>No training in addition to Hot Water Unvented Storage Systems (G3) is required.

<b>72</b> l/min at 3 bar	<b>2x</b> <b>3kW</b>	<b>210-300</b> Litres	<b>60</b> mm
MAX FLOW	IMMERSION HEATERS	NOMINAL CAPACITY	INSULATION



### FEATURES

- Fully wired Solar iBoost control
- Wireless communication
- High grade duplex stainless steel
- High performance insulation
- Megaflo combination valve delivering up to 72l/min at 3 bar

### BENEFITS

- No special wiring required, easy to install
- For ease of positioning
- High corrosion resistance and a high strength to weight ratio
- Reduces heat loss for better energy efficiency
- Outstanding performance

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### SPECIFICATIONS

Model	210DD	250DD	300DD
Product code	95050354	95050355	95050356
Nominal capacity (litres)	210	250	300
Internal expansion with floating baffle	√	√	√
Insulation thickness (mm)	60	60	60
Immersion heater rating (kW)	2 x 3	2 x 3	2 x 3
Weight empty (kg)	44	49	57
Weight full (kg)	243	285	340
Standing heat loss (kWh/24h)	1.42	1.61	1.69
Standing heat loss (kWh/year)	518.3	587.65	616.85
Max flow at 3 bar (l/min)**	70	70	70
Max flow at 1 bar (l/min)**	40	40	40
1st hour performance at 45K (l/hr)†	324	364	414
Continuous performance at 45K (l/hr)†	114	114	114
Heat up time direct at 45K (mins)†	102	121	146

\*At primary flow temperature 80°C. \*\*MCWS static pressure. †Calculated using nominal capacities and recovery using maximum electrical input.

Electric output from immersion heaters will be limited by the maximum peak output from the PV panels connected when the PV input to the Megaflo Eco Solar PV Ready is being provided.

### ERP TECHNICAL DATA

Storage volume V in litres @ 3 bar	199	236	283
Mixed water at 40°C V40 in litres	241	307	359
The declared load profile L	L	XL	XL
The water heating energy efficiency class of the model	C	C	C
The water heating energy efficiency in %	37.5	37.8	37.7
The annual electricity consumption in kWh	2731	3513	4443
The daily electricity consumption in kWh	12.670	20.480	20.580
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 16 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)
Immersion heater rating (AC supply only)	3kW @ 240V 2.8kW @ 230V
Connections	22mm compression
Domestic Hot Water Expansion	Megaflo Eco Solar PV Ready 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 Solar PV Ready Direct

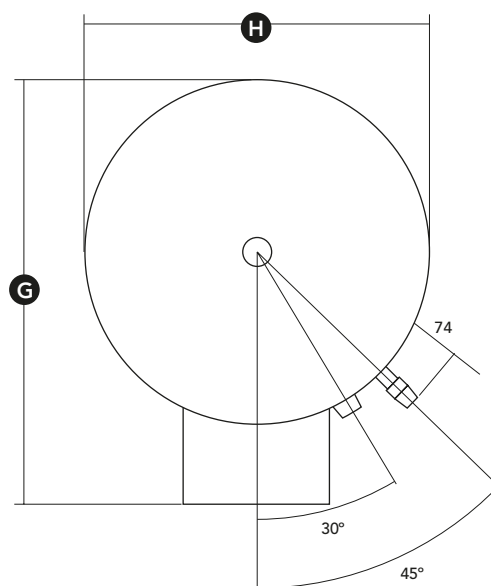
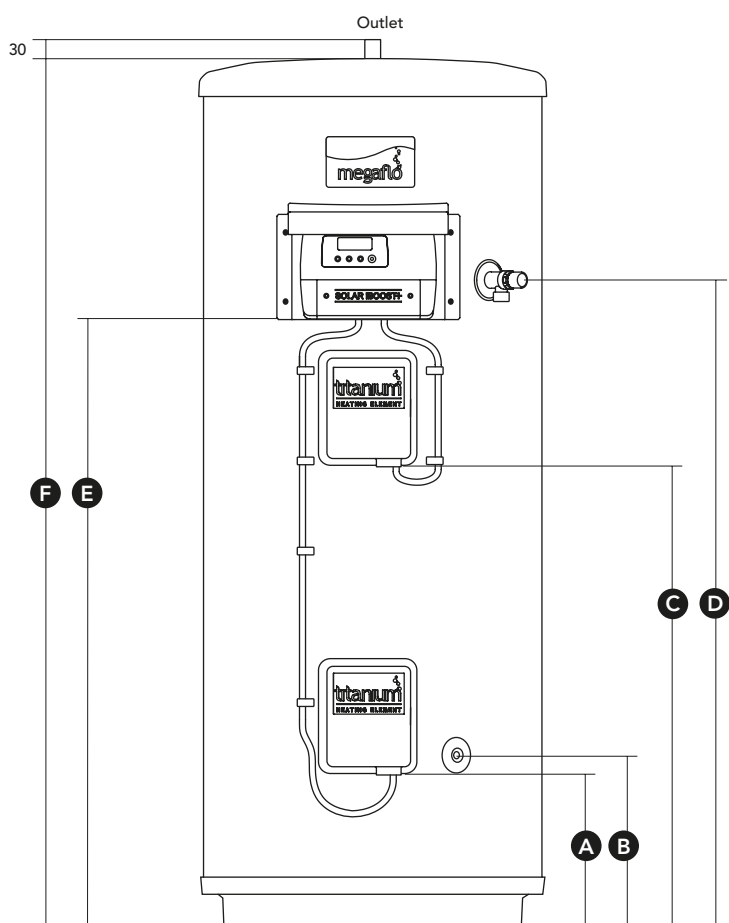
Immersion(s)	Factory fitted immersion heater(s) and thermal controls. Titanium element(s) as standard
Cold water	Cold water inlet control kit comprising of 0.3MPa (3 bar) pressure reducing valve 0.8MPa (8 bar) pressure relief valve (BS EB 1567, BS EN 1491, EN 13959) 1/4 turn isolating valve, line strainer, 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 15/22mm Tundish
Controls	Solar iBoost Control (pre-wired), Clamp, Sender, Buddy remote display and control

## DIMENSIONS

Model	210DD	250DD	300DD
A Cable entry lower (mm)	275	275	275
B DHW inlet (mm)	307	307	307
C Heater 1 control (mm)	801	1008	1312
D T&P relief valve (mm)	1095	1322	1574
E Solar PV control (mm)	1052	744	744
F Height (mm)	1485	1736	2051
G Depth (mm)	714	714	714
H Width (mm)	579	579	579

FRONT VIEW

PLAN VIEW



## ACCESSORIES

Swept Tee for Direct Secondary Return

94 970 033



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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.
- EN 60335-2-21 - 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.
- EN 50440:2106 - Efficiency of Domestic Electric Storage Water Heaters and Training Methods.

#### 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:

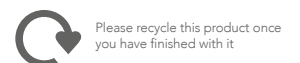
- BS EN ISO 9001
- OHSAS 18001
- ISO 50001
- ISO 14001

#### Megaflo Eco approvals:

- Kiwa Certification Number: 1608707.



For more information 0344 871 1535 | [megaflo.com](http://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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