



BY HEATRAESADIA



DATA SHEET

Megaflo Eco SystemReady Indirect

UNVENTED CYLINDER

With market-leading minimal heat loss figures, heat-up and recovery times, the Megaflo Eco SystemReady provides all the same benefits as our Megaflo Eco SystemFit by adding factory-fitted plumbing and wiring, but is designed to be installed with a system boiler - not only saving on installation time but also providing a consistently neater appearance.

76
litres per
min

FLOW AT
3 BAR

60
mm

INSULATION

125-300
litre

NOMINAL
CAPACITY

3
kW

BACK UP
IMMERSION HEATER



FEATURES

Fully plumbed and wired system components

60mm insulation and 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

Neat appearance, space saving, reduces installation time and is compatible with most system boilers

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

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SPECIFICATIONS

Model	125SB	145SB	170SB	210SB	250SB	300SB
Product code	95050497	95050498	95050499	95050500	95050501	95050502
Nominal capacity (litres)	125	145	170	210	250	300
Internal expansion with floating baffle	√	√	√	√	√	√
Insulation thickness (mm)	60	60	60	60	60	60
Immersion heater rating (kW)	1 x 3	1 x 3	1 x 3	1 x 3	1 x 3	1x3
Weight empty (kg)	39	44	48	51	57	65
Weight full (kg)	179	199	230	250	293	348
Standing heat loss (kWh/24h)	1.05	1.18	1.20	1.42	1.61	1.69
Standing heat loss (kWh/year)	383.3	430.7	438.0	518.3	587.7	616.9
Max flow at 3 bar (l/min)**	76	76	76	76	76	76
Max flow at 1 bar (l/min)**	45	45	45	45	45	45
Heat up time at 15l/min, 80°C primary flow (mins) from 15°C to 60°C	23	24	22	28	34	39
Recovery 70% draw off (mins)	15	17	16	19	23	27

ERP TECHNICAL DATA

Storage volume V in litres @ 3 bar	125	145	170	210	250	300
The water heating energy efficiency class of the model	B	B	B	B	C	C
Standing loss (W)	50	55	59	65	70	79
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
Pressure relief valve	0.8 MPa (8 bar)
Immersion heater rating (AC supply only)	3kW @ 240V 2.8kW @ 230V
Connections	22mm male connections
Domestic Hot Water Expansion	Megaflo Eco SystemReady 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

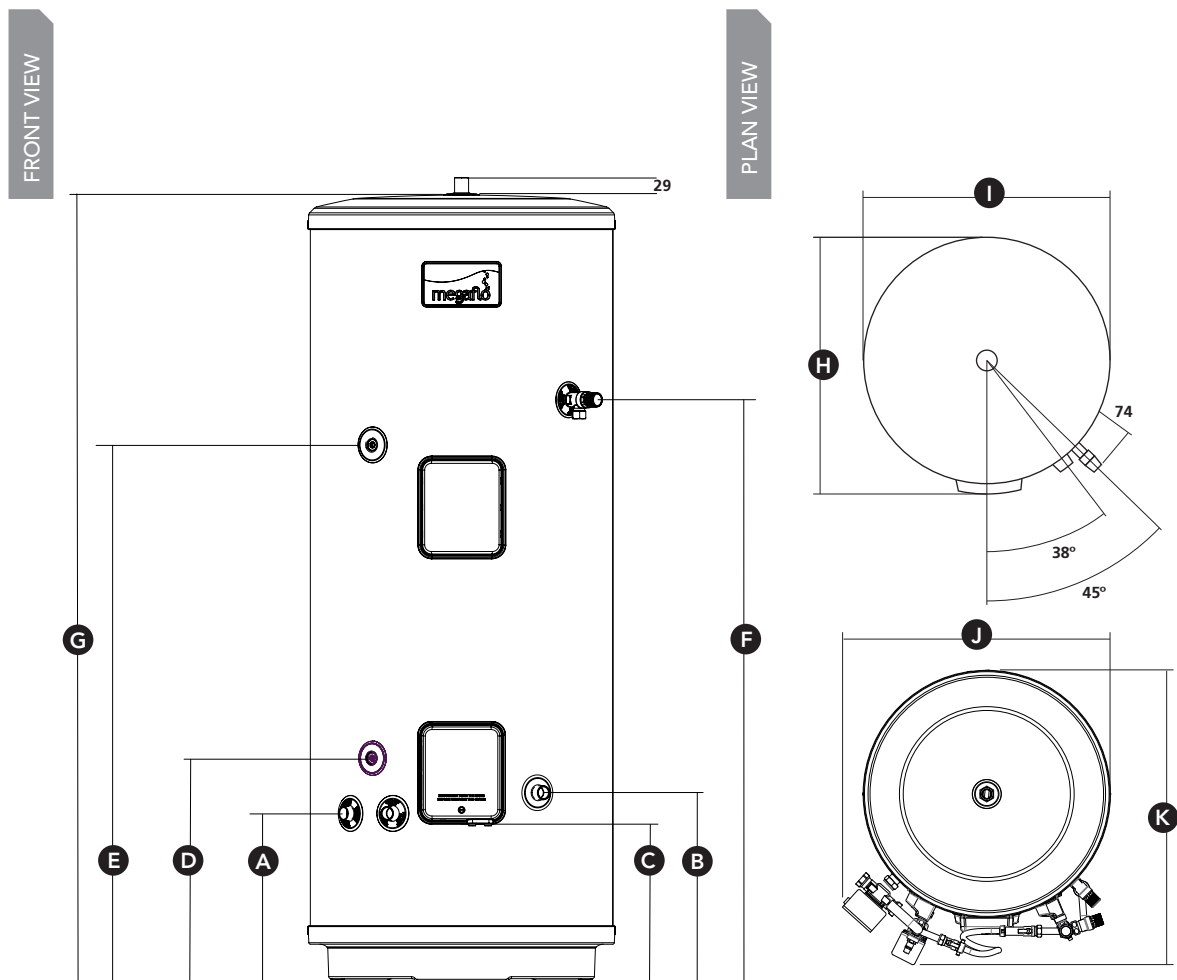
The following components are supplied as standard with Megaflo Eco SystemReady Indirect

	Factory fitted	Supplied with product
Immersion(s)	Immersion heater(s) and thermal controls.	
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	
Electrical	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	125SB	145SB	170SB	210SB	250SB	300SB
A Primary return (mm)	316	316	316	316	316	316
B Cold inlet (mm)	355	355	355	355	355	355
C Cable entry lower (mm)	310	310	310	310	310	310
D Sensor pocket (mm)	410	410	410	410	410	410
E Secondary return (mm)	709	810	934	1011	1238	1526
F T&P relief valve (mm)	794	895	1020	1095	1323	1574
G Height (mm)	1102	1229	1384	1486	1738	2053
H Depth (mm)	710	710	710	710	710	710
I Width (mm)	579	579	579	579	579	579
J Minimum width requirement (mm)	690	690	690	690	690	690
K Minimum depth requirement (mm)	710	710	710	710	710	710





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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 60335-1 Safety-Particular requirements for storage water heaters.
- EN 60335-2 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 Slimline approvals:

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



For more information
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 megaflo.com



Please recycle this product once you have finished with it

Issue 2 2017

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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.