

## DATA SHEET

# Megaflo Eco SystemFit Indirect

## UNVENTED CYLINDER

Our 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 reducing installation time but also providing a consistently neater appearance.

<b>76</b> l/min at 3 bar	<b>3</b> kW	<b>125-300</b> Litres	<b>60</b> mm
MAX FLOW	IMMERSION HEATER	NOMINAL CAPACITY	INSULATION



### 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, reduces installation time and is compatible with most heat only boilers

Improves SAP performance

High corrosion resistance for better efficiency

Outstanding hot water performance without the need for shower pumps or tanks, even at low pressures

# Megaflo Eco SystemFit Indirect

## UNVENTED CYLINDER

### SPECIFICATIONS

Model	125SF	145SF	170SF	210SF	250SF	300SF
Product code	95050450	95050451	95050452	95050453	95050454	95050455
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 (No. x kW)	1 x 3	1 x 3	1 x 3	1 x 3	1 x 3	1 x 3
Weight empty (kg)	43	48	52	55	61	69
Weight full (kg)	183	203	234	254	297	352
Standing heat loss (kWh/24h)	1.05	1.18	1.20	1.42	1.61	1.69
Standing heat loss (kWh/year)	383.25	430.7	348	518.3	587.65	616.85
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	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 Primary flow and return 22mm o/dia pipe.
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

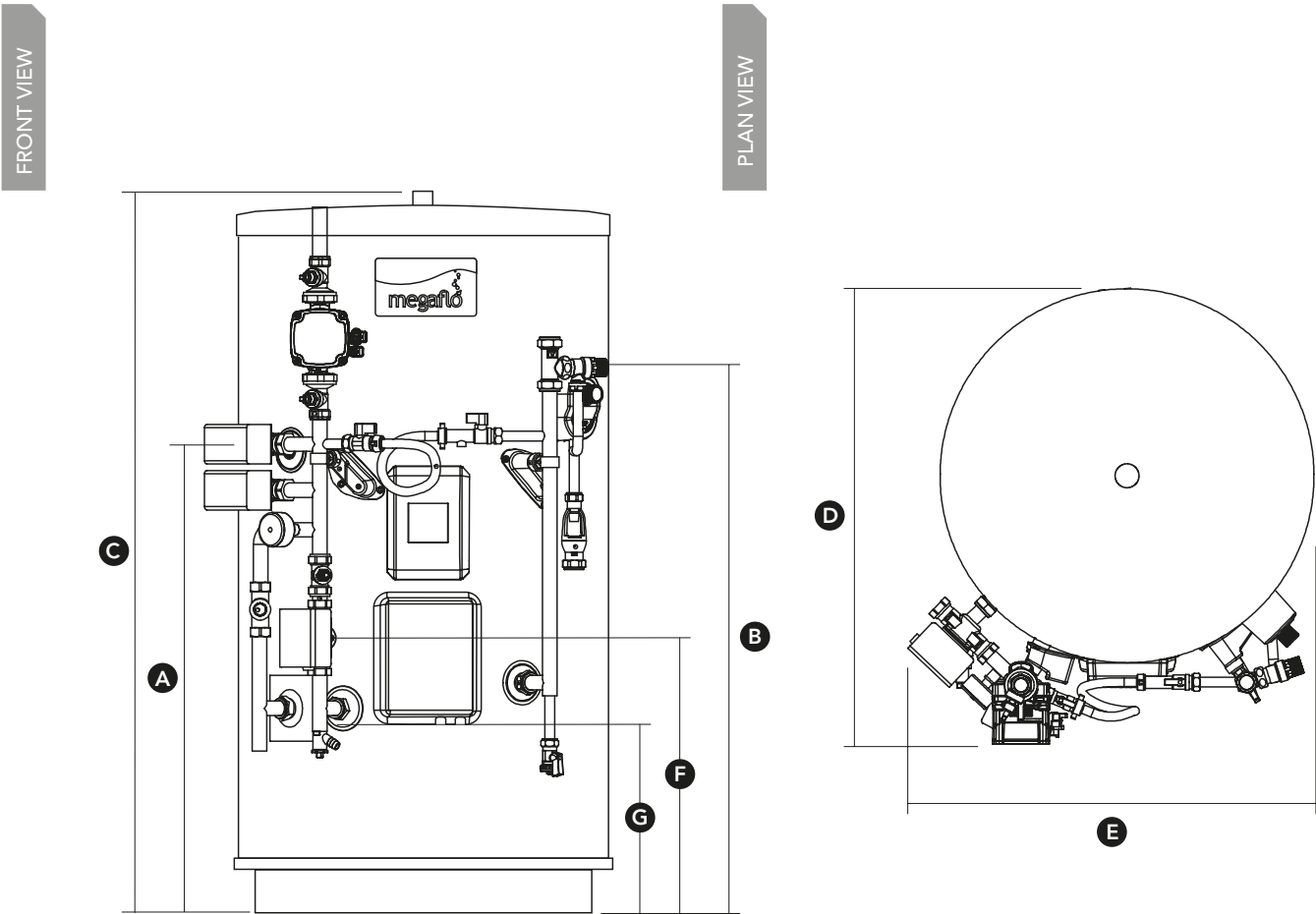
### COMPONENTS

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

	Factory fitted	Supplied with product
Immersion(s)	Immersion heater(s) and thermal controls. Long-life superloy 825 alloy sheathed element(s).	
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 Additional thermostat and thermal cut out	
Electrical	Wiring centre 22mm 2 port motorised valve	

DIMENSIONS

Model	125SF	145SF	170SF	210SF	250SF	300SF
A Secondary return (mm)	709	810	934	1011	1238	1526
B T&P relief valve (mm)	794	895	1020	1095	1323	1574
C Height (mm)	1102	1229	1384	1486	1738	2053
D Depth (mm)	720	720	720	720	720	720
E Width (mm)	630	630	630	630	630	630
F Sensor pocket (mm)	410	410	410	410	410	410
G Cable entry lower (mm)	275	275	275	275	275	275



ACCESSORIES



BY **HEATRAESADIA**



DATA SHEET

# Megaflo Eco SystemFit Indirect

## UNVENTED CYLINDER

### 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 SystemFit approvals:

- Kiwa Certification Number: 1608714.



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



Please recycle this product once you have finished with it

Part of



**BAXI**

**remeha**



**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.

Issue 4 - April 2025