



BY HEATRAESADIA



DATA SHEET

# MegaFlo Eco Slimline Direct

## UNVENTED CYLINDER

Complete with the tried and tested internal expansion system, MegaFlo Eco Slimline offers a number of features that place it well ahead of the competition on performance, quality and reliability.

<b>70</b> l/min at 3 bar	<b>491</b> mm	<b>100-200</b> Litres	<b>50</b> mm
MAX FLOW	CYLINDER DIAMETER	NOMINAL CAPACITY	INSULATION



### FEATURES

Internal expansion with floating baffle

Slimline cylinder

Titanium elements

Insulated T&P valve

High grade duplex stainless steel

MegaFlo combination valve delivering up to 70l/min at 3 bar

### BENEFITS

Saves space and reduces installation time

Smaller footprint fits in tight airing cupboards or through loft hatches

Longer lasting and durable elements suitable for hard water areas

Reduces heat loss for better energy efficiency

High corrosion resistance and a high strength to weight ratio

Outstanding performance

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### SPECIFICATIONS

Model	D100	DD125	DD150	DD170	DD200
Product code	7034082	7034083	7034084	7034085	7034086
Nominal capacity (litres)	100	125	150	170	200
Internal expansion with floating baffle	√	√	√	√	√
Insulation thickness (mm)	50	50	50	50	50
Immersion heater rating (No. x kW)	1 x 3	2 x 3	2 x 3	2 x 3	2 x 3
Weight empty (kg)	27	33	37	42	44
Weight full (kg)	130	162	186	218	240
Standing heat loss (kWh/24h)	1.13	1.38	1.46	1.72	1.88
Standing heat loss (kWh/year)	412	504	533	628	686
Max flow at 3 bar (l/min)	70	70	70	70	70
Max flow at 1 bar (l/min)	40	40	40	40	40
Heat up time direct at 45K (mins) using lower element only (3kW)	109	129	148	175	218

### ERP TECHNICAL DATA

Storage volume V in litres @ 3 bar	103	129	149	176	196
Mixed water at 40°C V40 in litres	113	149	178	218	247
The declared load profile	M	L	L	L	XL
The water heating energy efficiency class of the model	B	C	C	C	C
The water heating energy efficiency in %	39.1	37.8	37.6	37.5	38
The annual electricity consumption in kWh	1313	2706	2723	2727	4412
The daily electricity consumption in kWh	6.02	12.52	12.62	12.65	20.4
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 male connections
Domestic Hot Water Expansion	Megaflo Eco Slimline 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 Slimline Direct

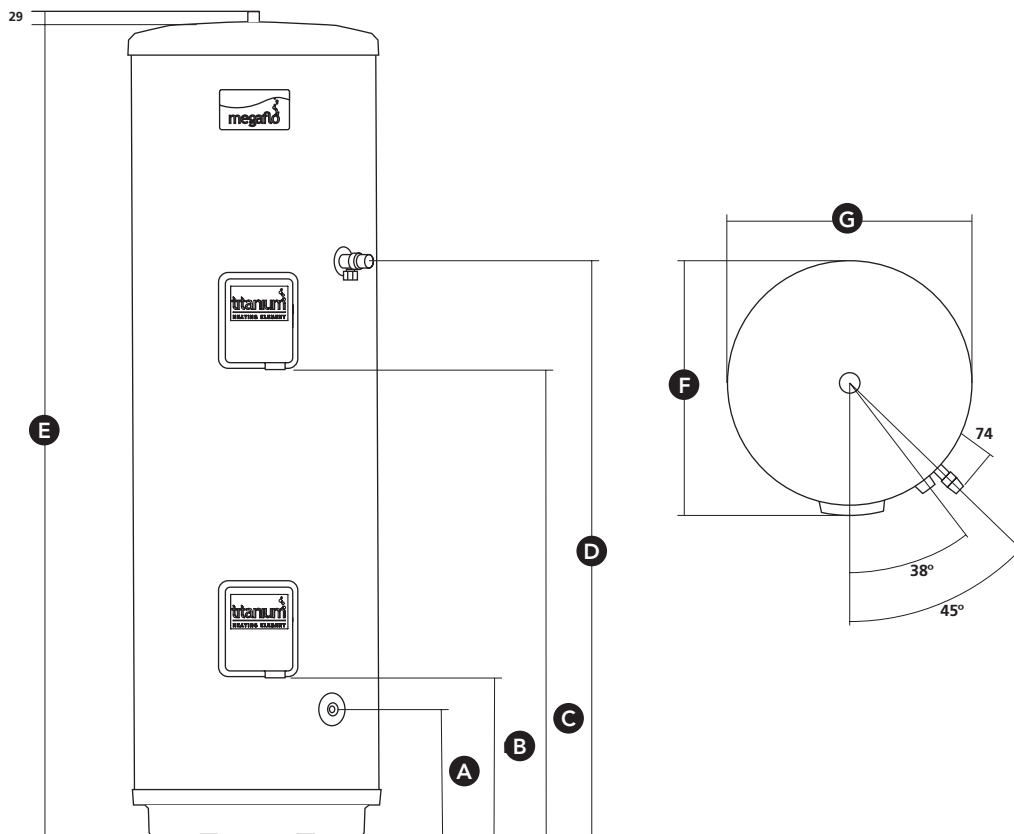
Immersion(s)	Factory fitted immersion heater(s) and thermal controls. Titanium elements as standard
Cold water	Cold water inlet control kit comprising of 0.3MPa (3 bar) pressure reducing valve 0.8MPa (8 bar) pressure relief valve (BS EB 1567, BS EN 1491, EN 13959) 1/4 turn isolating valve, line strainer, 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

## DIMENSIONS

Model	D100	DD125	DD150	DD170	DD200
A DHW inlet (mm)	239	239	239	239	239
B Cable entry lower (mm)	277	277	277	277	277
C Cable entry upper (mm)	-	795	932	995	1289
D T&P relief valve (mm)	729	970	1123	1361	1535
E Height (mm)	1194	1440	1622	1883	2079
F Depth (mm)	516	516	516	516	516
G Width (mm)	491	491	491	491	491

FRONT VIEW

PLAN VIEW





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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.

#### 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
- ISO 50001
- OHSAS 18001
- ISO 14001

#### Megaflo Eco Slimline approvals:

- Kiwa Certification Number: 1607706.
- Nemko Certification Number: P16221161.



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.