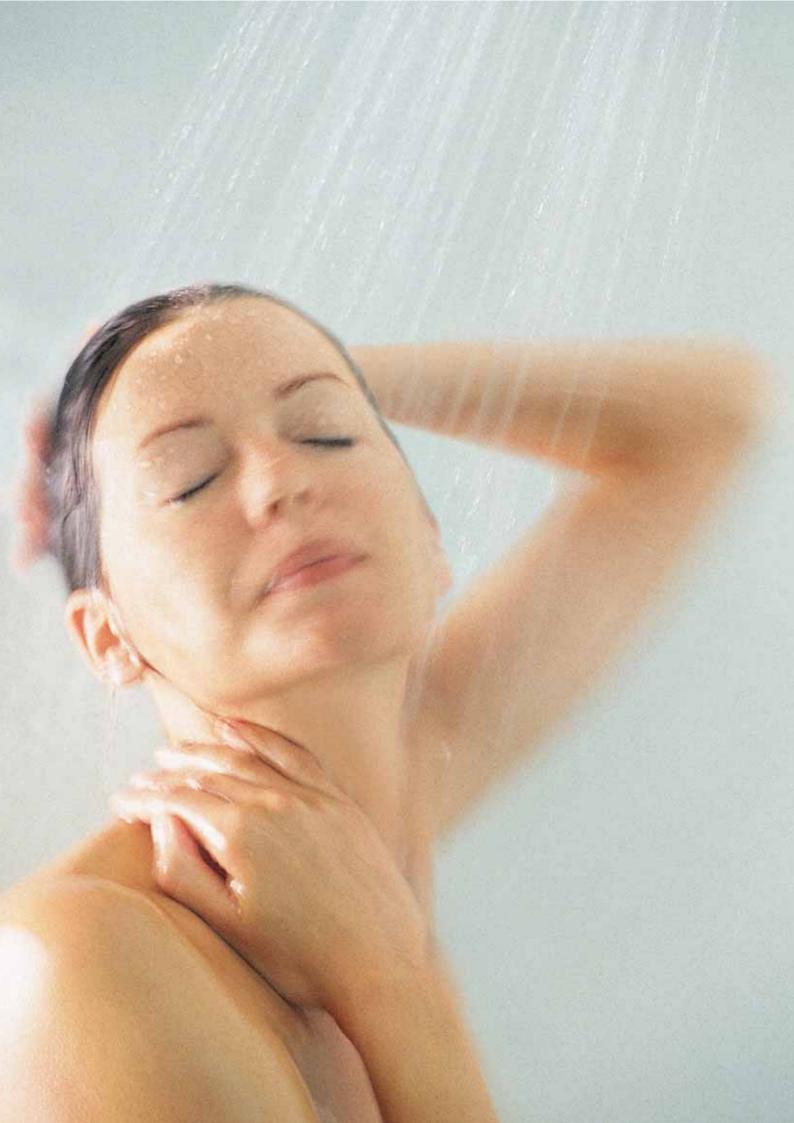


Unvented water heating

Megaflo HE | Megaflo HE SystemFit





Megaflo HE UNVENTED WATER HEATING

Nothing quite matches the warm welcome offered to you by the outstanding range of unvented water heating systems from Heatrae Sadia.

Megaflo HE units are designed and manufactured to a very high quality using the latest manufacturing techniques. They boast numerous innovative features designed to ensure high levels of operating efficiency.

High performance 'coil in coil' heat exchanger

Exceeds CHeSS* Best Practice for recovery times and insulation

Improved insulation for maximum heat retention

New water inlet controls increase flow rates by up to 35%

Improved performance at low pressures down to 1 bar Installer friendly design

In addition to the advantages of unvented systems Megaflo HE offers a number of features that place it well ahead of the competition in terms of performance, quality and reliability.

So, whether it's for the home environment, the workplace or demanding applications such as sports and health club shower rooms, there's a model to suit your needs.

Powerful mains pressure showering

Faster filling baths

Constructed in Duplex stainless steel for maximum strength - pressure tested to 15 bar

Patented internal floating baffle system to accommodate water expansion

No anode - eliminates costly anode maintenance

CFC/HCFC-free (ODP zero) foam injected insulation for maximum heat retention

Unique 'L-shaped' long-life Superloy immersion heater reaches deeper into the tank giving more hot water

Smart and attractive appliance-like finish designed with the home owner in mind

Patented cold water inlet diffuser minimises mixing of cold and hot water

25 year transferable cylinder guarantee**





^{*} Energy Efficiency Partnership: Central Heating System Specifications. **Guarantee applies to UK installations only.

Megaflo HE UNVENTED WATER HEATING

Duplex stainless steel offers a superior resistance to corrosion especially in aggressive water areas, compared with copper, glass-lined steel and some grades of stainless steel. Because Duplex is a low carbon, high chromium content alloy, it resists all forms of corrosion including pitting, crevice corrosion, uniform corrosion and stress corrosion cracking, without the use of a sacrificial anode. In addition, the tungsten inert gas welding coupled with the special post weld processes ensures the same level of corrosion resistance and mechanical strength as the parent metal. This ensures the longest possible working life for every cylinder.

The combination of its lightweight and very strong construction makes Megaflo HE easier to handle on site. Every unit is pressure tested in the factory to 15 bar - five times the normal operating pressure - making Megaflo HE suitable for all domestic and commercial applications.

No sacrificial anode is required with Megaflo HE. With inferior grades of stainless steel, glass lined steel and copper, sacrificial anodes are required to achieve a degree of corrosion resistance. However they require regular replacement which, if not carried out can result in premature cylinder failure. Megaflo HE overcomes any need for this by using top quality Duplex stainless steel.

Specification comparison to a copper unit with air gap						
	Megaflo	Copper				
Maximum working pressure	10.0 bar	4.5 bar*				
Operating pressure	3.0 bar	2.1 bar*				
Material	Duplex	Copper				
	Stainless Steel					

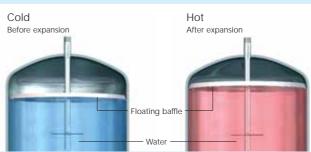
Internal expansion system with Megaflo HE. Expanded water is accommodated within the cylinder using an internal air gap maintained by a patented floating baffle.

This baffle floats on the surface of the water within the cylinder to maintain the integrity of the air gap.

The internal air gap and floating baffle system allows for a compact self contained unit which eliminates the need for an external expansion vessel and allows for a quicker and simplified installation.

Megaflo HE meets the BBA internal expansion volume endurance test with no reduction in operating pressure or flow rates.





High output ratings 15.4kW to 24.5kW

More efficient transfer of energy

Fast heat recovery

Positioned low in the cylinder to achieve more usable hot water

Promotes boiler efficiency

- especially condensing types
- significantly reduces cycling time

The patented cold water inlet diffuser reduces turbulence to minimise the mixing of cold and hot water.

Minimal heat loss A 50mm thick void-free layer of highperformance polyurethane foam fills the space between the inner vessel and outer casing for maximum insulation efficiency.

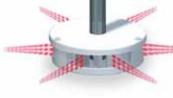
Megaflo HE's carefully moulded one-piece insulation cannot separate in transit to ensure that its effectiveness is maintained, unlike other designs, which rely on the butt jointing of sheet materials.

The base is fully insulated and the unit stands on three moulded feet to minimise heat losses to the supporting floor. Immersion heaters and controls are fully integrated - no large external bosses to radiate heat.

Megaflo HE is guaranteed a long operational life and with no anode to inspect or replace maintenance costs are reduced.

All Megaflo HE units are backed by our 25-year transferable cylinder guarantee as part of Heatrae Sadia's 'fit and forget' product programme.





Cold water inlet diffuser

Coil in coil heat exchanger



New Megaflo HE has been designed to facilitate a trouble-free installation.

Compact and rounded in design, with all connections accessible at the front of the unit. Megaflo HE's lightweight construction means it's easy to handle and convenient to site almost anywhere in the home.

Integral wiring centre for controls

Strong feet for additional stability

All plumbing connections are colour coded and accessible at the front of the cylinder

Lightweight construction

Megaflo HE base moulding with integral hand grips Detachable lifting handle





Megaflo HE is supplied complete with:

 $^{3}\mbox{/}4\,^{\prime\prime}$ BSP threaded connections and 22mm compression nuts and olives

HiFlo cold water valve set complete with integral isolating valve

- Increased flow rates by up to 35%
- Improved performance at low pressures down to 1 bar

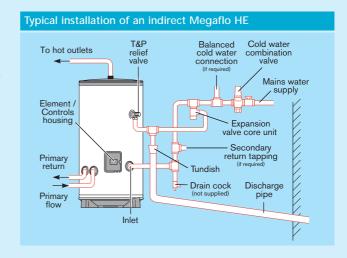
15mm x 22mm tundish

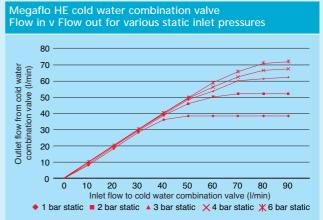
Factory fitted 15mm Temperature and Pressure Relief Valve

Expansion relief valve - 8 bar factory setting

Pressure reducing valve - 3 bar factory setting







Installer training CITB approved courses are available nationwide for operative training. For further details of such courses, contact Heatrae Sadia on Tel: 01603 420220.

Performance and specification Whether you're at home, at work or at your local sports centre, it's good to know that when it's needed Megaflo HE is more than capable of meeting your requirements.



Megaflo HE's pressure and flow rate performance will exceed those available from comparable vented systems, thermal store units, multi-point instantaneous gas heaters or combination boilers. It offers flexibility in cylinder siting as it can be positioned in any convenient location that allows a suitable routing of the discharge pipe from its safety valve. It should not be installed in areas that are subject to freezing.

Megaflo HE unvented water systems deliver hot water at flow rates up to 72 litres/min and offer one of the most rapid heat-up and recovery rates available, making it ideally suited to a wide variety of applications. Available in seven capacities, ranging from 70 to 300 litres, in both direct and indirect systems, there is a model to suit every environment.

Whatever the need, Megaflo HE is the natural choice. From starter homes through to commercial and light industrial users, Megaflo HE is the perfect solution.

Which unit to use								
Application	Indirect	Direct						
Bedsit	CL70HE	D70HE						
1 bed 1 bath & shower	CL125HE	DD125/DD145HE						
2 bed 1 bath & shower	CL125HE	DD145/DD170HE						
3 bed 1 bath & shower	CL145HE	DD210HE						
4 bed 1 bath & shower	CL170HE	DD210HE						
4/5 bed 2 bath & shower	CL210HE	DD250HE						
4/5 bed 3 bath & shower	CL250HE	DD300HE						
Light commercial usage†	CL250HE	DDD250/DDD300HE						
Other commercial uses [†]	CL300HE	DDD250/DDD300HE						

Figures are for guidance only and are based on BS 6700 recommendations.

= One element DD = Two elements DDD^{\dagger} = Three elements

= Indirect with one element supplied

For additional immersion heater with thermostat, please order: Upper 'straight' 95:970:510

Note: Heatrae Sadia's Specification Advice team should be contacted to discuss requirements and designs for specific sites.

	Bottom	Тор
1 x 3kW	1	n/a
2 x 3kW	1	1
3 x 3kW	2	1
3 x 3kW	3	0
4 x 3kW	3	1
1 x 3kW	1	n/a
2 x 3kW	1	1
	2 x 3kW 3 x 3kW 3 x 3kW 4 x 3kW 1 x 3kW	1 x 3kW 1 2 x 3kW 1 3 x 3kW 2 3 x 3kW 3 4 x 3kW 3 1 x 3kW 1

High usage applications When it comes to meeting the needs of demanding applications, e.g. rugby club shower rooms, two or more Megaflo HE units can be installed in parallel.

Detailed specifications and designs, including comprehensive plumbing information, are available by contacting our Specifier Advice Team on Tel: 01603 420220 or by Fax: 01603 420229.

Examples of installations using	nits in parallel	
Application	Indirect	Direct
Nursing home (27 beds)		3 x DDD250HE
Student accommodation (18 showers)	2 x CL300HE	
Sports club (13 showers)	6 x CL210HE (2 x 3)	
Rugby club (max. 80 showers per hour)		6 x DDD300HE (2 x 3)
House (5 bed + 5 bath)	2 x CL250HE	
Bar with food servery (300 persons)	3 x CL300HE	
Hotel (8 bed + 6 bath)	2 x CL300HE	
Guest house (4 baths + 3 showers)	3 x CL145HE	



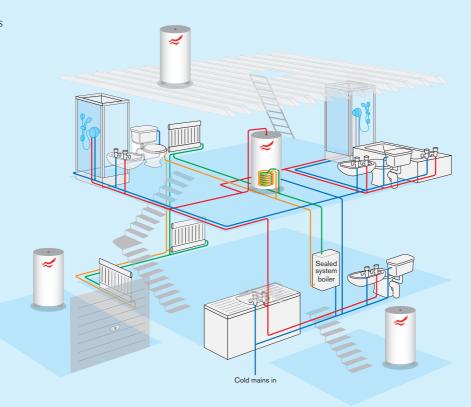
Illustration showing two Megaflo HE units in parallel for high usage applications. Photograph for illustrative purposes only - bespoke pipework required for specific applications

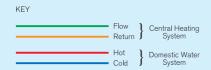


[†] DDD cylinders are supplied with three elements and a blanking plug which can be fitted as required to 4 bosses, one at the boost position and three near the base of the unit. This gives a choice of heating options dependent on application. CL210HE, CL250HE and CL300HE have boost upper element boss blanked off.

†† additional element option on CL210HE, CL250HE and CL300HE models only.

^{*} When fitted with additional immersion heater 95:970:510.





Megaflo	HE syste	em bene	fits
End User	Specifier/	Installer	
	Developer		Higher flow rates for efficient but water delivery
_			Higher flow rates for efficient hot water delivery
_			High performance showering - throughout the home
_			Fast-filling baths
			Quieter mains pressure system (no noisy cistern in the loft)
			Balanced water pressure - no surprises
			Patented cold water inlet diffuser minimises mixing of cold and hot water
			Exceeds CHeSS* Best Practice for heat recovery
			Fast recovery rates (eg. 15 minutes for CL125 unit)
			CFC/HCFC free (ODP zero) insulation for maximum heat retention
			No fear of frozen loft pipes**
			No anode to check or replace
			Mains fed hygienic hot water
			Appliance quality, easy-clean finish
			Long-life Duplex stainless steel interior
			25-year transferable cylinder guarantee
			Patented internal expansion system
			Meets BBA Internal Expansion Volume Endurance Test
			No external expansion vessel
			Complete with mains water isolating valve
			Flexibility in cylinder siting**
			Dry roof space increases design options***
			Cost effective installer friendly connections
			No reduction in operating pressure or flow rates
			Supplied with safety and hot water controls
			No cold feed cistern to install for the hot water supply
			Neater and quicker installation
			Easy to commission
			No costly shower pump to install
			Lightweight, installer friendly design
			Stronger construction for durability and high pressure performance
			All units fully factory tested to ensure reliability
			Fully indemnified design service. Conditions apply

Energy Efficiency Partnership: Central Heating System Specifications.
 Assumes sealed system boiler with Megaflo in frost free position.
 Assumes no loft conversion.

Megaflo HE THE INSIDE STORY



Unique internal air gap system

- Internal air gap to accommodate expanded water
- 2 Patented floating baffle maintains the air gap

Stainless steel construction

- 22mm compression / 3/4" BSP hot water outlet
- Cylinder manufactured from top grade Duplex 2304 stainless steel specially selected for its high strength and resistance to stress and crevice corrosion
- 22mm compression / 3/4" BSP cold water inlet
- Integral feet
- 22mm compression / 3/4" BSP primary flow
- 22mm compression / 3/4" BSP primary return
- Primary heating coil for use with indirect systems (CL models only)
- 10 Patented cold water diffuser

Appliance-quality finish

- 11 White plastic-coated corrosion proofed outer case with grey moulded top and bottom covers and electrical housings for neat and attractive finish
- 12 Grommets on indirect pipework for professional finish

High performance

- 13 Totally insulated with 100% CFCfree (ODP zero) Polyurethane to minimise heat loss (50mm thick)
- 14 Wide choice of products from 70 litre to 300 litre
- 15 Long-life 3kW Superloy 825 immersion heater

Safety controls

- 16 1/2" Temperature and Pressure Relief Valve, operating at 90°C/10 bar
- 17 Indirect thermal controls (CL models)

In built quality

Megaflo units are manufactured in the UK in a BS EN ISO 9001:2000 registered factory. All Megaflo units are fully BBA, WRAS and CE approved with full BEAB approval on all electrical components. Copies of certificates are available on request.



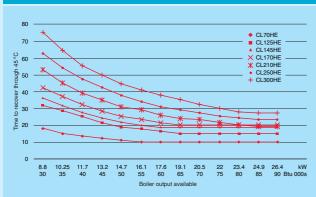
Megaflo HE performance								
Nominal Capacity litre	Recovery Model CL (Indirect) minutes	Heat up Direct 3kW (Model D) minutes	Heat up Direct 6kW (Model DD) minutes	Heat up Direct 9kW (Model DDD) minutes	Boost Heat top element (DD & DDD) minutes	Heat loss in 24 hrs. kWh		
70	10	87	N/A	N/A	N/A	1.14		
125	15	137	69	N/A	66	1.70		
145	18	153	77	N/A	72	1.92		
170	20	181	91	N/A	79	2.08		
210	19	199	100	67	85	2.30		
250	23	238	119	79	92	2.45		
300	27	287	144	96	97	2.72		

CL are indirect models with one electrical element. CL210HE, CL250HE and CL300HE have additional boost upper element boss blanked off, additional immersion heater available.

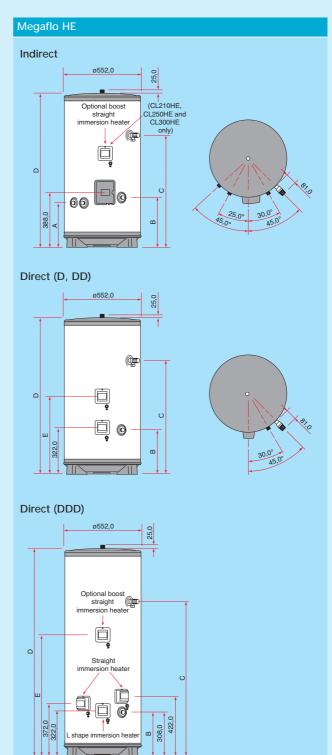
Element loading options						
Model		Lower	Upper			
D	1 x 3kW	1	N/A			
DD	2 x 3kW	1	1			
DDD	3 x 3kW	2	1			
DDD	3 x 3kW	3	0			
DDD*	4 x 3kW	3	1			
CL	1 x 3kW	1	N/A			
CL*	2 x 3kW	1	1			

^{*} With extra element option (CL210HE, CL250HE, CL300HE and DDD models)

Recovery times for CL models with various boiler outputs (based on 70% recovery)



Dimensions					
Model	А	В	С	D	Е
D70	N/A	308	494	784	N/A
CL70	315	354	494	784	N/A
D125	N/A	308	793	1090	541
CL125	315	354	793	1090	N/A
D145	N/A	308	894	1215	642
CL145	315	354	894	1215	N/A
D170	N/A	308	1019	1372	767
CL170	315	354	1019	1372	N/A
D210	N/A	308	1095	1474	861
CL210	315	354	1095	1474	861
D250	N/A	308	1322	1726	1071
CL250	315	354	1322	1726	1071
D300	N/A	308	1573	2040	1375
CL300	315	354	1573	2040	1375



Specification 70/125/145/170/210/250/300

Nominal capacities 70, 125, 145, 170, 210, 250 and 300 litre.

Rating Immersion heater/s 3kW @ 240V. Up to four can be fitted dependent on model

Outer casing White plastic coated corrosion proofed steel

Thermal insulation CFC/HCFC-free (ODP zero) flame-retardant expanded polyurethane (50mm thick)

Water container Duplex 2304 (Grade 1.4362 EN 10088) stainless steel with internal air-gap system.

Pressure testing To 15 bar.

Heat unit Long-life Superloy 825 alloy sheathed element/s, incorporated into an easily removable heater plate, should replacement be necessary. Rated 3.0kW @ 240V.

Primary coil 22mm diameter stainless steel

Thermostat Direct models: Element thermostat adjustable from 10°C to 70°C.

Indirect models: Factory-fitted cylinder thermostat adjustable to 70°C

Factory fitted safety features Direct models: Manually re-settable cut-out on heating t operates at 85°C. Indirect models: High limit thermal cut-out operates at 85°C. Wired in series with two-port motorised valve (supplied) to provide primary over temperature protection. All models: Temperature and Pressure Relief Valve, factory set to operate at 10 bar and 90°C.

Anode Not required.

Approvals BBA, BEAB, CE and WRAS approved. Manufactured in the UK in a BS EN ISO 9001:2000 registered factory.









Installation

Must be installed by a competent installer in accordance with Local Regulations. England and Wales - Building Regulations G3, Scotland - Technical Standards P3 N. Ireland - Building Regulations P5.

Fixing For floor mounting.

Plumbing Inlet/outlet: 3/4" BSP male parallel and 22mm compression fittings supplied. Indirect coil: 3/4" BSP male parallel and 22mm compression fittings supplied. 1/2" T&P Relief Valve: 15mm compression outlet supplied.

Cold water control 22mm HiFlo cold water valve assembly comprising 3 bar pressure reducer, 1/4 turn isolating ball valve, line strainer, non-return valve and expansion valve

Cold water control valve (3 bar) is supplied for use with mains pressure of 20 bar to 1.5 bar, at the lower pressure, performance will be reduced accordingly. Normal working pressure is 3 bar.

Water expansion Via air gap built into the top of the cylinder. The patented floating baffle maintains the air gap

Flow rates Up to 72 litres per minute (depending on adequate supply conditions).

Minimum water supply requirements 20 litres per minute flow and 1.5 bar pressure. (At lesser values, the unit will operate but outlet flow rates may be unacceptable, especially with multiple draw-offs). Please contact our Specification Advice Team to discuss specific site conditions if the above minimum requirement cannot be met.

Secondary circulation Via 22 x 15 x 22mm swept tee (not supplied, available as accessory 95:970:509).

Fitted to inlet pipework (circulating pump not supplied).

Compatible boilers Gas, electric or oil fired - sealed system or open vent type, fitted with integral control thermostat and thermal cut-out

Tundish 15mm inlet and 22mm compression outlet.

Electrical Connection is direct to terminals in the immersion heater which must be permanently connected to the supply through a double-pole linked isolating switch with a minimum breaking capacity of 13A.

On indirect models, controls should be wired to the boiler, programmer etc. in accordance with the control scheme being used. All electrical installations must conform to the latest IEE Wiring Regulations

Guarantee

The Megaflo HE Duplex stainless steel vessel carries a 25-year transferable guarantee against faulty manufacture or materials provided that

- · It has been correctly installed as per the instructions contained in the instruction manual and all relevant Codes of Practice and Regulations in force at the time of installation.
- · It has not been modified in any way, other than by Heatrae Sadia Heating
- The damage is not due to scaling or frost.
- · It has only been used for the storage of potable water.
- · It has not been tampered with or been subjected to misuse or neglect
- · Within 60 days of installation the user completes and returns the certificate supplied along with the proof of purchase to register the product.

The Megaflo HE immersion heater and thermal controls are guaranteed for a period of two years from the date of purchase. Evidence of purchase and date of supply must be submitted. The unit is not guaranteed against damage due to scaling or frost. The guarantee is transferable. This guarantee does not affect your statutory rights.

Ordering guide								
Megaflo	Nominal Capacity litre	Element Rating @ 240V kW	Coil Rating kW	Wei empty kg	ght full kg	Product code		
D70HE	70	1 x 3		23	123	95:050:360		
CL70HE	70	1 x 3	15.4	25	125	95:050:361		
DD125HE	125	2 x 3		25	174	95:050:362		
CL125HE	125	1 x 3	18.3	27	176	95:050:363		
DD145HE	145	2 x 3		31	200	95:050:364		
CL145HE	145	1 x 3	17.7	35	204	95:050:365		
DD170HE	170	2 x 3		34	228	95:050:366		
CL170HE	170	1 x 3	18.7	39	233	95:050:367		
DD210HE	210	2 x 3		38	248	95:050:368		
DDD210HE	210	3 x 3		39	249	95:050:380		
CL210HE	210	1 x 3	24.3	43	253	95:050:369		
DD250HE	250	2 x 3		45	295	95:050:370		
DDD250HE	250	3 x 3		46	296	95:050:371		
CL250HE	250	1 x 3	23.9	50	300	95:050:372		
DD300HE	300	2 x 3		55	355	95:050:373		
DDD300HE	300	3 x 3		56	356	95:050:374		
CL300HE	300	1 x 3	24.5	60	360	95:050:375		

Accessories ordering guide							
	Product code						
Megaflo HE immersion heater with thermostat - upper 'straight'	95:970:510						
Swept tee (22x15x22)	95:970:509						





Megaflo HE SystemFit PRE-PLUMBED UNVENTED WATER HEATING

The ultimate unvented cylinder pre-plumbed solution. The UK's market leading Megaflo HE range is now available in a popular pre-plumbed format – designed to significantly reduce on-site installation time. These factory assembled units are pre-plumbed and pre-wired with 230V central heating controls, pump, two 2-port motorised valves, automatic by-pass and balancing valve. This new time-saving Megaflo HE SystemFit package not only speeds installation but significantly enhances the quality and integrity of the central heating system thus eliminating costly call backs.

Features

Megaflo HE - the UK's No.1 unvented cylinder 125, 145, 170, 210, 250 and 300 litre capacities - S-plan

Programmable thermostat with timed Domestic Hot Water (DHW) Control

Separate central heating and hot water zones

No maintenance three speed circulating pump

Automatic by-pass valve for system efficiency

Load balancing valve for indirect coil efficiency

Connections for vented and unvented heating primaries

Benefits

Simplified on-site installation

Up to 70% quicker to install

Factory assembled for reliability - reduces costly call-backs and delays

Consistent electrical and plumbing layout - neat, professional finish

Greater customer satisfaction

ISO 9001: 2000 quality assured

25-year cylinder guarantee







Megaflo SystemFit PRE-PLUMBED UNVENTED WATER HEATING

Seperate Central Heating and Hot Water Configuration

- 1 Motorised valve to radiator circuit -22mm on 125L/145L models / 28mm on other models
- 2 22mm motorised valve to Megaflo coil heat exchanger
- 3 Wiring centre
- 4 Programmable thermostat and room sensor with timed Domestic Hot Water (DHW) Control
- 5 Hot water temperature thermostat

High performance configuration

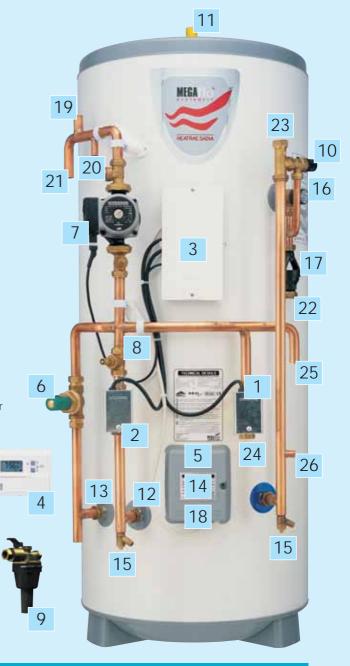
- 6 Automatic by-pass valve
- 7 3 speed circulator pump with quality isolating valves
- 8 Balancing valve
- 9 22mm cold water combination valve (supplied loose)
- 10 Combined expansion valve/check valve housing
- 11 22mm or 3/4" BSP hot outlet to taps
- 12 22mm Primary flow to Megaflo coil heat exchanger
- 13 22mm Primary return from Megaflo coil heat exchanger
- 14 Immersion heater with integral thermostat and thermal cut-out
- 15 Drain cocks

Comprehensive safety controls

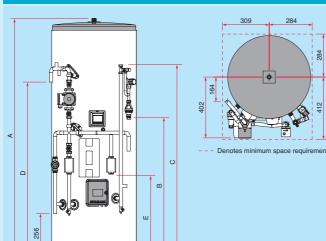
- 16 Temperature and pressure relief valve operating at 90°C / 10 bar
- 17 Tundish
- 18 High limit hot water thermal cut-out

Connections

- 19 Primary vent connection
- 20 Primary system cold feed connection
- 21 Primary flow connection from boiler 22mm on 125L/145L models / 28mm on other models
- 22 Discharge pipe connection 22mm
- 23 Cold water inlet connection 22mm
- 24 Primary flow to radiators (CH circuit)
- 25 28mm Connection for 2nd CH zone (supplied capped) (170 litre and above only)
- 26 15mm Connection for secondary return (supplied capped)



Megaflo HE SystemFit



	Dimensions							
A (mm)	B (mm)	C (mm)	D (mm)	E (mm)				
1115	563	909	1024	509				
1241	664	1010	1024	509				
1398	893	1209	1075	502				
1499	868	1211	1075	502				
1751	1092	1434	1075	502				
2065	1328	1674	1075	502				
	(mm) 1115 1241 1398 1499 1751	(mm) (mm) 1115 563 1241 664 1398 893 1499 868 1751 1092	(mm) (mm) (mm) 1115 563 909 1241 664 1010 1398 893 1209 1499 868 1211 1751 1092 1434	(mm) (mm) (mm) (mm) 1115 563 909 1024 1241 664 1010 1024 1398 893 1209 1075 1499 868 1211 1075 1751 1092 1434 1075				

Specification of cylinder

Nominal capacities 125, 145, 170, 210, 250 and 300 litre.

Rating Immersion heater 3kW @ 240\

Outer casing White plastic coated corrosion proofed steel.

Thermal insulation CFC/HCFC free (ODP zero) flame-retardant expanded

Water container Duplex 2304 (Grade 1.4362 EN 10088) stainless steel with internal air-gap system.

Pressure testing To 15 bar

Heat unit Long-life Superloy 825 alloy sheathed element, incorporated into an easily removable heater plate, should replacement be necessary. Rated 3.0kW @ 240V

Primary coil 22mm diameter stainless steel

Thermostat Direct: Element thermostat adjustable from 10°C to 70°C Indirect: Factory-fitted cylinder thermostat adjustable to 70°C

Factory fitted safety features Direct: Manually re-settable cut-out on heating element operates at 85°C

Indirect: High limit thermal cut-out operates at 85°C.

Wired in series with two-port motorised valve (supplied fitted) to provide primary over temperature protection

All models: Temperature and Pressure Relief Valve, factory set to operate at 10 bar and 90°C

Anode Not required.

Approvals BBA, WRAS, BEAB and CE approved cylinder. Manufactured in the UK in a BS EN ISO 9001:2000 registered factory









Specification of components

Danfoss TP9 Programmable thermostat with timed Domestic Hot Water (DHW) Control

Holiday mode with room temperature setback

Frost protection setting (room)

Memory back-up during power cut up to 15 days

Temperature range 5°C to 30°C or 16°C to 30°C

Power supply 220Vac/240Vac, 50Hz

Switching action 2xSPDT, type 1B

Switch rating 220/240Vac, 50/60Hz, 3(1)A

Timing accuracy ± 1 min/month

Power reserve Minimum 24 hours

Enclosure rating IP30

Maximum ambient temperature 45°C

Designed to meet BS EN60730-2-9

Programmer dimensions Width 136mm, Height 88mm, Depth 32mm

Sensor dimensions Width 60mm, Height 45mm, Depth 21mm

Honeywell two-port valve

For the central heating and domestic hot water.

Voltage rating 230V ac 50Hz

Power consumption 6W

Primary water temperature range 5°C to 88°C

Max ambient temperature 50°C

Automatic by-pass valve

Model no RWC Diff 391 901

Working pressure 10 bar

Setting range 0.1 to 0.5 bar differential pressure

Maximum primary water temperature 120°C

Pump

Model no Heatrae Sadia Grundfos UPS15-60

Working pressure 10 bar max

Voltage rating 230V ac 50Hz

Starting capacitor 2ul

Power consumption

Speed setting I 40W Speed setting II 65W

Speed setting III 95W

Enclosure protection IP42

Installation

Must be installed by a competent installer in accordance with Local Regulations. England and Wales - Building Regulations G3.

Scotland - Technical Standards P3

N. Ireland - Building Regulations P5.

Fixing For floor mounting

Plumbing Inlet: 22mm compression. Outlet: 22mm compression / 3/4" BSP male. Primary connections: 22mm O/D Copper on 125/145L models / 28mm OD Copper on other models. $^{1}2^{n}$ T&P relief valve 15mm compression outlet supplied fitted.

Cold water control 22mm HiFlo cold water valve assembly comprising 3 bar pressure reducer, 1/4 turn isolating ball valve, line strainer, non-return valve. Expansion core unit comprising 8 bar expansion valve and check valve factory fitted. Cold water control valve (3 bar) is supplied for use with mains pressure of 20 bar to 1.5 bar, at the lower pressure, performance will be reduced accordingly. Normal working pressure is 3 bar.

Water expansion Via air gap built into the top of the cylinder. The patented floating baffle maintains the air gap.

NOTE: A separate expansion vessel will be required for sealed primary systems

Flow rates Up to 72 litres per minute (depending on adequate supply conditions)

Minumum water supply requirements 20 litres per minute flow and 1.5 bar pressure. (At lesser values, the unit will operate but outlet flow rates may be unacceptable, especially with multiple draw-offs).

Please contact our Specification Advice Team to discuss specific site conditions if the above minimum requirement cannot be met

Secondary circulation Via 15mm tee piece on inlet pipe (supplied capped). A WRAS listed bronze circulating pump (not supplied) will be required

Compatible boilers Electric, gas or oil fired - sealed system or open vent type, fitted with integral control thermostat and thermal cut-out

Tundish 15mm inlet and 22mm compression outlet factory fitted

Electrical Connection is direct to terminals in the immersion heater which must be permanently connected to the supply through a double-pole linked isolating switch with a minimum breaking capacity of 13A.

Indirect controls should be wired to the boiler, in accordance with the control scheme being used. All electrical installation must conform to the latest IEE Wiring Regulations.

Heatrae Sadia's Specification Advice Team is available to discuss requirements for specific projects, applications and product selection

Guarantee

The Megaflo HE Duplex stainless steel vessel carries a full 25-year transferable guarantee against faulty manufacture or materials



· It has been correctly installed as per the instructions contained in the instruction manual and all relevant Codes of Practice and Regulations in force at the time of installation.

- It has not been modified in any way, other than by Heatrae Sadia Heating
- · It has not been frost damaged.
- It has only been used for the storage of potable water.
- · It has not been tampered with or been subjected to misuse or neglect.
- Within 60 days of installation the user completes and returns the certificate supplied along with the proof of purchase to register the product

The Megaflo HE SystemFit components, immersion heater and thermal controls are guaranteed for a period of 2 years from the date of purchase. Evidence of purchase and date of supply must be submitted. The unit is not guaranteed against damage due to frost. The guarantee is transferable. This guarantee does not affect your statutory rights.

Ordering guide										
Megaflo HE SystemFit	Nominal Capacity litre	Element Rating @ 240V kW	Coil Rating kW	Product code						
CL125S	125	3.0	18.3	95:050:382						
CL145S	145	3.0	17.7	95:050:384						
CL170S28	170	3.0	18.7	95:050:393						
CL210S28	210	3.0	24.3	95:050:394						
CL250S28	250	3.0	23.9	95:050:395						
CL300S28	300	3.0	24.5	95:050:396						

Optional boost element available for CL210 to CL300 units.

For an extra element, order code number



95:970:510



Products

Boiling water Supreme

Chilled water SuperChill

Cistern-fed water heating MegaLife

Cistern-type water heating FBM

Electric flow boiler Amptec

Electric showers Accolade | Carousel | Sapphire | Cameo

Hand hygiene Handy | Concept | Hair Drier | Handy Dri

Immersion heaters Titanium | Superloy | Gold Dot | Maxistore | RDT Thermostats

Point of use Streamline | Express | UTC 99 | B3M | C3M | Vented tap range

Small unvented water heating Hotflo | Multipoint

Unvented water heating Megaflo HE | Megaflo HE SystemFit

For free product brochure(s) call our literature hotline on 01603 420127

Contact

Specification T: 01603 420220 F: 01603 420229 E: specifier@heatraesadia.com

Sales T: 01603 420110 F: 01603 420149 E: sales@heatraesadia.com

Service T: 01603 420330 F: 01603 420349 E: service@heatraesadia.com

Web www.heatraesadia.com

National service network

Heatrae Sadia products are inherently reliable and are designed to meet the demanding needs of all users.

A nationwide network of experienced engineers is available to provide fast and efficient on-site service support.

In addition, spare parts for the complete range of products are readily available through a wide variety of stockists.



Heatrae Sadia Heating Hurricane Way Norwich Norfolk NR6 6EA

Heatrae Sadia Heating may introduce modifications to their products from time to time. Consequently, the details given in this brochure are subject to alteration without notice. 95 900 807 Issue HE5 © Heatrae Sadia Heating. May 2005.

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