

Water heating catalogue 2012



**Megasize,
Megafast,
Megaflo.**



Megaflo Commercial. Now available.

Welcome to Heatrae Sadia

We are the hot water experts and we are dedicated to ensuring that people can enjoy hot water in their home or business without giving a second thought to the question of where it came from. We do this through a combination of cutting-edge hot water technology and a skilled national customer support network.

Our hot water systems are the industry benchmark. No one has more stringent standards for durability, performance and efficiency than we do. No one spends more time ensuring their products are easy to install, simple to maintain and will give many years of faithful service. And no one has a more comprehensive range of hot water systems. So from the smallest studio flat to the largest commercial building, we have a product to meet every conceivable need.

We also provide comprehensive customer support. From specification through to installation and then After Sales Service, our National Team of service engineers ensures that every enquiry is dealt with quickly and efficiently.



Our expert technical advice means you can be sure of fitting the most appropriate size and type of hot water system. Developers and self-builders, in particular, can benefit from using our free-of-charge, fully-indemnified hot water system design service. And for complete peace of mind, spare parts are available off the shelf from a nationwide network of stockists.



Environment and Sustainability
Award Winners 2011

Megasize, Megafast, Megaflo.





The new range of MegaFlo Commercial cylinders

The launch of MegaFlo Commercial cylinders in spring 2012 adds a further 30 models to our already extensive range. With a choice of sizes up to a mega 2500 litres, our guarantee to deliver any quantity of hot water to your door within two weeks* speaks volumes!

Performance:

- Fast recovery:
 - 15 minutes for 250 and 300 litres.
 - 60 minutes for 450 to 2500 litres.
- Primary operating pressure – 10 bar at 80°C.
- Secondary operating pressure – 7 bar at 10°C.

Product:

- Flow and return, secondary return – 28, 35, 42 and 54mm.
- Boost immersion as standard.
- Boost element – 18 to 30kW.
- 5 diameters – 500 / 600 / 790 / 1000 / 1250mm.
- 10 capacities – 400 / 500 / 800 / 1000 / 1250 / 1450 / 1650 / 2000 / 2250 / 2500 litres.
- 120mm inspection port as standard.
- 80 to 100mm CFC / HCFC-free (ODP zero) flame-retardant insulation.
- Soft vinyl jacket with plastic cap.
- Duplex 2205 stainless steel.
- Single coil – 27 to 120kW.
- Solar coil – 2 to 8m²
- Direct element – 30 to 145kW.
- IPX5 rating.



*UK mainland only.

Supreme Counter Top

The Counter Top unit is the latest addition to the Supreme product range, providing boiling water on tap where wall or cupboard space is at a premium. Styled for front of house location giving excellent value for money.

This product is backed with a full two year parts and labour guarantee with on-site service support.

See page 128



Goodbye
Kettle.

Farewell
Bottled Water.

Hello
Aquatap.

See page 116



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Brochures for all of our products are available free of charge. Please call our literature hotline on 01603 420127 or visit our website www.heatraesadia.com where all our brochures are available to download.

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Product selector guide

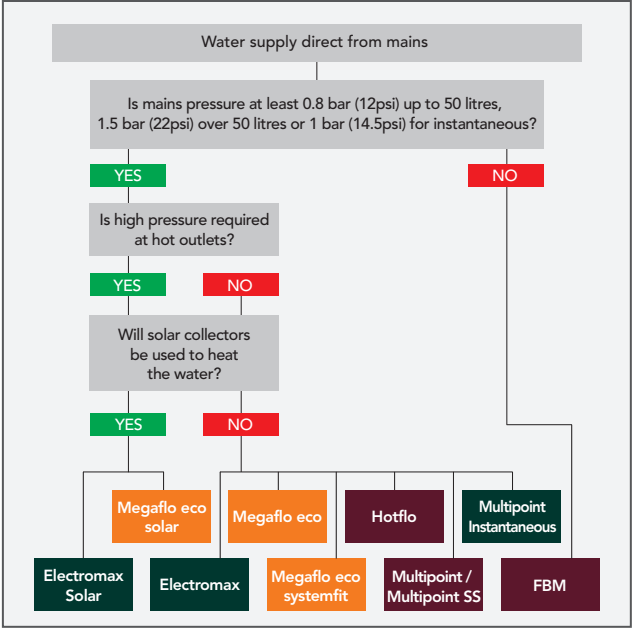
Megaflo

Domestic Heating and Hot Water

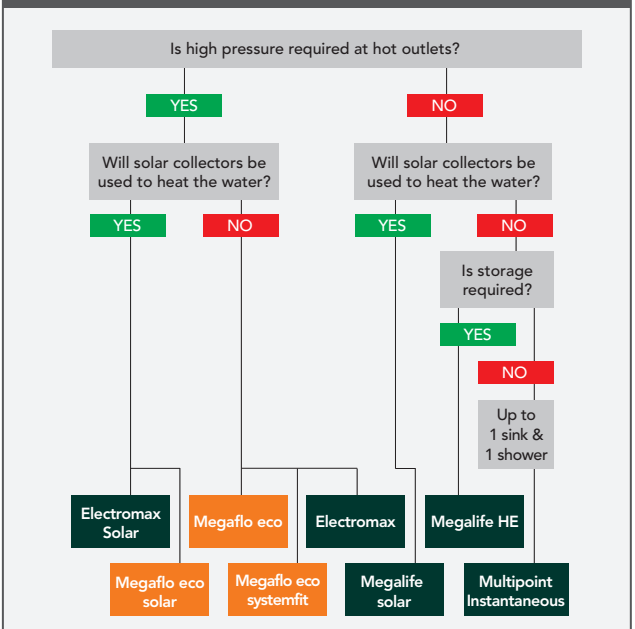
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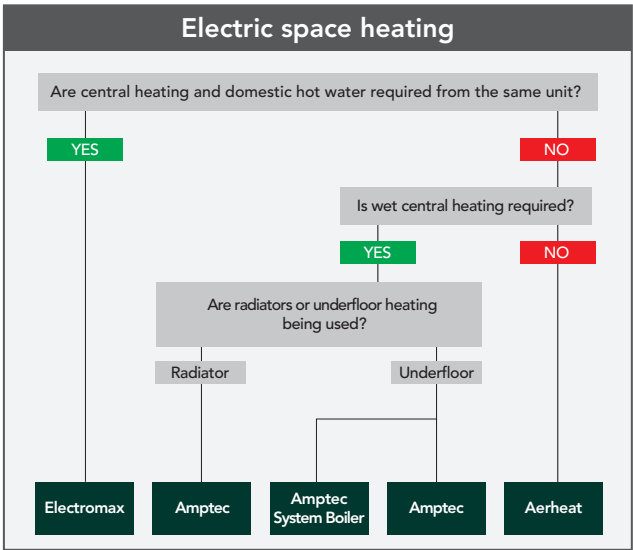
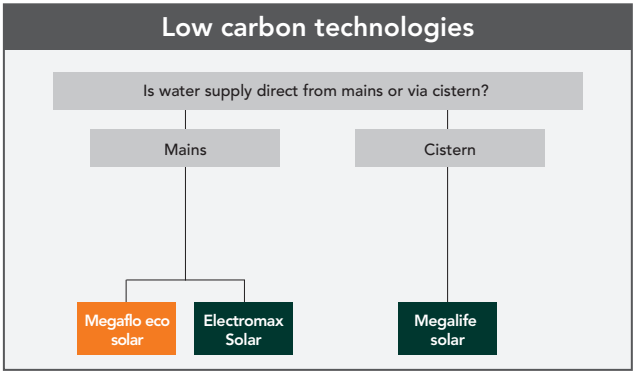
Drinking Water

Hot water for multiple outlets (mains)

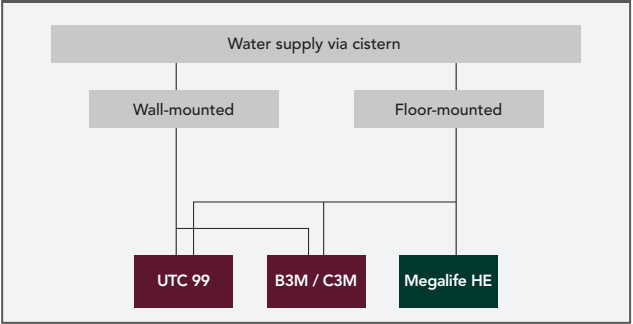


Hot water for baths and showers

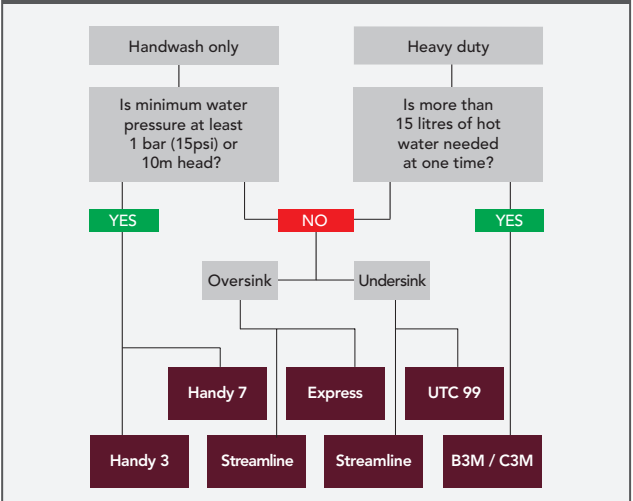




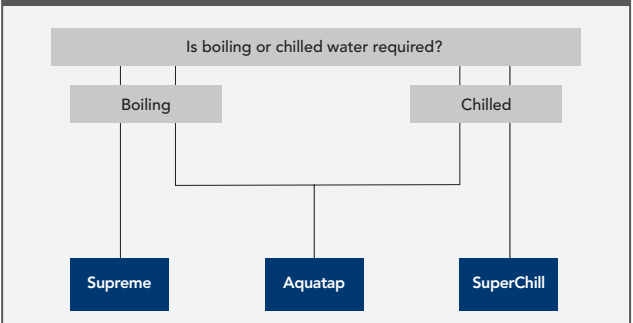
Hot water for multiple outlets (cistern)



Hot water for single outlet sinks and basins



Drinking water



Cylinders

Which unit to use.

The tables below will assist you in choosing the right cylinder for your application. The Heatrae Sadia Specification Advice Team should be contacted to discuss requirements and designs for specific sites. Actual usage requirements should be assessed in selecting the correct cylinder.

Megaflo eco – see page 20

Type of property	B	R	R	R	R	R	R	L/C	O/C
No. of beds	-	1	2	3	4	4	4/5	-	-
No. of baths/showers	-	1	1	1	1	2	3	-	-
Indirect									
Cylinder volume (litre)	70	125 [†]	125 [†]	145 [†]	170 [†]	210 [†]	250 [†]	250 [†]	300 [†]
Heat source	I	I	I	I	I	I	I	I	I
Direct									
Cylinder volume (litre)	70	125/ 145	145/ 170	210	210	250	300	250/ 300	250/ 300
Heat Source	D	DD	DD	DD	DD	DD	DD	DDD/ DDDD	DDD/ DDDD

[†]For pre-plumbed equivalent, see Megaflo eco systemfit – see page 22

Megalife HE – see page 36

Type of property	B	R	R	R	R	R
No. of beds	-	1	2	3	4	4
No. of baths/showers	-	1	1	1	1	2
Indirect						
Cylinder volume (litre)	100	120	120	150	170	210
No. of 3kW back-up Immersions	1	1	1	1	1	1
Direct						
Cylinder volume (litre)	100	120/ 150	150/ 170	210	210	210
No. of 3kW Immersions	1	2	2	2	2	2

B = Bedsit

R = Residential

O/C = Other commercial use

L/C = Light commercial use

I = Indirect with 1x 3kW back-up element supplied

D = 1x 3kW element

DD = 2x 3kW elements

DDD* = 3x 3kW elements

DDDD = 4x 3kW elements

*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. 210i, 250i and 300i have boost upper element boss blanked off.

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

Megaflo eco solar – see page 28

Megalife solar – see page 40

Indirect							
No. of beds	1	2	3	3	4	4	4/5
No. of baths / showers	1	1	1	2	1	2	2
Max. occupancy	2	2	3	4	5	5	5
Max. property size (m ²)	60	95	123	123	164	164	164
On-roof panels	1	1	2	2	2	3	3
In-roof panels	1	1	1	2	2	2	2
Tube	20	20	20	20	30	30	30
Cylinder volume (litre)	190	210	250	250	300	300	300
Dedicated solar (litre)	70	90	105	105	125	125	125
Auxiliary volume (litre)	120	120	145	145	175	175	175
On-roof (l/m ²)	38	49	29	29	34	23	23
In-roof (l/m ²)	31	39	46	23	27	27	27
Tube (l/m ²)	35	45	53	53	42	42	42
Direct							
No. of beds	1	1	2	2	3	3	4
No. of baths / showers	1	2	2	2	2	3	3
Max. occupancy	1	2	3	4	4	4	5
Max. property size (m ²)	60	60	60	60	95	95	113
On-roof panels	1	1	2	2	2	3	3
In-roof panels	1	1	1	2	2	2	2
Tube	10	20	20	20	20	30	30
Cylinder volume (litre)	170	210	210	260	260	300	300
Dedicated solar (litre)	70	70	70	90	90	100	100
Auxiliary volume (litre)	100	140	140	170	170	200	200
On-roof (l/m ²)	38	38	19	24	24	18	18
In-roof (l/m ²)	31	31	31	20	20	22	22
Tube (l/m ²)	70	35	35	45	45	33	33

On-roof absorber area – 1.84; in-roof absorber area – 2.28; tube absorber area – 1.00.
All cylinders are SAP compliant provided the maximum property size is not exceeded.

Hot water heaters

Which unit to use.

The tables below will assist you in choosing the right unit for your application. The Heatrae Sadia Specification Advice Team should be contacted to discuss requirements and designs for specific installations. Actual requirements should be assessed in selecting the correct hot water heaters.

Hotflo capacity selection guide – see page 80

Multipoint capacity selection guide – see page 86

Model	Basin(s)	Basin(s) (heavy usage)	Commercial sink(s)	Shower(s)
Hotflo 10	1-2			
Hotflo 15	3			
Multipoint 10	1-2			
Multipoint 15	3			
Multipoint 30		2-3	1	
Multipoint 50		4-5	2	
Multipoint 75		8	3	
Multipoint 100		10	4	1
Multipoint SS 50		4-5	2	
Multipoint SS 80		5-8	3	
Multipoint SS 100		8-10	4	

FBM capacity selection guide – see page 100

Model	2-3 basins	4-5 basins	5-6 basins	6-8 basins
FBM 25	■			
FBM 50		■		
FBM 75			■	
FBM 100				■

Supreme capacity selection guide – see page 122

Model	Capacity (litres)	Average cups per hour (167ml)
150 SS	2.5	150
165 SS	5	165
180 SS	7.5	180
150	2.5	150
165	5	165
180	7.5	180
220 SS	10	220
250 SS	15	250
310 SS	25	310
560 SS	40	560

Supreme Counter Top performance – see page 128

Model	Cups (160ml)		Mugs (250ml)		Draw-off (litres)	
	per hour	at once	per hour	at once	per hour	at once
Supreme Counter Top	187	56	120	36	30	9

Aquatap selection guide – see page 116

Model	Boiling water cups (167ml)		Boiling water mugs (250ml)		Boiling volume at one time (litres)	Chilled water output (litres/hour)	Chilled water output (200ml glass/hour)
	recovery per hour	at once	recovery per hour	at once			
Boiling	135	30	90	20	5	-	-
Boiling and Chilled	135	30	90	20	5	30	150
Boiling and Ambient	135	30	90	20	5	-	-



Megaflo eco

Unvented hot water cylinders.

Megaflo eco offers a number of features that place it well ahead of the competition on performance, quality and reliability. Whether it's for the home, workplace or demanding applications such as sports and health club shower rooms, there's a model to suit your needs.



Specification

Capacities

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

Rating

Immersion heater(s) 3kW @ 240V.

Up to four are fitted dependent on model.

Outer casing

White plastic-coated corrosion-proofed steel.

Thermal insulation

CFC/HCFC-free (ODP zero) flame-retardant expanded polyurethane (60mm thick). GWP 3.1 (Global Warming Potential).

Water container

Duplex 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 3kW @ 240V. Titanium immersion as standard on all direct models and available as an accessory on indirect models.

Primary coil

22mm diameter stainless steel.

Thermostat

Direct models: Element thermostat adjustable from 12°C to 68°C.

Indirect models: Factory-fitted cylinder thermostat adjustable from 12°C to 68°C.

Capillary-type thermostats now used on all models.

Factory-fitted safety features

Direct models: Manually resettable cut-out on heating element operates at 85°C. Indirect models: High limit thermal cut-out operates at 90°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 (insulation casing supplied loose). Wiring centre for indirect controls (supplied loose).

Anode

Not required.

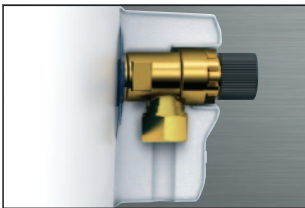
Approvals

Nemko and Kiwa approved. CE marked.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

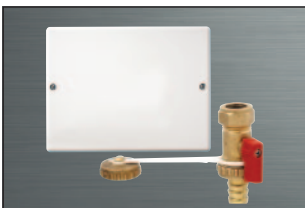
Guarantee

The Megaflo eco Duplex stainless steel vessel carries a full lifetime on-site service support guarantee. The Megaflo eco immersion heater and controls carry a two year on-site guarantee. See page 144 for guarantee details.



Reduced heat loss

With the introduction of Megaflo's innovative insulated casing for its temperature and pressure relief valve.



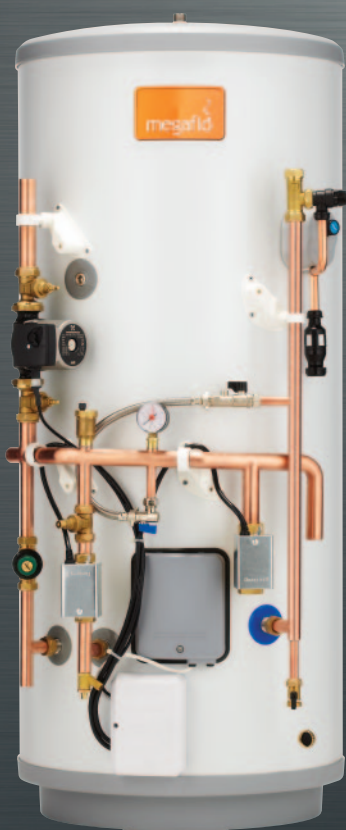
Even more installer friendly

Megaflo eco is now supplied with a wiring centre (indirect models only) and drain valve.

Megaflo eco systemfit

Unvented hot water cylinders.

Megaflo eco is available in a factory-fitted pre-plumbed format, designed to reduce on-site installation time.



Specification

As Megaflo eco: see page 21.

Capacities

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

Components

Danfoss TP9000 Programmable Room Thermostat with Domestic Hot Water (DHW) Control.

Built in hot water time control.

Remote room temperature sensor.

Chrono-proportional control on / off.

Frost protection setting.

Easy to use overrides.

Up to 6 time / temperature changes per day.

7 day, 5 / 2 or 24 hour operation.

Wallplate construction.

Room temperature control range from 5°C to 30°C.

Holiday mode.

Programmer dimensions:

Width 135mm, height 88mm, depth 32mm.

Sensor dimensions:

Width 61mm, height 45mm, depth 22mm.

Designed to meet BS EN60730-2-7 and EN60730-2-9.

Maximum ambient temperature: 45°C.

Timing accuracy: ±1 minute.

Switch rating: 230 Vac, 50 / 60Hz, 3(1)A.

Switching action: 2x SPDT, type 1BS.

Power supply: 230Vas, 50H.

Memory back up retained for life of product.

Honeywell two-port valve:

For the central heating and domestic hot water.

Model no.: V4043H.

Voltage rating: 230V ac 50Hz.

Power consumption: 6W.

Primary water temperature range: from 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: Grundfos UPS15-60.

Working pressure: 10 bar max.

Voltage rating: 230V ac 50Hz.

Starting capacitor: 2µF.

Power consumption:

Speed setting I – 40W.

Speed setting II – 65W.

Speed setting III – 95W.

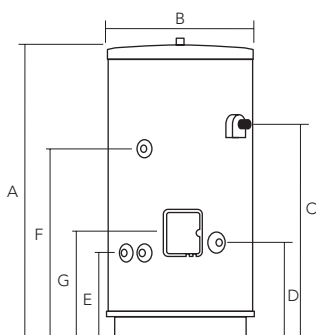
Enclosure protection: IP42.

Guarantee

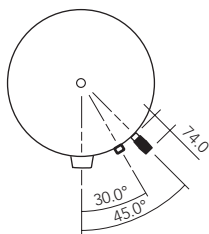
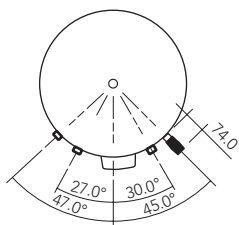
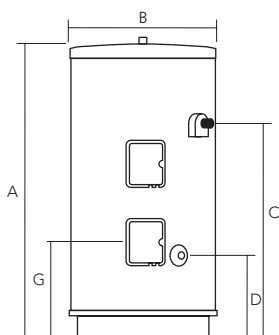
The Megaflo eco Duplex stainless steel vessel carries a full lifetime guarantee with on-site service support. The primary expansion vessel carries a five year guarantee with on-site service support. The Megaflo eco immersion heater, controls and systemfit components carry a two year guarantee with on-site service support. See page 144 for guarantee details.

Megaflo eco

Megaflo eco indirect



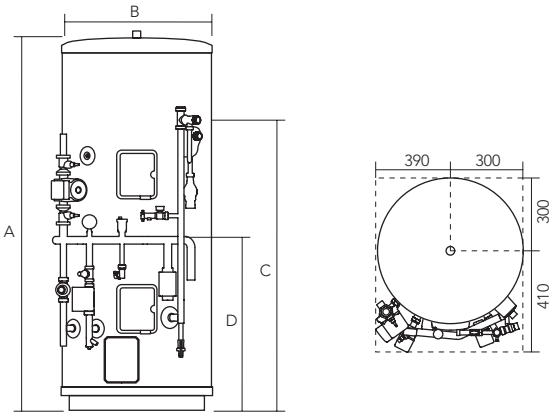
Megaflo eco direct



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
70i	802	579	495	355	316	-	393
125i	1102	579	794	355	316	709	393
145i	1229	579	895	355	316	810	393
170i	1384	579	1020	355	316	934	393
210i	1486	579	1095	355	316	1011	393
250i	1738	579	1323	355	316	1238	393
300i	2053	579	1574	355	316	1526	393
70D	802	579	495	307	-	-	375
125DD	1102	579	794	307	-	-	375
145DD	1229	579	895	307	-	-	375
170DD	1384	579	1020	307	-	-	375
210DD	1486	579	1095	307	-	-	375
210DDD	1486	579	1095	307	-	-	375
210DDDD	1486	579	1095	307	-	-	375
250DD	1738	579	1323	307	-	-	375
250DDD	1738	579	1323	307	-	-	375
250DDDD	1738	579	1323	307	-	-	375
300DD	2053	579	1574	307	-	-	375
300DDD	2053	579	1574	307	-	-	375
300DDDD	2053	579	1574	307	-	-	375

Megaflo eco systemfit

Megaflo eco systemfit



Model	A (mm)	B (mm)	C (mm)	D (mm)
125sf S22	1102	579	794	542
145sf S22	1229	579	895	643
170sf S28	1384	579	1020	768
210sf S28	1486	579	1095	844
250sf S28	1738	579	1323	1071
300sf S28	2053	579	1574	1322

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

Built-in feet for floor mounting.

Plumbing

Inlet / outlet: ¾" BSP male parallel and 22mm compression fittings supplied. Indirect coil: ¾" BSP male parallel and 22mm compression fittings supplied. ½" temperature and pressure relief valve: 15mm compression outlet supplied.

Cold water control

Cold water control 22mm HiFlo cold water valve assembly comprising 3 bar pressure reducer, ¼ turn isolating ball valve, line strainer, non-return valve and expansion valve (8 bar).

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.

22mm cold water inlet control kit comprising of 8 bar pressure relief valve, 3 bar pressure reducing valve and stopcock which enables the Megaflo eco to be isolated from the mains supply for maintenance and servicing. The 3 bar pressure reducing valve can be installed as a complete one piece unit or incorporated into the stopcock.

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

½" BSP female connection provided (circulating pump not supplied). Secondary circulation is not recommended for units using off-peak electrical elements for auxiliary heating.

Compatible boilers

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

Tundish – Megaflo eco

15mm inlet and 22mm compression outlet.

Tundish – Megaflo eco systemfit

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. 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

Lifetime cylinder guarantee with on-site service support. Five years on systemfit primary expansion vessel. Two years on all other components. See page 144 for guarantee details.

Megaflo eco ordering guide

Model	Nominal capacity (litre)	Element rating @240V (kW)	Coil rating (kW)	Weight		Product code
				empty (kg)	full (kg)	
70i	70	1x 3	15.4	25	125	95:050:461
125i	125	1x 3	18.3	31	180	95:050:463
145i	145	1x 3	18.7	35	204	95:050:465
170i	170	1x 3	24.3	39	233	95:050:467
210i	210	1x 3	24.3	45	295	95:050:469
250i	250	1x 3	23.9	50	300	95:050:472
300i	300	1x 3	24.5	58	358	95:050:475
70D	70	1x 3	-	23	123	95:050:460
125DD	125	2x 3	-	25	174	95:050:462
145DD	145	2x 3	-	31	200	95:050:464
170DD	170	2x 3	-	34	228	95:050:466
210DD	210	2x 3	-	38	248	95:050:468
210DDD	210	3x 3	-	40	251	95:050:480
210DDDD	210	4x 3	-	42	253	95:050:476
250DD	250	2x 3	-	46	296	95:050:470
250DDD	250	3x 3	-	48	298	95:050:471
250DDDD	250	4x 3	-	50	300	95:050:477
300DD	300	2x 3	-	56	356	95:050:473
300DDD	300	3x 3	-	58	358	95:050:474
300DDDD	300	4x 3	-	60	360	95:050:478

Megaflo eco accessory	Product code
Optional boost immersion heater pack for 210i, 250i and 300i	95:970:554

Megaflo eco systemfit ordering guide

Model	Nominal capacity (litre)	Element rating @240V (kW)	Coil rating (kW)	Weight		Product code
				empty (kg)	full (kg)	
125sf S22	125	1x 3	18.3	43	183	95:050:482
145sf S22	145	1x 3	18.7	48	203	95:050:484
170sf S28	170	1x 3	24.3	52	234	95:050:493
210sf S28	210	1x 3	24.3	55	254	95:050:494
250sf S28	250	1x 3	23.9	61	297	95:050:495
300sf S28	300	1x 3	24.5	69	352	95:050:496

Optional boost element available for 210 to 300 units. For a Titanium Indirect Control and Immersion Heater Accessory Pack, order product code 95:970:554.

Megaflo eco solar

Solar thermal hot water.

Megaflo eco solar range of unvented solar cylinders is available in five sizes offering increased dedicated solar hot water capacities giving greater flexibility when specifying for SAP and Building Regulations Part L.



Specification

Capacities

190, 210, 250 and 300 litre (indirect).
170, 210, 260 and 300 litre (direct).

Ratings

Immersion heater(s) 1x 3kW (indirect models), 2x 3kW (direct models) @ 240V.

Outer casing

White plastic-coated corrosion-proofed steel.

Insulation

CFC/HCFC-free (ODP zero) flame-retardant expanded polyurethane (60mm thick). GWP 3.1 (Global Warming Potential).

Water container

Duplex stainless steel.

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 3kW @ 240V.

Primary coil

For auxiliary boiler heating. 22mm diameter stainless steel. Coil-in-coil design for improved performance.

Solar coil

25mm diameter stainless steel. Coil-in-coil design and large surface area for improved performance.

Thermostat

Direct models: Element thermostat adjustable from 12°C to 68°C.

Indirect models: Factory-fitted cylinder thermostat adjustable from 12°C to 68°C.

Solar: Factory-fitted control pocket suitable for insertion of solar controller temperature probe.

Safety

Direct models: Manually resettable cut-out on heating element 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 when using the auxiliary (boiler) coil.

All models: Temperature and pressure relief valve, factory set to operate at 10 bar and 90°C. Factory-fitted thermal cut-out for integration into a solar circuit.

Anode

Not required.

Approvals

Kiwa and Nemko approved. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

The Megaflo eco solar Duplex stainless steel vessels carry a lifetime guarantee with on-site service support from date of purchase.

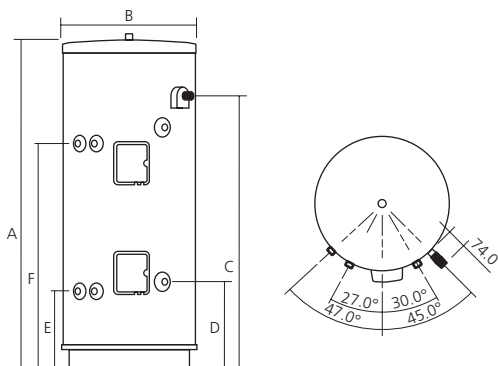
Five years on expansion vessel.

Two years on all other components.

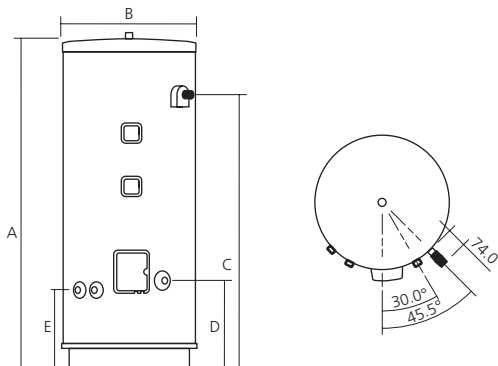
See page 144 for details.

Megaflo eco solar

Megaflo eco solar indirect



Megaflo eco solar direct



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight	
							empty (kg)	full (kg)
190Si	1387	579	1020	414	373	735	45.5	235.5
210Si	1489	579	1184	414	373	1039	47.5	257.5
250Si	1738	579	1378	414	373	1142	56.5	306.5
300Si	2053	579	1693	414	373	1438	66.5	366.5
170SD	1229	579	925	414	373	-	37.8	207.8
210SDD	1489	579	1184	414	373	-	42.5	252.5
260SDD	1802	579	1441	414	373	-	47.3	307.3
300SDD	2053	579	1693	414	373	-	61.5	361.5

Installation

Plumbing

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.

Inlet / outlet: ¾" BSP male parallel and 22mm compression fittings supplied.

Indirect primary coil: ¾" BSP male parallel and 22mm compression fittings supplied. ½" T&P relief valve: 15mm compression outlet supplied.

Solar coil: ¾" BSP male parallel and 22mm compression fittings supplied.

Cold water control

Cold water control 22mm HiFlo cold water valve assembly comprising 3 bar pressure reducer, ¼ turn isolating ball valve, line strainer, non-return valve and expansion valve (8 bar).

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.

22mm cold water inlet control kit comprising of 8 bar pressure relief valve, 3 bar pressure reducing valve and stopcock which enables the Megaflo eco solar to be isolated from the mains supply for maintenance and servicing. The 3 bar pressure reducing valve can be installed as a complete one piece unit or incorporated into the stopcock.

Fixing

Built-in feet for floor mounting.

Water expansion

Via remote 25 litre expansion vessel (supplied).

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

½" BSP female connection provided (circulating pump not supplied). Secondary circulation is not recommended for units using off peak electric elements for auxiliary heating.

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

Each immersion heater must be permanently connected to the electrical supply through a double-pole linked switch with a minimum breaking capacity of 13A. The indirect thermal controls should be wired into a suitable indirect control system to ensure optimum control of the Megaflo eco solar and auxiliary boiler. The solar coil must be connected to a fully pumped solar primary system that should be controlled by a suitable solar controller and hydraulic set. The solar controller cylinder temperature sensor must be inserted in the pocket supplied on the heater. The solar thermal cut-out (factory-fitted) should be wired in series with the solar controls (not supplied).

All electrical work must conform to current IEE wiring regulations. Heatrae Sadia's Specification Advice Hotline is available to discuss requirements for specific projects, applications and product selection on Tel: 01603 420220.

Cylinder capacity

Application	Total solar heated capacity (litre)	Auxiliary top-up hot water capacity (litre)	
		Indirect	Direct
170 Solar	70	-	100
190 Solar	70	120	-
210 Solar	70 (direct), 90 (indirect)	120	140
250 Solar	105	145	-
260 Solar	90	-	170
300 Solar	100 (direct), 125 (indirect)	175	200

Specification

Model	Capacity (litre)	Auxiliary element @240V (kW)	Auxiliary coil rating (kW)	Auxiliary coil surface area (m ²)	Solar coil surface area (m ²)
190Si	190	1x 3kW	18	0.61	1.1
210Si	210	1x 3kW	18	0.68	1.1
250Si	250	1x 3kW	18.7	0.73	1.1
300Si	300	1x 3kW	24.5	0.79	1.1
170SD	170	1x 3kW	-	-	1.1
210SDD	210	2x 3kW	-	-	1.1
260SDD	260	2x 3kW	-	-	1.1
300SDD	300	2x 3kW	-	-	1.1

Ordering guide

Model	Product code
190Si	95:050:511
210Si	95:050:513
250Si	95:050:515
300Si	95:050:517
170SD	95:050:527
210SDD	95:050:512
260SDD	95:050:528
300SDD	95:050:516

Complete Megaflo eco solar packages.

Available Summer 2012.



On-roof, in-roof, flat roof
solar collector and evacuated
tubes all compatible with
Megaflo eco solar cylinders.





Domestic Heating and Hot Water

Cistern-fed

Megalife HE	36
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Solar cylinder

Megalife Solar	40
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Central heating

Amptec	44
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Solar packages

Electromax Solar	54
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Instantaneous water heaters

Multipoint Instantaneous	60
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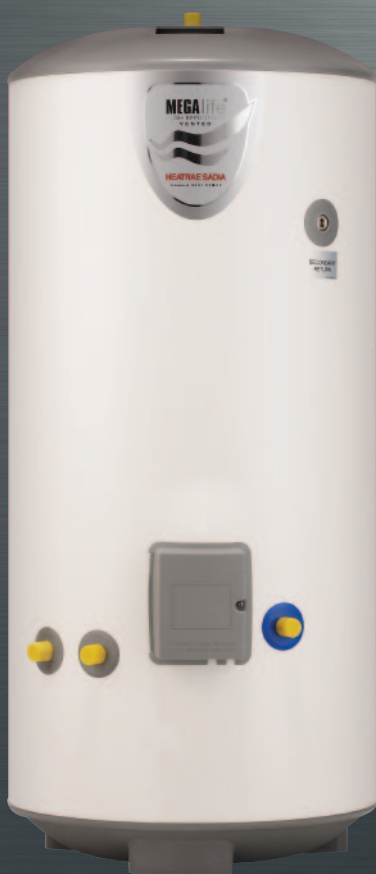
Immersion heaters

Titanium	62
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Maxistore	63
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Megalife HE

Cistern-fed hot water.

Megalife HE includes our fast recovery 'coil-in-coil' heat exchanger. The inner container is manufactured from Duplex stainless steel and its immersion heater is tin-plated Superloy 825 making it ideal for use in aggressive water areas.



Specification

Capacities

10 models, 100, 120, 150, 170 and 210 litre units available in direct and indirect versions.

Ratings

3kW, 6kW @ 240V (2.8kW, 5.6kW @ 230V).

Outer casing

White textured, plastic-coated, corrosion-proofed steel.

Insulation

CFC/HCFC-free (ODP zero) fire-retardant, 50mm thick expanded polyurethane. GWP 3.1 (Global Warming Potential).

Water container

Duplex 2304 (grade 1.4362 EN 10088) stainless steel. 40 metres (4 bar) maximum working head.

Heat unit

Tin-plated alloy 825 sheathed. Megalife HE direct 120, 150, 170 and 210 units have two immersion heaters.

Primary coil

22mm diameter stainless steel. 3.5 bar maximum working pressure.

Thermostat

Indirect models: Factory-fitted from 10°C to 70°C adjustable cylinder thermostat.

Safety

Thermostats with manually resettable thermal cut-out.

Anode

Not required.

Approvals

CE marked.
Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

On-site service support from date of purchase. Cylinder 25 years, immersion heater(s) and electrical controls two years. See page 145 for guarantee details.

Installation

Fixing

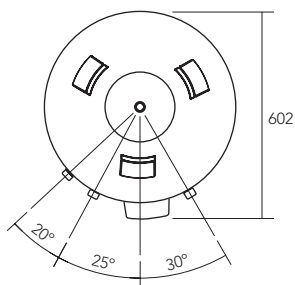
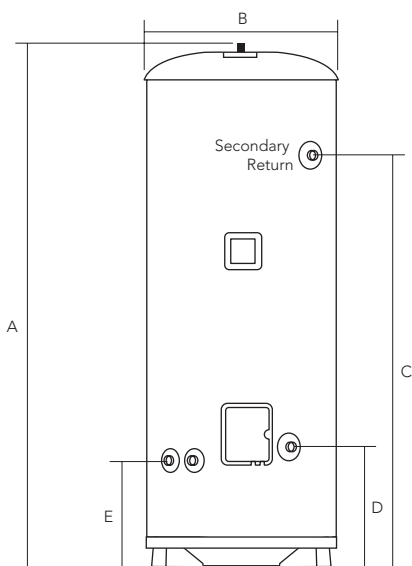
Built-in feet for floor standing.

Plumbing

Inlet/outlet: 3/4" BSP male / 22mm compression fittings supplied.
Indirect coil: 3/4" BSP male / 22mm compression fittings supplied.
Secondary circulation: 1/2" BSP female. The Megalife HE must be fitted with a vent pipe that rises continuously from the outlet and is arranged to discharge into the cold water feed cistern.

Electrical

Each immersion heater must be permanently connected to the electrical supply through a double-pole linked switch with a minimum breaking capacity of 13 amp. The indirect thermal controls should be wired into a suitable indirect control system to ensure optimum control of the Megalife HE and boiler. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).



Model	A	B	C	D	E	Weight	
	(mm)	(mm)	(mm)	(mm)	(mm)	empty (kg)	full (kg)
Megalife HE 100 indirect	755	550	493	354	314	25	125
Megalife HE 120 indirect	877	550	615	354	314	27	147
Megalife HE 150 indirect	1061	550	800	354	314	31	181
Megalife HE 170 indirect	1187	550	925	354	314	34	204
Megalife HE 210 indirect	1445	550	1184	354	314	47	257
Megalife HE 100 direct	755	550	493	306	*	24	124
Megalife HE 120 direct	877	550	615	306	*	26	146
Megalife HE 150 direct	1061	550	800	306	*	29	179
Megalife HE 170 direct	1187	550	925	306	*	31	201
Megalife HE 210 direct	1445	550	1184	306	*	42	252

* Coil not applicable to direct models

Ordering guide

Model	Product code
Megalife HE 100 indirect	95:030:710
Megalife HE 120 indirect	95:030:714
Megalife HE 150 indirect	95:030:711
Megalife HE 170 indirect	95:030:712
Megalife HE 210 indirect	95:030:713
Megalife HE 100 direct	95:030:700
Megalife HE 120 direct	95:030:704
Megalife HE 150 direct	95:030:701
Megalife HE 170 direct	95:030:702
Megalife HE 210 direct	95:030:703

Megalife Solar

Solar thermal hot water.

Megalife Solar vented is ideal for upgrading traditional vented hot water systems to solar. The Duplex stainless steel cylinders are environmentally friendly and compatible with a wide range of UK solar systems.



Specification

Capacities

190, 210, 250 and 300 litre (indirect).

Ratings

Immersion heater(s) 1x 3kW.

Outer casing

White plastic-coated corrosion-proofed steel.

Insulation

CFC/HCFC-free (ODP zero) flame-retardant expanded polyurethane (50mm thick). GWP 3.1 (Global Warming Potential).

Water container

Duplex stainless steel. 40 metres (4 bar) maximum working head.

Heat unit

Tin-plated long-life Superloy 825 alloy sheathed element(s), incorporated into an easily removable heater plate, should replacement be necessary. Rated 3kW @ 240V.

Primary coil

For auxiliary boiler heating. 22mm diameter stainless steel. Coil-in-coil design for improved performance.

Solar coil

25mm diameter stainless steel. Coil-in-coil design and large surface area for improved performance.

Thermostat

Factory-fitted control pocket suitable for insertion of solar controller temperature probe. Thermostat adjusted to 70°C

Safety

Thermostats with manually resettable thermal cut-out. Factory-fitted thermal cut-out for integration into a solar circuit.

Anode

Not required.

Approvals

CE marked.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Megalife Solar Duplex stainless steel vessels carry a 25-year transferable guarantee with on-site service support from date of purchase. Five years on expansion vessel. Two years on all other components. See page 145 for details.

Installation

Plumbing

Inlet / outlet: 3/4" BSP male parallel and 22mm compression fittings supplied.

Indirect primary coil: 3/4" BSP male parallel and 22mm compression fittings supplied. Solar coil: 3/4" BSP male parallel and 22mm compression fittings supplied.

Fixing

Built-in feet for floor mounting.

Secondary circulation

1/2" BSP female connection provided (circulating pump not supplied). Secondary circulation is not recommended for units using off-peak electric elements for auxiliary heating.

Compatible boilers

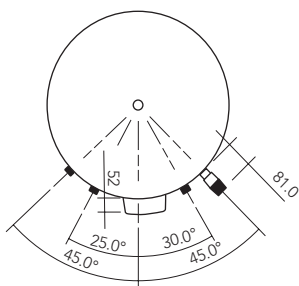
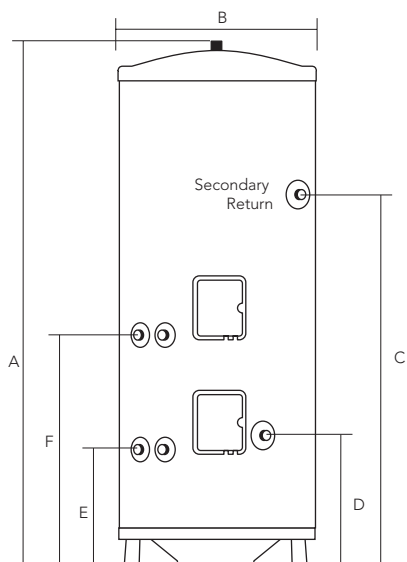
Gas, electric or oil fired – sealed system or open vent type, fitted with integral control thermostat and thermal cut-out.

Electrical

Each immersion heater must be permanently connected to the electrical supply through a double-pole linked switch with a minimum breaking capacity of 13 amp. The indirect thermal controls should be wired into a suitable indirect control system to ensure optimum control of the Megalife Solar and auxiliary boiler. The solar coil must be connected to a fully pumped solar primary system that should be controlled by a suitable solar controller and hydraulic set. The solar controller cylinder temperature sensor must be inserted in the pocket supplied on the heater. The solar thermal cut-out (factory-fitted) should be wired in series with the solar controls (not supplied).

All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations). Our Specification Advice Team is available to discuss requirements for specific projects, applications and product selection on Tel: 01603 420220.

Megalife Solar



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight	
							empty (kg)	full (kg)
Megalife Solar 190	1372	550	1019	412	370	732	45.5	235.5
Megalife Solar 210	1473	550	1184	412	370	892	47.5	257.5
Megalife Solar 250	1731	550	1391	412	370	1160	56.5	306.5
Megalife Solar 300	2038	550	1715	412	370	1438	66.5	366.5

Cylinder capacity

Application	Total solar heated capacity (litre)	Auxiliary top-up hot water capacity (litre)
Megalife Solar 190	70	120
Megalife Solar 210	90	120
Megalife Solar 250	105	145
Megalife Solar 300	125	175

Specification

Model	Capacity (litre)	Auxiliary element @240V (kW)	Auxiliary coil rating (kW)	Auxiliary coil surface area (m ²)	Solar coil surface area (m ²)
Megalife Solar 190	190	1x 3kW	18	0.61	1.1
Megalife Solar 210	210	1x 3kW	18	0.68	1.1
Megalife Solar 250	250	1x 3kW	18.7	0.73	1.1
Megalife Solar 300	300	1x 3kW	24.5	0.79	1.1

Complete Megaflo eco solar packages.

Available Summer 2012.

On-roof, in-roof, flat roof solar collector and evacuated tubes all compatible with Megaflo eco solar cylinders.



Ordering guide

Model	Product code
Megalife Solar 190	95:030:724
Megalife Solar 210	95:030:725
Megalife Solar 250	95:030:726
Megalife Solar 300	95:030:727

Amptec

Electric flow boiler.

Amptec electric flow boilers provide wet central heating and can heat a domestic hot water tank / cylinder with the comfort and controllability of a gas central heating boiler. Models suitable for conventional radiator heating systems or for underfloor heating applications.



Specification

Ratings

4kW, 6kW, 9kW, 11kW and 12kW @ 240V

(3.7kW, 5.5kW, 8.3kW, 10.1kW and 11kW @ 230V).

Element

Long life low watts density copper elements in a copper heat exchanger.

Outer casing

White stove-enamelled corrosion-resistant steel.

Insulation

Armaflex – Closed cell insulation. Dust, fibre and CFC free (ODP zero).

Water container

Copper.

Thermostat

Electronic dual control, user adjustable – C series from 65°C to 80°C. U series from 30°C to 60°C.

Safety

2 amp fused pump supply. Dual control circuits. Dual switching of the elements. Self-check circuitry. Resettable cut-outs.

Approvals

Nemko to BS EN 60335. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Fixing

Wall-mounting by two keyholes. Must be mounted vertically.

Plumbing

22mm pipework connections on all models.

Flow rates

6 litres / minute minimum required for 4 and 6kW models. 12 litres / minute minimum required for 9, 11 and 12kW models.

Operating pressure

3 bar maximum.

Heating systems

Sealed or open vented systems.

Electrical

The unit must be permanently connected to the electrical supply through a double-pole linked switch with minimum breaking capacity suitable for the loading. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Controls (not supplied with boiler)

Can be installed with standard pump, programmer, room thermostat and thermostatic radiator valves.

Accessories

Relay accessories are available for multiple boiler applications, and / or load sharing – for example when installed in conjunction with an electric shower, to prevent supply overload.

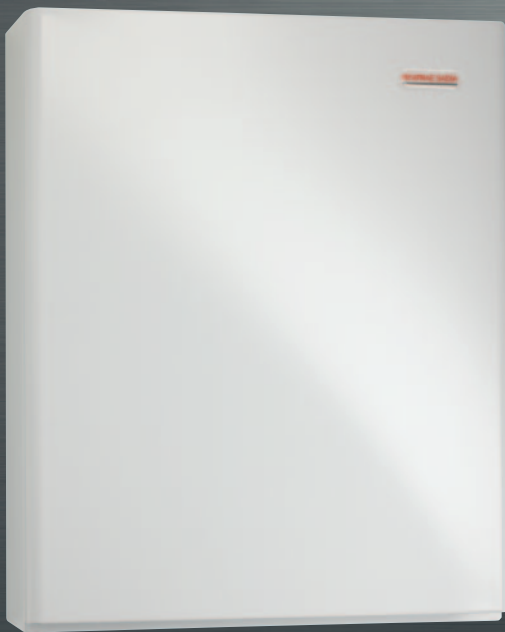
RL1 – Where an electric shower and an Amptec electric boiler are installed in the same dwelling, the RL1 relay prevents circuits from overloading by shutting down the Amptec electric boiler when the shower is in operation.

RL2 and RL3 – Required where more than one Amptec electric boiler is installed to meet heating loads.

Amptec System Boiler

Electric underfloor system boiler.

The Amptec System Boiler provides electric underfloor heating where space is a premium. With no disruption to the current central heating system, the unit comes with wire-free room programmable thermostat and can be used in many applications including conservatories, extensions, garage and loft conversions.



Specification

Rating

2.5kW @ 240V (2.3kW @ 230V).

Element

Long life low watts density copper elements in a copper heat exchanger.

Outer casing

White stove-enameled corrosion-resistant steel.

Insulation

Armaflex – closed cell insulation. Dust, fibre and CFC free (ODP zero).

Water container

Copper.
Manifold – 2 ports with flow meters.

Thermostat

Electronic dual control, user adjustable – U series from 30°C to 60°C.

Safety

2 amp fused pump supply. Dual switching of the elements. Self-check circuitry. Resettable cut-outs. Pressure relief valve – 3 bar. Pump – Grundfos 50 / 60.

Approvals

Nemko to BS EN 60335. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Two year product guarantee with on-site servicing support from date of purchase. See page 145 for guarantee details.

Installation

Fixing

Wall-mounted by three point fixing.

Plumbing

Pressure relief valve: 15mm compression.

Underfloor pipe port: 3/4" BSP x 12mm male.

Flow rates

1-3.4 litres / minute depending on length of underfloor heating.

Operating pressure

1-1.5 Bar.

Heating systems

Closed loop.

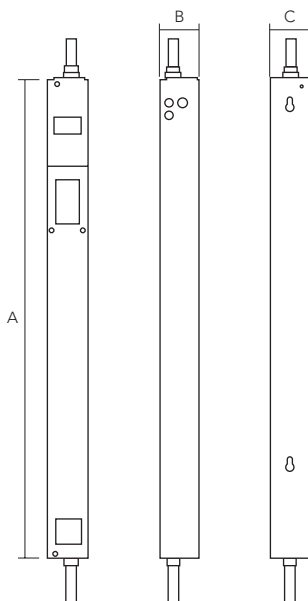
Electrical

The unit must be permanently connected to the electrical supply through a double-pole linked switch with minimum breaking capacity suitable for the loading. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Controls

Programmable room thermostat TP5000 + RF (supplied loose), factory-fitted pump, expansion vessel, pressure relief valve, underfloor flow and return manifolds (incorporating isolating valve and flow gauges).

Amptec

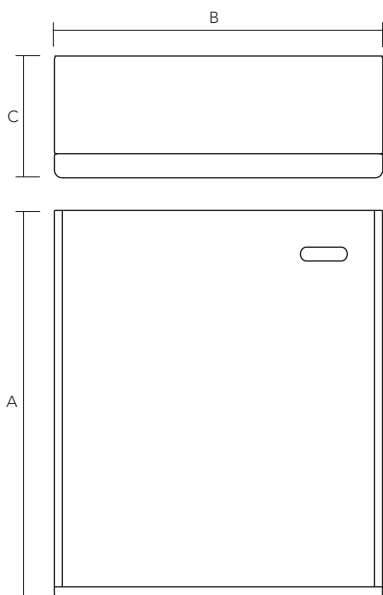


Model	A (mm)	B (mm)	C (mm)	Weight (kg)
C400 / C600 / U401 / U601	1050	90	90	7.5
C900 / C1100 / C1200 / U901 / U1101 / U1201	1050	90	90	8.5

Ordering guide

Model	Product code
Amptec C400 Standard – 4kW	95:022:001
Amptec C600 Standard – 6kW	95:022:002
Amptec C900 Standard – 9kW	95:022:003
Amptec C1100 Standard – 11kW	95:022:004
Amptec C1200 Standard – 12kW	95:022:005
Relay RL1	95:970:134
Relay RL2	95:970:135
Relay RL3	95:970:136
Amptec U401 Underfloor – 4kW	95:022:101
Amptec U601 Underfloor – 6kW	95:022:102
Amptec U901 Underfloor – 9kW	95:022:103
Amptec U1101 Underfloor – 11kW	95:022:104
Amptec U1201 Underfloor – 12kW	95:022:105

Amptec System



Model	A (mm)	B (mm)	C (mm)	Weight (kg)
Amptec System	560	450	170	21

Ordering guide

Model	Product code
Amptec System 2.5kW	95:022:439

Electromax

Combined electric boiler and domestic hot water store.

Our Electromax boiler provides electric wet central heating and domestic hot water with the same comfort and controllability as a gas boiler. Choice of models for use with either standard radiator or underfloor heating systems.



Specification

Capacities

Boiler:

Nominal capacity – 1.3 litres.

Cylinder:

Nominal capacity – 180 litres.

Ratings

Boiler: 6kW @ 240V (5.5kW @ 230V).
9kW @ 240V (8.3kW @ 230V).

Immersion heaters: 2x 3kW @ 240V
(2x 2.8kW @ 230V).

Elements

Boiler: Long life low watts density, copper elements in a copper heat exchanger.

Cylinder: Long life Superloy 825 alloy sheathed elements incorporated into an easily removable heater plate should replacement be necessary.

Outer casing

White stove-enamelled corrosion-resistant steel. Control panel fascia: ABS – light grey.

Insulation

Boiler: Armaflex – closed cell insulation. Dust, fibre and CFC free (ODP zero).

Cylinder: CFC/HCFC free (ODP zero) expanded polyurethane. GWP 2.72 (Global Warming Potential).

Thermostat

Standard boiler: Electronic dual control, user adjustable from 65°C to 80°C.

Underfloor boiler: Electronic dual control, user adjustable from 30°C to 60°C.

Cylinder: Element thermostat adjustable from 10°C to 70°C.

Water container

Boiler: Copper.

Cylinder: Duplex stainless steel with external expansion vessel.

Safety

Boiler: 2 amp fused pump supply, dual control circuits, dual switching of the elements, self-check circuitry and fault indication. Resettable thermal cut-out.

Cylinder: Manually-resettable cut-out on heating element operates at 85°C (feature is an integral part of the thermostat).

Primary circuit

Pressure relief valve factory set to 3 bar. Cylinder fitted with temperature and pressure relief valve, factory set to operate at 10 bar and 90°C.

Pump

Grundfos UPS15-50 (with integral automatic air vent).

Expansion vessels

Primary system expansion vessel (12 litre / 3 bar) factory-fitted.

Potable water expansion vessel (18 litre / 3.5 bar) supplied loose.

Bypass valve

Automatic bypass valve (factory-fitted).

Central heating controls

Supplied with programmable room thermostat. Three 'On' / three 'Off' periods per day. Weekday and weekend can be programmed separately. Battery operated. Polarity-free, bell wire connection to boiler.

Approvals

Nemko to BS EN 60335. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

10 year domestic hot water cylinder guarantee with on-site service support from date of purchase.

Two years on all other components. See page 145 for guarantee details.

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

Floor-mounting.

Plumbing connections

22mm pipework connections on all models. Primary filling loop and Primary drain point valve and hose connector supplied, bottom or side entry via panel knock outs.

Primary system operating pressure

3 bar maximum.

Heating systems

Sealed systems.

Domestic hot water

Cold water control

Integrated cold water control set comprising pressure reducing valve and strainer (factory set at 3.5 bar), expansion relief valve (factory set at 6 bar) and check valve. 22mm compression fittings.

Flow rates

Up to 55 litres per minute @ 6 bar pressure.

Min water requirements

Recommended minimum supply pressure – 1.5 bar / 20 l/min flow rate. If there are any doubts about water supply pressure or flow rates, please contact our Specification Advice Team on Tel: 01603 420220 to discuss.

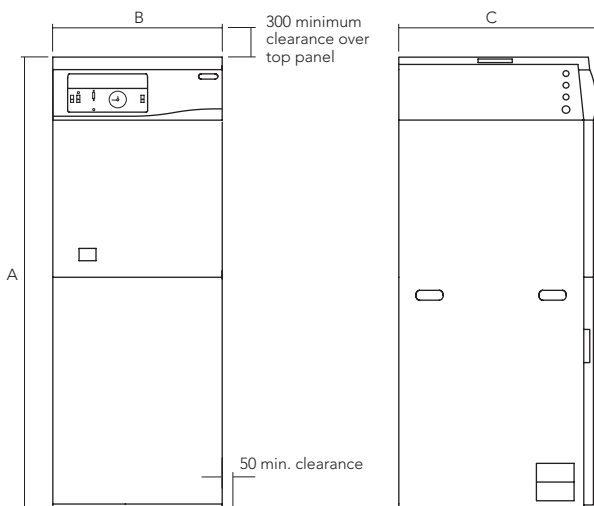
Tundish

Factory-fitted 15mm inlet and 22mm compression outlet.

Electrical

Electric boiler must be permanently connected to electricity supply through a double-pole linked isolating switch with a minimum breaking capacity of 45 amp.

Immersion heaters must be permanently connected to electricity supply through a double-pole linked isolating switch with a minimum breaking capacity of 13 amp. Central heating control is by means of a programmable room thermostat (supplied loose for fitting on-site). All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).



Model	A	B	C	Weight	
	(mm)	(mm)	(mm)	empty (kg)	full (kg)
Electromax – Standard / Underfloor	1476	550	600	74	256

Ordering guide

Model	Product code
Electromax 6kW – Standard radiator System	95:022:204
Electromax 6kW – Underfloor	95:022:304
Electromax 9kW – Standard radiator system	95:022:203
Electromax 9kW – Underfloor	95:022:303

Electromax Solar

Combined electric boiler and domestic solar hot water store.

The Electromax Solar offers a combined and fully packaged solar thermal domestic hot water store and wet electric central heating boiler, with consolidated electronic control and user friendly display.



Specification

Capacities

Cylinder: 185, 220 and 250 litres.

Ratings

Boiler: 9kW @ 240V (8.3kW @ 230V).

Immersion heaters: 2x 3kW @ 240V (2x 2.8kW @ 230V).

Elements

Boiler: Long life low watts density, copper elements in a copper heat exchanger.

Cylinder: Long life Superloy 825 alloy sheathed elements incorporated into an easily-removable heater plate should replacement be necessary.

Outer casing

White stove-enamelled corrosion-resistant steel.

Control panel fascia – ABS white.

Cover – ABS tinted grey.

Thermal insulation

Boiler: Armaflex – closed cell insulation.

Dust, fibre and CFC/HCFC free (ODP zero).

Cylinder: CFC/HCFC Free (ODP zero) expanded polyurethane. GWP 3.1 (Global Warming Potential). HT Armaflex on solar pipes.

Thermostat

Standard boiler: Electronic dual control, user adjustable from 65°C to 80°C.

Underfloor boiler: Electronic dual control, user adjustable from 30°C to 60°C.

Cylinder: Element thermostat adjustable from 10°C to 70°C.

Water container

Boiler: Copper.

Cylinder: Duplex stainless steel with external expansion vessel.

Safety features

Boiler: 2 amp fused pump supply, dual control circuits, dual switching of the elements, self-checking circuitry and fault indication. Resettable thermal cut-out.

Cylinder: Manually resettable cut-out on heating element operates at 85°C.

Primary circuit

Pressure relief valve factory set to 3.5 bar.

Cylinder fitted with temperature and pressure relief valve, factory set to operate at 10 bar / 90°C.

Primary system pump

Grundfos UPS15-50 (with integral automatic air vent).

Solar system pump

Grundfos Solar UPS15-65.

Expansion vessels

Primary system: 12 litre 3 bar, factory fitted.

Potable water: 18 litre 3.5 bar, factory fitted.

Solar: 24 litre, 1.5 bar, supplied loose.

Approvals

Kiwa approved. CE marked.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

10 year domestic hot water cylinder guarantee with on-site service support from date of purchase.

Two years on all other components. See page 145 for guarantee details.

Installation

The Electromax Solar must be installed by a competent installer in accordance with Local Building Regulations. Please contact your local building regulations officer for further advice.

Location

Must be floor mounted. A fixing template is provided to assist. The location should consider access for service and maintenance and routes for discharge.

Water supply

Can be connected to a maximum flow rate of 55 litres per minute and a maximum supply pressure of 16 bar (reduced to 3.5). It is recommended that flow rates are no lower than 20 litres per minute and pressure is no lower than 1.5 bar.

Domestic hot water connections

Cold water inlet and hot water outlet connections are made by 22mm compression fitting at the bottom right hand side of the Electromax Solar. Pipe entry can be from the right hand side (via knock out panels) or directly below.

Solar connections

Solar flow and solar return connections are made by 22mm compression fitting at the top left side of the Electromax Solar.

Central heating connections

Central heating flow and return connections are made by 22mm compression fitting at the bottom left hand side of the Electromax Solar. Pipe entry can be from the left hand side (via knock out panels) or directly below.

Discharge

Discharge pipe work from the factory-fitted T&P valve should be installed in accordance with local building regulations. Discharge pipework is also required from the cold water combination valve. Discharge pipework is also required from the solar pressure reducing valve.

Electrical

Designed for connection to an off-peak electricity supply. Please contact your electricity supplier for details of available tariffs. The electric flow boiler must be permanently connected to the electricity supply via a double-pole isolating switch with a minimum breaking capacity of 45 amps. The control panel and immersion heaters must be permanently connected to the electricity supply via a double pole isolating switch with a minimum breaking capacity of 13 amps.

External components

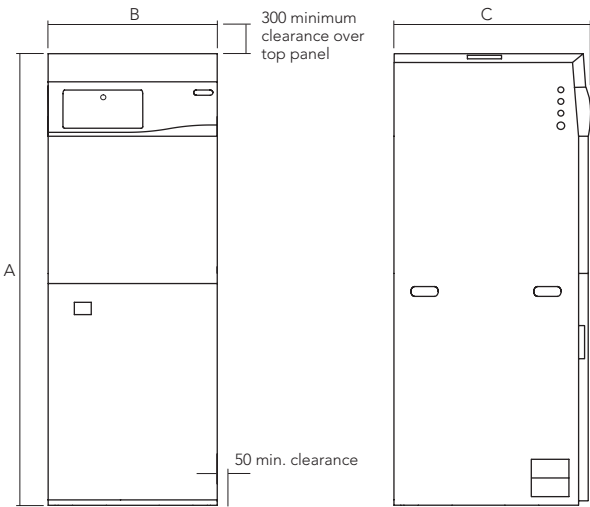
Solar collectors – a range of solar collector kits are available to suit different property types.

Solar expansion vessel – the solar expansion vessel is wall-mounted (bracket and fixings supplied), it must be plumbed into the solar return pipework between the Electromax Solar and collector(s) and should be sited as close to the Electromax Solar as possible.

Solar diverter valve (East / West arrays only) – the Solar diverter valve is plumbed into the solar return pipework between the expansion vessel and collectors. Connection is made by 22mm compression fittings.

Cold water combination valve – the cold water combination valve is plumbed into the mains water supply before the Electromax Solar. Connection is made by 22mm compression fittings.

Programmable room thermostat – the programmable room thermostat is wall mounted and should be wired to the Electromax Solar.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Electromax Solar 185	1580	550	600	94	279
Electromax Solar 220	1800	550	600	105.5	325.5
Electromax Solar 250	1990	550	600	112	362

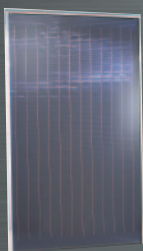
Ordering guide

Model	Product code
Electromax Solar 185 Radiator	95:022:212
Electromax Solar 220 Radiator	95:022:214
Electromax Solar 250 Radiator	95:022:215
Electromax Solar 185 Radiator East / West Array	95:022:216
Electromax Solar 220 Radiator East / West Array	95:022:217
Electromax Solar 250 Radiator East / West Array	95:022:218
Electromax Solar 185 Underfloor	95:022:312
Electromax Solar 220 Underfloor	95:022:314
Electromax Solar 250 Underfloor	95:022:315
Electromax Solar 185 Underfloor East / West Array	95:022:316
Electromax Solar 220 Underfloor East / West Array	95:022:317
Electromax Solar 250 Underfloor East / West Array	95:022:318

Solar collectors

On-roof / In-roof.

A complete range of panel options to meet individual needs, tastes and requirements. High quality, solar key mark accredited for a range of different installations for on-roof, in-roof or flat roof applications to effectively and efficiently harness natural energy from the sun.



On-roof

Ideal for those who wish to install solar thermal domestic hot water to a current building, without having to disturb too much of the existing roof structure.

- Flat plate aluminium frame collector provides complete weather protection.
- Ultrasonic welded (not soldered) so can withstand high temperatures.

Slate and Tile system includes:

- 1, 2 or 3 panels, mounting brackets.

A Frame system includes:

- 1, 2 or 3 panels, A Frame.

In-roof

The perfect choice for all new build developments.

- Flat plate wooden frame collectors.
- Ultrasonic welded (not soldered) so can withstand high temperatures.

Slate in-roof system includes:

- 1 or 2 panels, mounting brackets, flashing kit.

Tile in-roof system includes:

- 1 or 2 panels, mounting brackets, flashing kit.

Specification

Gross Area

On-roof: 2.02m². In-roof: 2.52m².

Net Area

On-roof: 1.84m². In-roof: 2.32m².

Weight

On-roof: 39kg. In-roof: 54kg.

Absorber capacity

On-roof: 1.4 litres. In-roof: 1.7 litres.

Maximum Pressure

1.0 MPa (10 bar).

Absorption

95% ±2%.

Emission

5% ±2%.

Stagnation temperature

On-roof: 184°C (max).

In-roof: 210°C (max).

Glass

Low-iron solar glass, tempered, 3.2mm thick.

Light transmittance

90.8% ±2%.

Insulation

On-roof: 40mm. In-roof: 50mm.

Rockwool with black fleece. Heat conductivity 0.045 W/m²K. Gross density 50-80 kg/m³.

A range of optional installation accessories are available, contact Heatrae Sadia for more information.

Sizing guide

Property type	Occupants	Electromax	Panel
1 Bed Flat	1-2	185	1
2 Bed Flat / House	2-3	220	1
3 Bed House	3-4	250	2

The table above shows recommended Electromax Solar and collector installations. This table is for guidance only. Our Specification Advice Team should be called to discuss design and requirements for specific sites. Tel: 01603 420220.

Technical data

	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Maximum pressure (bar)	Shutdown temperature (°C)
On-roof	1730	1170	83	35	10	234
In-roof	2058	1227	105	49	10	234

Performance

	Area (m ²)	Zero loss co-efficient (W/m ² K)	Heat loss co-efficient (W/m ² K)
On-roof			
Aperture area	1.922	0.756	4.067
Absorber area	1.840	0.790	4.248
In-roof			
Aperture area	2.32	0.780	3.796
Absorber area	2.29	0.791	3.846

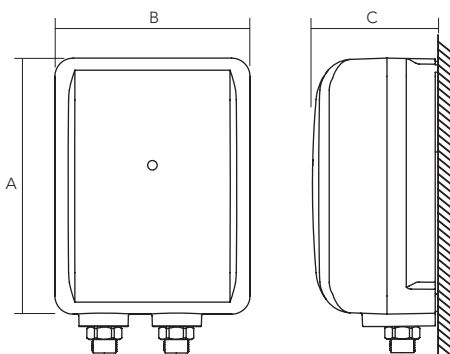
Ordering guide

Slate and Tile on-roof system	Product code
1 panel	95:970:517
2 panels	95:970:518
2 panels – East / West Array	95:970:519
3 panels – East / West Array	95:970:520
A Frame system	
1 panel	95:970:521
2 panels	95:970:522
Slate in-roof system	
1 panel	95:970:523
2 panels	95:970:524
2 panels – East / West Array	95:970:527
3 panels – East / West Array	95:970:528
Tile in-roof system	
1 panel	95:970:525
2 panels	95:970:526
2 panels – East / West Array	95:970:529
3 panels – East / West Array	95:970:530

Multipoint Instantaneous

Instantaneous water heater.

Multipoint Instantaneous is a compact instantaneous water heater. It can supply a shower outlet and / or spray tap, provided only one outlet is used at a time. Ideal for supplying hot water to a remote area, such as a garage or cloakroom.



Model	A (mm)	B (mm)	C (mm)
Multipoint Instantaneous	210	160	104

Specification

Controls

A reed switch activates the unit when the water flows. A pre-set safety cut-out set at 88°C (190°F) prevents overheating should abnormal conditions arise.

Casing

Moulded from white ABS.

Inner container

Glass reinforced plastic cylinder, complete with inlet / outlet connections and element. A drain plug is fitted to drain the container to prevent freezing if left in winter.

Ingress protection

IPX5.

Approvals

BEAB and Kiwa approved.
CE marked.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Fittings

A pressure relief valve set to relieve at 10 bar is provided together with a tee-piece which must be fitted on the cold water inlet. This valve **MUST** be connected to waste (drain) via a tundish and the drain pipe should fall continuously and be of 22mm bore discharging in a safe visible manner. The pipe must not be reduced in bore or blocked under any circumstances and it should be protected from frost.

Pressure range

Minimum: 1 bar.
Maximum: 7 bar.

Connections

½" BSP inlet and outlet.

Electrical

Must be permanently connected to the electrical supply through a double pole isolating switch with a minimum rating of 30A (for 7kW) and 40A for (9kW model). All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Ordering guide

Model	Product code
Multipoint Instantaneous 7kW	95:050:424
Multipoint Instantaneous 9kW	95:050:425

Immersion heaters

Titanium



Our Titanium Immersion Heater sets a new standard for operational life – even in the hardest or most aggressive water conditions. To underline the effectiveness of Titanium, we offer an impressive five year guarantee giving users absolute peace of mind.

Specification

Rating

3kW @ 240V (2.8kW @ 230V).

Lengths

3 lengths 280, 356 and 686mm (11", 14" and 27").

Sheath

Titanium.

Thermostat

RDT combined thermostat and resettable safety cut-out adjustable from 10°C to 60°C.

Approvals

CE marked.

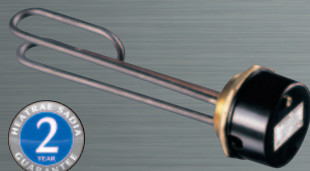
Guarantee

Five year immersion heater parts only guarantee. Two years on the thermostat. See page 145 for guarantee details.

Installation

Horizontal (11" and 14") or vertical (27") mounting in 2¼" BSP threaded boss. Electrical connections should be made in heat-resisting cable in accordance with the instructions provided.

Superloy



Range of immersion heaters for use in aggressive water areas.

Specification

Rating

3kW @ 240V (2.8kW @ 230V).

Lengths

3 lengths 280, 686 and 914mm (11", 27" and 36").

Sheath

Superloy 800 alloy.

Thermostat

RDT combined thermostat and resettable safety cut-out adjustable from 10°C to 60°C.

Approvals

BEAB approved to UK water supply regulations. CE marked.

Guarantee

Two year product parts only guarantee. See page 145 for guarantee details.

Installation

Horizontal (11" or vertical (27" and 36") mounting in 2¼" BSP threaded boss. Electrical connections should be made in heat-resisting cable in accordance with the instructions inside the terminal cover.

Maxistore



A high-performance Superloy 825 sheathed 14" immersion heater recommended for use in conjunction with off-peak tariffs.

Specification

Rating

3kW @ 240V (2.8kW @ 230V).

Length

356mm (14").

Sheath

Superloy 825 alloy.

Thermostat

RDT combined thermostat and resettable safety cut-out adjustable from 10°C to 60°C.

Approvals

BEAB approved to UK water supply regulations. CE marked.

Guarantee

Two year product parts only guarantee. See page 145 for guarantee details.

Installation

Horizontal mounting in 2¼" BSP threaded boss. Electrical connections should be made in heat-resisting cable in accordance with the instructions inside the terminal cover.

Gold Dot



A range of 3kW rod-type immersion heaters suitable as the sole heat source or for use in association with an indirect heating coil.

Specification

Rating

3kW @ 240V (2.8kW @ 230V).

Lengths

5 lengths 280, 356, 686, 762 and 914mm (11", 14", 27", 30" and 36").

Sheath

Copper.

Thermostat

RDT combined thermostat and resettable safety cut-out adjustable from 10°C to 60°C.

Approvals

BEAB approved to UK water supply regulations. CE marked.

Guarantee

Two year product parts only guarantee. See page 145 for guarantee details.

Installation

Horizontal (11" and 14") or vertical (27", 30" and 36") mounting in 2¼" BSP threaded boss. Electrical connections should be made in heat-resisting cable in accordance with the instructions inside the terminal cover.

Immersion heaters

RDT resettable thermostats



All our domestic immersion heaters are fitted as standard with an RDT combined thermostat and resettable safety cut-out. The range of RDT thermostats provide a simple method of upgrading immersion heaters to the standard BS EN 60335-2-73 without the need for draining down the hot water cylinder.

Specification

Rating

16A @ 240V.

Lengths

3 lengths: 178, 280 and 458mm (7", 11" and 18").

Setting

Adjustable temperature range from 10°C to 60°C. Factory pre-set to 60°C.

Safety

Manual reset feature incorporating "MFS Technology".

Approvals

CE marked.

Guarantee

Two year product parts only guarantee. See page 145 for guarantee details.

Ordering guide

Model	Product code
Titanium	
Titanium 11"	95:110:400R
Titanium 14"	95:110:403R
Titanium 27"	95:110:401R
Superloy	
Superloy 800 11"	95:110:901R
Superloy 800 27"	95:110:905R
Superloy 800 36"	95:110:907R
Maxistore	
Maxistore 14"	95:110:721R
Gold Dot	
Gold Dot 11"	95:110:302R
Gold Dot 14"	95:110:303R
Gold Dot 27"	95:110:306R
Gold Dot 30"	95:110:307R
Gold Dot 36"	95:110:308R
RDT resettable thermostats	
RDT 7"	95:980:034
RDT 11" (Horizontal)	95:980:035
RDT 11" (Vertical)	95:980:043
RDT 18"	95:980:036



Commercial Hot Water

Point of use

Streamline	68
Express	70
UTC 99	72
B3M / C3M	74

Unvented

Hotflo	80
Multipoint	86
Multipoint SS	98

Cistern-type

FBM	100
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Hand hygiene

Handy	104
Handy No Touch	106

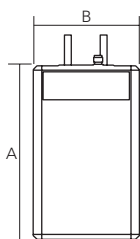
Warm air dryers

Handy Dri	108
Hair Drier	112

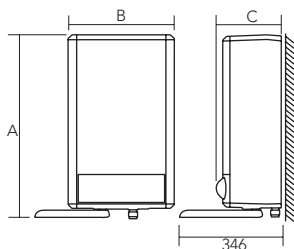
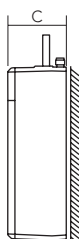
Streamline

Vented point of use hot water.

An attractive open-outlet point of use product, Streamline is available as a complete undersink or oversink unit. The undersink unit is to be used in conjunction with Heatrae Sadia open vented taps.



Streamline undersink



Streamline oversink

Model	A (mm)	B (mm)	C (mm)	Capacity (litre)	Weight (kg)	
					empty	full
Streamline undersink	477	290	178	7	3.4	10.4
Streamline undersink	477	290	278	10	3.8	13.8
Streamline oversink	500	290	178	7	3.6	10.6
Streamline oversink	500	290	278	10	4	14

Specification

Capacities

7 and 10 litre.

Rating

1kW, 3kW @ 240V, (0.9kW, 2.8kW @ 230V).

Outer casing

White moulded thermoplastic.

Thermal insulation

CFC/HCFC free (ODP zero) flame-retardant expanded polystyrene.

Water container

Polypropylene, tested to 0.5 bar (7psi).

Heat unit

Rod-type alloy sheathed element.

Thermostat

Capillary-type, externally adjustable from 5°C to 70°C.

Safety features

Dry start cut-out. Frost protection thermostat setting.

Thermostat setting lockable at 40°C for hand washing.

Approvals

Nemko approved. CE marked.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Only our vented taps must be used with Streamline heaters. See page 76.

Fixing

Bracket, screws and plugs supplied for wall-mounting.

Plumbing

All installations should be fitted with a service valve to facilitate maintenance (not supplied).

Minimum inlet pressure should be 0.34 bar (5psi) at which maximum flow is 5 litres/min. A flow restrictor (available as an accessory) should be fitted for inlet pressures above 0.69 bar (10psi) to limit flow to 7 litres/min.

Supply direct from rising main or cistern (minimum head 4m) using 15mm O/D pipe. Cistern supply is not possible for all outlet types; consult Heatrae Sadia for further advice.

NOTE: Only Heatrae Sadia vented taps must be used with Streamline heaters.

Electrical

Cable entry at rear or base of unit for oversink installations and at rear or top for undersink installations. Must be permanently connected to the electrical supply through a double-pole linked isolating switch with a minimum rating of 13A (3kW model) or 5A (1kW model). Must conform to current IEE wiring regulations.

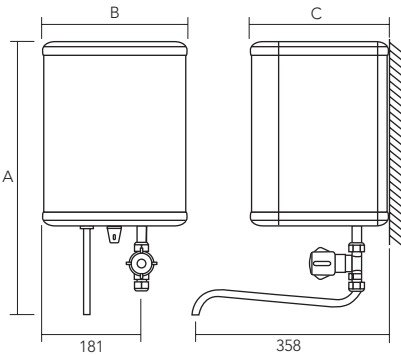
Ordering guide

Model	Product code
Streamline 7 1kW undersink	95:010:280
Streamline 7 3kW undersink	95:010:282
Streamline 10 1kW undersink	95:010:284
Streamline 10 3kW undersink	95:010:286
Streamline 7 1kW oversink	95:010:281
Streamline 7 3kW oversink	95:010:283
Streamline 10 1kW oversink	95:010:285
Streamline 10 3kW oversink	95:010:287

Express

Vented point of use hot water.

A robust steel-cased unit, suitable for oversink or undersink use in commercial or industrial situations such as canteens and workshops. Available in two capacities, with a choice of kW rating with the 7 litre model.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Express 7	499	263	250	5	12
Express 15	748	263	250	8	23

Specification

Capacities

7 and 15 litre.

Ratings

7 litre – 1kW, 3kW @ 240V.

(0.9kW, 2.8kW @ 230V).

15 litre – 3kW @ 240V.

(2.8kW @ 230V).

Outer casing

White stove-enamelled corrosion-resistant steel with white trim.

Insulation

CFC/HCFC free (ODP zero) flame-retardant expanded polystyrene.

GWP 2.72 (Global Warming Potential).

Water container

Tested to 0.5 bar (7psi).

Heat unit

Rod-type alloy sheathed element mounted on a detachable plate.

Thermostat

Capillary-type thermostat adjustable from 5°C to 75°C.

Safety

Dry start cut-out.

Approvals

BEAB and Kiwa approved.

CE marked.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Only our vented taps or accessories must be used with Express heaters. See page 76.

Fixing

Wall-mounting by three keyhole fixings using screws and plugs supplied. A template is provided to assist in positioning.

Plumbing

Supply direct from rising main or cistern (minimum head 4m).

For oversink installations the inlet connection uses a 15mm compression fitting via valve provided. Outlet spout is a push-fit. For undersink installation connections must be from base of unit using 15mm compression or push-fit inlet and 15mm push-fit outlet connection. Vented tap packs J, K, M, P, Q, R, S/T, W, X or Y are also required for undersink installation.

Electrical

Cable entry in base of unit. Must be permanently connected to the electrical supply through a double-pole linked isolating switch with a minimum rating of 13 amp (3kW models) or 5 amp (1kW model). All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

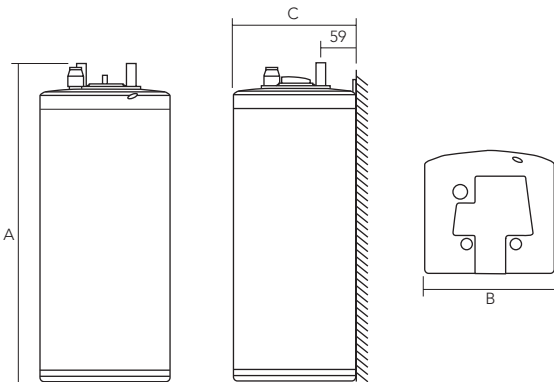
Ordering guide

Model	Product code
Express 7 1kW	95:010:160
Express 7 3kW	95:010:161
Express 15 3kW	95:010:162
Telescopic spout (380-610mm)	95:970:103
15 x 15 push-fit connector for undersink fitting	95:970:110

UTC 99

Vented point of use hot water.

A sturdy 15 litre undersink water heater, ideal for light duty kitchens or similar applications. It can be used as an open-outlet unit supplying a vented tap or as a cistern-fed unit supplying up to two ordinary taps provided a vent pipe is installed straight back to the header tank.



Model	A	B	C	Weight (kg)	
	(mm)	(mm)	(mm)	empty	full
UTC99	656	267	252	8.4	23.4

Specification

Capacity
15 litre.

Ratings
1.5kW, 3kW @ 240V.
(1.4kW, 2.8kW @ 230V).

Outer casing
White plastic top moulding with corrosion-proof steel base and centre section, finished in white stove-enamel.

Insulation
CFC/HCFC free (ODP zero) flame-retardant expanded polystyrene. GWP 2.72 (Global Warming Potential).

Water container
Heavy gauge copper, tested to 3 bar (44 psi).

Heat unit
Replaceable embedded rod-type element sheathed in corrosion-resistant alloy.

Thermostat
Rod-type externally adjustable from 10°C to 70°C.

Safety
Resettable over-temperature cut-out.

Approvals
CE marked.
Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee
Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

When installed as an open outlet water heater only our vented taps must be used. See page 76.

Fixing
Bracket supplied for wall fixing. Alternatively, UTC 99 can be floor standing.

Plumbing
15mm copper pipe connections for cold water inlet and hot water outlet at top. When used as an Open Outlet unit, UTC 99 can serve one basin or sink using Streamline tap pack options J, K, M, P, Q, R, S/T, W, X or Y. As a cistern-fed unit, it can serve up to two ordinary taps, provided a vent pipe is installed straight back to the header tank and the amount of stored water is sufficient for the application.

Electrical
Must be permanently connected to the electrical supply through a double-pole linked isolating switch with a 13 amp minimum rating. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

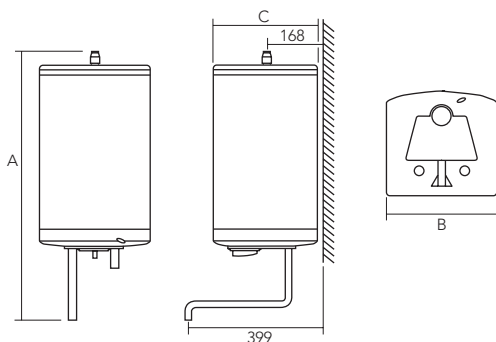
Ordering guide

Model	Product code
UTC 99 1.5kW	95:010:702
UTC 99 3kW	95:010:703

B3M / C3M

Vented point of use hot water.

Medium capacity wall-mounted vented water heaters ideal for dishwashing and similar applications. B3M (30 litre) and C3M (50 litre), can be used in open-outlet form to supply vented taps or the spout provided. They may also be used as cistern-fed units to supply several ordinary taps.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
B3M	868	370	352	12.5	42.5
C3M	1138	370	352	19.3	69.3

Specification

Capacities

B3M 30 litre, C3M 50 litre.

Rating

3kW @ 240V. (2.8kW @ 230V).

Outer casing

White plastic top and bottom moulding with corrosion-proof steel centre section, finished in white stove-enamel.

Insulation

CFC/HCFC free (ODP zero) flame-retardant expanded polyurethane. GWP 3.1 (Global Warming Potential).

Water container

Heavy gauge copper, tested to 3 bar (44 psi).

Heat unit

Replaceable embedded rod-type element sheathed in corrosion-resistant alloy.

Thermostat

Capillary-type adjustable from 5°C to 75°C.

Safety

Resettable over-temperature cut-out.

Approvals

CE marked.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

When installed as an open outlet water heater only, our vented taps must be used. See page 76.

Fixing

Wall fixing only (bracket supplied).

Plumbing

15mm copper pipe connections for cold water inlet and hot water outlet at the base of the unit, vent at the top. Can be installed as a cistern-fed unit to serve several ordinary taps, provided a vent pipe is installed straight back to the header tank and the amount of stored water is sufficient for the application.

When used as an open outlet unit, it can serve one basin or sink using Streamline vented tap pack options: tap packs J, K, M, P, Q, R, S/T, W, X or Y.

Electrical

Must be permanently connected to the electrical supply through a double-pole linked isolating switch with a 13 amp minimum rating.

All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Ordering guide

Model	Product code
B3M – 30 litre	95:030:103
C3M – 50 litre	95:030:104
Telescopic spout (380-610mm)	95:970:103

Taps and accessories

We offers a wide range of accessories for use with its point-of-use water heaters. Only our vented (open-outlet) taps, mixers and spouts must be used with this type of heater.

Undersink

Streamline 1000*† – A standard monobloc mixer tap.



Pack J† – Two-hole mixer tap. Chrome plated and elegantly styled.



Streamline 2000*† – A monobloc mixer tap with pop-up waste fitting (pop-up waste fitting suitable for ceramic sinks only).



Pack K† – Monobloc mixer tap. A graceful design, ideal for the modern kitchen.



Streamline 2000 elbow lever*† – A monobloc mixer tap with elbow lever and pop-up waste fitting, ideal for surgical / medical environments (pop-up waste fitting suitable for ceramic sinks only).



Pack M† – Elbow pillar tap. ¼ turn lever, ideal for surgical / medical environments (hot and cold taps supplied).



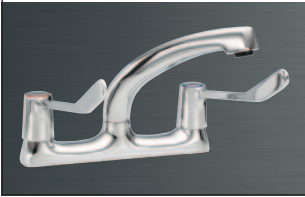
Streamline 3000† – A standard monobloc mixer tap with long spout. Ideal for kitchen sinks.



Pack P† – Elbow basin tap. ¼ turn lever, ideal for surgical / medical environments (hot and cold taps supplied).



Pack Q† – Two-hole elbow mixer tap. ¼ turn levers, ideal for surgical / medical environments.



Pack W† – Pillar tap with ¼ turn short lever handles (hot and cold supplied).



Pack R† – Pillar taps (hot and cold taps supplied).



Pack X† – Basin taps with ¼ turn short lever handles.



Pack S/T† – Basin hot and cold taps.

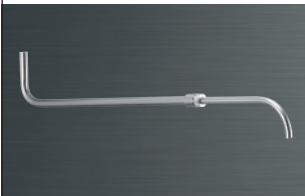


Pack Y† – Two-holed mixer tap, ¼ turn short lever.



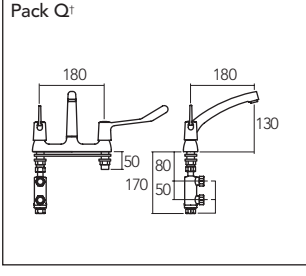
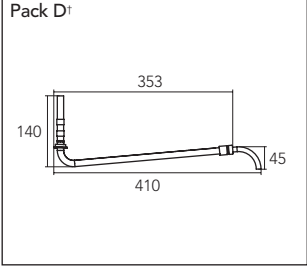
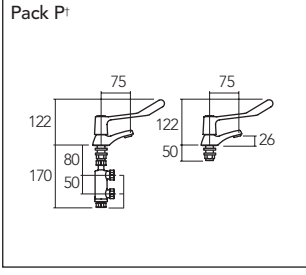
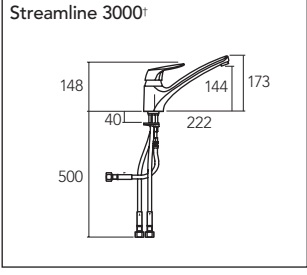
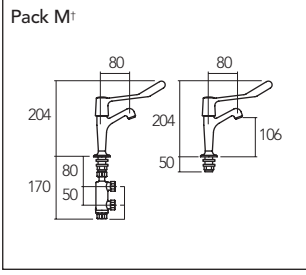
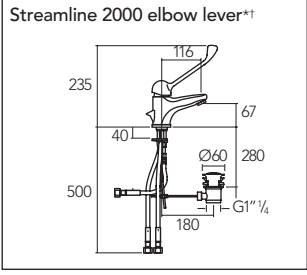
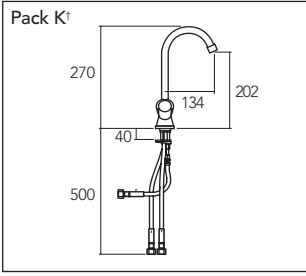
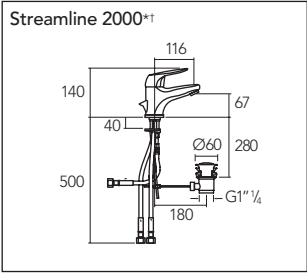
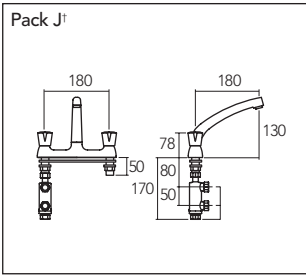
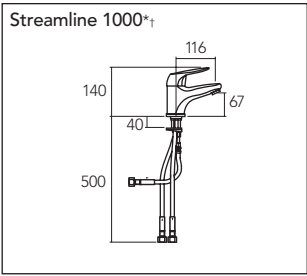
Oversink

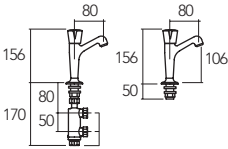
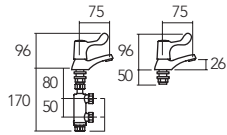
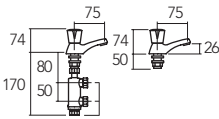
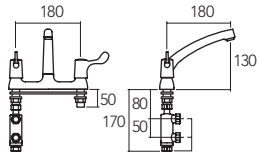
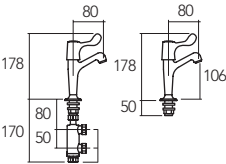
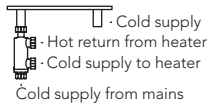
Pack D – Telescopic spout (380-610mm)



* IMPORTANT: Streamline 1000 / 2000 for sinks and basins with 37 to 39mm tap holes.

† Product appearance may vary slightly from that shown. Performance and function will remain the same.



Pack R†

Pack X†

Pack S/T†

Pack Y†

Pack W†

**Connections for Packs
J, M, P, Q, R and S**


Ordering guide

Model	Product code
Streamline 1000*†	95:970:320
Streamline 2000*†	95:970:321
Streamline 2000 elbow lever*†	95:970:322
Streamline 3000†	95:970:347
Pack D†	95:970:513
Pack J†	95:970:514
Pack K†	95:970:515
Pack M†	95:970:323
Pack P†	95:970:324
Pack Q†	95:970:325
Pack R†	95:970:516
Pack S/T†	95:970:317
Pack W†	95:970:318
Pack X†	95:970:315
Pack Y†	95:970:316

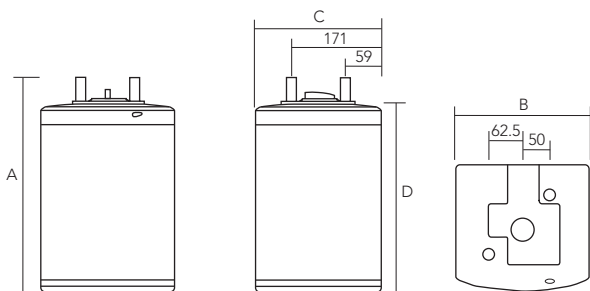
* IMPORTANT: Streamline 1000 / 2000 for sinks and basins with 37 to 39mm tap holes.

† Product appearance may vary slightly from that shown. Performance and function will remain the same.

Hotflo 10 / 15

Unvented point of use hot water.

Hotflo can service up to three basins and has a copper inner container, requiring no anode, to achieve optimum performance in terms of durability and corrosion-resistance. A temperature and pressure relief valve or thermostatic blending valves (if required), must be ordered separately.



Model	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)	
					empty	full
Hotflo 10	500	267	252	457	6.5	16.5
Hotflo 15	656	267	252	613	8.4	23.4

Specification

Capacities

10 and 15 litre.

Rating

2.2kW @ 240V. (2kW @ 230V).

Outer casing

White plastic top moulding with corrosion-proof steel base and centre section, finished in white stove-enamel.

Insulation

CFC/HCFC free (ODP zero) flame-retardant expanded polystyrene. GWP 2.72 (Global Warming Potential).

Water container

Replaceable heavy gauge copper inner container, designed for 6 bar working pressure and tested to 12 bar (168psi).

Heat unit

Embedded rod-type element sheathed in corrosion-resistant alloy.

Thermostat

Rod-type externally adjustable from 10°C to 70°C.

Safety

Pressure relief valve set to open at 6 bar. Resettable over-temperature cut-out.

Approvals

BEAB and Kiwa approved. CE marked.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Fixing

Must be mounted in the vertical position with inlet / outlet at the top. Floor or wall-mounted (three screws / keyhole slots).

Plumbing

15mm copper tail ends. Minimum water pressure 0.8 bar (12 psi). For pressures above 4.1 bar (60 psi), Packs U1 and U5 must be used. NB: The pressure relief valve supplied must always be fitted. See accessory installation selection guide on page 82.

Temperature and pressure relief valve

Optional Pack U6 – see accessory selection guide on page 84.

Safety valve discharge

The pressure relief (expansion) valve or temperature and pressure relief valve (if used) must be plumbed to discharge in a safe visible location.

Optional thermostatic blending valve

Accessory Packs U3 and U7 (see page 85) allow water to be stored at high temperature and blended with cold to a preset outlet temperature.

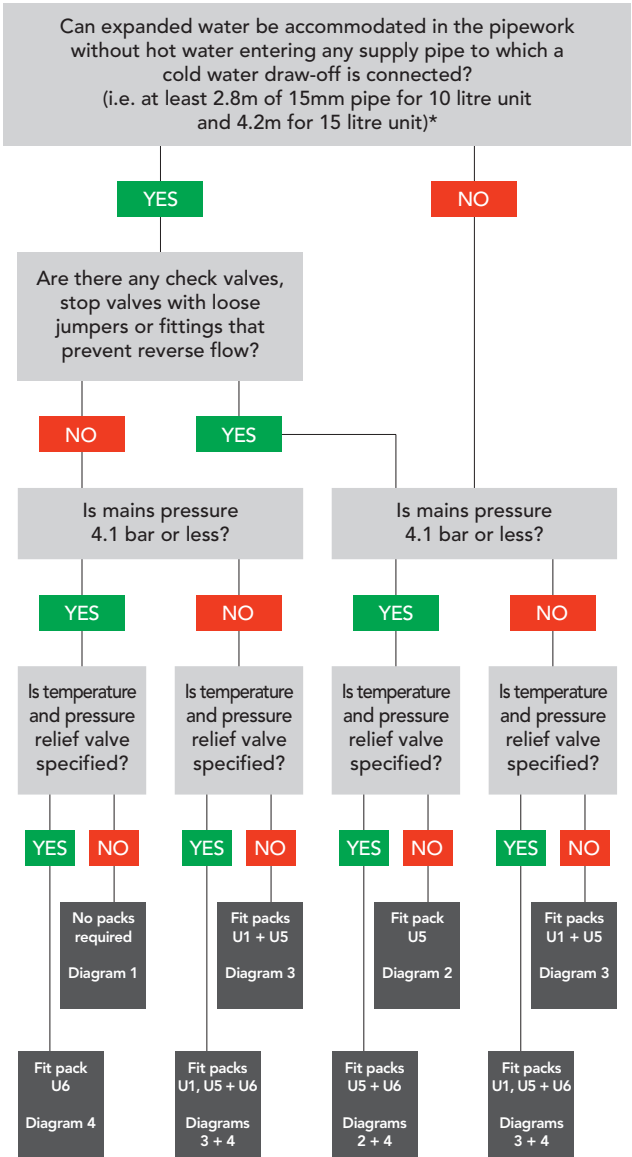
Electrical

The unit must be permanently connected to the electrical supply through a double-pole linked switch with minimum breaking capacity of 13 amp. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Ordering guide

Model	Product code
Hotflo 10	95:050:148
Hotflo 15	95:050:149

Hotflo pack selection chart and installation guide



*If the expansion in the cold main is restricted, for example by a stop valve, check valve or water meter, an accessory pack which includes an expansion vessel must be fitted. See diagrams 2 and 3.

Diagram 1 For Inlet Water Pressure up to 4.1 bar (60 psi).*

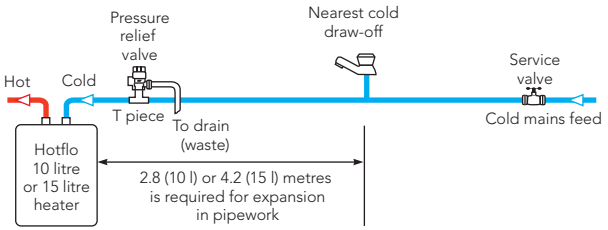


Diagram 2 For Inlet Water Pressure up to 4.1 bar (60 psi) where expansion down the mains is not possible.

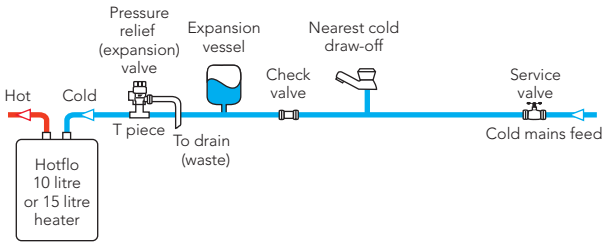


Diagram 3 For Inlet Water Pressure above 4.1 bar (60 psi).

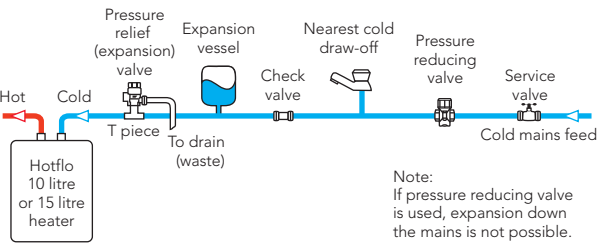
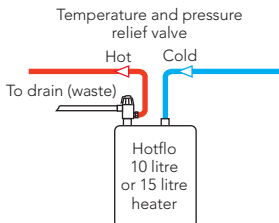


Diagram 4 Temperature and Pressure relief valve – additional safety feature. Suitable for use with diagram 1, 2 or 3 above.



Hotflo accessories

A full range of accessories are available for installation with Hotflo 10 and 15. These are supplied as accessory packs.

When installing small unvented water heaters, it is essential that the correct accessory packs are used. The selection guides on pages 82-83 indicate the appropriate pack(s) for different heaters and situations.

If the expansion in the cold main is restricted, for example by a stop valve, check valve or water meter, an accessory pack which includes an expansion vessel must be fitted. See diagrams 2 and 3 on page 83.

A knowledge of the maximum incoming water pressure is an essential requirement prior to installation; where this is not known the local Water Authority should be consulted.

Pack U1 – Combined pressure reducing valve and strainer



Pressure reducing valve limits water pressure to 3.5 bar (50 psi).

Strainer filters coarse impurities from the water supply.

Connection ½" BSP female.

Installation Pack U1 must be installed on the cold inlet side of the heater and before the expansion vessel. Where possible, installation should be on the mains side of the cold water tap draw-off. This will result in balanced water supplies and is particularly important when mixers are to be used.

Pack U1 must be used with Pack U5.

Pack U5 – Expansion vessel and check valve



The expansion vessel when fully charged, will absorb all expanded water produced by the Hotflo heater during normal operation.

Connection ½" BSP male; precharged 4.1 bar.

The check valve prevents backflow of hot water and eliminates any possibility of cross-contamination between cold and hot water.

Connections 15mm compression.

Installation Pack U5 must be fitted on the inlet side and in close proximity to the heater as shown in diagrams 2 and 3 on page 83.

Pack U6 – Temperature and pressure relief valve



The temperature and pressure relief valve is recommended by us to give an additional level of safety to Hotflo. It is pre-set to open at 7 bar (101.5 psi) and 90°C. Pack U6 is the only temperature and pressure relief valve recommended for use with Hotflo unvented heaters.

Connections Inlet and outlet 15mm compression drain ½" BSP female.

Installation Pack U6 valve is connected to the outlet connection on top of the Hotflo heater. See diagram 4 on page 83.

Thermostatic blending valves allow water to be stored at high temperatures and blended with cold water to a preset outlet temperature. This provides over-temperature protection, and is ideal for the control of Legionellae and the extension of system capacities.

Pack U3 – TMV2



Connection 15mm compression.

Allows water to be safely stored above 60°C.

Precisely controls outlet water temperature (range from 35°C to 60°C).

Lockable control knob.

Fail-safe shutdown.

Incorporates check valves to prevent cross contamination.

Operating pressure from 0.2 to 6 bar.

Pack U7 – TMV3



Connection 15mm compression.

Fully approved under the TMV3 scheme to the DO8 specification.

Allows water to be safely stored above 60°C.

Precisely controls outlet water temperature (range from 38°C to 46°C).

Unique adjuster key to prevent unauthorised temperature adjustment.

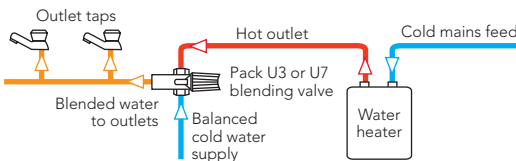
Fail-safe shutdown.

Incorporates check valves to prevent cross contamination.

Operating pressure from 0.2 to 5 bar.

Installation diagram and advice

We offers a dedicated specifier advice line to provide information and advice on specification and installation. This is supported by a fully-trained national sales team, all of whom are qualified to provide further guidance and support locally.



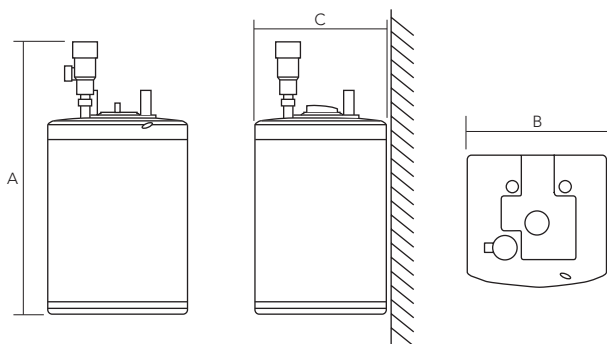
Ordering guide

Model	Product code
Pack U1	95:970:352
Pack U3	95:970:354
Pack U5	95:970:356
Pack U6	95:970:359
Pack U7	95:970:360

Multipoint 10 / 15

Unvented point of use hot water.

Multipoint is the market-leading range of small unvented water heaters. This range is quick and easy to install with a choice of element ratings. It is supplied with a factory-fitted temperature and pressure relief valve.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Multipoint 10	572	267	252	6.9	16.9
Multipoint 15	728	267	252	8.8	23.8

Specification

Capacities

10 and 15 litre.

Ratings

3kW, 4.5kW @ 240V.
(2.8kW, 4.1kW @ 230V).

Outer casing

White plastic top moulding with corrosion-proof steel base and centre section, finished in white stove-enamel.

Insulation

CFC/HCFC free (ODP zero) flame-retardant expanded polystyrene. GWP 2.72 (Global Warming Potential).

Water container

Replaceable heavy gauge copper inner container, designed for 6 bar (87psi) working pressure and tested to 12 bar (168psi).

Heat unit

Replaceable, alloy sheathed rod-type element.

Thermostat

Rod-type externally adjustable from 10°C to 70°C, lockable in hot or mid-range position.

Safety

Factory-fitted temperature and pressure relief valve opens at 7 bar (100 psi) or 90°C. Resettable over-temperature cut-out.

Approvals

Kiwa approved. 3kW models are also Nemko approved. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Five year copper inner container guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Fixing

Must be mounted in the vertical position with inlet / outlet at the top. Floor or wall-mounted (three screws / keyhole slots).

Plumbing

15mm copper tail ends. Minimum water pressure 0.8 bar (12 psi). For pressures above 4.1 bar (60 psi), Packs U1 and U2 must be used. See accessory installation selection guide on page 88. NB: The temperature and pressure relief valve supplied must always be fitted.

Safety valve discharge

The temperature and pressure relief valve must be plumbed to discharge in a safe visible location.

Optional thermostatic blending valve

Accessory Packs U3 and Pack U7 (see page 91) allow water to be stored at high temperature and blended with cold to a preset outlet temperature.

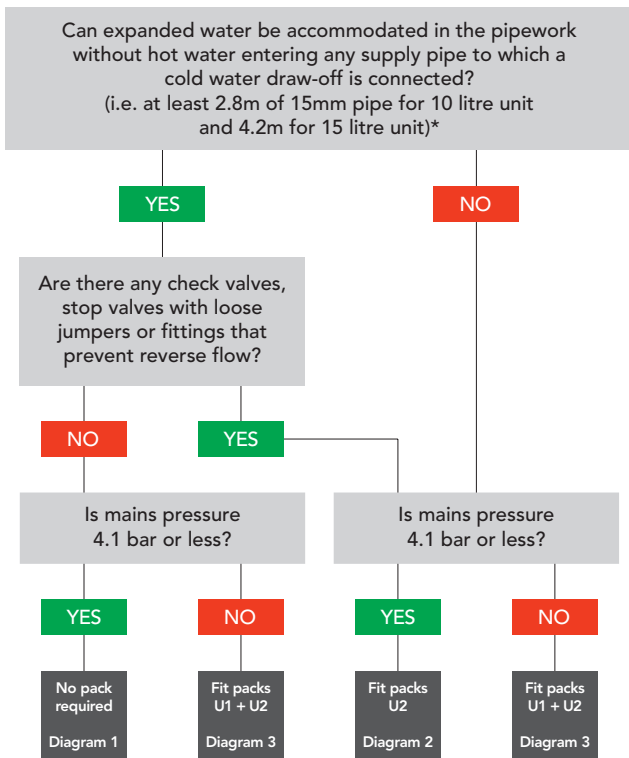
Electrical

The unit must be permanently connected to the electrical supply through a double-pole linked switch with minimum breaking capacity of 13 amp. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Ordering guide

Model	Product code
Multipoint 10 3kW	95:050:143
Multipoint 10 4.5kW	95:050:145
Multipoint 15 3kW	95:050:144
Multipoint 15 4.5kW	95:050:146

Multipoint 10 and 15 Pack selection chart and installation guide



*If the expansion in the cold main is restricted, for example by a stop valve, check valve or water meter, an accessory pack which includes an expansion vessel must be fitted. See diagrams 2 and 3.

Diagram 1 For Inlet Water Pressure up to 4.1 bar (60 psi).*

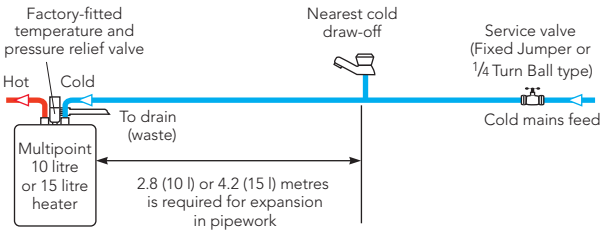


Diagram 2 For Inlet Water Pressure up to 4.1 bar (60 psi) where expansion down the mains is not possible.

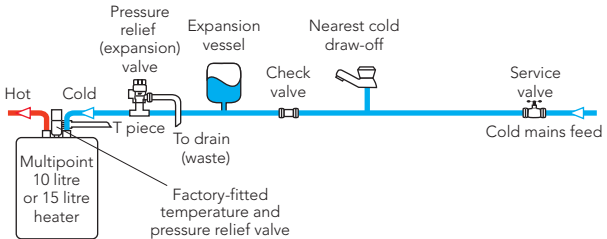
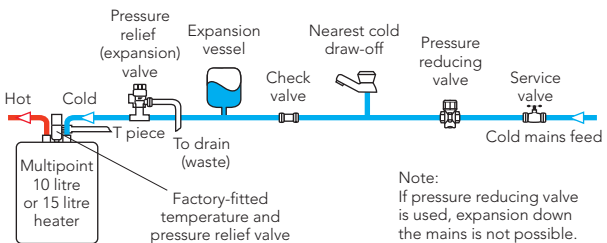


Diagram 3 For Inlet Water Pressure above 4.1 bar (60 psi).



Multipoint 10 and 15 accessories

A full range of accessories is available for installation with Multipoint 10 and 15 litre water heaters. These are supplied as 'Accessory Packs'. Thermostatic blending valve, Packs U3 & U7, can also be used with Multipoint 30 and 50 litre units. When installing small unvented water heaters, it is essential that the correct accessory packs are used. The selection guides on pages 88-89 indicate the appropriate pack(s) for different heaters and situations.

If the expansion in the cold main is restricted, for example by a stop valve, check valve or water meter, an accessory pack which includes an expansion vessel must be fitted. See diagrams 2 and 3 on page 89. A knowledge of the maximum incoming water pressure is an essential requirement prior to installation; where this is not known the local Water Authority should be consulted.

Pack U1 – Combined pressure reducing valve and strainer



Pressure reducing valve limits water pressure to 3.5 bar (50 psi).

Strainer filters coarse impurities from the water supply.

Connection ½" BSP female.

Installation Pack U1 must be installed on the cold inlet side of the heater and before the expansion vessel. Where possible, installation should be on the mains side of the cold water tap draw-off.

This will result in balanced water supplies and is particularly important when mixers are to be used.

Pack U1 must be used with Pack U2.

Pack U2 – Expansion vessel and check valve



The expansion vessel when fully charged, will absorb all expanded water produced by the Multipoint heater during normal operation.

Connection ½" BSP male; precharged 4.1 bar.

The check valve prevents backflow of hot water and eliminates any possibility of cross-contamination between cold and hot water.

Connection 15mm compression.

The expansion valve opens at 6 bar (87 psi). It acts as a back-up to the expansion vessel.

Connection Inlet ½" BSP male, drain ½" BSP female.

Installation Pack U2, where used, must be installed in close proximity to the heater on the inlet side as shown in diagrams 2 and 3 on page 89.

All Multipoint models

Thermostatic blending valves allow water to be stored at high temperatures and blended with cold water to a preset outlet temperature.

This provides over-temperature protection, and is ideal for the control of Legionellae and the extension of system capacities.

Pack U3 – TMV2



Connection 15mm compression.

Allows water to be safely stored above 60°C.

Precisely controls outlet water temperature (range from 35°C to 60°C).

Lockable control knob.

Fail-safe shutdown.

Incorporates check valves to prevent cross contamination.

Operating pressure from 0.2 to 6 bar.

Pack U7 – TMV3



Connection 15mm compression.

Fully approved under the TMV3 scheme to the DO8 specification.

Allows water to be safely stored above 60°C.

Precisely controls outlet water temperature (range from 38°C to 46°C).

Unique adjuster key to prevent unauthorised temperature adjustment.

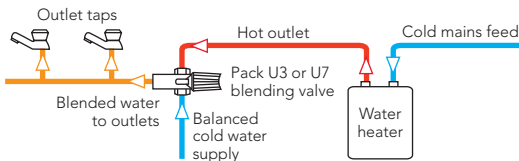
Fail-safe shutdown.

Incorporates check valves to prevent cross contamination.

Operating pressure from 0.2 to 5 bar.

Installation diagram and advice

We offers a dedicated specifier advice line to provide information and advice on specification and installation. This is supported by a fully-trained national sales team, all of whom are qualified to provide further guidance and support locally.



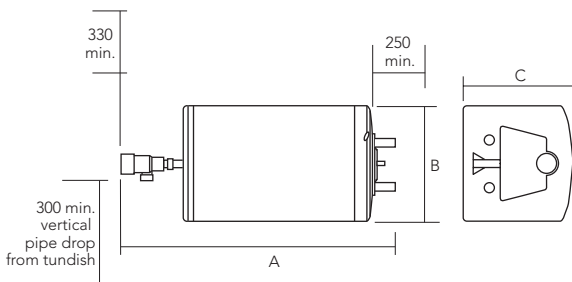
Ordering guide

Model	Product code
Pack U1	95:970:352
Pack U2	95:970:351
Pack U3	95:970:354
Pack U7	95:970:360

Multipoint 30H / 50H

Unvented point of use hot water.

These Multipoint models are designed for horizontal wall-mounting and are ideal for applications where the unit needs to be concealed at ceiling height, in a low cupboard or under a sink or basin. It is supplied with all necessary installation accessories.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Multipoint 30H	788	370	352	12.5	42.5
Multipoint 50H	1060	370	352	19.3	69.3

Specification

Capacities

30 and 50 litre.

Rating

3kW @ 240V. (2.8kW @ 230V).

Outer casing

White plastic end mouldings with steel centre section, finished in white stove-enamel.

Insulation

CFC/HCFC free (ODP zero) flame-retardant expanded polyurethane. GWP 3.1 (Global Warming Potential).

Water container

Heavy gauge copper.
Tested to 12 bar (168psi).

Heat unit

Replaceable, alloy sheathed rod-type element.

Thermostat

Capillary-type externally adjustable from 5°C to 75°C.

Safety

Manually resettable thermal cut-out. Factory-fitted temperature and pressure relief valve set to operate at 7 bar and 90°C.

Anode

Not required.

Approvals

BEAB approved. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Five year copper inner container guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

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

Fixing

Must be mounted in the horizontal position with the inlet and outlet to the right of the heater. Wall-mounted using brackets (supplied).

Plumbing

Connections 15mm copper tube tails. Minimum water pressure 0.8 bar (12 psi). Accessories supplied with all units.

Tundish

Inlet – ½" BSP male.
Outlet – ¾" BSP female.

Service valve

15mm compression.

Safety valve discharge

Temperature and pressure relief valve and expansion valve must be plumbed to discharge in a safe visible manner (tundish supplied).

Optional thermostatic blending valve

Accessory Packs U3 and U7 (see page 91) allow water to be stored at high temperature and blended with cold to a preset outlet temperature.

Electrical

The unit must be permanently connected to the electrical supply through a double-pole linked switch with minimum breaking capacity suitable for the loading. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

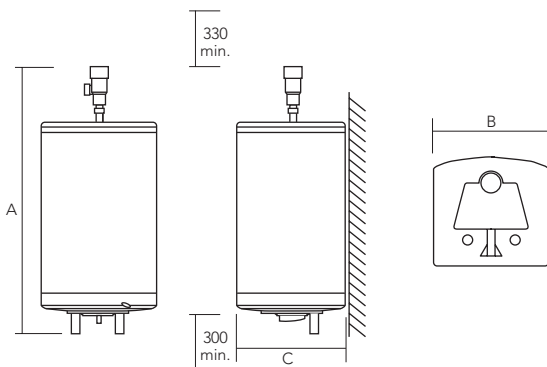
Ordering guide

Model	Product code
Multipoint 30H	95:050:154
Multipoint 50H	95:050:157

Multipoint 30V / 50V

Unvented point of use hot water.

These medium sized Multipoint models are ideal for use in cloakrooms, kitchens or wash rooms where a single heater is required to service up to 7 low usage basins, 5 high usage basins or up to 2 commercial sinks. The 50 litre model may also be used for single point showering.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Multipoint 30V	788	370	352	12.5	42.5
Multipoint 50V	1060	370	352	19.3	69.3

Specification

Capacities

30 and 50 litre.

Ratings

1kW, 3kW @ 240V. (0.9kW, 2.8kW @ 230V).

Outer casing

White plastic top moulding with corrosion-proof steel centre section, finished in white stove-enamel.

Insulation

CFC/HCFC free (ODP zero) flame-retardant expanded polyurethane. GWP 3.1 (Global Warming Potential).

Water container

Heavy gauge copper.

Tested to 12 bar (168psi).

Heat unit

Replaceable, alloy sheathed rod-type element.

Thermostat

Capillary-type externally adjustable from 5°C to 75°C.

Safety

Manually resettable thermal cut-out. Factory-fitted temperature and pressure relief valve set to operate at 7 bar and 90°C.

Anode

Not required.

Approvals

BEAB and Kiwa approved.

CE marked.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Five year copper inner container

guarantee with on-site service

support from date of purchase.

See page 145 for guarantee details.

Installation

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

Fixing

Must be mounted in the vertical position with inlet / outlet at the bottom. Wall-mounted by easy-fit wall bracket and spacers (supplied).

Plumbing

Connections 15mm copper tube tails. Minimum water pressure 0.8 bar (12 psi). Accessories supplied with all units.

Tundish

Inlet – ½" BSP male.

Outlet – ¾" BSP female.

Service valve

15mm compression.

Safety valve discharge

Temperature and pressure relief valve and expansion valve must be plumbed to discharge in a safe visible location in accordance with the local regulations stated above. (Tundish supplied).

Optional thermostatic blending valve

Accessory Packs U3 and U7 (see page 91) allow water to be stored at high temperature and blended with cold to a preset outlet temperature.

Electrical

The unit must be permanently connected to the electrical supply through a double-pole linked switch with minimum breaking capacity suitable for the loading. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

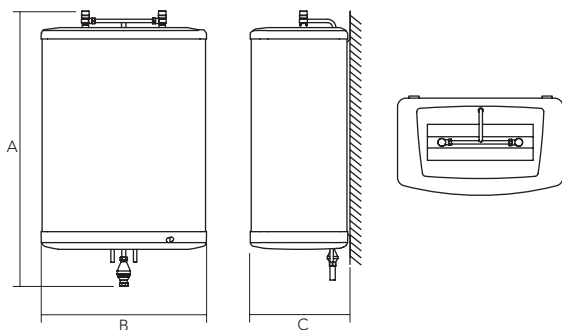
Ordering guide

Model	Product code
Multipoint 30V 1kW	95:050:152
Multipoint 30V 3kW	95:050:150
Multipoint 50V 1kW	95:050:153
Multipoint 50V 3kW	95:050:151

Multipoint 75 / 100

Unvented point of use hot water.

Multipoint 75 / 100 have twin inner containers for a compact profile which makes it an ideal replacement for traditional vented cistern-type flat-back water heaters. Supplied factory assembled with safety valves and integral expansion vessel to reduce on-site installation time.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Multipoint 75	1055	729	430	38	123
Multipoint 100	1213	729	430	50	160

Specification

Capacities

75 and 100 litre.

Rating

3kW (2x 1.5) @ 240V. (2.8kW

(2x 1.4) @ 230V).

6kW (2x 3) @ 240V. (5.6kW

(2x 2.8) @ 230V).

Outer casing

White plastic top and base mouldings with steel centre section finished in white stove-enamel.

Insulation

CFC/HCFC free (ODP zero) flame-retardant expanded polyurethane. GWP 3.1 (Global Warming Potential).

Water container

2x heavy gauge copper.

Tested to 12 bar (168psi).

Heat unit

Replaceable, alloy sheathed rod-type element.

Thermostat

Capillary-type adjustable from 5°C to 75°C.

Safety

Manually-resettable thermal cut-out. Factory-fitted temperature and pressure relief valve set to operate at 7 bar and 90°C.

Anode

Not required.

Approvals

Kiwa approved. CE marked.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Five year copper inner container guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

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

Fixing

Mounting brackets supplied. Must be mounted in the vertical position with inlet / outlet at the bottom.

Plumbing

Connections 15mm copper tube tails. Minimum water pressure 0.8 bar (12 psi). Discharge from tundish 22mm compression.

Tundish

Inlet – ½" BSP male.

Outlet – ¾" BSP female.

Safety valve discharge

Temperature and pressure relief valve and expansion valve must be plumbed to discharge in a safe visible manner. (Tundish supplied).

Optional thermostatic blending valve

Accessory Packs U3 and U7 (see page 91) allow water to be stored at high temperature and blended with cold to a preset outlet temperature.

Electrical

The unit must be permanently connected to the electrical supply through a double-pole linked switch with minimum breaking capacity suitable for the loading. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

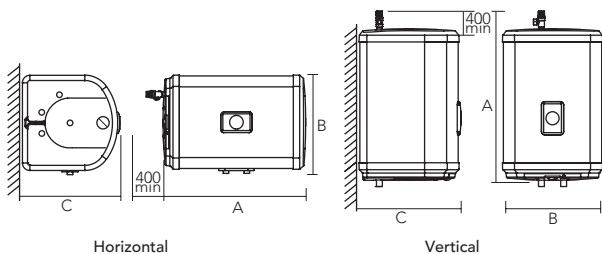
Ordering guide

Model	Product code
Multipoint 75 3kW	95:050:170
Multipoint 75 6kW	95:050:171
Multipoint 100 3kW	95:050:172
Multipoint 100 6kW	95:050:173

Multipoint SS

Horizontal / vertical water heaters

The sleek, stylish design of the Multipoint SS range of unvented water heaters are created using the most advanced water heating technology available. They are supplied with a comprehensive range of safety features ensuring the best possible performance, quality and reliability.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Multipoint SS horizontal 50	700	451	472	18	68
Multipoint SS horizontal 80	958	451	472	24	104
Multipoint SS horizontal 100	1146	451	472	30	130
Multipoint SS vertical 50	705	451	472	18	68
Multipoint SS vertical 80	963	451	472	24	104
Multipoint SS vertical 100	1151	451	472	30	130

Specification

Capacities

50, 80 or 100 litre.

Rating

3kW @ 240V. (2.8kW @ 230V).

Element

Titanium immersion heater.

Outer casing

White painted steel.

Stove enamelled and corrosion-resistant.

Cylinder

Duplex stainless steel.

Insulation

38mm thick CFC/HCFC-free (ODP zero) flame retardant expanded polyurethane.
GWP 3.1 (Global Warming Potential).

Thermostat

Electromechanical capillary type, externally adjustable from 10°C to 70°C.

Safety

Factory-fitted temperature and pressure relief valve set at 90°C and 10 bar.

Pressure reducing valve at 3.5 bar.

Non return valve.

Pressure relief valve at 6 bar.

Expansion vessel.

Over-temperature capillary cut-out set at 85°C.

All units pressure tested to 15 bar.

IPX 4 rated.

Anode

Not required.

Approvals

Nemko and Kiwa approved.

Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

15-year stainless steel cylinder guarantee with on-site service support. See page 145 for guarantee details.

Installation

Must be installed by a competent person in accordance with local regulations. England and Wales – Building Regulations G3, Scotland – Technical Standards P3, N. Ireland – Building Regulations P5.

Fixing

Horizontally or vertically wall-mounted with brackets provided.

Plumbing

Connections to the unit are ¾" BSP male with 22mm diameter compression fittings.

Maximum working pressure

10 bar.

Safety valve discharge

Temperature and pressure relief valve must be installed in the correct orientation. The non-return valve and expansion vessel must be plumbed in to discharge in a safe, visible place in accordance with the local regulations stated above.

Optional accessories

Optional thermostatic blending valves Pack U3 and Pack U7 (see page 91) allow water to be stored at high temperature and blended with cold to a preset outlet temperature.

Electrical

The unit must be permanently connected to the electrical supply through a double-pole linked switch with minimum breaking capacity suitable for the loading. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

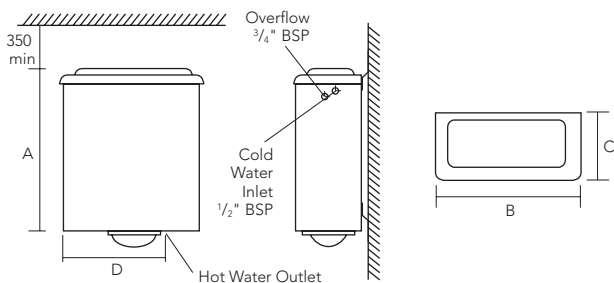
Ordering guide

Model	Product code
Multipoint SS horizontal 50	95:050:175
Multipoint SS horizontal 80	95:050:177
Multipoint SS horizontal 100	95:050:179
Multipoint SS vertical 50	95:050:181
Multipoint SS vertical 80	95:050:183
Multipoint SS vertical 100	95:050:185

FBM

Cistern-type hot water.

The market leading multi-purpose integral cistern-type heater for cloakrooms, canteens, kitchens and bathrooms, in a compact rectangular styling. Choice of four 3kW rated models from 25 to 125 litres and a 6kW option with the 125 litre model.



Model	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)	
					empty	full
FBM25	682	609	234	456	19	59
FBM50	974	609	234	456	30	95
FBM75	1076	610	279	456	36	131
FBM125	962	729	413	590	48	213

Specification

Capacities

25, 50, 75 and 125 litre.

Ratings

3kW @ 240V. (2.8kW @ 230V).

FBM 125 only – 6kW @ 240V.
(5.5kW @ 230V).

Outer casing

White enamelled steel.

Insulation

CFC/HCFC free (ODP zero) flame-retardant expanded polyurethane. GWP 3.1 (Global Warming Potential).

Water container

Copper heater vessel. Polyethylene cistern tank with medium-pressure diaphragm-type float valve assembly to BS 1212 Part 3.

Heat unit

Long-life alloy sheathed 3kW rod-type element (125 litre unit available with 2x 3kW loading).

Thermostat

280mm (11") stem-type thermostat adjustable from 18°C to 70°C. 2 fitted to 6kW model.

Safety

280mm (11") adjustable, manually resettable over-temperature cut-out on 3kW models. 6kW model has two manually-resettable 85°C bi-metallic disc-type thermal cut-outs.

Approvals

BEAB approved. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Five year inner container guarantee with on-site service support from date of purchase, and all other parts two years. See page 145 for guarantee details.

Installation

Fixing

Integral wall-mounting brackets. Top of unit must be at least 1.2m above the highest draw-off point. Allow 350mm clearance above unit for access to the float valve and 200mm below for removal of the element plate.

Plumbing

Cold inlet by ½" BSP male thread. 22mm plastic compression fitting for overflow. Hot outlet is ¾" BSP female thread on 25-75 litre models and 1" BSP female thread on 125 litre model. Float valve and overflow fittings are supplied loose in cistern tank.

Electrical

Must be permanently connected to the electrical supply through double-pole linked isolating switches with breaking capacity of 13 amp for each 3kW element. (N.B. 6kW model consists of two separate 3kW elements). All electrical installations must conform to latest (BS 7671 IEE Wiring Regulations).

Ordering guide

Model	Product code
FBM25 3kW	95:040:200
FBM50 3kW	95:040:201
FBM75 3kW	95:040:202
FBM125 3kW	95:040:203
FBM125 6kW	95:040:204

FBM accessories

Packs CT1 / Packs CT2

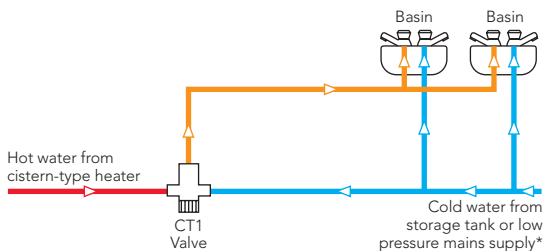
Thermostatic blending valve and pressure reducing valve packs for FBM and other low pressure water systems.

A thermostatic blending valve (Pack CT1) and pressure reducing valve (Pack CT2) extend the usefulness of integral cistern-type water heaters by allowing the water to be stored at a high temperature and blended with cold water to a preset outlet temperature.

The thermostatic blending valve incorporates fail-safe over temperature protection. The pressure reducing valve should be used in conjunction with Pack CT1 in applications where the differential supply pressure is in excess of 3 bar.

- Adjustable outlet temperature from 30°C to 52°C.
- Lockable temperature setting.
- Temperature stability within 2°C of setting.
- Automatic shut-off if cold water fails.
- 22mm compression connections for low flow resistance.
- Supplied complete with two check valves.

Typical CT1 valve installation



*If cold pressure is more than 3 bar greater than hot pressure, fit reducing valve CT2.



Pack CT1

Designed for a minimum working pressure of 0.1 bar (1m head) and maximum of 10 bar with a 3 bar maximum differential supply pressure.



Pack CT2

Provides a preset outlet pressure of 2 bar. It includes a removable cartridge / strainer for easy cleaning and operates at inlet pressures up to 16 bar and temperatures up to 65°C. Connections are 3/4" BSP female.

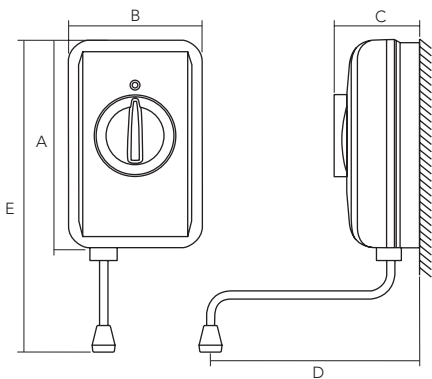
Ordering guide

Model	Product code
CT1 Thermostatic blending valve	95:970:357
CT2 Pressure reducing valve	95:970:358

Handy 3 / 7

Electric instantaneous handwash.

A choice of two instantaneous hand wash units, for a cost effective means of providing hot water for handwashing. Simple operation with a single-turn rotary control dial, 'Power On' indicator and durable 200mm swivel spout.



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
Handy 3 / 7	235	151	98	241	369

Specification

Ratings

Handy 3 –
3.1kW @ 240V.
(2.9kW @ 230V).
Handy 7 –
7.2kW @ 240V.
(6.6kW @ 230V).

Controls

Single-turn rotary control dial for on / off, temperature and flow setting.

Outer casing

White moulded ABS cover.

Heat unit

Copper-sheathed rod type element.

Water container

Glass reinforced nylon.

Safety

Self-resetting thermal cut-out set at 52°C for over heat protection. Non self-resetting second stage cut-out set at 92°C. Pressure relief device in the base of the container to prevent high-pressure build-up. Temperature stabiliser maintains consistent outlet temperature under variable water pressure conditions.

Ingress protection

IPX5.

Approvals

BEAB and Kiwa approved to UK water supply regulations.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Fixing

Base assembly is secured to wall by two fixing screws, followed by electrical and plumbing connections.

Plumbing

15mm female push-fit at the base of the unit for bottom or rear (concealed) entry. Incoming feed pressure should be between 0.1Mpa (1 bar / 14.5psi) and 0.7Mpa (7 bar / 100psi).

Electrical

Special requirements of the BS 7671 (IEE Wiring Regulations) should be observed when installed in bathrooms. Units must be permanently connected to the electrical supply through a double-pole linked isolating switch. The 3.1kW Handy can be supplied from a ring final circuit via a fused spur with a double-pole linked isolating switch with a 13 amp minimum breaking capacity.

Cable: 1.5-2.5mm². The 7.2kW Handy requires a dedicated circuit and switch rated at 30 amp minimum.

Cable: 6mm². Cable entry from rear or bottom of unit. All electrical installations must conform to latest (BS 7671 IEE Wiring Regulations).

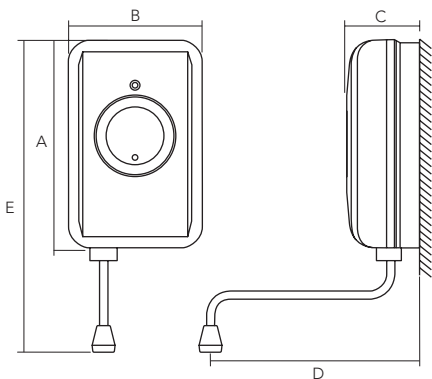
Ordering guide

Model	Product code
Handy 3	95:020:113
Handy 7	95:020:114
Extended spout (380mm)	95:970:558

Handy No Touch

Electric instantaneous handwash.

An instantaneous 'no touch' hand wash unit for a cost effective and hygienic means of providing hot water for hand washing. Simple operation with a no touch on / off control dial and tamper-proof adjuster for temperature and flow control.



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
Handy No Touch	235	151	87	241	369

Specification

Rating

3.1kW @ 240V (2.9kW @ 230V).

Controls

'No touch' control for on / off, tamper-proof adjuster for temperature and flow setting.

Outer casing

White moulded ABS plastic cover.

Heat unit

Copper sheathed rod-type element.

Water container

Glass reinforced nylon.

Safety

Self-resetting thermal cut-out set at 52°C for overheat protection.

Non self-resetting second stage cut-out set at 92°C. Pressure relief device in the base of the container to prevent high-pressure build-up. Temperature stabiliser maintains consistent outlet temperature under variable water pressure conditions.

Ingress protection

IPX5.

Approvals

Kiwa approved to UK water supply regulations. CE marked.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Fixing

Base assembly is secured to wall by two fixing screws, followed by electrical and plumbing connections.

Plumbing

15mm female push-fit at the base of the unit for bottom or rear (concealed) entry. Incoming feed pressure should be between 0.1 Mpa (1 bar / 14.5psi) and 0.7Mpa (7 bar / 100psi).

Electrical

Special requirements of the BS 7671 (IEE Wiring Regulations) should be observed when installed in bathrooms. Units must be permanently connected to the electrical supply through a double-pole linked isolating switch. The 3.1kW Handy can be supplied from a ring final circuit via a fused spur with a double-pole linked isolating switch with a 13 amp minimum breaking capacity.

Cable: 1.5-2.5mm².

Cable: 6mm².

Cable entry from rear or bottom of unit. All electrical installations must conform to latest (BS 7671 IEE Wiring Regulations).

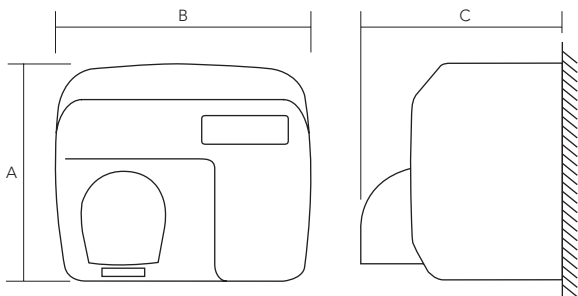
Ordering guide

Model	Product code
Handy No Touch	95:020:115
Extended spout (380mm)	95:970:558

Handy Dri²⁴

Warm air dryers.

The Handy Dri 24 range offers hygienic 'no touch' automatic on / off hand drying. Its multi-directional air jet concentrates the flow of air to ensure that hands are dried comfortably, quickly and economically.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)
Handy Dri 24	248	284	202	6.6

Specification

Rating

2.4kW @ 240V (2.2kW @ 230V).

Weight

6.6kg unpacked.

7.5kg packed.

Outer casing

Vandal-resistant steel with a choice of satin chrome, chrome or white enamelled finish. Tamper-proof cover screws.

Nozzle

Chrome plated zinc. 360° swivel.

Heat unit

Open coil wound on a former.

Motor / Fan

Compact high-performance fan with ball bearings for longer life. (approx. noise level 80dB ±3dB (A)).

Air speed

20m/s.

Air volume

51l/sec.

Drying time

Approx. 28 seconds.

Safety

Heater and fan motor protected by auto reset thermostats. Automatic power inhibit to protect against irregular use. Infrared proximity switch.

Ingress protection

IPX1.

Guarantee

Five year product guarantee with on-site service support from date of purchase. Excludes normal motor brush wear and tear. See page 145 for guarantee details.

Installation

Fixing

The Handy Dri 24 is intended for wall-mounting only. Wall fixings supplied.

Electrical

Cable entry from rear or bottom of unit. Check the mains electrical supply is within the range 230V to 240V 50 / 60Hz before connecting the Handy Dri 24. The Handy Dri 24 must be installed by a qualified electrician. All electrical installations must conform to latest (BS 7671 IEE Wiring Regulations) and part P Building Regulations. Special requirements must be observed when installed in bathrooms etc.

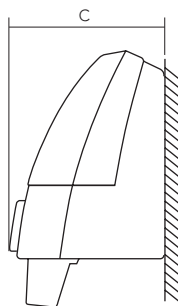
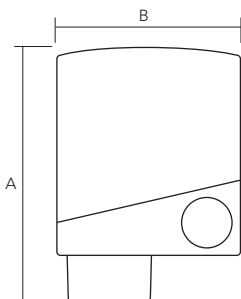
Ordering guide

Model	Product code
Handy Dri 24 White	95:020:090
Handy Dri 24 Chrome	95:020:091
Handy Dri 24 Satin Chrome	95:020:092

Handy Dri 14 / 14E / 18

Warm air dryers.

Three white thermoplastic cased models offering a choice of push button or 'no touch' operation to provide a comfortable balance between temperature and air flow for safe and effective drying.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)
Handy Dri 14 / 14E / 18	282	203	164	2.2

Specification

Ratings

Handy Dri 14 / 14E – 1.4kW @ 240V.
(1.3kW @ 230V).

Handy Dri 18 – 1.8kW @ 240V.
(1.7kW @ 230V).

Outer casing

White thermoplastic.

Heat unit

Unit construction heater bank.

Motor / Fan

Compact high-performance fan with ball bearings for longer life (approx. noise level 67.5 dBA @ 1.5m).

Safety

Motor and element protected by safety cut-outs. Safety timer prevents continuous running.

Ingress protection

IP23.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Fixing

Base assembly secured to the wall by three-point fixing.

Electrical

May be connected to a ring final circuit via a fused spur with a double-pole linked isolating switch with 13 amp minimum breaking capacity. All electrical installations must conform to latest (BS 7671 IEE Wiring Regulations). Special requirements of the BS 7671 (IEE Wiring Regulations) for location and isolation should be observed. Cable entry in rear.

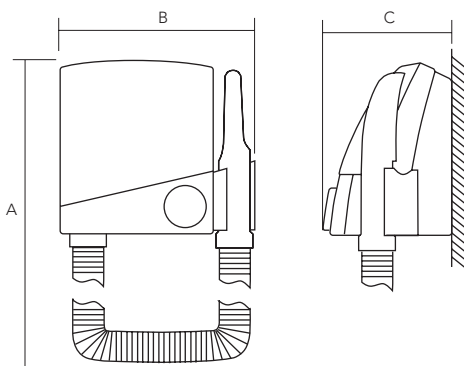
Ordering guide

Model	Product code
Handy Dri 14 1.4kW	95:020:081
Handy Dri 14E 1.4kW	95:020:082
Handy Dri 18 1.8kW	95:020:083

Hair Drier

Warm air dryers.

A safe, easy to use, wall-mounted white thermoplastic hair dryer for use in hotel bedrooms, nursing homes, health clubs and sports centres. Drying time can be set from one to ten minutes with an automatic 'off' function to prevent continuous running.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)
Hair Drier	660	258	172	2.4

Specification

Rating

1kW @ 240V. (0.9kW @ 230V).

Outer casing

White thermoplastic.

Heat unit

Unit construction heater bank.

Motor / Fan

Compact high-performance fan with ball bearings for longer life (approx. noise level 63.5 dBA @ 1.5m).

Safety

Motor and element protected by safety cut-outs. Maximum running time 10 minutes.

Ingress protection

IP22.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Fixing

Base assembly secured to the wall by three-point fixing.

Electrical

May be connected to a ring final circuit via a fused spur with a double-pole linked isolating switch with 13 amp minimum breaking capacity. All electrical installations must conform to latest (BS 7671 IEE Wiring Regulations). Special requirements of the BS 7671 (IEE Wiring Regulations) for location and isolation should be observed when installed in bathrooms. Cable entry in rear.

Ordering guide

Model

Hair Drier

Product code

95:020:084



Drinking Water

Boiling, chilled & ambient water

Aquatap	116
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Boiling water

Supreme wall mounted	122
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Supreme Counter Top	128
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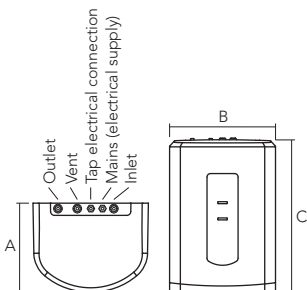
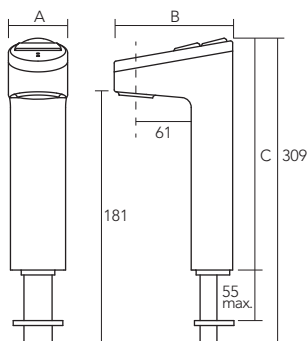
Chilled water

SuperChill	130
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Aquatap Boiling

Instant boiling water.

Aquatap Boiling has been designed to save time and money, dispensing instant boiling at the touch of a button. Utilising our proven Supreme technology and patented *IntelliBoil™Plus* system it is ideal for filling teapots, cafetieres, blanching vegetables, making soups and other hot drinks and snacks.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Dispenser	60	118	235	2	-
Water heater	269	350	480	11.5	16.5

Specification

Water heater

Capacity

5 litre – 30 cups (167ml) or 20 mugs (250ml) at one time.

Rating

2.5kW @ 240V (2.3kW @230V) to recover 135 cups (167ml) per hour.

Outer casing

White high impact thermoplastic.

Thermal insulation

CFC/HCFC-free (ODP zero) pre-moulded polystyrene and thermoplastic blend.

Water container

Moulded polyphenylene sulphide. Removable steam condensation chamber for maintenance access.

Heat unit

Low watt density Superloy element for long life.

Thermostat

Electronic to control water temperature up to boiling point. Electromagnetic wave generator to reduce limescale formation.

Safety features

Low pressure vented. Dry start protection by self-resetting bi-metal thermal cut-out. Boil-dry protection by manually-resettable bi-metal cut-out.

Water dispenser

Finish

Die cast, chrome-plated body and buttons.

Safety features

Integral dual action safety feature to prevent accidental boiling water delivery.

Boiling water delivery indicator LED.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Water heater

Fixing

Must be installed vertically mounted on a level surface ensuring any supporting surface can carry the full weight.

Plumbing

Cold water feed should be taken directly from the mains – minimum pressure 0.5 bar (7psi), maximum pressure 10 bar (145psi).

Top entry ½" BSP inlet and outlet connections. Top entry ½" BSP dispenser tap vent connection.

Electrical

The water heater is supplied with a 1.5 metre electrical supply cable which must be connected to the electrical supply via a double-pole isolating switch with a contact separation of at least 3mm in both poles. The electrical supply should be from a 13 amp fused spur. The water heater must be connected to the dispenser by the black sheathed control cable.

When using the dual dispenser a solenoid relay control box is supplied.

The electrical supply should be from a 13 amp fused spur.

For significant periods of unuse further running costs can be reduced by incorporating a time switch – available as an accessory (product code 95:970:124) which can be set to switch on the unit for a suitable period of time to allow for re-heat.

Water dispenser

The dispensing tap is suitable for mounting onto a worktop or counter surface and must be positioned so that it discharges into a sink or the purpose-designed drip tray – available as an accessory (product code 95:970:138).

An optional dispenser extension (product code 95:970:139) is available to raise the height of the dispenser outlet to 235mm from the dispenser base, making taller vessels easier to fill.

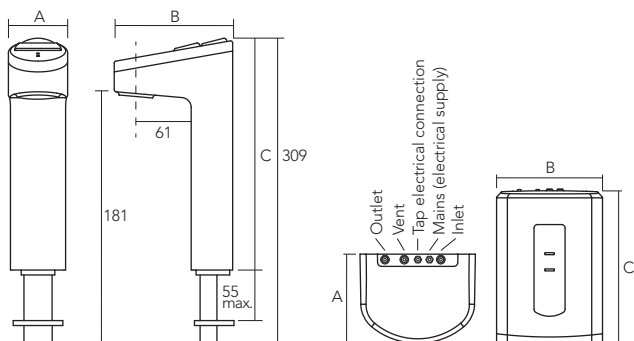
Ordering guide

Model	Product code
Aquatap Boiling	95:200:261

Aquatap Boiling / Ambient

Instant boiling water.

Aquatap Boiling and Ambient offers the best of both worlds from a single tap. Dispensing instant boiling and ambient water at the touch of a button it is ideal for busy workplaces where space limitations are present.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Dispenser	60	118	235	2	-
Water heater	269	350	480	11.5	16.5

Specification

Water heater

Capacity

5 litre – 30 cups (167ml) or 20 mugs (250ml) at one time.

Rating

2.5kW @ 240V (2.3kW @230V) to recover 135 cups (167ml) per hour.

Outer casing

White high impact thermoplastic.

Thermal insulation

CFC/HCFC-free (ODP zero) pre-moulded polystyrene and thermoplastic blend.

Water container

Moulded polyphenylene sulphide. Removable steam condensation chamber for maintenance access.

Heat unit

Low watt density Superloy element for long life.

Thermostat

Electronic to control water temperature up to boiling point. Electromagnetic wave generator to reduce limescale formation.

Safety features

Low pressure vented. Dry start protection by self-resetting bi-metal thermal cut-out. Boil-dry protection by manually-resettable bi-metal cut-out.

Water dispenser

Finish

Die cast, chrome-plated body and buttons.

Safety features

Integral dual action safety feature to prevent accidental boiling water delivery.

Boiling water delivery indicator LED

Control Box

The control box is suitable for mounting onto a cupboard wall near the heater and is supplied with a 1.5m electric cable.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Water heater

Fixing

Must be installed vertically mounted on a level surface ensuring any supporting surface can carry the full weight.

Plumbing

Cold water feed should be taken directly from the mains – minimum pressure 0.5 bar (7psi), maximum pressure 10 bar (145psi).

Top entry ½" BSP inlet and outlet connections. Top entry ½" BSP dispenser tap vent connection.

Electrical

The water heater is supplied with a 1.5 metre electrical supply cable which must be connected to the electrical supply via a double-pole isolating switch with a contact separation of at least 3mm in both poles. The electrical supply should be from a 13 amp fused spur. The water heater must be connected to the dispenser by the black sheathed control cable.

When using the dual dispenser a solenoid relay control box is supplied.

The electrical supply should be from a 13 amp fused spur.

For significant periods of unuse further running costs can be reduced by incorporating a time switch – available as an accessory (product code 95:970:124) which can be set to switch on the unit for a suitable period of time to allow for re-heat.

Water dispenser

The dispensing tap is suitable for mounting onto a worktop or counter surface and must be positioned so that it discharges into a sink or the purpose-designed drip tray – available as an accessory (product code 95:970:138).

An optional dispenser extension (product code 95:970:139) is available to raise the height of the dispenser outlet to 235mm from the dispenser base, making taller vessels easier to fill.

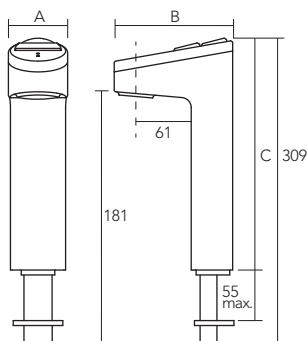
Ordering guide

Model	Product code
Aquatap Boiling / Ambient	95:200:263

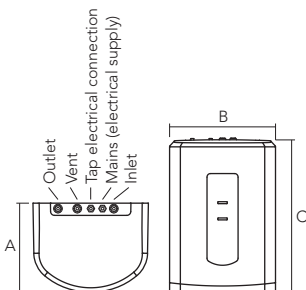
Aquatap Boiling / Chilled

Instant boiling and chilled water.

Aquatap Boiling and Chilled is designed for easy installation, dispensing instant boiling and chilled water at the touch of a button. Ideal for use within conference facilities, reception areas, cafes, high usage kitchens or where convenience, efficiency and space are prime concerns.



For water chiller dimensions see page 134



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Dispenser	60	118	235	2	-
Water heater	269	350	480	11.5	16.5

Specification

Water chiller – see page 135

Water heater

Capacity

5 litre – 30 cups (167ml) or 20 mugs (250ml) at one time.

Rating

2.5kW @ 240V (2.3kW @230V) to recover 135 cups (167ml) per hour.

Outer casing

White high impact thermoplastic.

Thermal insulation

CFC/HCFC-free (ODP zero) pre-moulded polystyrene and thermoplastic blend.

Water container

Moulded polyphenylene sulphide. Removable steam condensation chamber for maintenance access.

Heat unit

Low watt density Superloy element for long life.

Thermostat

Electronic to control water temperature up to boiling point. Electromagnetic wave generator to reduce limescale formation.

Safety features

Low pressure vented. Dry start protection by self-resetting bi-metal thermal cut-out. Boil-dry protection by manually-resettable bi-metal cut-out.

Water dispenser

Finish

Die cast, chrome-plated body and buttons.

Safety features

Integral dual action safety feature to prevent accidental boiling water delivery.

Boiling water delivery indicator LED

Control Box

The control box is suitable for mounting onto a cupboard wall near the heater and is supplied with a 1.5m electric cable.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

Installation

Water chiller – see page 135

Water heater

Fixing

Must be installed vertically mounted on a level surface ensuring any supporting surface can carry the full weight.

Plumbing

Cold water feed should be taken directly from the mains – minimum pressure 0.5 bar (7psi), maximum pressure 10 bar (145psi).

Top entry ½" BSP inlet and outlet connections. Top entry ½" BSP dispenser tap vent connection.

Electrical

The water heater is supplied with a 1.5 metre electrical supply cable which must be connected to the electrical supply via a double-pole isolating switch with a contact separation of at least 3mm in both poles. The electrical supply should be from a 13 amp fused spur. The water heater must be connected to the dispenser by the black sheathed control cable.

When using the dual dispenser a solenoid relay control box is supplied.

The electrical supply should be from a 13 amp fused spur.

For significant periods of unuse further running costs can be reduced by incorporating a time switch – available as an accessory (product code 95:970:124) which can be set to switch on the unit for a suitable period of time to allow for re-heat.

Water dispenser

The dispensing tap is suitable for mounting onto a worktop or counter surface and must be positioned so that it discharges into a sink or the purpose-designed drip tray – available as an accessory (product code 95:970:138).

An optional dispenser extension (product code 95:970:139) is available to raise the height of the dispenser outlet to 235mm from the dispenser base, making taller vessels easier to fill.

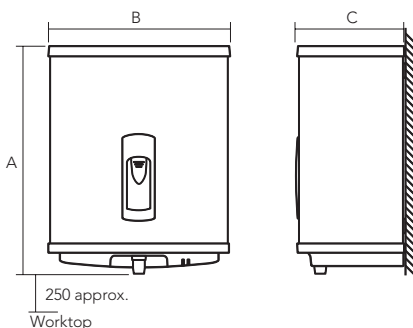
Ordering guide

Model	Product code
Aquatap Boiling / Chilled	95:200:262

Supreme 150 SS / 165 SS / 180 SS

Instant boiling water.

A range of three instant boiling water dispensers with an ultra modern fingerprint resistant stainless steel casing and a heavy duty satin chrome die-cast lever.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Supreme 150 SS	423	337	203	6.4	12
Supreme 165 SS	501	337	203	7.3	16
Supreme 180 SS	506	337	262	8.3	21

Specification

Capacities

2.5 litre – 15 cups* at one time (10 mugs**).

5 litre – 30 cups* at one time (20 mugs**).

7.5 litre – 45 cups* at one time (30 mugs**).

Rating

2.5kW @ 240V. (2.3kW @ 230V) to recover 135 cups* per hour.

Outer casing

Fingerprint resistant stainless steel with grey ABS mouldings.

Insulation

CFC/HCFC free (ODP zero) pre-moulded polystyrene and thermoplastic blend. GWP 2.72 (Global Warming Potential).

Water container

Moulded Polyphenylene Sulphide. Removable steam condensation chamber for maintenance access.

Heat unit

Low watts density Superloy element for long life.

Thermostat

Electronic to control water temperature up to boiling point.

Safety

All models are low pressure vented. Dry start protection by self-resetting bi-metal thermal cut-out. Boil dry protection by manually resettable disc-type bi-metal cut-out.

Approvals

BEAB approved. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

* based on 167ml cup.

** based on 250ml mug.

Installation

Retrofit

Same service connections and wall fixings as previous Supreme models.

Fixing

Hook-on brackets for wall-mounting, ideally over a draining board or drip tray. Clearance should be allowed all around the unit for maintenance (refer to instructions).

Plumbing

Cold water feed should be taken directly from the mains – min. pressure 0.5 bar (7psi), max. pressure 10 bar (145psi). Bottom or rear entry using 15mm push-fit connections.

Electrical

Supply (bottom or rear entry) 2.5kW units can be taken from a suitable ring final circuit via a fused spur but must be via a double-pole linked isolating switch with a minimum break capacity of 13 amp. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

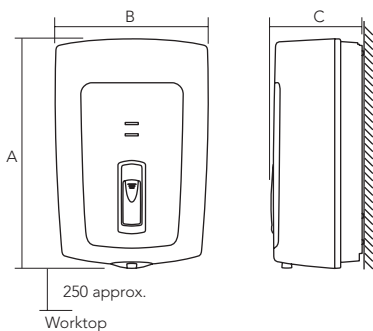
Ordering guide

Model	Product code
Supreme 150 SS 2.5 litre	95:200:240
Supreme 165 SS 5 litre	95:200:241
Supreme 180 SS 7.5 litre	95:200:242

Supreme 150 / 165 / 180

Instant boiling water.

A range of three instant boiling water dispensers with a white high-impact thermoplastic casing.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Supreme 150	445	290	190	5.6	8.4
Supreme 165	510	335	200	6.9	11.8
Supreme 180	510	335	262	7.9	15.4

Specification

Capacities

2.5 litre – 15 cups* at one time (10 mugs**).

5 litre – 30 cups* at one time (20 mugs**).

7.5 litre – 45 cups* at one time (30 mugs**).

Rating

2.5kW @ 240V. (2.3kW @ 230V) to recover 135 cups* per hour.

Outer casing

White high-impact thermoplastic. Insulation CFC/HCFC free (ODP zero) pre-moulded polystyrene and thermoplastic blend. GWP 2.72 (Global Warming Potential).

Water container

Moulded Polyphenylene Sulphide. Removable steam condensation chamber for maintenance access.

Heat unit

Low watts density Superloy element for long life.

Thermostat

Electronic to control water temperature up to boiling point.

Safety

All models are low-pressure vented. Dry start protection by self-resetting bi-metal disc-type thermal cut-out. Boil dry protection by manually resettable disc-type bi-metal cut-out.

Approvals

BEAB approved. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

* based on 167ml cup.

** based on 250ml mug.

Installation

Retrofit

Retains the same footprint, service connections and wall fixings as previous Supreme models.

Fixing

Hook-on brackets for wall-mounting, ideally over a draining board or drip tray. 150mm clearance should be allowed around the unit for maintenance.

Plumbing

Cold water feed should be taken directly from the mains – min. pressure 0.5 bar (7psi), max. pressure 10 bar (145psi). Bottom or rear entry using 15mm push-fit connections.

Electrical

Supply (bottom or rear entry) can be taken from a suitable ring final circuit via a fused spur but must be via a double-pole linked isolating switch with a minimum break capacity of 10.5 amp. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

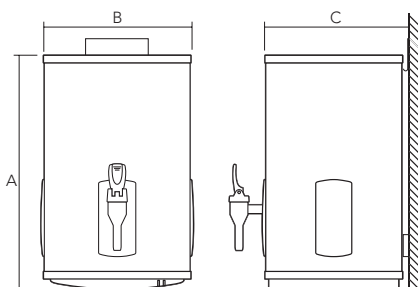
Ordering guide

Model	Product code
Supreme 150 2.5 litre	95:200:252
Supreme 165 5 litre	95:200:253
Supreme 180 7.5 litre	95:200:254

Supreme 220 SS / 250 SS / 310 SS / 560 SS

Instant boiling water.

A range of four instant boiling water dispensers with an ultra modern fingerprint resistant stainless steel casing and a heavy duty satin chrome die-cast tap handle.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
Supreme 220 SS	585	397	366	21	36
Supreme 250 SS	655	397	366	22	42
Supreme 310 SS	795	397	366	26	55
Supreme 560 SS	1000	397	366	31	75

Specification

Capacities

10 litre – 60 cups* at one time (40 mugs**).
 15 litre – 90 cups* at one time (60 mugs**).
 25 litre – 150 cups* at one time (100 mugs**).
 40 litre – 240 cups* at one time (160 mugs**).

Ratings

220, 250 and 310 – 3kW @ 240V. (2.8kW @ 230V) to recover 160 cups* per hour.
 560 – 6kW @ 240V. (5.5kW @ 230V) to recover 320 cups* per hour.

Outer casing

Finger print resistant stainless steel with grey ABS mouldings.

Insulation

CFC/HCFC free (ODP zero) high temperature polyurethane.
 GWP 3.1 (Global Warming Potential)

Water container

Tin-plated copper. Hinged access to element plate.

Heat unit

Low watts density Superloy element(s) for long life.

Thermostat

Electronic to control water temperature up to boiling point.

Safety

All models are low pressure vented. Dry start protection by self-resetting bi-metal thermal cut-out. Boil dry protection by manually resettable disc-type bi-metal cut-out.

Approvals

BEAB approved. CE marked. Manufactured in the UK in a BS EN ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 registered factory.

* based on 167ml cup.

** based on 250ml mug.

Installation

Fixing

Hook-on brackets for wall-mounting, ideally over a draining board or drip tray. Clearance should be allowed above and below the unit for maintenance and either side if additional taps are to be fitted. Hinged mounting bracket allows unit to swing forward for ease of service access.

Plumbing

Cold water feed should be taken directly from the mains – min. pressure 0.5 bar (7psi), max. pressure 10 bar (145psi). Bottom or rear entry is possible using 15mm push-fit connections.

Electrical

Supply (bottom or rear entry) 3kW units can be taken from a suitable ring final circuit via a fused spur but must be via a double-pole linked isolating switch with a minimum break capacity of 13 amp. 6kW units must be provided with their own dedicated supply. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Guarantee

Two year product guarantee with on-site service support from date of purchase. See page 145 for guarantee details.

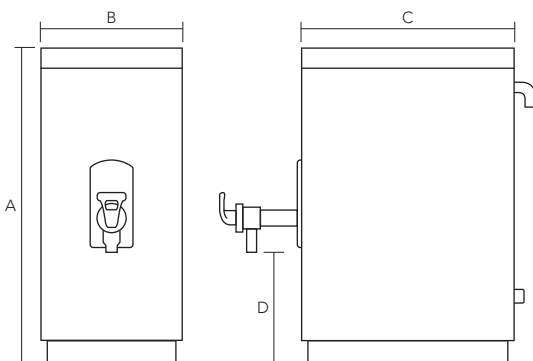
Ordering guide

Model	Product code
Supreme 220 SS 3kW 10 litre	95:200:243
Supreme 250 SS 3kW 15 litre	95:200:244
Supreme 310 SS 3kW 25 litre	95:200:245
Supreme 560 SS 6kW 40 litre	95:200:246

Supreme Counter Top

Instant boiling water.

The Supreme Counter Top unit is the latest addition to the Supreme range, offering boiling water on tap where wall or cupboard space is at a premium.



Model	A	B	C	D	Weight (kg)	
	(mm)	(mm)	(mm)	(mm)	empty	full
Supreme Counter Top	535	240	360	190	12	29

Specification

Capacity

9 litres.

Rating

3kW @ 240V.

Thermal insulation

Polystyrene.

Water container

High quality 304 grade stainless steel.

Heat unit

3kW element.

Thermostat

Temperature thermistor controlled.

Safety features

Thermal cut-out.

Approvals

Kiwa approved to UK Water Supply Regulations. CE marked.
Manufactured in the UK.

Guarantee

Two year transferable on-site service support guarantee against faulty manufacture or materials.
See page 145 for guarantee details.

Installation

Fixing

This Supreme unit is designed for counter top installation. Clearance should be allowed above and either side of the unit for maintenance.

Plumbing

Cold water feed should be taken directly from the mains – min pressure 0.2 bar (3psi), max pressure 10 bar (145psi).

Electrical

Units are supplied with a fitted plug and should be plugged into a 240V, 13A electrical socket, capable of carrying a load of 3kW. All electrical work must comply with the latest IEE wiring regulations.

Ordering guide

Model

Supreme Counter Top

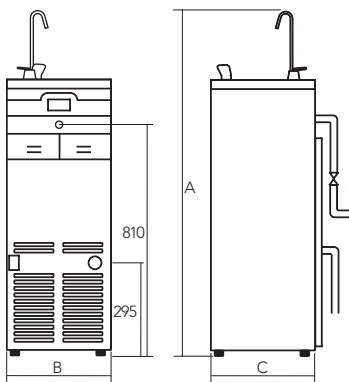
Product code

95:200:264

SuperChill 25F

Chilled drinking water.

A floor-mounted, steel bodied chilled water dispenser with built-in replaceable filter. Supplied with both a filler tap and a water fountain, SuperChill 25F can provide up to 25 litres per hour of purified, chilled water from 6°C to 12°C.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
SuperChill 25F	1230	325	340	29	31

Specification

Rating

207W @ 240V. (190W @ 230V).

Compressor

1/6 HP.

Output

25 litres / hour (5.5 gallons / hour) at nominal 10°C, 125 cups / hour*.

Pressure

Rated pressure – 3.5 bar.

Min inlet pressure – 1 bar.

Max inlet pressure – 3.5 bar.

Outer casing

Brushed stainless steel effect plastic-coated, corrosion-proofed steel.

Stainless steel water collection sink.

Chilling system

5 litre capacity, grade 304 stainless steel chilling tank.

Thermostat

Adjustable from 6°C to 12°C.

In-line filter

Factory-fitted filter head with replaceable cartridge (order no. 95:970:130) to eliminate taste and odour. In normal use the filter should be replaced every 12 months or 11,000 litres whichever is earliest.

Dispensing outlet

Supplied with lever operated filler tap and push button water fountain.

Refrigerant

100 gram of CFC-free R134A.

Approvals

WRAS listed. CE marked for compliance with Low Voltage directive and EMC directive.

Guarantee

Two year product guarantee with on-site service support from date of purchase (excluding filter cartridge). See page 145 for guarantee details.

*based on 200ml cup.

Installation

Mounting

Minimum 60-70mm space should be allowed around the unit for adequate ventilation. Floor-mounted. Foot adjustment provided for levelling.

Plumbing

Cold water feed must be taken from a potable mains supply with a minimum inlet pressure of 1 bar. The pressure reducing valve (supplied) must be incorporated in the cold water supply to the unit.

Connections

Inlet connection 8mm female push-fit. An 8mm x 3/8" male adaptor is supplied for connection to fixed piping. Drain tube is 24mm outside diameter flexible hose. Tube must have a continuous fall and be connected to a drain pipe incorporating a wet trap.

Electrical

Unit is supplied with a 2 metre flexible cable with moulded 3-pin plug. The electrical supply must be earthed and be fused 3 amp. Connection to the electrical supply must be via a double-pole-isolating switch with a contact separation of at least 3mm in both poles. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Ordering guide

Model

SuperChill 25F

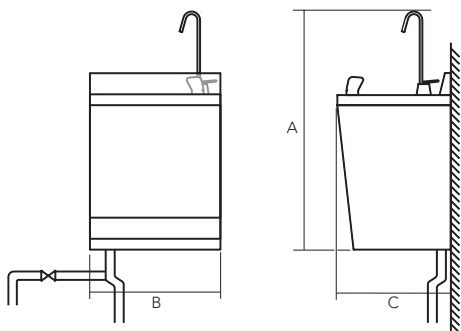
Product code

95:200:225

SuperChill^{25W}

Chilled drinking water.

A wall-mounted, steel bodied chilled water dispenser with built-in replaceable filter. Supplied with both a filler tap and a water fountain, SuperChill 25W provides up to 25 litres per hour of purified, chilled water and can be mounted low for use in schools or wheelchair access.



Model	A	B	C	Weight (kg)	
	(mm)	(mm)	(mm)	empty	full
SuperChill 25W	775	432	360	26	27

Specification

Rating

207W @ 240V. (190W @ 230V).

Compressor

1/6 HP.

Output

25 litres / hour (5.5 gallons / hour) at nominal 10°C, 125 cups / hour*.

Pressure

Rated pressure – 3.5 bar.

Min inlet pressure – 1 bar.

Max inlet pressure – 3.5 bar.

Outer casing

Brushed stainless steel effect plastic-coated, corrosion-proofed steel.

Stainless steel water collection sink.

Chilling system

Tubular direct chilling coil, grade 304 stainless steel.

Thermostat

Adjustable from 6°C to 12°C.

In-line filter

Factory-fitted filter head with replaceable cartridge (order no. 95:970:130) to eliminate taste and odour. In normal use the filter should be replaced every 12 months or 11,000 litres whichever is earliest.

Dispensing outlet

Supplied with lever operated filler tap and push button water fountain.

Refrigerant

100 gram of CFC-free R134A.

Approvals

WRAS listed. CE marked for compliance with Low Voltage directive and EMC directive.

Guarantee

Two year product guarantee with on-site service support from date of purchase (excluding filter cartridge). See page 145 for guarantee details.

*based on 200ml cup.

Installation

Mounting

Minimum 60-70mm space should be allowed around the unit for adequate ventilation. Wall-mounted. Mounting bracket, wall plugs and screws supplied.

Plumbing

Cold water feed must be taken from a potable mains supply with a minimum inlet pressure of 1 bar. The pressure reducing valve (supplied) must be incorporated in the cold water supply to the unit.

Connections

Inlet connection 8mm female push-fit. An 8mm x 3/8" male adaptor is supplied for connection to fixed piping. Drain tube is 24mm outside diameter flexible hose. Tube must have a continuous fall and be connected to a drain pipe incorporating a wet trap.

Electrical

Unit is supplied with a 2 metre flexible cable with moulded 3-pin plug. The electrical supply must be earthed and be fused 3 amp. Connection to the electrical supply must be via a double-pole-isolating switch with a contact separation of at least 3mm in both poles. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Ordering guide

Model

SuperChill 25W

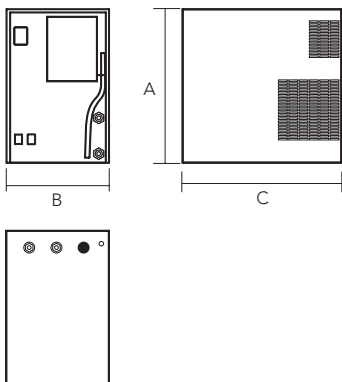
Product code

95:200:226

SuperChill 30B

Chilled drinking water.

An undercounter mounted, steel bodied chilled water dispenser. Supplied with a filler tap, SuperChill 30B uses ice-bank technology to provide up to 30 litres per hour or 7 litres at any one time of chilled drinking water from 3°C to 10°C.



Model	A (mm)	B (mm)	C (mm)	Weight (kg)	
				empty	full
SuperChill 30B	405	255	400	25	27

Specification

Rating

180W @ 230/240V.

Compressor

1/2 HP.

Output

30 litres / hour (6.6 gallons / hour)
at nominal 10°C.

Pressure

Rated pressure – 3 bar.

Min inlet pressure – 1 bar.

Max inlet pressure – 3 bar.

Outer casing

Brushed stainless steel effect plastic-coated, corrosion-proofed steel.

Chilling system

Hermetic ice bank direct cooling system.

Thermostat

Adjustable from 3°C to 10°C.

In-line filter

Available as an accessory with 30B.

Dispensing outlet

Supplied with push button operated filler tap. Counter mounting inset stainless steel drip tray with integral 1¼" BSP waste outlet connection available as accessory no. 95:970:123.

Refrigerant

140 grams of CFC-free R134A.

Approvals

WRAS listed. CE marked for compliance with Low Voltage directive and EMC directive.

Guarantee

Two year product guarantee with on-site service support from date of purchase (excluding filter cartridge). See page 145 for guarantee details.

Installation

Mounting

Minimum 60-70mm space should be allowed around the unit for adequate ventilation. For mounting on a level horizontal surface. If building into an enclosed cabinet adequate ventilation to the cabinet must be provided by fitting louvre grills to the cabinet.

Plumbing

Cold water feed must be taken from a potable mains supply with a minimum inlet pressure of 1 bar. The pressure reducing valve (supplied) must be incorporated in the cold water supply to the unit.

Connections

Inlet connection 8mm female push-fit. An 8mm x ¾" male adaptor is supplied for connection to fixed piping. Outlet connection to outlet tap 6mm female push-fit. 6mm outside diameter flexible pipe and insulation supplied.

Electrical

Unit is supplied with a 2 metre flexible cable with moulded 3-pin plug. The electrical supply must be earthed and be fused 3 amp. Connection to the electrical supply must be via a double-pole isolating switch with a contact separation of at least 3mm in both poles. All electrical work must comply with the latest BS 7671 (IEE Wiring Regulations).

Ordering guide

Model

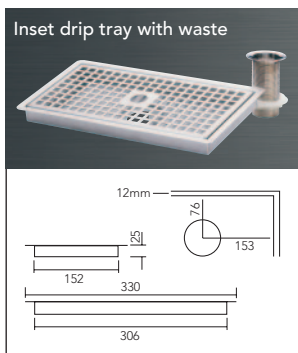
SuperChill 30B

Product code

95:200:227

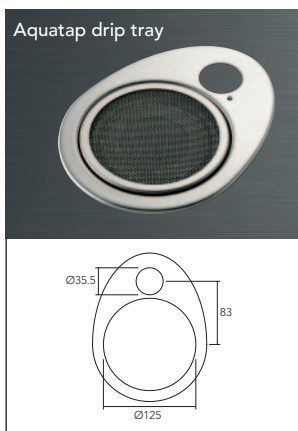
Drinking water accessories

Drip trays



Supreme / SuperChill 30B stainless steel drip tray

This accessory completes a professional installation – designed to be inset into a work surface. Available with a 1¼" BSP waste outlet connection. Free-standing version, without waste fitting, also available. See page 145 for guarantee details.



Aquatap drip tray

This compact and stylish accessory has been designed to be inset into a work surface hiding the waste fitting underneath the mesh drip tray. See page 145 for guarantee details.



Supreme Counter Top drip tray

This accessory has been designed to sit on top of the work surface with a 1¼" BSP waste outlet connection. See page 145 for guarantee details.

Accessories ordering guide

Model	Product code
Supreme inset rip tray with waste	95:970:123
Supreme drip tray no waste	95:970:128
Aquatap drip tray	95:970:138
Supreme Counter Top drip tray	95:970:152

Drinking water accessories

Filter



Water filter system

Reduces impurities, odours and unpleasant tastes. Supplied with connecting hoses and a head for permanent installation. The head incorporates an integral shut-off valve, to facilitate quick and simple replacement of the filter cartridge, which should be replaced after one year or 11,000 litres, whichever is earliest. See page 145 for guarantee details.

Accessories ordering guide

Model	Product code
Water filter system	95:970:129
Replacement filter cartridge	95:970:130

Drinking water accessories

Counter stand



Supreme counter stand

Allows Supreme 150 / 150 SS or 165 / 165 SS / 180 / 180 SS to be installed in applications where there is insufficient wall space. Manufactured from stainless steel these stands are supplied with a removable drip tray and fixing bolts suitable for counters up to 45mm thick. Stainless steel drip tray with waste can also be fitted to counter stand for Supreme 165 / 165 SS / 180 / 180 SS.
See page 145 for guarantee details.

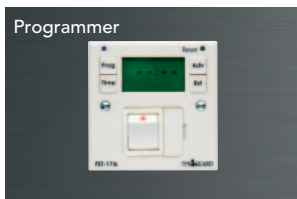
Additional tap



Supreme additional taps

Can be fitted to either side of the Supreme 220 SS / 250 SS / 310 SS / 560 SS units for convenience in high usage applications.

Programmer



Supreme / Supreme Counter Top / Aquatap fused spur with integral 7 day digital programmer

Ensures greater economy when premises are unoccupied for extended periods.

Up to 42 switching operations per week. Simple two button programming. Integral double-pole switch and BS 1362 fuse. 1000 hour rechargeable memory backup.
See page 145 for guarantee details.

Accessories ordering guide

Model	Product code
Supreme / Aquatap 7 day digital programmer	95:970:124
Supreme counter stand 150 / 150 SS	95:970:132
Supreme counter stand 165 / 165 SS / 180 / 180 SS	95:970:133
Supreme additional tap for 220 SS / 250 SS / 310 SS / 560 SS	95:970:402

Drinking water accessories

Dispenser extension piece



Aquatap dispenser extension piece

Allows the Aquatap to be raised higher to accommodate taller teapots, cafetieres, very large mugs, water jugs and saucepans. See page 145 for guarantee details.

Securing clamp



Supreme Counter Top securing clamp

This accessory secures the Supreme Counter Top unit to the work surface. Complete with fixing bolts. See page 145 for guarantee details.

Cup holder



SuperChill / Aquatap cup holder

A cup holder is the neat and tidy solution for cup storage adjacent to your SuperChill or Aquatap. Accepts plastic or paper cups with a rim diameter of 70-85mm.

Accessories ordering guide

Model	Product code
Supreme / Aquatap cup holder	95:970:127
Aquatap dispenser extension piece	95:970:138
Supreme Counter Top securing clamp	95:970:154

Data

Guidelines for usage of hot water

Handwashing	1 to 2.5 litres per person (40°C)
Kitchen sink	2 to 7 litres per meal (60°C)
Cleaning	10 litres per day (60°C)
Bath	60 litres per bath (60°C)
Hairdressing	10 litres per shampoo (40°C)
Dishwasher	2 litres per meal (60°C)
Washing machine	20 litres per cycle (60°C)
Showers	from 15 litres per person (40°C) per 4 mins (Instantaneous)

The above quantities are intended as a guideline. Individual installation requirements should be calculated before selecting the correct water heater.

Useful Formulae

Time and loading calculations to heat water (excluding heat losses)

$$\begin{aligned} \text{Time in minutes} &= \frac{\text{Litres} \times \text{Temp Rise } ^\circ\text{C}}{\text{kW loading} \times 14.3} \\ &= \frac{\text{Gallons} \times \text{Temp Rise } ^\circ\text{F}}{\text{kW loading} \times 5.7} \end{aligned}$$

$$\begin{aligned} \text{kW loading required} &= \frac{\text{Litres} \times \text{Temp Rise } ^\circ\text{C}}{\text{Time in minutes} \times 14.3} \\ &= \frac{\text{Gallons} \times \text{Temp Rise } ^\circ\text{F}}{\text{Time in minutes} \times 5.7} \end{aligned}$$

Mean Temperature of mixed water

$$\begin{aligned} \text{Mean temp} &= \frac{(\text{Litres hot} \times \text{Temp hot}) + (\text{Litres cold} \times \text{Temp cold})}{\text{Total (Hot + Cold) litres}} \\ &= \frac{(\text{Gallons hot} \times \text{Temp hot}) + (\text{Galls cold} \times \text{Temp cold})}{\text{Total (Hot + Cold) Galls}} \end{aligned}$$

Capacity of cylinder

$$\text{Litres} = \frac{\text{Dia}^2 \times \text{Height (dimensions in cm)}}{1273}$$

$$\text{Gallons} = \frac{\text{Dia}^2 \times \text{Height (dimensions in inches)}}{353}$$

Capacity of tank

$$\text{Litres} = \frac{\text{Length} \times \text{Breadth} \times \text{Height (dimensions in cm)}}{1000}$$

$$\text{Gallons} = \frac{\text{Length} \times \text{Breadth} \times \text{Height (dimensions in inches)}}{277}$$

Temperature conversion

$$^\circ\text{C} = \frac{^\circ\text{F} - 32}{9/5}$$

$$^\circ\text{F} = \frac{^\circ\text{C} \times 9}{5} + 32$$

Physical constants

Length

1 meter	= 3.28 ft
1 foot	= 30.5 cm

Volume

1 gallon	= 4.54 litres = 277 cu ins. = 10 lbs (water)
1 litre	= 0.22 gals = 1000 cm ³ = 1kg (water)
1000 litres	= 1m ³

Weight

1lb	= 0.45kg
1kg	= 2.21lbs

Pressure

1bar	= 14.5 psi = 100 kN/m ²
1 foot head of water	= 0.434 psi
1 meter head of water	= 9.8 kN/m ²
1 Kilocalorie (kcal)	= the heat required to raise 1kg of water through 1°C = 4187 Joules = 3.97 Btu
1 British Thermal Unit (Btu)	= the heat required to raise 1lb of water through 1°F = 17.6 watt minutes = 0.252 kcal
1 kW Hour	= 3412 Btu = 860 kcal
1 joule	= 1 watt second (Ws)

Instantaneous performance calculations

Temperature rise °C	= kW Loading x 14.3 Litres per minute flow
Litres per minute flow	= kW Loading x 14.3 Temp rise °C
Temperature rise °F	= kW Loading x 5.7 Gallons per minute flow
Gallons per minute flow	= kW Loading x 5.7 Temp rise °F

Instantaneous heaters

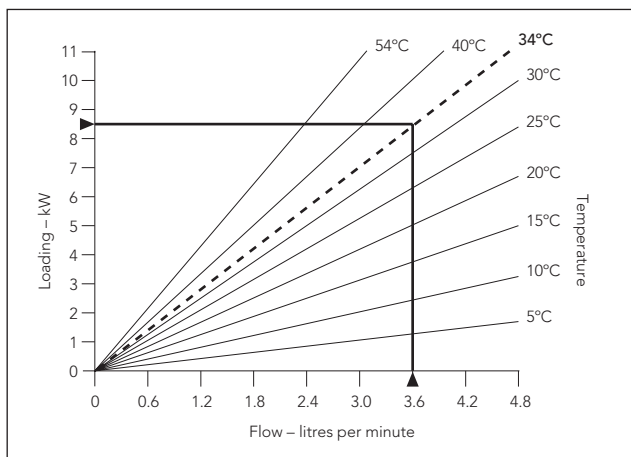
Pressure in P.S.I. for different heads of water

Head feet	Pressure lb/in ²
1	0.4
2	0.9
3	1.3
4	1.7
5	2.2
6	2.6
7	3
8	3.5
9	3.9
10	4.3
11	4.8
12	5.2
13	5.6
14	6.1
15	6.5
16	6.9
17	7.4
18	7.8
19	8.2
20	8.7
21	9.1
22	9.5
23	10
24	10.4
25	10.8

Pressure in kilo Newtons per square metre for different heads of water

Head metres	Pressure kN/m ²
0.5	5
1	10
1.5	15
2	20
2.5	25
3	29
3.5	34
4	39
4.5	44
5	49
5.5	54
6	59
6.5	64
7	69
7.5	74
8	78
8.5	83
9	88
9.5	93
10	98
11	108
12	118
13	127
14	137
15	147
16	157
17	167
18	177
19	186
20	196
21	206
22	216
23	226
24	235
25	245

Flow-load and temperature rise chart



Recovery chart

Approximate time in minutes to heat water

Loading Kilowatts	Litres heated through 50°C															
	5	7	10	15	30	60	80	100	150	200	250	300	400	600	800	1000
1	18	25	35	55	105	210	280	-	-	-	-	-	-	-	-	-
2	9	13	18	27	55	105	140	175	265	-	-	-	-	-	-	-
3	6	9	12	18	35	70	95	120	175	235	295	-	-	-	-	-
4	5	7	9	14	27	55	70	90	135	175	220	265	-	-	-	-
6	3	5	6	9	18	35	50	60	90	120	150	175	235	350	470	585
8	3	4	5	7	14	27	35	45	70	90	110	135	185	265	350	440
9	2	3	4	6	12	24	31	40	60	80	100	120	160	235	315	390
12	2	2	3	5	9	18	24	30	45	60	75	90	120	175	235	295
15	2	2	3	4	7	14	19	24	35	50	60	70	95	140	190	235
18	1	2	2	3	6	12	16	20	30	40	50	60	80	120	160	195
24	1	1	2	3	5	9	12	15	22	30	40	45	60	90	120	150
36	1	1	1	2	3	6	8	10	15	20	25	30	40	60	80	100

Loading Kilowatts	Gallons heated through 100°F															
	1	1.5	2	3	5	12	15	20	30	40	50	60	80	100	125	
0.75	24	40	50	75	120	285	-	-	-	-	-	-	-	-	-	-
1	18	27	40	55	90	215	265	-	-	-	-	-	-	-	-	-
1.5	12	18	24	40	60	145	180	235	355	-	-	-	-	-	-	-
2	9	14	18	27	45	110	135	180	265	355	-	-	-	-	-	-
3	6	9	12	18	30	75	90	120	180	235	295	355	470	590	735	885
4	5	7	9	14	22	55	70	90	135	180	220	265	355	440	555	670
6	3	5	6	9	15	40	45	60	90	120	150	180	235	295	370	455
8	3	4	5	7	11	27	35	45	70	90	110	135	180	220	280	345
9	2	3	4	6	10	24	30	40	60	80	100	120	160	200	245	300
12	2	3	3	5	8	18	22	30	45	60	75	90	120	150	185	230
15	2	2	3	4	6	15	18	24	40	50	60	75	95	120	150	190
18	1	2	2	3	5	12	15	20	30	40	50	60	80	100	125	160
24	1	2	2	3	4	9	11	15	22	30	40	45	60	75	95	120
36	1	1	1	2	3	6	8	10	15	20	25	30	40	50	65	80

Lifetime guarantee terms and conditions



WARNING: Should the factory-fitted temperature and pressure relief valve be tampered with or removed your guarantee will be invalidated. Neither the Distributor nor Manufacturer shall be responsible for any consequential damage howsoever caused.

Heatrae Sadia guarantees the Megaflo eco / Megaflo eco systemfit / Megaflo eco solar against faulty manufacture or materials for a period of two years from the date of purchase including parts and labour. This two year guarantee is extended to five years for the cold water control valve and to lifetime* for the stainless steel inner vessel in domestic properties and to 30 years for the stainless steel inner vessel in commercial buildings.

These guarantees are valid provided that:

The Megaflo eco / Megaflo eco systemfit / Megaflo eco solar has been installed by a competent installer and as per the instructions contained in the installation manual and all relevant Codes of Practice and Regulations in force at the time of installation.

Any disinfection has been carried out in accordance with BS 6700.

The Megaflo eco / Megaflo eco systemfit / Megaflo eco solar has not been modified in any way other than by Heatrae Sadia Heating or Heatrae Sadia Heating approved engineers.

The Megaflo eco / Megaflo eco systemfit / Megaflo eco solar has only been used for the storage of wholesome water (max. 250mg/l chloride).

The Megaflo eco / Megaflo eco systemfit / Megaflo eco solar has not been subjected to frost, nor has it been tampered with or been subjected to misuse or neglect.

No factory-fitted parts have been removed for unauthorised repair or replacement.

The Benchmark log book supplied has been completed.

Regular maintenance has been carried out by a competent person in accordance with the requirements set out in the maintenance section of the installation manual and any replacement parts used should be authorised Heatrae Sadia Megaflo spare parts. Annual Services are available from heateam, the service division of Heatrae Sadia. Please contact heateam on Tel: 0844 871 1535 for further details.

Within 60 days of purchase the owner completes and returns the certificate supplied to register the product. Evidence of purchase and date of supply must be submitted upon making a claim.

This guarantee is not valid for installations outside the United Kingdom.

For installations outside of the United Kingdom, please contact either the Heatrae Sadia Heating Export Department on Tel: +44 1603 420271 for further details of the guarantee terms and conditions applicable. This guarantee does not affect your statutory rights.

Evidence of purchase and date of supply must be submitted. The unit is not guaranteed against damage due to frost. This guarantee does not affect your statutory rights.

The Megaflo eco systemfit components, immersion heater and thermal controls are guaranteed for a period of two years from the date of purchase. Five years for cold water control valve and systemfit primary expansion vessel.

*Lifetime is defined as for as long as the original owner who purchased the Megaflo eco / Megaflo eco systemfit / Megaflo eco solar / New Home continues to own the property. If the owner sells the property, the new owner (and any future owners) will receive a 30 year warranty from the time the original owner purchased the Megaflo eco / Megaflo eco systemfit / Megaflo eco solar or new property with Megaflo eco / Megaflo eco systemfit / Megaflo eco solar installed.

Guarantee terms and conditions



All Heatrae Sadia guarantees are applicable against faulty manufacture or materials provided that the product:

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.

Has not been modified in any way, other than by Heatrae Sadia Heating or heateam.

Has been regularly maintained in accordance with the instructions contained in the instruction manual.

Has not been damaged by frost or due to scale.

Has only been used with potable water.

Has not been tampered with or been subjected to misuse or neglect.

Registration card has been completed by the user and returned to Heatrae Sadia within 60 days of installation together with the proof of purchase.

Has been installed in the UK.

The guarantee is transferable.

The guarantee does not affect your statutory rights.

The pace of product development is such that we reserve the right to change product specifications without notice. We do, however, strive to ensure that all information in this catalogue is accurate at the time of going to publication.

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