





Water boiling, and water heating solutions...

UK market leaders in water heating and water boiling for over 45 years.



Choose the right product for your application

	Page 05	Page 06	Page 07
We like to help customers every step of the way, which is why we've created handy product selector guides to help you find the perfect solution for your application. Water Boiling Selector	REDRING		
	Sensaboil	SB2	Corvette
		502	Ouverie
Auto fill	•	•	
Plastic tank		•	•
Stainless steel tank	•		
Wall mounted	•	•	•
White finish	•	•	•
Stainless steel finish	•		

Water Heating Selector	Page 10	Page 11	Page 12	Page 13	Page 14	Page 15	Page 15	Page 16	Page 16
	Powerstream Ascari	MW/ EW	UWS	Flatback Cistern	WS7	Powerstream	Powerstream Eco	Instant Manual I3V	Auto AV3
Central heating	•								
Instantaneous						•	•	•	•
Multple outlets		•	٠	•		•	•		
Single outlet					•			•	•
Oversink mounting				•	•			•	•
Undersink mounting		•	•			•	•		
Unvented	•	•	•			•	•		
Vented	•			•	•				

What is a vented system?

A vented system has a cold water header tank directly feeding the hot water cylinder, and are vented through an open pipe within the system.

What is an unvented system?

An unvented system has the hot water cylinder fed directly from the rising cold main. This system has a series of pressure valves and is not vented through a vent pipe.





Redring have been UK market leaders in water heating and water boiling for over 45 years, with expert design, manufacturing and sales teams on hand to bring innovative market to homes. Our expertise and dedication is second to none and we work tirelessly to supply high quality products in a range of styles and designs to provide a solution for all applications.

We're a British Manufacturer

We pride ourselves on the fact that most of our products are produced in the UK at our state-of-the-art facility in Peterborough. Our commitment as a British manufacturer means that our products undergo extensive quality control measures to meet relevant British safety standards and provide superior solutions that perform to the high standard expected of us.

Mark Of Approval

Our products are tested and retested to ensure that they are of the upmost quality and in line with their specification before we make them ready for distribution. We only put our name on products when they have meet the relevant approvals and the high standard we insist upon.

Water Heating and Water Boiling

When specifying a water heater, you need to consider the use that the hot water is going to be put to. Redring have a comprehensive range of water heating products to suit all applications. Designed using the latest technology, the range covers both storage and point of use products.







Britain \square **Sensaboil Automatic**

REDRING

Key Features

- 206 cups per hour
- Powerful 3.0kW (@240V) heating element for rapid heat up time
- Heats and dispenses water at 98°C
- Easy to use chrome tap with constant or controllable flow
- Touch controller with On/Off LED and 'descale now' warning LED
- Sturdy painted or stainless steel construction
- Designed for wall mounting in premises where countertop space is minimal
- 3, 5 and 7.5L tank capacities, ideal for a range of hot water requirements
- Manufactured in the UK
- 2 years parts and labour guarantee

Available in 3, 5 and 7.5L tank capacities





REDRING

Sensaboil Automatic Automatic beverage water boilers

- Auto fill and heat

Initial draw of



Technical Specification

• kW loading at 240V: 3kW

- Water delivery temperature: 98°C
- Output per hour:
- 31 litres/55 pints/206 cups
- Fitted cable length: 2m Water inlet connection fitting 3/4" BSP
- Water feed hose length 2m
- Maximum inlet water pressure: 10 bar
- Voltage supply 230/240V 50-60Hz
- · Boil dry thermal cut-out
- 3kW element for rapid heat up

Dimensions - 3 Litre

344mm



Product Ref.	Finish	Model	Cat No.	I
Sensaboil 3L	White	SB3W	22672801	
Sensaboil 3L	Stainless Steel	SB3S	22672805	ę
Sensaboil 5L	White	SB5W	22673801	ę

6

• Easy to operate via a patented chrome tap • Stainless steel tank • Delivers 206 cups of hot water per hour

ff	3L	5L	7.5L
	20	34	51

Dimensions - 5/7.5 Litre



Product Ref.	Finish	Model	Cat No.
Sensaboil 5L	Stainless Steel	SB5S	22673805
Sensaboil 7.5L	White	SB7W	22674801
Sensaboil 7.5L	Stainless Steel	SB7S	22674805

Water boiling



SB^2

Beverage water boilers

- Delivers up to 154 cups of hot water every hour
- Auto fill and temperature control between 90 and 100°C
- Stainless steel sheathed heating element
- CFC-free insulation minimises temperature and energy loss



Key Features

154 CUPS

kW¢

2.2kW RATING

- 2.5 litre tank capacity
- Scale trap feature
- 2 pipe entry points for easy installation
- Easy to turn dial to dispense water
- On/standby push button
- Power on, unit full and temperature ready LED indicators
- 2 year UK guarantee

- - 15mm compression fitting
 - Fitted cable length: 1m
 - Overflow/vent connection discharges to a suitable drain • Maximum inlet water pressure 10 bar

Technical Specification

• kW loading at 240V: 2.2kW

• Wall mounted with rear or bottom

plumbing connection via a standard

• Voltage supply: 230/240V 50-60Hz

Dimensions



Key Features

- Quick and easy installation
- · Easy to read water level indicator
- Optional Plumbing-In Kit allows mains connection
- temporary connection to a tap

Technical Specification

- permanent supply through cold water
- Supplied with 1m detachable hose for
- Stainless steel base plate
- 2 year UK guarantee

- kW loading at 240V: 2.2kW
- Electrical connection via a fused spur
- Water entry via filler hose supplied, optional plumbing kit, or manually • Unit can be positioned over a sink or
- suitable outlet • Fitted cable length: 1m
- Voltage supply: 230/240V 50-60Hz
- Supplied with cable tidy, wall mounting
- plate, wall fixing kit and 1m filler hose

Product Range

Product Ref.	Finish	Model	Cat No
Corvette	White	CV1	287172
Plumbing-in Kit	White		897162
300mm Extended Length Outlet Spout	White		897162

Product Ref.	Finish	Model	Cat No.
SB2 2.5L	White	RSB2.5	22714401

Water boiling

Corvette Wall kettles

• Permanently wired, ideal for oversink installations • Optional plumbing in kit available

• Auto switch off at boiling point

Can boil from 1 to 3.8 litres of water



Dimensions



о. 201 6201

6203

Plumbing-in kit includes inlet hose, inlet elbow, sealing washer, pipe clip and flanged jointing tube.



Powerstream Ascari

Central heating and hot water flow boilers

- Direct replacement for gas, oil, propane, solid fuel or electric storage heating*
- Suitable for sealed and open vented systems
- Suitable for unvented wet central heating and domestic hot water systems
- Compact design fits in most spaces



Technical Specification

for quick and easy install

• 7 segment digital displays of

temperature and pressure

Cat No.

45551860

Frost protection 5°C minimum temp

• Operating pressure 0.5 bar - 3 bar

Key Features

- Integral circulation pump and expansion
 Maximum power 4-12kW vessel
- Choice of 4, 6, 8, 10 or 12kW on installation
- Ideal for well insulated properties of up to 80m²
- 5 litre water storage for rapid response
- Stainless steel elements

Product Range

Powerstream Ascari

* Building Regulations apply

Product Ref.

• 3 year UK guarantee on tank and 2 year • Top or bottom cable entry on components

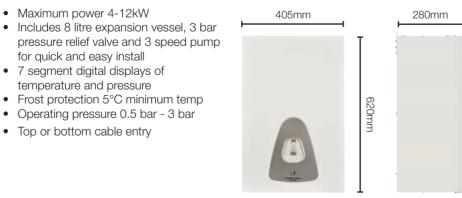
Finish

White

Model

PSA12

Dimensions



The Powerstream Ascari should be permanently connected to the electrical supply through a double linked switch with minimum breaking capacity for the loading. All wiring should conform to the current edition of the IEE wiring regulations.

Key Features

3kW RATING

UNDERSINK

0

- Balanced supply of hot and cold water
- Minimal heat loss and energy savings short pipe runs and superior insulation
- Adjustable thermostat to 70°C
- Compact for undersink mounting
- Remote siting possible
- Over temperature safety cut-out
- EW supplied as unit only. Safety protection devices will be required relevant to the installation.

Technical Specification

- Inlet/outlet connections 15mm (1/2" BSP) · Fixing pack with wall mounting bracket

- - Long life Incoloy elements • Needs to discharge to a drain • Operating pressure 1 bar - 12 bar (above 6 bar use cold water pack)

- kW loading at 240V: 3kW Replaceable magnesium sacrificial anode
- supplied

- Foamed polyurethane insulation

Product Range

Product Ref.	Finish	Model	Cat No.
MW10 10 Litre Undersink	White	MW10	47782001
MW15 15 Litre Undersink	White	MW15	47782101
EW10 10 Litre Undersink	White	EW10	47784501
EW15 15 Litre Undersink	White	EW15	47784502

10

MW/EW **Unvented water storage heaters**

- Designed to provide stored hot water from a mains pressurised water supply
- Hot water supply for up to 4 outlets
- MW model supplied with factory fitted temperature and pressure relief device for installation protection safety



Dimensions MW/EW

- Vitreous enamelled steel water container





Product Ref.	Model	Cat No.
Temperature/Pressure Relief Valve	TPR	97783258
Thermostatic Blending Valve	TBV	87783103
Tundish	TUN	97783236
Optional Cold Water Pack	CWP	87783101



Key Features

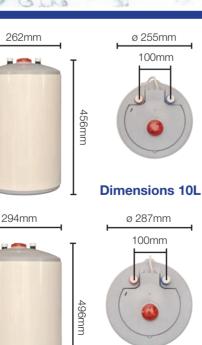
- High quality enamel lined tank
- Large magnesium anode
- CFC-free high density insulation foam
- Expansion relief valve
- Externally adjustable rod type thermostat with integrated security
- Indicator light when operating
- 1 year UK guarantee

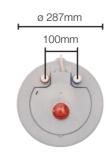
Product Range

Product Ref.	Finish	Model	Cat No.
UWS 10 Litre	White	UWS10	47784570
UWS 15 Litre	White	UWS15	47784571
Optional Cold Water Pack		CWP	87783101
Tundish		TUN	97783236
Temperature/Pressure Relief Valve		TPR	97783258
Thermostatic Blending Valve		TBV	87783103

Technical Specification

- kW loading at 240V: 2.2kW
- kW loading at 230V: 2kW
- Weight when full 10L: 17.5kg
- Weight when full 15L: 25kg
- Operating pressure: 1.5 bar 6 bar
- 2 dielectric union
- Sheathed copper immersion element
- Electrical connection 230-240V AC 3kW (13 Amps) is required









VENTE

- Ideal for replacement (overflow and cold feed can be connected on the left or
- right hand side)
- 50 to 80°C thermostatic control range • Drain connection supplied and fitted
- Overheat protection
- Long life Incoloy sheathed elements • 2 year UK guarantee

Technical Specification

- kW loading at 240V: 3kW
- 1/2" BSP cold water and 22mm compression fitting hot water connections
- High density foam insulation Corrosion proofed steel, with enamel
- finish outer casing Copper sheathed water vessel with brazed seams
- Operating pressure 0.7 bar 10 bar

Product Range

Product Ref.	Finish	Model	Cat No.
Cistern 25 Litre	White	CT25	26786401
Cistern 50 Litre	White	CT50	26786801

OVERSINK

Dimensions 15L

0	
2	

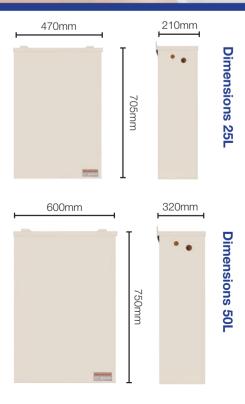


Flatback Cistern Vented water storage heaters

- Wall mounted installation ideal for small commercial kitchens, bathrooms, cloakrooms and canteens
- Compact, multi-outlet water heating solution
- 1 adjustable thermostat and 1 high limit thermostat for extra control and safety
- Cold water cistern incorporated within unit









Water heating

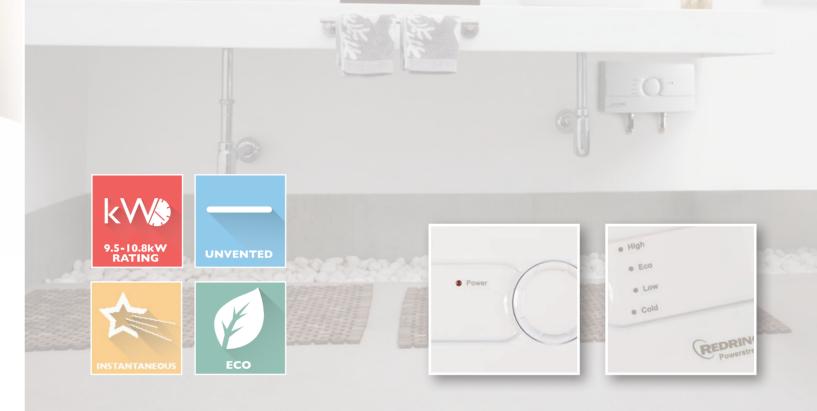
WS7

7L vented water storage heaters

- An economical solution to provide stored hot water
- EcoT model contains an integral timer
- Minimal standing heat loss as they are installed at point of use
- 1kW model ideal for energy saving and 3kW model ideal for fast recovery and heat time



- •













Key Features

- 7 litre capacity, point of use
- 300mm swivel spout included
- Wall bracket and full fixing pack supplied
- Can be mounted undersink using the monoblock chrome-mixer accessory
- Adjustable thermostat 15°C 75°C with frost protection setting
- Integral safety over-temperature thermal fuse
- Optional tamper proof cover supplied • 24 hour, 7 day programmable timer on
- WS7-EcoT model
- 2 year UK guarantee

Product Range

Product Ref.	Finish	Model	Cat No.
WS7-EcoT 3kW	White	WS7-EcoT	44780005
WS7 3kW	White	WS73	44780001
WS7 1kW	White	WS71	44780002

Technical Specification

- kW loading at 240V: 1 or 3kW
- Cold water 15mm compression
- Outlet 1/2 BSP swivel spout connection supplied • Restrictors supplied to optimise flow
- rate
- High quality impact resistant ABS cover • Sheathed heating elements
- Operating pressure 0.7 bar 10 bar
- NB: we recommend the use of the Redring Vented Monoblock Mixer

232mm 278mm

Product Ref.	Finish	Model	Cat No.
Extended Swivel Spout 450mm	Chrome	S1	84780404
Extended Swivel Spout 600mm	Chrome	S2	84780405
Monoblock Chrome Vented Mixer	Chrome	MCM	84780408
14			

Dimensions

Key Features

- Eco power setting for reduced running costs
- Ease of control with adjustable power dial
- User power selection options for economy and seasonal performance control
- Removes the need for connection to stored hot water
- · Suitable for use with two hand basins or one basin and one mixer shower

1/4 Turn Spray Tap

inlet and outlet

bottom side

Product Range

Product Ref.	Finish	Model	Cat N
Powerstream E 9.5kW	White	RP1E	4567
Powerstream E 10.8kW	White	RP10.8E	4567
Shower Mixer Kit	Chrome	RM1	8579
1/4 Turn Lever Control Spray Taps (Pair)	Chrome	LT1	8579

15

	⊢I
400mm	

Water heating

Powerstream E Efficient unvented instantaneous

water heaters

 Delivers instant hot water at point of use • Eliminates the need for a centrally located hot water cylinder and long pipe runs External power selection

Ideal for hand basin supply in commercial washrooms and residential applications

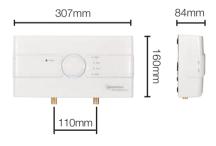
Technical Specification

• kW loading at 240V: 9.5 or 10.8kW Connected to the cold mains water supply • Supplied with 15mm straight shank on the

• Allows for pipe entry from the right or

• Operating pressure 1 bar - 10 bar • Recommended cable sizes and fuse ratings: 9.5kW 6 - 10mm² 40 Amps 10.8kW 10 - 16mm² 45 Amps • NB: We recommend the use of the Redring

Dimensions



No.

Water heating



Key Features

- Water supplied to one or two outlets (one shower and one hand basin or two hand basins)
- Water outlet via spray tap accessories
- Direct mains supply
- Small, compact shape
- Remote fitting option
- No standing heat losses

Product Range

Powerstream 9.5kW

Powerstream 10.8kW

Powerstream 12kW

Shower Mixer Kit

Product Ref.

Corrosion resistant steel backplate

Model

RP10.8

RP12

RM1

LT1

RP1

- kW loading at 240V: 9.5, 10.8 or 12kW
- Flow/service valve
- Water flow operated power switch
- Impact resistant thermoplastic cover
- Sheathed heating elements
- Operating pressure 1 bar to 10 bar • NB: We recommend the use of the Redring 1/4 Turn Spray Tap
- 307mm 74mm

Key Features (Instant Manual I3V)

- Simple to fit direct swap with previous Redring I3V installations
- Heat on neon indicator and overheat protection
- 3KW power = hot water, fast
- Anti-vandal spray head and swivel
- 200mm stainless steel spray arm
- 1 year guarantee

Key Features (Auto AV3)

- Simple to fit direct swap with previous Redring AV3 installations
- Timed shut off after 40 seconds save water and power
- · Heat on neon indicator and overheat
- protection Installer adjusted water temperature
- Anti-vandal spray head and swivel
- 200mm stainless steel spray arm
- 1 year guarantee

- 3KW power
- pipework
- Standard fixing kit supplied
- Water pressure operated power switch
- IPX4 rated

• 3KW power

pipework

IPX4 rated

17

1/4 Turn Lever Control Spray Taps (Pair) Chrome

Finish

White

White

White

Chrome

16

Cat No.

45793201

45793204

45793202

85793620

85793616

Instant Manual I3V

• single control for temperature and flow rate Unique Vortex technology improves flow

Instant heating – saving energy and water

Instant Auto AV3

- Infra-red, touch-free operation –
- ideal for high care areas
- Unique Vortex technology improves flow and prevents lime scale
- Instant heating -
- saving energy and water
- Robust and compact construction

Technical Specification (Instant Manual I3V)

Direct connection to water mains – standard 15mm

• Top, bottom and rear cable entry options Operating water pressure 0.7 – 7 bar (10-100 PSI)

Technical Specification (Auto AV3)

• Direct connection to water mains - standard 15mm

• Top, bottom and rear cable entry options • Standard fixing kit supplied Operating water pressure 0.7 – 7 bar (10-100 PSI) Water pressure operated power switch

Product Ref.	Finish	Model	Cat No.
Manual I3V	White	I3V	43678901
Auto AV3	White	AV3	43679901

Vortex Technology, Improves flow. **Reduces** limescale.

Technical tables

Temp rise °F

kW loading

required

Temper	rature Conversion	Table Pressu	ire Conversio	n Table					
°C	°F	Head	Pressure	Head	Pressure	Head	Pressure	Head	Pressure
1	33.8	Feet	lb / in²	Feet	lb / in²	Feet	lb / in²	Feet	lb / in²
5	41.0	1	0.4	26	11.3	51	22.1	76	32.9
10	50.0	2	0.9	27	11.7	52	22.5	77	33.4
_15	59.0	3	1.3	28	12.1	53	23.0	78	33.8
20	68.0	4	1.7	29	12.6	54	23.4	79	34.2
25	77.0	5	2.2	30	13.0	55	23.8	80	34.7
30	86.0	6	2.6	31	13.4	56	24.3	81	35.1
35	95.0	7	3.0	32	13.9	57	24.7	82	35.5
40	104.0	8	3.5	33	14.3	58	25.1	83	36.0
45	113.0	9	3.9	34	14.7	59	25.6	84	36.4
50	122.0	10	4.3	35	15.2	60	26.0	85	36.8
55	131.0	11	4.8	36	15.6	61	26.4	86	37.3
60	140.0	12	5.2	37	16.0	62	26.9	87	37.7
65	149.0	13	5.6	38	16.5	63	27.3	88	38.1
70	158.0	14	6.1	39	16.9	64	27.7	89	38.6
75	167.0	15	6.5	40	17.3	65	28.2	90	39.0
80	176.0	16	6.9	41	17.8	66	28.6	91	39.4
85	185.0	17	7.4	42	18.2	67	29.0	92	39.9
90	194.0	18	7.8	43	18.6	68	29.5	93	40.3
95	203.0	19	8.2	44	19.1	69	29.9	94	40.7
95	212.0	20	8.7	45	19.5	70	30.3	95	41.2
		21	9.1	46	19.9	71	30.8	96	41.6
		22	9.5	47	20.4	72	31.2	97	42.0
		23	10.0	48	20.8	73	31.6	98	42.5
		24	10.4	49	21.2	74	32.1	99	42.9
		25	10.8	50	21.7	75	32.5	100	43.4

Loading Calculations (excluding heat losses)

-							
Time to heat water (mins)	=	Litres x Temp rise (°C) kW loading x 14.3	Length	1m 1ft	= 3.28ft = 30.8cm	1 joule	=
	=	Gallons x Temp rise (°F) kW loading x 5.7	Volume	1gal	= 4.54l = 277 cu. ins.	1 kW hour	=
kW loading required	=	Litres x Temp rise (°C) Time (mins) x 14.3		1litre	= 10lbs (water) = 0.22gals = 1000cm³	1 British Thermal Unit (Btu)	=
	=	Gallons x Temp rise (°F) Time (mins) x 5.7		10001	= 1kg (water) = 1m ³		= =
Performance	Ca	lculations	Weight	1lb 1kg	= 0.45kg = 2.21lbs	1 kilocalorie (kcal)	=
Litres per minute flow	=	kW loading x 14.3 Temp rise (°C)	Pressure		= 14.5psi = 100kN/m ² ad of water = 0.434psi		=
Temp rise °C	=	kW loading x 14.3 Litres per min flow		1m he	ead of water = 9.8kN/m ²		=

Hot Water Requirements

Physical Constraints

Handwashing	1 to 2.5 litres per person (40°C)
Kitchen sink	2 to 7 litres per person (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)

Hot Water Recovery Charts

=

				Lit	res of	Wate	r			
		5	7	10	15	30	60	80	100	
	1.0	18	25	35	55	105	210	280		
	2.0	9	13	18	27	55	105	140	175	
Kilowatts	3.0	6	9	12	18	35	70	95	120	
Ma	4.0	5	7	9	14	27	55	70	90	
ilo	6.0	3	5	6	9	18	35	50	60	
	8.0	3	4	5	7	14	27	35	45	-
ing	9.0	2	3	4	6	12	24	31	49	
ad	12.0	2	2	3	5	9	18	24	30	Minutes
Loading	15.0	2	2	3	4	7	14	19	24	es

kW loading x 5.7

Gallons per min flow

Litres x Temp rise(°C)

Time (mins) x 14.3

	Litres of Water							
	150	200	250	300	400	600	800	1000
1.0								
2.0	265							
3.0	175	235	295					
4.0	135	175	220	265				
6.0	90	120	150	175	235	350	470	585
8.0	70	90	110	135	185	265	350	440
9.0	60	80	100	120	160	235	315	390
12.0	45	60	75	90	120	175	235	295
15.0	35	50	60	70	95	140	190	235

1 watt second (Ws)

Heat required to

raise 1lb water

17.6 watt mins 0.252kcal

Heat required to

raise 1kg water

through 1°C

4187Joules

3.97Btu

through 1°F

3412 Btu

860kcal

We're here to help

Product Queries

Our Product Service and Repair team are happy to help with any technical gueries you have about your product. If you wish to speak to someone over the phone, the team can be contacted on 0844 372 7766.

Our UK based call centre is open Monday to Friday from 8:00 until 17:30. Alternatively, you can email the team with your query any time at technical.services@redringxpelair.com.

In the unlikely event that your product is not performing as expected or has developed a fault, please call 0844 372 7766 or email service.request@redringxpelair.com. Our experienced team will then diagnose the fault and arrange a service call from an engineer if necessary.

Sales Queries

If you've chosen your Redring product and are eager to purchase it, or if you require spare parts for your unit, our Sales team will be happy to help you find a local stockist. The team can be contacted on 0844 372 7750 from 8:30 until 5:00 Monday to Friday.

The information you need may just be a click away....

The Redring website provides a comprehensive overview of all our showering products, as well as access to product manuals and brochures. You can also find Frequently Asked Questions to look up anything you're not sure about. Visit www.redring.co.uk for guick and easy access to this information.

You can also send us your query through the website by filling out an online enquiry form at www.redring.co.uk/contacts.











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