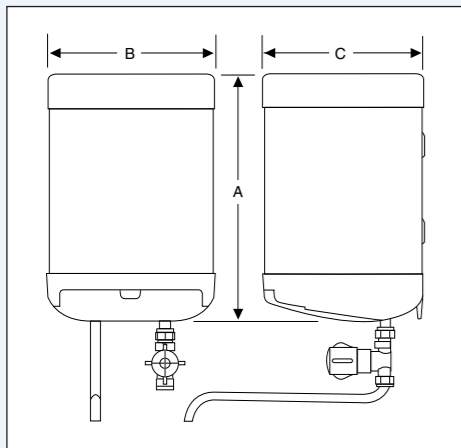


Aquarius

Technical Specification

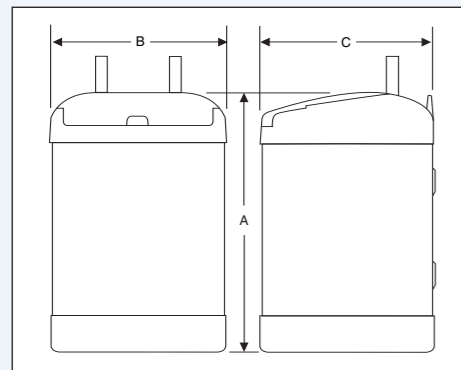
Aquarius Vented Oversink



Dimensions

Model	Model	A	B	C	Weight (kgs)	
Thermal fuse	Re-settable thermostat	(mm)	(mm)	(mm)	Full	Empty
A7/3	A7/3R	356	240	240	11.9	4.9
A7/1	A7/1R	356	240	240	11.9	4.9
A10/3	A10/3R	442	240	240	15.9	5.9
A10/1	A10/1R	442	240	240	15.9	5.9

Aquarius Vented Undersink



Dimensions

Model	Model	A	B	C	Weight (kgs)	
Thermal fuse	Re-settable thermostat	(mm)	(mm)	(mm)	Full	Empty
AU7/3	AU7/3R	356	240	240	11.9	4.9
AU7/1	AU7/1R	356	240	240	11.9	4.9
AU10/3	AU10/3R	442	240	240	15.9	5.9
AU10/1	AU10/1R	442	240	240	15.9	5.9

Model References / Capacities and Loadings

Ordering Guide

Model Ref.	Product Code	Litres	Rating
A7/3	94 010 001	7	3.0kW @ 240V (2.75kW @ 230V) single phase AC
A7/3R	94 010 021		
A7/1	94 010 002	7	1.2kW @ 240V (1.17kW @ 230V) single phase AC
A7/1R	94 010 022		
A10/3	94 010 003	10	3.0kW @ 240V (2.75kW @ 230V) single phase AC
A10/3R	94 010 023		
A10/1	94 010 004	10	1.2kW @ 240V (1.17kW @ 230V) single phase AC
A10/1R	94 010 024		
Telescopic Spout (380 - 610mm)	94 970 035		

Element

Alloy sheathed element, incorporated into an easily removable heater plate, should replacement be necessary.

Inner Container

Copper. Pressure tested to 1.38 bar (20psi). A minimum head pressure of 4 metres is required.

Outer Casing

The main body is substantial gauge sheet steel, anti-corrosion treated and finished in white stoved enamel. End covers are moulded in grey ABS. The back has three fixing points for wall mounting.

Insulation

Approved CFC/HCFC free (ODP ZERO) polyurethane foam.

Thermostat

Capillary type, adjustable 10°C - 70°C.

Safety Cut-out

Models are available with either a thermal fuse cut-out fitted in series with the adjustable thermostat or a manually re-settable thermostat.

Swivel Outlet

Stoved enamel copper tube 300mm, with 15mm 'Push-fit' connection. No other pipework or spout or tap should be connected to the outlet.

Inlet

An inlet valve is supplied with 15mm compression connections.

Electrical

The installation must comply with BS 7671 'Requirements for electrical installations' (IEE Wiring Regulations). It must be fully earthed and permanently connected to the electrical supply through a double pole linked isolating switch with minimum breaking capacity suitable for the loading.

Approvals

BEAB Approved. WRAS Approved. UK manufactured in a BS EN ISO 9001:2000 registered factory.

Guarantee

2 years product guarantee, from date of purchase, with on-site service support. Full details are contained in the Installation Instructions supplied with each unit.



Model References / Capacities and Loadings

Ordering Guide

Model Ref.	Product Code	Litres	Rating
AU7/3	94 010 008	7	3.0kW @ 240V (2.75kW @ 230V) single phase AC
AU7/3R	94 010 025		
AU7/1	94 010 009	7	1.2kW @ 240V (1.17kW @ 230V) single phase AC
AU7/1R	94 010 026		
AU10/3	94 010 010	10	3.0kW @ 240V (2.75kW @ 230V) single phase AC
AU10/3R	94 010 027		
AU10/1	94 010 011	10	1.2kW @ 240V (1.17kW @ 230V) single phase AC
AU10/1R	94 010 028		

Element

Alloy sheathed element, incorporated into an easily removable heater plate, should replacement be necessary.

Inner Container

Copper. Pressure tested to 1.38 bar (20psi). A minimum head pressure of 4 metres is required.

Outer Casing

The main body is substantial gauge sheet steel, anti-corrosion treated, and finished in white stoved enamel. End covers are moulded in grey ABS. The back has three fixing points for wall mounting.

Insulation

CFC/HCFC free (ODP ZERO) polyurethane foam.

Thermostat

Capillary type, adjustable 10°C - 70°C.

Safety Cut-out

Models are available with either a thermal fuse cut-out fitted in series with the adjustable thermostat or a manually re-settable thermostat.

Connections

15mm Copper tails.

Electrical

The installation must comply with BS 7671 'Requirements for electrical installations' (IEE Wiring Regulations). It must be fully earthed and permanently connected to the electrical supply through a double pole linked isolating switch with minimum breaking capacity suitable for the loading.

Approvals

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2 years product guarantee, from date of purchase, with on-site service support. Full details are contained in the Installation Instructions supplied with each unit.



SANTON

Aquarius

Oversink & Undersink Vented Water Heaters



SANTON

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WEBSITE www.santon.co.uk

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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part no. 94 900 001

Aquarius Vented Water Heaters

Sink and basin supply 10 litres and under

As small vented water heaters are typically installed directly over or under the sink, this range of products is commonly referred to as "Point of Use". The majority of units are installed directly over or adjacent to the point of application for light commercial duty such as washing cups and dishes. They can be supplied either directly from the mains or from an elevated cistern or feed tank (a minimum head pressure of 4 metres is required).

Aquarius Vented Oversink

An oversink unit is supplied with an inlet valve that, when opened, allows the mains cold water supply to enter the heater and displace the hot water stored in the cylinder. As the valve controls the displacement, the outlet is open to atmosphere so that when the unit heats up, the expanded water is allowed to drip from the spout into the basin. No other outlet should be used in conjunction with this type of product.

Aquarius oversink products are available in 7 and 10 litre capacities with options for 3 and 1.2 kW element ratings. Typically, they are supplied from the water mains although supply from a cistern can be used as long as there is a minimum head pressure of 4 metres.

The 3kW element provides a fast recovery from cold whereas the 1.2kW version means that Aquarius can be fitted in situations where the power supply may be limited, such as portable or temporary buildings.



Aquarius Vented Undersink

These can also be fed from the mains but only if one of the self venting taps (see opposite) is used. As with the oversink model, the special tap acts as an inlet valve so that when the tap is turned on, the cold supply is allowed to flow through the water heater, displacing the hot water into the basin. The outlet part of the tap is always open to atmosphere allowing the expanded water to drip from the tap into the basin during the heat up cycle.

Undersink models can also be connected to a cold water cistern or feed tank as long as the vented tap is used or a vent pipe is plumbed from the hot pipework to discharge the expansion back into the cistern. In such cases, the base of the cistern must be no higher than 10 metres above the top of the water heater and a vent pipe must be used.

Undersink vented water heaters are only able to supply one basin when used with vented taps. Aquarius undersink products are available in 7 and 10 litre capacities with options for 3 and 1.2 kW element ratings.

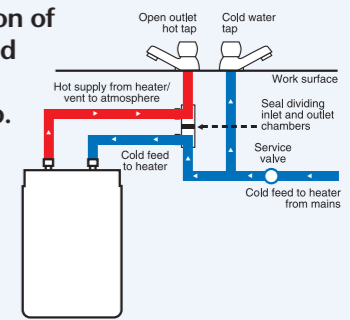
The 3kW element provides a fast recovery from cold whereas the 1.2kW version means that Aquarius can be fitted in situations where the power supply may be limited, such as portable or temporary buildings.

Vented Taps

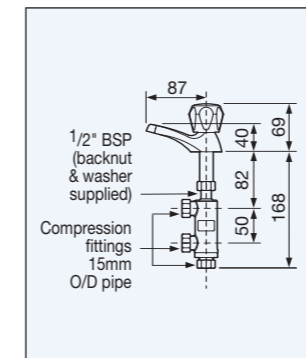
The Santon range of taps has been chosen to complement the Aquarius range of water heaters. It consists of vented hot taps and matching cold taps for use with vented undersink water heaters, as well as standard taps which can be used with any other Santon storage unit.

The taps are robust and made in traditional cast brass with a chrome finish.

A typical installation of an Aquarius Vented Undersink heater using a vented tap.



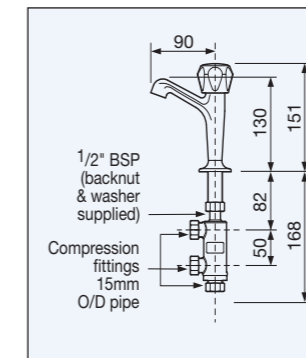
Vented Basin Hot Tap
Ref. TXH01:
Order Code 94 970 014



This tap is constructed to control the flow of incoming mains water supply to an open outlet type electric water heater. This displaces the heated water in an unrestricted flow through the tap's permanently open outlet. This vented hot tap is for full bore plumbing.

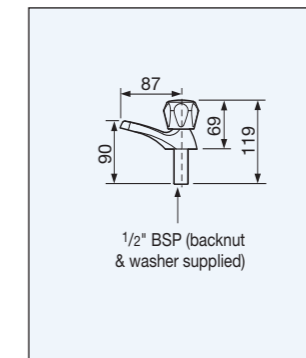
Above the basin it is identical to the universal taps, so a matching cold tap is available if required.

Vented Pillar Hot Tap
Ref. TXH02:
Order Code 94 970 015



This is a pillar (or high neck) tap version of model TXH01.

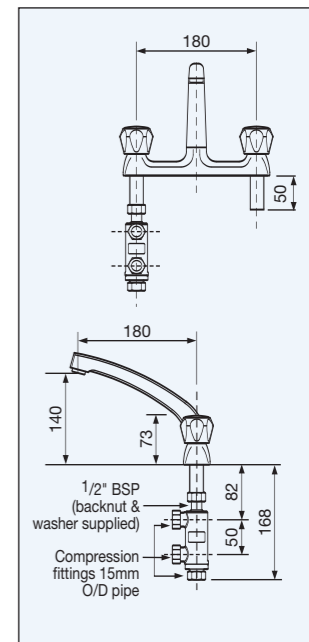
Universal Basin Tap
Ref. TXU01:
Order Code 94 970 017



These taps are packed individually with both a red and blue bezel and are normally used in cold tap form to match the TXH01.

Ref. TXU02:
Order Code 94 970 018
This is a pillar (or high neck) tap version of model TXU01 to match TXH02.

Vented Mixer Tap
Ref. TXM01:
Order Code 94 970 016

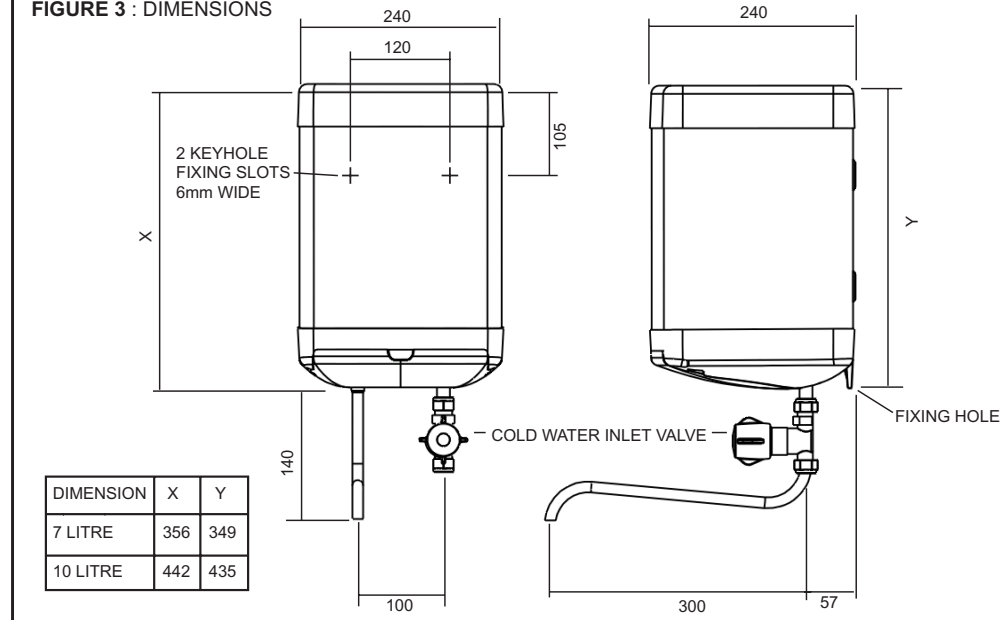


This is similar in operation to the vented hot tap but has the additional advantages of mixing the heated and cold water at the outlet and is ideally suited to kitchen use.

8. FAULT FINDING

SYMPTOM	PROBABLE CAUSE	ACTION
No hot water	1. Check power	Check and replace as necessary.
	2. Faulty cut out	
	3. Faulty thermostat	
	4. Faulty element	
Water too hot /cold	1. Thermostat set to wrong temperature	Adjust thermostat.
	2. Faulty thermostat	Switch off, check and replace.
No water flow	1. Frozen	Switch off electrical power and allow to thaw at room temperature. Do not switch on again until full water flow restored and full checks made for leaks and electrical safety.
	2. No mains supply	Check mains.
Continuous water flow	Faulty valve/tap	Check and replace.

FIGURE 3 : DIMENSIONS



9. SPARE PARTS

In the unlikely event of your Water Heater developing a fault, the following spare parts are available:

Element plate assembly 1.2kW	95 606 934
Element plate assembly 3kW	95 606 763
Element plate assembly gasket (pk of ten)	95 611 708
Over temperature cut-out	95 612 688
Capillary thermostat	95 612 667
Control valve	95 605 857
Spout adaptor	95 604 677
Spout (12") complete with adaptor	95 604 678
Top cover moulding	95 614 272
Terminal cover	95 614 273

10. GUARANTEE

This product is guaranteed against faulty materials and manufacture for a period of 2 years from the date of purchase provided that:

1. The unit has been installed in accordance with the Installation and User Instructions and all relevant Codes of Practice and Regulations in force at the time of Installation, and that all necessary controls and safety valves have been fitted correctly.
2. Any valves and controls are of the Santon recommended type and specification.
3. The unit has not been modified or tampered with in any way, and has been regularly maintained as detailed in the Installation and User Instructions.
4. The unit has been used only for heating potable water.

The unit is not guaranteed against damage by frost, and the inner container with integral immersion heater is not guaranteed against excessive scale build-up.

This Guarantee in no way affects the statutory rights of the consumer.

The policy of Santon is one of continuous product development and, as such, we reserve the right to change specifications without notice.

11. ENVIRONMENTAL INFORMATION

Santon products are manufactured from many recyclable materials.

At the end of their useful life they should be disposed of at a Local Authority Recycling Centre in order to realise the full environmental benefits.

Insulation is by means of CFC-free polyurethane foam.

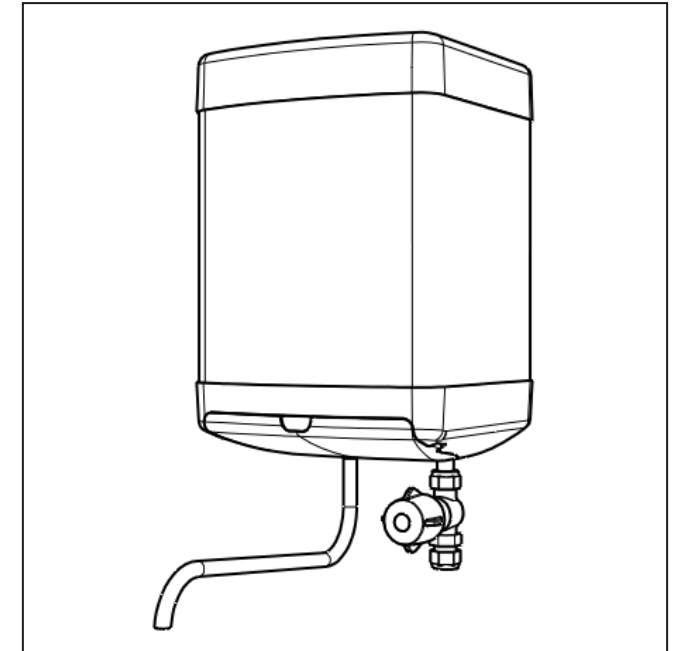
SANTON

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SANTON

Installation and User Instructions Aquarius Oversink Vented Water Heaters Models: A7/3, A7/1, A10/3, A10/1.



Please read and understand these instructions before starting work.
Please leave this leaflet with the user following installation

PACK CONTENTS

Heater, Fixing screws and plugs, Spout, Valve
Installation and User Instructions.

WARNING

This water heater must only be installed by qualified persons.

36005792 Issue 2.

1. INSTALLATION

1. Inlet must always be on the right.
2. The outlet of this water heater acts as a vent and must not be blocked or restricted in any way.
3. Use only Santon open outlet spouts.

2. POSITIONING THE WATER HEATER

1. Select a suitable site but check that:
 - a) There is enough clearance under the heater to allow removal of the element plate (210mm).
 - b) When using the outlet spout, it will swing over the sink (or sinks) to be supplied.
 - c) There are no hidden services where the wall is to be drilled.
2. Mark the position of the fixing holes (as shown in Fig. Three).
3. Drill and plug the hole positions.
4. Screw in the top two screws leaving heads 3mm from the wall.
5. Hang the heater on the two top screws.
6. Screw in bottom screw to secure heater.

3. PLUMBING REQUIREMENTS

The water heater is designed to be connected directly to the mains via the valve provided. It is recommended that a WRAS listed isolating valve (not supplied) be fitted in the water supply pipe to the heater to allow for servicing.

4. REMOVAL AND FITTING OF TERMINAL COVER

To remove the terminal cover use a large flat bladed screwdriver to relieve the snaps located towards the front of the terminal cover at either side. Gripping the cover at the front, pull downwards.
To fit the cover, locate the hinge at the back. Slide the snaps into place. Apply pressure to the front of the cover pushing it backwards and upwards until it snaps securely in place.

5. SPOUT AND VALVE

1. Connect the control valve supplied to the inlet pipe on the water heater.
 2. Connect the cold water main to the control valve using 15mm outside diameter pipe (either copper to BS EN 1057 or stainless steel to BS 4127).
 3. Push the outlet spout directly into the outlet fitting.
- TO REMOVE OUTLET SPOUT
1. Remove terminal cover.
 2. Push white ring upwards towards body of fitting.
 3. Pull spout downwards.

6. ELECTRICAL REQUIREMENTS (REFER TO FIGURE 2 - WIRING DIAGRAMS)

- WARNING: THIS APPLIANCE MUST BE EARTHED.
 - CONNECT ONLY TO 230 / 240V AC SUPPLY.
 - NOMINAL CROSS SECTION OF SUPPLY CABLE MUST BE AT LEAST 1.5mm².
 - A DOUBLE POLE ISOLATING SWITCH WITH A CONTACT SEPARATION OF AT LEAST 3mm IN EACH POLE MUST BE INCORPORATED IN THE SUPPLY.
 - ELECTRICAL INSTALLATION MUST CONFORM TO THE CURRENT I.E.E. WIRING REGULATIONS.
1. Remove terminal cover.
 2. Strip the outer sheath and insulation on the cable to the required lengths, making sure the outer sheath of the cable will be held in the cable grip when the connections are made.
 3. Loosen the top screws securing the cable grip.
 4. Pass the cable underneath the cable grip and through the top moulding.
 5. Make the connections to the terminal block as follows:
 - Live (brown or red wire) to terminal marked "L"
 - Neutral (blue or black wire) to terminal marked "N"
 - Earth (green or green/yellow wire) to terminal marked \perp
 6. Secure the cable in the cable grip by tightening the two screws.
 7. Set the adjustable thermostat by rotating the control to the required temperature.
It is recommended that it is set to lowest acceptable temperature to meet user requirements.
This will minimise the risk of scalding and reduce the level of scaling in hard water areas.
 8. Replace terminal cover.

7. OPERATION

DO NOT SWITCH ON HEATER UNTIL IT IS FILLED WITH WATER

1. Fill with water by opening valve and leaving open until a full bore of water flows from the outlet.
2. Close valve and switch on water heater at double pole isolating switch. The heater will heat water to the temperature set on the thermostat.
3. Check water is heating correctly.

7 litre 1.2kW	- after 10 mins water temperature will increase by 20°C
7 litre 3kW	- after 10 mins water temperature will increase by 60°C
10 litre 1.2kW	- after 10 mins water temperature will increase by 15°C
10 litre 3kW	- after 10 mins water temperature will increase by 40°C
4. Pass instruction leaflet to user and draw his attention to the following two statements:
 - a) DO NOT USE HEATER IF THE WATER IS THOUGHT TO BE FROZEN
Switch off immediately at the isolating switch if the water does not flow freely.
Any damage resulting from freezing will not be covered by the guarantee.
 - b) DURING HEATING THE SPOUT WILL DRIP
This is due to the expansion of water inside the heater and is normal for heaters of this type. It does not indicate that the valve is faulty and overtightening of the valve can result in damage.

FIGURE 1: INTERNAL LAYOUT

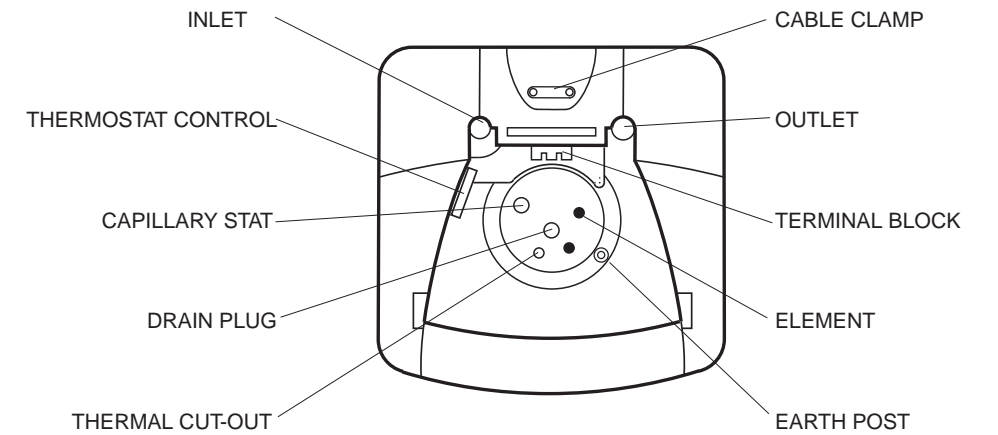


FIGURE 2: WIRING DIAGRAM 'AC' ONLY.

