

Undersink / Oversink Heater Installation Manual

Issue 1 2016/2017



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ELECTRICAL
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INTRODUCTION

Thank you for purchasing your **Strom-Electrical** electric water storage heater, we are very proud of our products and we are sure that you will be happy with the years of service you get from your model. This product has been designed to operate at mains pressure and deliver hot water to standard taps.

SPECIFICATION

MODEL	SEUS6L/SEOS6L	SEUS10L/SEOS10L	SEUS15L/SEOS15L
Capacity	6 Litres	10 Litres	15 Litres
Body Material	High Strength ABS Casing		
Voltage	220-240v		
Power	2.0kW	2.5kW	2.5kW
Working Pressure	5 Bar		
Minimum Inlet Pressure	0.2 Bar		
Temperature Range	Maximum 65°C		
IP Rating	IPX4		
Control Mode	Manual Control Dial		
Insulation Thickness	25mm		
Water Connections	G1/2"		
Dimensions			

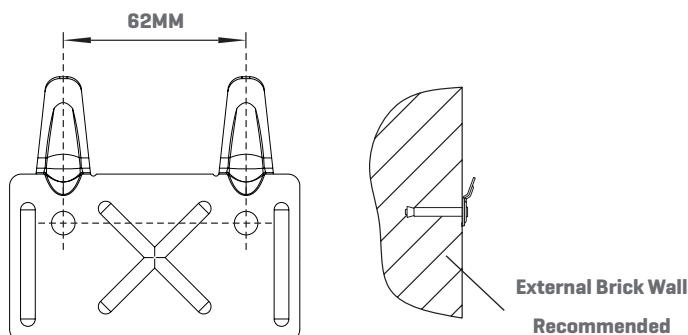
IMPORTANT NOTICE

- Your **Strom-Electrical** water heater **MUST** be installed and maintained regularly by a qualified professional in accordance with current electrical and plumbing regulations.
- The included Safety Pressure Relief Valve **MUST** be fitted in accordance with this manual.
- Your **Strom-Electrical** water heater **MUST** be installed in the correct orientation in accordance with page 5. The unit can be sited above or below the taps so long as it is in the correct orientation.
- Do not operate your unit at a temperature greater than required, this increases lifespan and reduces limescale build up.
- Your **Strom-Electrical** unit **MUST NOT** be powered up until the unit has been filled with water and the system has been flushed through to remove any airlocks and debris from the installation.
- This unit has been designed to be fitted indoors in a dry environment, should there be a possibility that the unit or pipes may freeze please drain down the system and don't resume operation until the pipes & unit have unfrozen.

WALL MOUNTING

Using the brackets and mountings provided please mount your unit on the wall, please take into account the following points when choosing where to mount your water heater:

- The wall must be strong enough to take the weight of not just the water heater, but the water it holds as well, wherever possible we would recommend securing onto an external brick wall.
- The unit should be located in a position as close to the outlets as possible, this reduces the amount of pipework between the heater and the outlet thus reducing heat loss across the pipework.
- Ensure that the water heater is in the correct orientation, the oversink model should always have the connections at the bottom of the unit, and the undersink model should always have the connections on the top of the unit.



PLUMBING

Your new water heater's connections are 1/2" BSP fittings and these connections are clearly marked on the unit, it is important that these two connections are not swapped over.

The connection from the heater to the system pipework should be made using flexible stainless steel hoses, this facilitates the operation of the unit and also makes future maintenance easier.

The pipework used should be capable of withstanding 7.5 bar of working pressure and temperatures in excess of 80°C.

The included safety relief valve must always be fitted without exception and should have no obstructions whatsoever between the valve and the heater itself. Always make sure that the discharge vents to a safe and visible location so as to provide a visible indicator that the system is not performing as expected.

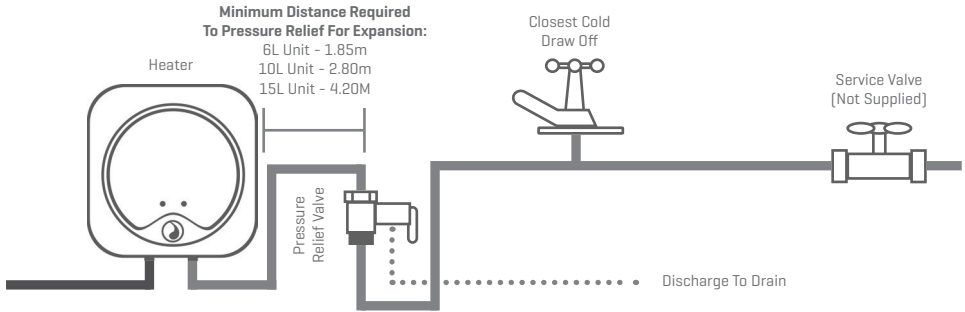
Once the unit has been completely plumbed in accordance with this manual please ensure the system is flushed through completely by opening the outlets for a minimum of 10 seconds, all air and debris should be purged from the system before operation.

Under certain circumstances it may be necessary for additional safety components to be fitted to the system installation, please see the diagrams overleaf to ascertain your installation configuration and any potential equipment that may or may not be needed to complete the installation.

PIPING SCHEMATICS

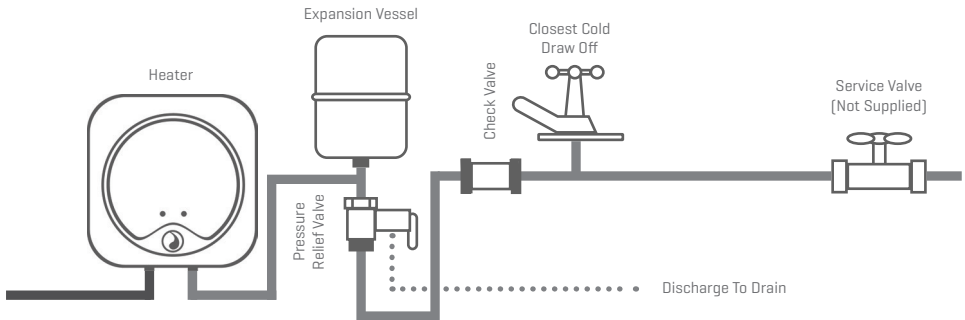
System 1 - Incoming Cold Mains Below 5 Bar.

No Additional Equipment Required



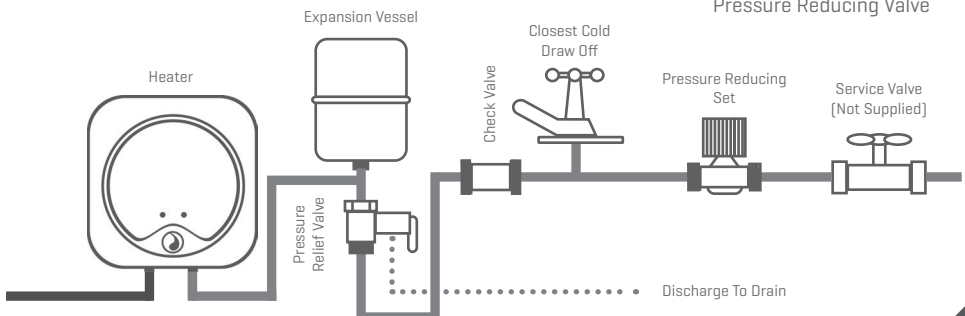
System 2 - Pressure Relief Closer Than Required [See System 1].

Additional Equipment Required:
2L Potable Expansion Vessel
Check Valve



System 3 - Incoming Cold Mains 5 Bar Or Above

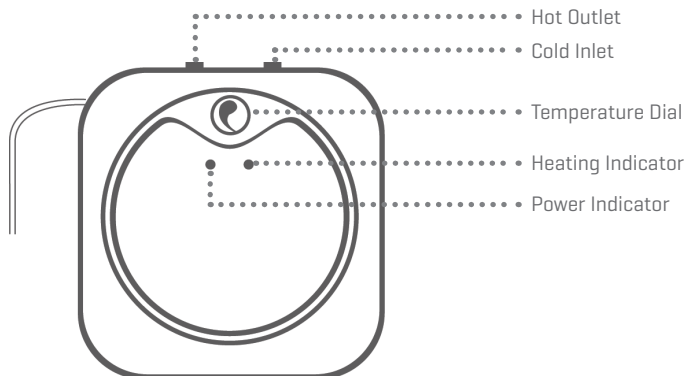
Additional Equipment Required:
2L Potable Expansion Vessel
Check Valve
Pressure Reducing Valve



HEATER STRUCTURE

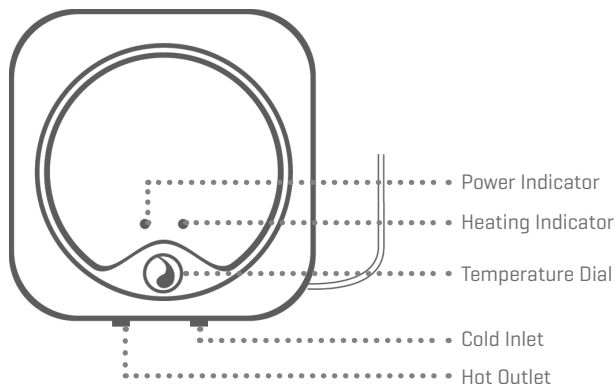
Undersink Water Heaters:

SEUS6L
SEUS10L
SEUS15L



Oversink Water Heaters:

SEOS6L
SEOS10L
SEOS15L



ELECTRICAL

Your **Strom-Electrical** water heater must be wired in accordance with all relevant electrical requirements and local regulations at the time and in accordance with the latest IEE regulations.

Connection should be made via a 13A switched fuse spur.

The cable supplied with the electrical water heater should be of ample length, but in the circumstances that it is insufficient we recommend removing the shorter length and replacing it with the correct length of cabling, we advise against joining the cable at any point.

Always ensure your water heater is correctly earthed.

As previously recommended please ensure that your unit has been filled, correctly flushed, and all debris and airlocks have been removed before turning your water heater on. By bypassing this step you risk irreversible damage to your water heater that will not be covered by your warranty.

Electrical connections can be made via an external time clock if required, this gives a greater deal of control for the operating times of this unit.

OPERATION

Once the system has been plumbed and wired in accordance with this manual it is time to switch the mains supply on.

When power is supplied to the unit the indicator light will illuminate to show that the system is ready, and beginning to heat the water.

The dial on the outside of the case can be used to control the temperature that the internal water store is heated to, turning this higher will increase the store temperature, turning it lower will decrease it. We recommend adjusting the thermostat over a few days until the desired temperature is achieved. Remember to only run the heater at the temperature required to avoid wasting energy.

In the event of overheating there is a safety cut out stat built into the unit. This has a resettable switch that can be pressed to reset and can be found on the immersion heater inside the unit. We recommend that you have a proper engineer service the unit and this is not attempted by the user.

The immersion heater is located below the grey plate on the underneath of the unit. If the unit has been installed so this plate is inaccessible please disconnect the unit from the mains, isolate the water supply, drain down, and remove the unit from the wall for maintenance.

Before attempting to maintain the unit please ensure you have isolated the electrical supply.

MAINTENANCE

Before attempting to maintain the unit please ensure you have isolated the electrical supply, and should only be performed by a qualified professional.

This unit is a mains pressure hot water unit, and it is recommended that this device be serviced annually to ensure a long and healthy lifespan.

Your water heater includes a Magnesium sacrificial anode as part of the immersion heater assembly. The anode is present to ensure that your water heater does not corrode, should this device not be serviced, the tank may corrode. The location of the immersion is as described above and is accessible from the grey service hatch on the bottom of the unit.

The anode should be inspected annually and the condition checked, if the anode is sufficiently corroded it should be replaced to ensure the protection of your water heater.

Additionally the pressure relief valve should be inspected annually, as well as the expansion vessel, check valve, and pressure reducing set if fitted.

GUARANTEE

Your **Strom-Electrical** water heater is guaranteed for a period of 12 months from the date of purchase. The unit is only guaranteed if the water heater has been installed and maintained in accordance with these instructions. Full guarantee information can be found at: www.strom-electrical.com/guarantee

The guarantee specifically excludes:

- Corrosion by incorrect maintenance of the water heater.
- Limescale build up.
- Consequential losses, including labour charges and damages to fittings.
- Any water heater that has not been maintained and installed in accordance with this manual.

TROUBLESHOOTING

SYSTEM ISSUE	LIKELY CAUSE	POSSIBLE SOLUTION
The Pressure Relief Valve Is Constantly Discharging Or Dripping.	The incoming cold mains pressure is too high.	Please fit a pressure reducing set inline with system 3.
The Pressure Relief Valve Drips Or Discharges Whilst The Unit Is Heating Up	There is insufficient expansion for your system.	Please fit an expansion vessel or increase the vessel size.
The Unit Is Not Producing Any Hot Water	The unit is not powered up.	Please check the system has access to the power supply.
	The thermal cut-out has activated.	Reset the cut-out in accordance with this manual.
	The element has failed.	Please replace the immersion heater.
	The Thermostat has failed.	Please replace the thermostat.
Insufficient Amounts Of Hot Water Available	The heater has been undersized.	Please replace the heater with one of an adequate size.
	The unit has been mounted the wrong way round.	Please mount the heater ensuring the pipes are facing downwards.
	The Thermostat has failed.	Please replace the thermostat.
The Unit Has Begun To Leak	Faulty plumbing connection.	Please check all joints to the water heater.
	Tank gasket has failed	Please replace the gasket that attaches between the tank and immersion heater.
All Other Faults	Please contact your installer before attempting to contact Strom-Electrical	

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