

# INSTALLATION AND WARRANTY INSTRUCTIONS

**IT IS THE RESPONSIBILITY OF THE INSTALLER TO INFORM THE END USER OF THE INSTALLATION, MAINTENANCE & REPAIR REQUIREMENTS FOR THIS WATER HEATER IN ACCORDANCE WITH SANS 10254 AND THE MANUFACTURERS REQUIREMENTS.**

## INSTALLATION INSTRUCTIONS - PLUMBING TO BE INSTALLED BY A QUALIFIED PLUMBER AND TO COMPLY WITH SANS 10254 & 10252-1 INSTALLER TO ISSUE A PLUMBING CERTIFICATE OF COMPLIANCE

This water heater must be fitted with the supplied TP VALVE before installation. Always fit this water heater with a PRESSURE CONTROL VALVE and EXPANSION CONTROL VALVE (which may be combined in one unit) not exceeding the kPa rating of the water heater as stated on the serial label. TP VALVE and EXPANSION VALVE overflow pipes must be led separately to the outside of the building in a continuous downward direction, in a frost free ambient with the outlets being left open to the atmosphere, and in case of the TP VALVE must be copper. The EXPANSION VALVE is designed to drip under normal operating conditions and must never be plugged.

1. Flush the cold water supply line prior to connecting.
2. Check that the control valve is free from dirt.
3. Ensure all piping and water heater brackets are securely fixed.
4. After connecting the installation, open one or more hot water taps and open the cold water to dispel air from the system.
5. Close all hot taps to bring water heater under pressure.
6. Check all plumbing connections for leaks.
7. Installation diagrams must be complied with in all respects.
8. The installation of a drip tray is required where water leaking from the water heater or connections could cause consequential damage.

## INSTALLATION INSTRUCTIONS - ELECTRICAL ELECTRICAL WORK TO BE CARRIED OUT BY A QUALIFIED ELECTRICIAN AND TO COMPLY WITH SANS 10142-1 WARNING: THIS APPLIANCE MUST BE EARTHED & BONDED

1. Heat resisting round 2.5mm<sup>2</sup> (minimum) 3 core stranded cable should be used to connect the electrical supply.
2. A double pole isolator switch to be installed within 1m of the water heater - correctly rated for the element size.
3. Circuit breaker on distribution board to be correctly rated for the element size.
4. Turn off the circuit breaker on the distribution board as well as the isolator at the water heater.
5. Remove the electrical access panel.
6. Cut away tips of old electrical wire, stripping away the insulation.
7. Connect and tightly secure electrical connection to the thermostat / terminal block. Ensuring thermostat is tightly inserted into the element.
8. Replace electrical access panel.
9. Ensure the water heater is full of water before switching on electricity, even for testing purposes.
10. Heating element will burn out if turned on without water.

## INSTALLATION INSTRUCTIONS - WALL MOUNTING

1. Remove brackets from the floor mounting position and bolt to side of the unit in the wall mounting position.
2. Bolt unit to the wall using suitable rated fixation bolts.

REFER TO SERIAL LABEL FOR WALL MOUNT SUITABILITY

## MAINTENANCE INSTRUCTIONS

**SWITCH OFF ELECTRICAL SUPPLY BEFORE ATTEMPTING ANY MAINTENANCE OR REPAIRS ON THE WATER HEATER**

### REPLACEMENT OF THERMOSTAT

1. Disconnect wiring, remove thermostat by pulling it out of its pocket.
2. Fit new thermostat, ensuring the stem of the thermostat is not bent or damaged in any way. On electronic models, ensure that the metallic thermostat bulb is inserted before the wired probe.
3. Reconnect wiring to thermostat ensuring connections are clean, tight and secure.
4. Set thermostat to 60°C or as required by user.

### REPLACEMENT OF ELEMENT

1. Drain water from the water heater.
2. Remove thermostat as above and remove flange lid from cylinder.
3. Remove old element and gasket from flange lid.
4. Fit new element and gasket to flange lid.
5. Refit flange lid, and replace thermostat as above.

### REPLACEMENT OF ANODE

1. The anode installed in a vitreous enamel lined steel water heater will slowly dissipate whilst protecting the cylinder.
2. The life of the cylinder may be extended by replacing the anode.
3. Inspect the anode yearly, and if required, replace the anode.
4. Replacement of the anode should be carried out at minimum 2 year intervals, during the warranty period, to ensure protection of the steel cylinder.
5. The life expectancy of the anode would be dependent on the water quality in the area, which the water authority can advise on.
6. A guideline below ( as reference only):

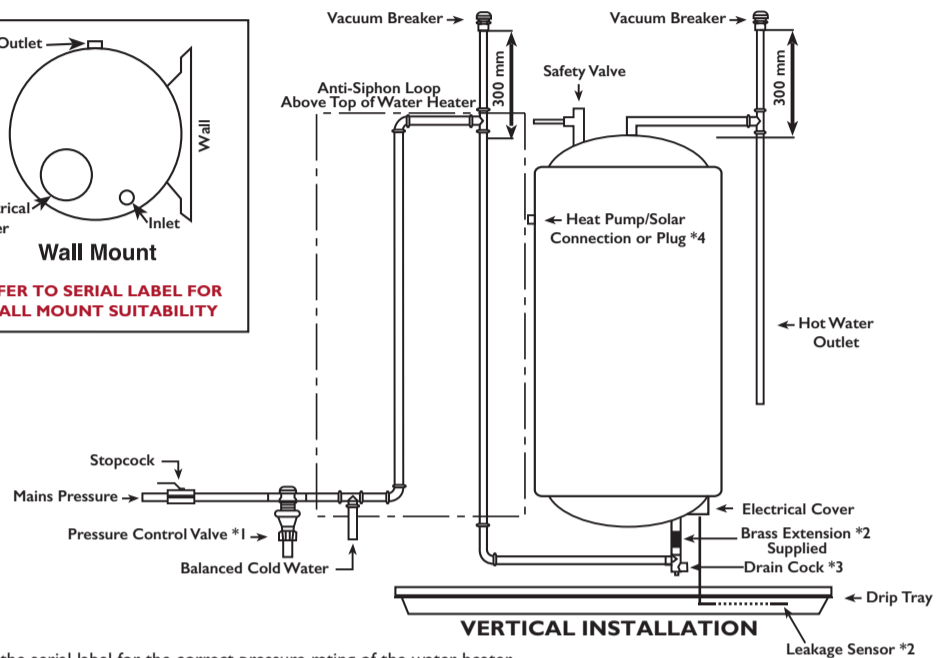
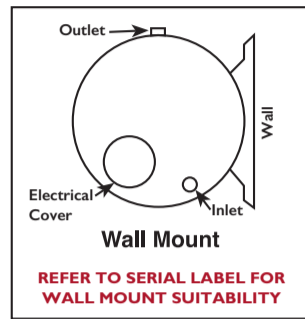
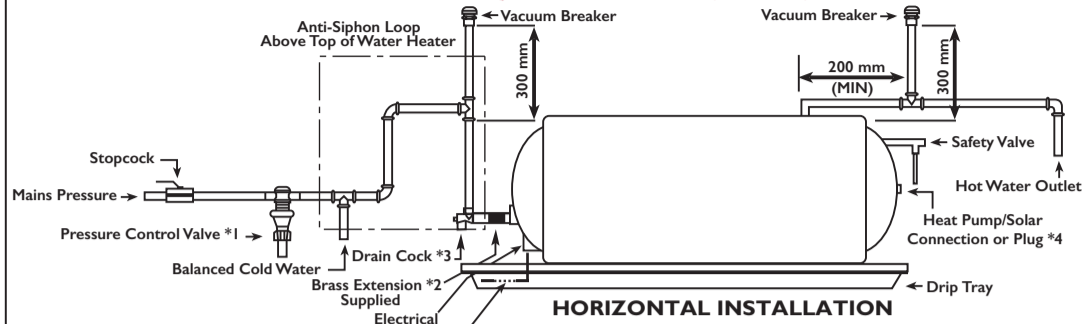
TOTAL DISSOLVED SOLIDS PPM	RECOMMENDED REPLACEMENT
0 - 400	3 Years
400 - 600	2 Years
Over 600	1 Year

Fitment of an aluminium anode is recommended for harsh water conditions.

7. When water is supplied from a borehole or well, anodes should be replaced at least once a year.
8. Replace anode as follows:
  - (a) Drain water heater.
  - (b) Remove anode cover and unscrew anode from cylinder.
  - (c) Fit new anode and replace anode cover.

**THE ANODE IS A MAINTAINABLE COMPONENT**

ALL PIPE WORK AND COMPONENTS CONNECTED TO THE INLET, OUTLET AND T&P VALVE SHOULD BE THERMALLY INSULATED FOR 2 METERS. THE THERMAL INSULATION SHALL COMPLY WITH THE REQUIREMENTS OF SANS 10252-1, SANS 10254, SANS 10400-XA AND SANS 204.



\*1 Refer to the serial label for the correct pressure rating of the water heater.

\*2 Supplied on certain models only.

\*3 Solar or heat pump compatible when used in conjunction with a dual drain cock.

\*4 When not using the additional socket for solar or heat pump - ENSURE THAT THE SOCKET IS PLUGGED.

The following minimum installation clearance must be allowed for on the electrical side of the water heater in the event of having to remove the element, thermostat or the anodes and 500mm on the opposite side.

50L - 500mm	100L - 700mm	150L - 950mm	200L - 1500mm

## WARRANTY \*T & C Apply

This water heater is warranted against faulty materials and/or workmanship not withstanding anything to the contrary contained herein. The company will repair or at its own discretion, replace a defective unit or parts inclusive of labour costs during the warranty period. The repaired or replaced part, or water heater, warranty will still be calculated from original date of manufacture, not from the repaired or replacement date.

The period of warranty is calculated from the date of manufacturing as indicated on the serial plate. This is the only warranty given and it expressly excludes all other warranties, expressed or implied by law. The warranty expressly covers the water heater only and does NOT cover any other part or parts of the installation which may, because of the failure or defect of the water heater become damaged in any way whatsoever and under no circumstances shall the manufacturer be liable for any direct, indirect or consequential loss suffered by the consumer and/or third party.

The warranty is subjected to the following:

- (a) The water heater is installed in accordance with SANS 10142-1: (Electrical) and SANS 10254 & 10252-1 (Plumbing) and in accordance with any other applicable national and local regulations.
- (b) The water heater is installed according to the manufacturers installation requirements.
- (c) The water heater is maintained and serviced yearly.
- (d) The anode is inspected yearly and replaced at least every second year for municipal water supplies.
- (e) The serial plate is not damaged or tampered with in any way.
- (f) The water heater is subjected to normal use with municipal water supply and proper installation by qualified personnel.
- (g) This warranty will exclude any failure due to hard water conditions.
- (h) Elements burnt out due to no water, or element and thermostat terminals burnt / melted are excluded from this warranty.
- (i) The above warranty is subject to only genuine replacement parts being used whilst the inner cylinder is still under warranty.
- (j) The above warranty shall however be completely invalidated if any repairs are effected by the customer or others on his behalf in an attempt, to remedy the alleged fault.
- (k) Under no circumstances must the unit be removed from the installation.
- (l) Sufficient access to the water heater for either repairs or replacement is the responsibility of the end user. The manufacturer will not make good or reassemble any ceilings or cupboards.
- (m) As per SANS 10254, no one-way valve or stop cock allowed between the water heater and expansion relief valve.

## WARRANTY PERIODS \*T & C apply

Cylinder	5* Years
Electrical Components	1 Year
Gaskets	1 Year
Drain Cock and T&P Valve	2 Years
Anode (consumable, service required)	None

\*Subject to replacement of anode every 2 years

\*Warranty only applicable in South Africa, Swaziland, Lesotho, Botswana & Namibia



# ARISTON

After-Sales Service: 087 943 7470 / service.za@aristonthermo.com