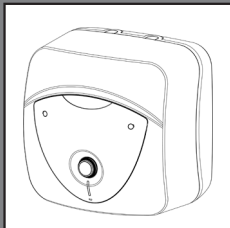




**ARISTON**



Electric water heaters








# GENERAL SAFETY INSTRUCTIONS

## CAUTION!
















1. **This manual is an integral part of the product. Keep it with care with the appliance, and hand it on to the next user/owner in case of change of property.**
2. **Read the instructions and warning in this manual carefully, they contain important information regarding safe installation, use and maintenance.**
3. The appliance must be installed and commissioned by a qualified technician in accordance with local legislation and health and safety regulations. All power circuits must be shut off before you open the terminal block.
4. **DO NOT** use the appliance for any other than its specified use. The manufacturer is not liable for damage resulting from improper or incorrect use or failure to observe the instructions given in this manual.
5. Incorrect installation can result in damage to property and injury to persons and animals; the manufacturer is not liable for the consequences.
6. **DO NOT** leave the packaging materials (staples, plastic bags, expanded polystyrene, etc.) within the reach of children - they can cause serious injury.
7. The appliance may not be used by persons under 8 years of age, with reduced physical, sensory or mental capacity, or lacking the requisite experience and familiarity, unless under supervision or following instruction in the safe use of the appliance and the hazards attendant on such use. **DO NOT** permit children to play with the appliance. User cleaning and maintenance may not be done by unsupervised children.
8. **DO NOT** touch the appliance when barefoot or if any part of your body is wet.
9. Any repairs, maintenance, plumbing and electrical hookup must be done by qualified technicians using original spare parts only. Failure to observe the above instructions can compromise the safety of the appliance and relieves the manufacturer of any liability for the consequences.
10. The hot water temperature is regulated by a thermostat which also acts as a re-armable safety device to prevent dangerous overheating.
11. The electrical hookup must be done as indicated in this manual.
12. If the appliance is equipped with a power cord, the latter may only be replaced by an authorised service centre or professional technician.

13. Make sure to drain the appliance when it is out of service or in an area subject to subzero temperatures.
14. Water heated to over 50° C can cause immediate serious burns if delivered directly to the taps. Children, disabled persons and the aged are particularly at risk. We recommend installing a thermostatic mixer valve on the water delivery line, marked with a red collar.
15. Do not leave flammable materials in contact with or in the vicinity of the appliance.

**Symbols:**

Symbol	Meaning
	Failure to observe this warning can result in injury, which may even be fatal in certain circumstances
	Failure to observe this warning can result in damage or injury, even serious in certain circumstances, to <b>property, plants and animals</b>
	Observe the product's general and specific safety instructions.

**GENERAL SAFETY STANDARDS**

Ref.	Warning	Risk	Symbol
1	Do not open the appliance or remove from its installation	Electrocution hazard due to the presence of live electrical equipment Personal injury - burns caused by overheated components and wounds caused by sharp edges	
2	Do not start or stop the appliance by inserting/pulling the power plug	Electrocution hazard due to damage to the power cord, its plug or the socket	
3	Do not damage the power cord	Electrocution hazard due to bare live wires	
4	Do not leave objects on the appliance	Personal injury due to objects falling off the appliance as a result of vibration	
		Damage to the appliance or other property due to objects falling off the appliance as a result of vibration	
5	Do not climb onto the appliance	Personal injury due to falling off the appliance	
		Damage to the appliance or other property due to the appliance itself detaching from its mounting	
6	Do not clean the appliance without having first switched it off, pulled its power plug or shut off its power switch	Electrocution hazard due to the presence of live electrical equipment	
7	Install the appliance to a solid wall which is not subject to vibration	Danger of the appliance falling off the wall due to structural collapse, or noisy operation	
8	Make the electrical hookup with cables of adequate cross-section	Danger of fire due to overheating of undersized electrical wires	
9	Restore all safety and control functions after working on the appliance and check that they are operational before returning it to service	Damage or blocking of the appliance due to improper control	
10	Drain all components containing hot water, using the bleed cocks, before handling them	Danger of burns	
11	Descale the system as given in the product's "safety sheet"; when doing so, ventilate the room, wear safety clothing, make sure not to mix products, and protect the appliance itself and any adjacent objects	Personal injury due to contact of the skin and eyes with acid, inhalation or ingestion of noxious chemicals	
		Damage to the appliance and adjacent objects due to corrosion by acid	
12	Do not use insecticides, solvents or aggressive detergents to clean the appliance	Damage to plastic and painted parts and assemblies	

## ANTI - LEGIONELLA FUNCTION

Legionella are small rod shaped bacteria which are a natural constituent of all fresh waters. Legionnaires' disease is a pneumonia infectio caused by inhaling of Legionella species. Long periods of water stagnation should be avoided; it means the water heater should be used or flushed at least weekly.

The European standard CEN/TR 16355 gives recommendations for good practice concerning the prevention of Legionella growth in drinking water installations but existing national regulations remain in force.

This electronic storage water heater is sold with a thermal disinfection cycle function enabled by default. Every time the product is switched on and every 30 days, the thermal disinfection cycle run to heat the water heater up to 60°C.

Warning: when this software has been carrying out the thermal disinfection treatment, water temperature can cause burns. Feel water before bathing or showering.

## DESCRIPTION OF THE WATER HEATER

(see figure 7)

- F) LED
- A) Cap
- M) Adjustment knob
- B) Water intake pipe
- C) Water outlet pipe

## TECHNICAL CHARACTERISTICS

For the technical specifications, refer to the nameplate (the nameplate is located next to the water intake/outlet pipes).

Product information					
Model	10L Oversink	10L Undersink	15L Oversink	15L Undersink	30L Oversink
Weight empty (kg)	6.6	6.6	7.4	7.4	12.8
Wattage	1500	1500	1500	1500	1500
Heating Time ( $\Delta T = 50^{\circ}\text{C}$ )	23 minutes	23 minutes	35 minutes	35 minutes	60 minutes
Heat Dispersion (kWh/24hours)	0.51	0.86	0.56	0.86	0.68

This appliance is conforming with the standard SANS 151 and with the electrical safety standards SANS 60335-1 and SANS 60335-2-21

## INSTALLING NORMS (for the installer)



**CAUTION** Observe all general warnings and safety standards listed at the beginning of this text in full; all such instructions are obligatory.

The appliance must be installed and commissioned by a qualified technician in accordance with established regulations and local health and safety regulations.

We recommend installing the appliance as close as possible to the delivery points to minimise heat loss along the pipes. Local regulations may provide for restrictions on installation in bathrooms; observe any regulatory minimum distances.

The range of water heaters includes models set up to be assembled above or below the point of use (sink, basin or shower). The models intended to be assembled under the point of use are called "undersink".

To facilitate maintenance, make sure there is a clearance of at least 50 cm inside the enclosure for access to the electrical equipment. Fix the supplied bracket to the wall with screws and dowels of adequate size for the type of wall. Hook the water heater to the bracket and pull down to make sure it is secured.

## HYDRAULIC CONNECTION

The **INSTALLATION** of the appliance must strictly comply with SANS 10254 code of practice, a copy of which is obtainable from the South African Bureau of Standards. Installation, maintenance and repairs to the appliance not complying with the SANS 10254 code of practice will invalidate the guarantee.

If you decide to install mixer units (taps or shower), purge the pipes of any potentially damaging impurities first.

The appliance must not be supplied with water of hardness less than  $12^{\circ}\text{F}$ , nor with especially hard water (greater than  $25^{\circ}\text{F}$ ); we recommend installing a water softener, properly calibrated and controlled - do not allow the residual hardness to fall below  $15^{\circ}\text{F}$ . Before using the appliance, we recommend filling its tank with water and draining it completely so as to remove any residual impurities.

Specific taps must be used for this type of installation and the connection must be implemented as shown in the diagram in Fig. 1. With this solution, the water heater can work at any mains pressure and no type of tap must be connected on the outlet pipe, which acts as a vent.

We recommend that all exposed metal pipes must be lagged.

The hydraulic adaptors, which are delivered with the product, must be installed on the thread connection with a sealing.

## ELECTRICAL CONNECTION

**Before performing any operations, disconnect the appliance from the electricity mains using the external switch.**

1. Electrical installation must comply with SANS 10142 – Electrical code for wiring of premises and should be tested by the local electricity authority. The fixed wiring must incorporate a means of disconnecting from the main supply having a separation of at least 3 mm in all poles.
2. Check the circuit breaker on the distribution board is the correct amperage for the unit.
3. Check that all electrical connections are secure.



**WARNING! THIS APPLIANCE MUST BE EARTHED.**

4. Replace electrical cover and ensure geyser is full of water before switching on electricity, even for testing purposes.
5. Fixed wiring must incorporate a means of disconnecting from the main supply, having a separation of at least 3 mm in a pole.

**NOTE:** Elements burn through commissioning without water and burnouts due to loose connections are not covered by the guarantee.

For greater safety, have qualified personnel carry out a careful inspection of the electrical system, ensuring it complies with the applicable norms in force, because the appliance manufacturer will not be held responsible for any damage caused by the lack of earthing of the system or for faults in the electricity supply.

Check that the system is suitable for the maximum power absorbed by the water heater (please refer to the data plate) and that the cross-section of the electrical connection cables is suitable and complies with current laws. The use of multipugs, extensions or adaptors is strictly prohibited. It is strictly forbidden to use the piping from the plumbing, heating and gas systems for the appliance earthing connection.

If the appliance is supplied with a power supply cable and the latter should need replacing, use a cable featuring the same characteristics (type H05VV-F 3x1.5 mm<sup>2</sup>, 8.5 mm in diameter) and compliant with SANS 60227-5. The supply cable (type H05 VV-F 3x1.5 mm<sup>2</sup>) is to be inserted in the proper hole situated in the back of the appliance and slide it until it reaches terminal of the thermostat, then lock single cables by mean of the insulation base. To disconnect the unit from the electrical supply use a bipolar, switch conforming to local (contact opening at least 3 mm, better if equipped with fuses). The appliance must be earthed and the earth cable (which must be yellow-green and longer than that of the phases it is fixed to the terminal marked by the symbol ⊕). Block the power supply cord on the small cap using the special wire clamp provided. **Before usage, make sure that the supply voltage is in compliance with the rated values of the appliance.** If the appliance is not supplied with a power supply cable, use a flexible cable (type H05VV-F 3X1.5mm<sup>2</sup>, 8.5 mm) in diameter compliant with the applicable norms in force, if the appliance is supplied with a cable clamp.

### Startup and commissioning

Before powering up the appliance, fill the heater with mains water.

To do so, open the mains cock and the hot water tap until all the air has been vented from the boiler. Check for leaks from the flanges, tighten down the fittings (not too much!) if necessary (A fig. 4).

Power up using the switch and in models with no switch, power up by turning the adjustment knob clockwise

## MAINTENANCE REGULATIONS (for competent person)



**CAUTION** Observe all general warnings and safety standards listed at the beginning of this text in full; all such instructions are obligatory.

**Maintenance work may only be done by qualified technicians (in possession of the regulatory requisites).**

Before requesting for the Technical Assistance to intervene for a suspected fault, check that this is not caused by a temporary lack of water supply or power failure.

### Draining the appliance

Make sure to drain the appliance when it is out of service or in an area subject to subzero temperatures.

To drain the appliance, proceed as follows:

- permanently disconnect it from its power supply;
- open the hot water tap (sink or bath tub).



## Replacing parts

Disconnect the appliance from its power supply.

Remove the enclosure to access the electrical equipment.

To work on the thermostat, extract it from its mount and disconnect it from its power supply.

To work on the heating element and anode, first drain the appliance.

**Use only original spare parts**

## Scheduled maintenance

The heating element (R fig. 5) should be descaled every two years to ensure it works properly.

If you do not wish to use a liquid descaler, you can simply break off the deposit, taking care not to damage the heating element's cladding.

The magnesium anode (N fig. 5) must be replaced every two years; however, the anode should be checked every year if the water is corrosive or chloride rich. To replace it, remove the heating element and unscrew it from its bracket.

**After routine or extraordinary maintenance, we recommend filling its tank with water and draining it completely so as to remove any residual impurities.**

**Use only original spare parts supplied by the manufacturer's authorised service centres.**

## Reactivating the two-pole cutout

If the water overheats excessively, a thermal cutout (CEI-EN compliant) trips to cut the electrical power supply to the heating element (both phases); contact the Service Centre if this occurs.

# USER INSTRUCTIONS



**CAUTION Observe all general warnings and safety standards listed at the beginning of this text in full; all such instructions are obligatory.**

## Recommendations

- Do not place anything under the water heater which may be damaged by a leak.
  - If the water is not used for a long time:
    - > shut off power to the appliance by setting the external switch to "OFF";
    - > close the water circuit cocks.
  - Water heated to over 50°C can cause immediate serious burns or even death. Children, disabled persons and the aged are particularly at risk of burns.
- Do not attempt to service or repair the appliance.

## Operation, setting the operating temperature

### Start up

Power up by turning the adjustment knob clockwise. The indicator lamp only remains on when heating up. The thermostat will automatically disconnect the resistance when the preset operating temperature is reached.

### Setting the operating temperature

On models with external regulation, the water temperature can be set with the knob (M fig. 6) connected to the thermostat, as indicated on the device itself.

# USEFUL HINTS

### If the water delivery is cold, have the following checked:

- is there power to the thermostat and terminal block?
- are the heating elements working?

### If the water is boiling hot (steam is coming out of the taps)

Shut off electrical power to the appliance and have the following checked:

- thermostat;
- the amount of scale on the boiler and heating element.

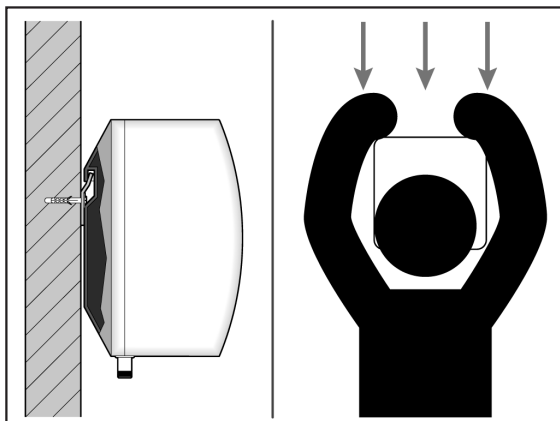
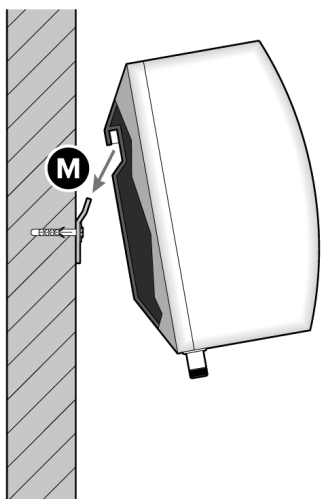
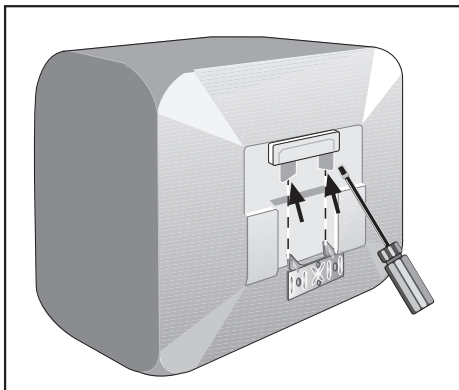
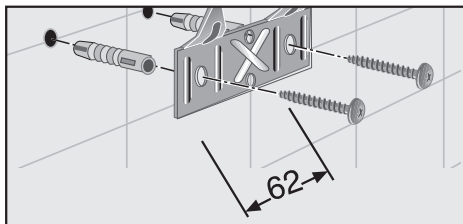
### If the hot water delivery is insufficient, have the following checked:

- the mains water pressure;
- the condition of the deflector on the cold water intake pipe;

- the condition of the hot water pipe;
- the electrical equipment.

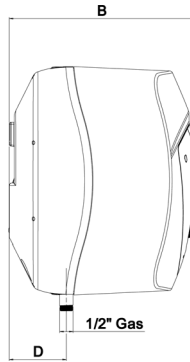
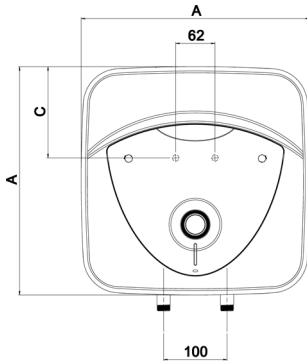
**NEVER ATTEMPT TO REPAIR THE APPLIANCE YOURSELF - ALWAYS HAVE THIS DONE BY A QUALIFIED TECHNICIAN.**

The indicated data and specifications are not binding; the manufacturer reserves the right to modify them at his own discretion notification or replacement.



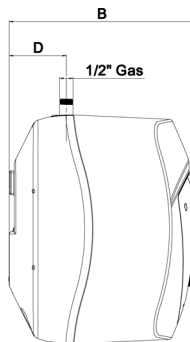
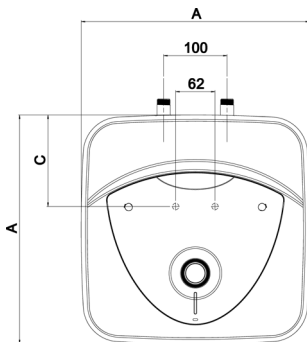
## Installation scheme

### Above-sink



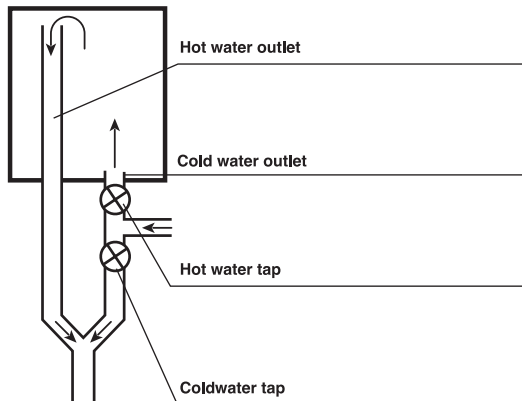
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A	357	357	447
B	282	330	392
C	144	144	165
D	92	78	114

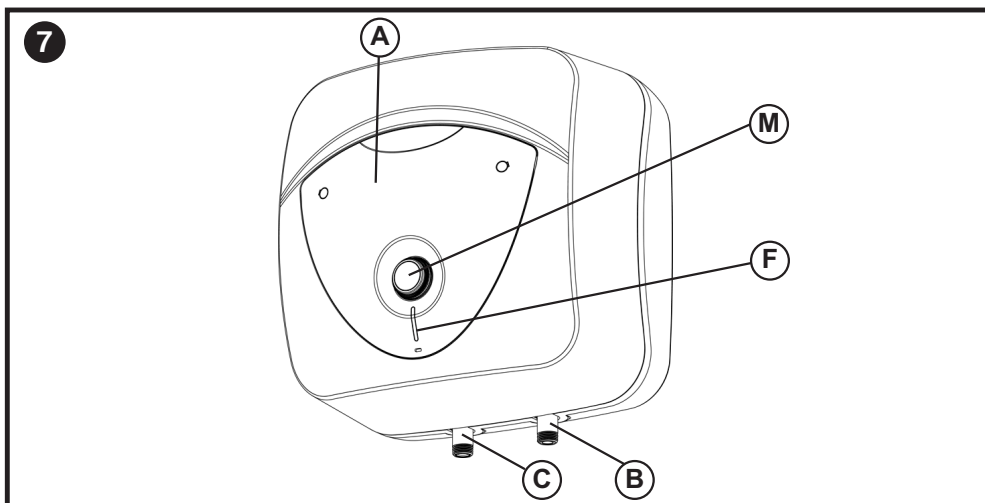
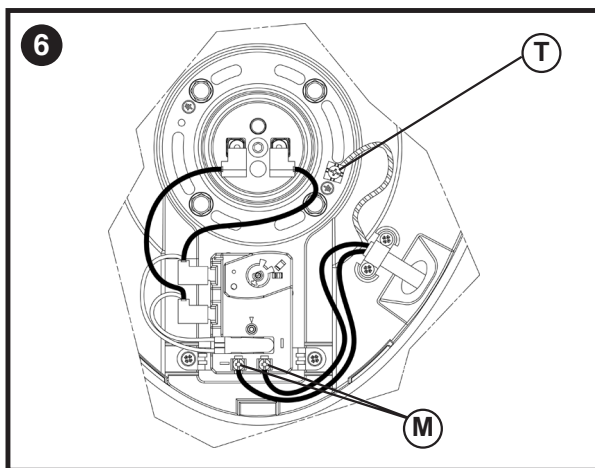
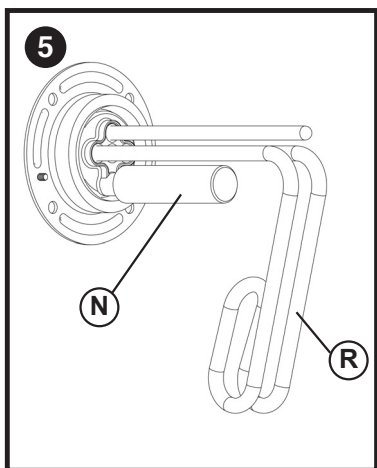
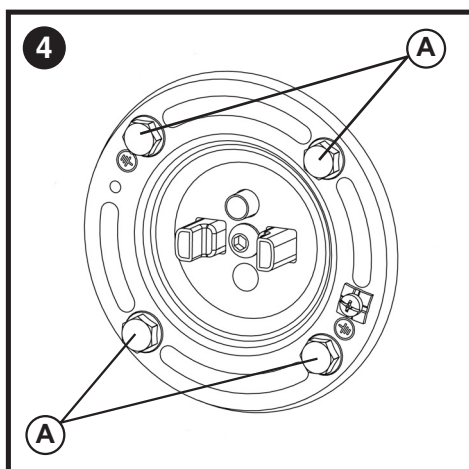
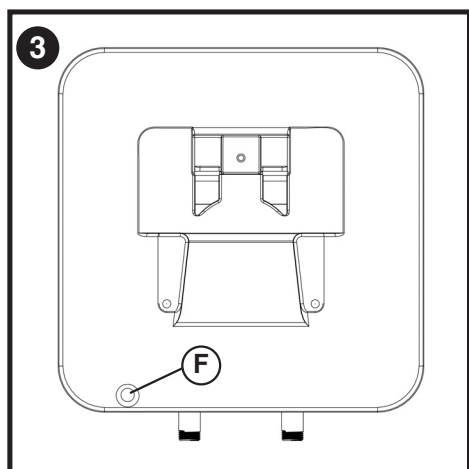
### Under-sink



MOD.	10	15
A	357	357
B	282	330
C	144	144
D	92	78

1





# GARANTEE

to be retained

## Heat Tech Geysers

Heat Tech Geysers (Pty) Ltd, 294 Barolong St., Icon Park, Sunderland Ridge, South Africa

T: (+27) 87 9437471 - F: (+27) 87 941 7403 - Web: [www.heattech.co.za](http://www.heattech.co.za)

Mr. \_\_\_\_\_

Address \_\_\_\_\_

ZIP \_\_\_\_\_ Town \_\_\_\_\_

Model

Serial N.

Years of Guarantee

Date of purchase

- 1 Heattech guarantees against corrosion (leaking) the inner tank of this water heater for the period specified on the forehead of this certificate.
- 2 Other parts, such as: element, thermostat, gaskets, thermometer, probe lamp, flange, security valve/s will be guarantee for one year only.
- 3 Magnesium anode (where applicable) is not covered by any guarantee in virtue of its nature of consumable material.
- 4 Furthermore this guarantee will not cover: transportation and handling damages; damages occurred because of wrong installation, transportation and installation expenses arising from eventual faulty units. This guarantee is invalid unless the unit is properly used and regularly maintained as set out in the installation manual.
- 5 The guarantee period will begin on the date of purchase reported on the receipt/invoice released by the dealer upon selling the unit.
- 6 It is therefore required, in order to exercise one's right to the eventual claim, to keep the following: receipt/invoice proving the date of purchase; this certificate duly filled-up.
- 7 This guarantees provides the free replacement of the defective component or of the whole, unit in case the above defects are, with no doubt, due to production faults.
- 8 Heattech will not be kept responsible for any damage, direct or indirect, to people, animals, properties in the house due to the non observance of the instructions contained in the installation manual of the relevant unit.
- 9 In case of claim, the end user will have to return the unit to the dealer, where from the water heater was originally bought, together with the receipt/invoice and this certificate. The dealer will carry out the testing of the unit and will process the eventual replacements needed.



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**Ariston Thermo S.p.A.**

Viale Aristide Merloni, 45

60044 Fabriano (AN)

Tel. (+39) 0732.6011

[ariston.com](http://ariston.com)





2<sup>nd</sup> of January 2021

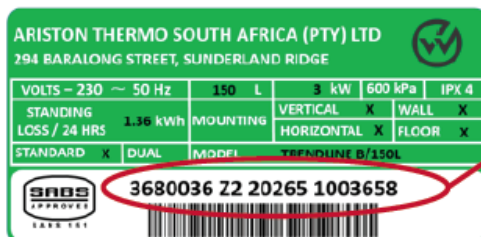
To Whom It May Concern,

# RE: WARRANTY PERIODS

This letter serves to confirm the warranty periods for the following products:

Type	Description	Warranty Period
ESWH	Trendline Highline Class B Compact Andris Lux	5 years on cylinder 1 year on electrical components 1 year on gasket and flange lid 2 years on valves
EIWH	Aures Slim Aures Slim Multi	1 year on heating element 2 years on tank, product and accessories
GIWH	Fast Evo Fast R	2 years on product
SWH	Solarline Thermo DR	5 years on cylinder 1 year on electrical components 1 year on gasket and flange lid 2 years on valves 5 years on solar collector, excluding glass

The warranty period will commence from the date of purchase or installation, failure to provide proof of this will result in the date of manufacture being used as indicated on the serial label:



3680036 22 20265 1003658

Product reference

Randomly assigned number

Year (2020) / Manufacturing day (265)

► Please quote the full 21 character number when reporting a service call

Whilst the product or spare parts are still under warranty, Ariston Thermo SA must be contacted for prompt assistance.

Under no circumstances must the unit be removed from the installation. Ariston Thermo SA reserves the right to require proof that the product installation complies before a service call would be registered.

## Ariston Thermo South Africa (Pty) Ltd

294 Barolong St., Icon Park, Sunderland Ridge, Centurion, 0157, South Africa. P.O Box 8446, Centurion 0046

T: +27 (0)87 943 7471 F: +27 (0)87 941 7403 E: info@heattech.co.za

www.heattech.co.za / www.ariston.com

Reg No 2010/022406/07

Ariston Thermo SA will repair or replace defective units/parts at its own discretion inclusive of labour costs during the warranty period. After repairs or replacements take place, the warranty time frame continues from the original date registered, not from the repaired or replacement date.

Should you require any further assistance regarding Warranty or After Sales Service, kindly contact the Ariston Thermo SA Call Center.

You can reach us via the following contact details:

*Call Center*        *010 745 9911*  
*Reception*        *010 745 9910*  
*e-mail:*            *service.za@aristonthermo.com*

*After Sales Service Times:*

<i>Monday to Friday</i>	<i>07:30 to 18:00</i>
<i>Saturday, Sundays and Public Holidays</i>	<i>07:30 to 15:00</i>

Upon successful registration of a warranty incident, the end-user will receive an SMS with a reference number and the appointed Service Center's information.

The Service Center will make contact with the end-user within an hour to set an appointment.

Ariston Thermo SA will endeavor to assist all warranty incidents within a 24-hour period.

Please refer to Ariston Thermo SA/Heat Tech's Water Heater Warranty T&C's for further information.

Regards,

Raymond Saayman  
Parts and Service Manager

**Ariston Thermo South Africa (Pty) Ltd**

294 Barolong St., Icon Park, Sunderland Ridge, Centurion, 1502, South Africa. P.O Box 8446, Centurion 0046

T: +27 (0)87 943 7471 F: +27 (0)87 941 7403 E: [info@heattech.co.za](mailto:info@heattech.co.za)

[www.heattech.co.za](http://www.heattech.co.za) / [www.ariston.com](http://www.ariston.com)

Reg No 2010/022406/07



## WARRANTY PROCEDURE

Herewith a kind reminder to our valued customers of the Ariston/Heat Tech Warranty Procedure.

**1.) Warranty periods on Ariston/Heat Tech Geysers:**

- 5 Years on Inner Cylinder
- 1 Year on Electrical (Element & Thermostat)
- 2 Years on Safety Valve & Drain Cock

**2.) Please always urge your customers to utilize qualified plumbers to do installations of Ariston/Heat Tech geysers.**

**3.) Please always inform your customers when selling Ariston/Heat Tech geysers, that they should never remove the geyser from the original installation during the warranty period, as this will automatically void the warranty.** All geysers must remain in position and untampered with, allowing our service agent to inspect the reported problem.

**4.) Please never accept the return of a geyser to your store, and please never offer a replacement geyser from the store to the customer.** This would effectively mean that the geyser has been removed from the installation, which voids the warranty, and Ariston/Heat Tech will then not be able to assist either the store, nor the end user customer.

**5.) Kindly educate your customers to **follow the below warranty procedure** to avoid disputes or misunderstandings in future :**

**a.)** After the customer has determined that the problem with the water heater is related to, AND covered under the warranty conditions, the customer has to report the problem DIRECTLY to our Service Centre. All geysers must remain in position and untampered with, allowing our service agent the opportunity to inspect the reported problem.

**b.)** When reporting the problem to our Service Call Centre, the customer or end user will be required to provide the following information:

- Geyser Serial Number
- DOM (Date of Manufacturing)
- Geyser Size
- Proof of purchase/installation date
- End Users Name, Surname, Contact Telephone Number(s) & e-mail address
- Installation Address
- Merchant Name (i.e. where geyser was purchased)
- The Problem with the geyser
- In some cases the end user customer may be requested to provide indicative photo(s) of the installation.

**c.)** Customers can contact the Ariston/Heat Tech After Sales Service Department at:

- Contact Number 1: 079 921 0118
- Contact Number 2: 087 943 7470
- e-mail : [service@heattech.co.za](mailto:service@heattech.co.za)
- Operating Hours: Mon to Fri 07:30 to 18:00
- Sat to Sun 07:30 to 15:00

**d.)** It may be preferable for yourself and/or end user to rather send an e-mail to [service@heattech.co.za](mailto:service@heattech.co.za) whereby providing the required information, saving time, and thereby having a record of the reported incident.

**e.)** The customer will be given a reference number for the incident reported.

**f.)** Ariston/Heat Tech Service Agent will then contact the end user customer to make the necessary further arrangements.

May we please ask that you distribute to, and advise your relevant staff accordingly.

Kind regards ,

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.

NOTE: 200L & 250L UNIT MAY NOT BE WALL MOUNTED

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 it's 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 magnesium 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):

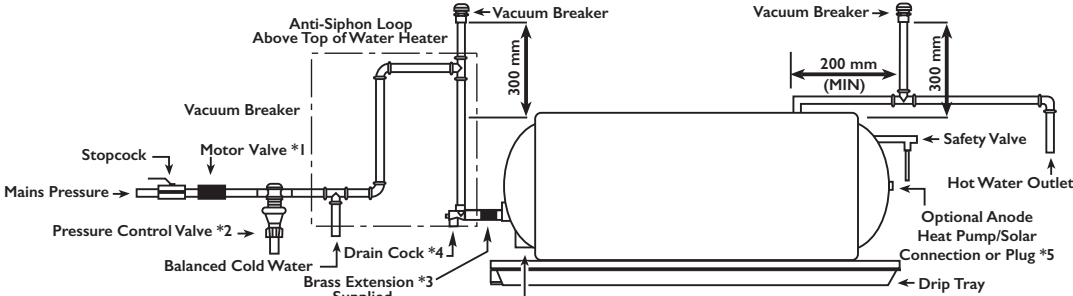
TOTAL DISSOLVED SOLIDS	RECOMMENDED
PPM	REPLACEMENT
0 - 400	3 Years
400 - 600	2 Years
Over 600	1 Year

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.

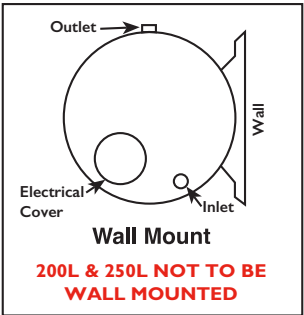
THE ANODE IS A MAINTAINABLE COMPONENT

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.



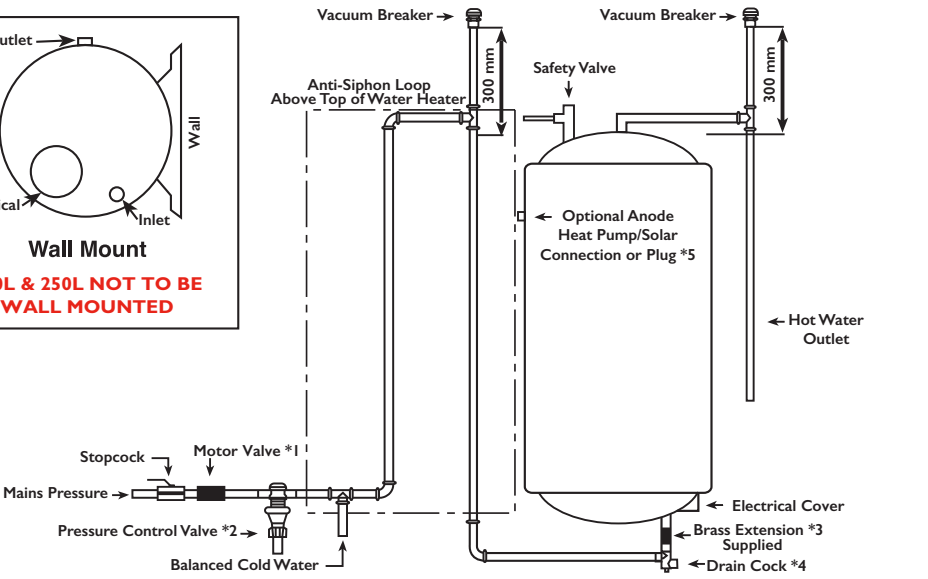
HORIZONTAL INSTALLATION

THIS WATER HEATER IS FITTED WITH A MAGNESIUM ANODE THAT REQUIRES PERIODIC REPLACEMENT



Wall Mount

200L & 250L NOT TO BE WALL MOUNTED



VERTICAL INSTALLATION

50L & 250L SHOULD NOT BE INSTALLED VERTICALLY.

- \*1 Optional extra for certain models only
- \*2 Refer to the serial label for the correct pressure rating of the water heater.
- \*3 Supplied on certain models only.
- \*4 Solar or heat pump compatible when used in conjunction with a dual drain cock.
- \*5 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	250L - 1500mm
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WARRANTY \*T & C Apply

This water heater is warrantied against faulty materials and/or workmanship not withstanding anything to the contrary contained herein. The company will repair or at it's 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

  
Manufactured by: HEAT TECH GEYSERS (PTY) LTD  
294 Barolong Street, Sunderland Ridge  
Tel: 087 943 7471

Email: info@heattech.co.za  
Web: www.heattech.co.za

After-Sales Service: 087 943 7470 / service@heattech.co.za