



INSTALLATION INSTRUCTIONS

& WARRANTY STATEMENT

CLASSIC SERIES

POWDER COATED

Models 2.5, 5, 7.5, 15, 25, & 40 Litre

STAINLESS STEEL

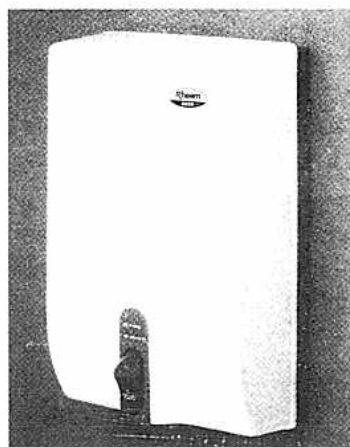
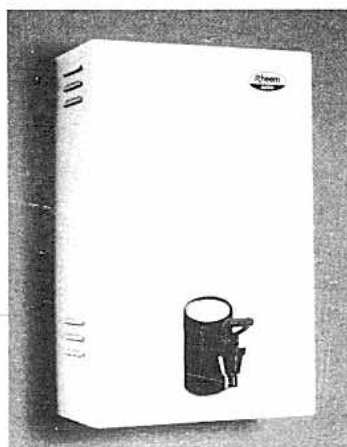
Models 7.5, 15, 25, & 40 Litre

CONCEALED

Models 5, 7.5, 15, 25, & 40 Litre

DESIGNER SERIES

Models 2.5, 5 & 7.5 Litre



IMPORTANT, PLEASE LEAVE WITH THE OWNER

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LAZER BOILING WATER UNIT INSTALLATION AND OWNERS GUIDE

Thank you for choosing our Lazer Boiling Water Unit. Please take a few minutes to read this booklet because it contains important information about the correct installation and operation of your Lazer unit.

1. WARNING

This Lazer unit produces boiling water (third degree burns may occur) and care should be taken at all times when using it. This unit is not intended for use by infirm persons and young children should be supervised to ensure that they do not play with the unit.

2. WATER QUALITY

Caution is suggested if the Boiling Water Unit is to be connected to a water supply with a high content of silica or calcium. Water supplies of this nature may be detrimental to the unit's operation and may cause the warranty to become void. For further information relating to the guidelines of water quality, contact your local Rheem office for advice.

3. INSTALLATION

This boiling water unit shall be installed by a qualified service person. The installation must comply with the NZ Building Code and the relevant wiring and plumbing regulations.

A. LOCATION

This unit is designed for interior installation only.

B. OPENING THE UNIT

To remove the jacket from models 2.5, 5 and 7.5 L remove the retaining screws at the top and bottom and pull the jacket forward. For models 15, 25 and 40 L unscrew the lid at the top and service plate on the left hand side.

C. MINIMUM CLEARANCES

All units require a minimum clearance of 50 mm on all sides, however, we recommend you leave sufficient clearance for servicing.

D. MOUNTING

The Lazer when installed is suspended from mounting screws located into keyhole slots at the back of the unit (refer to the specification on page 6).

Be sure that the mounting screws are securely inserted into the keyhole slots. The screws **MUST** be anchored in such a way, that they will hold the weight of the unit when filled with water, (refer to the specification table on page 5).

WARNING

Before drilling into the wall make sure that the screw positions avoid any pipe-work or electrical cables. Allow 4 mm clearance between the screw head and the wall for locating the unit.

E. WATER SUPPLY CONNECTION

Cold mains pressure water (refer to specification table on page 5 for minimum water pressures) must be piped and connected to the 1/2" BSP inlet fitting located on the left hand side underneath the unit. An accessible isolating valve must be installed near the unit.

This unit contains a filter on the water inlet connection (refer to figure 1). To ensure continuing satisfactory operation, it is suggested that the inlet filter be serviced every six months by a qualified service person. Where poor water quality is present it is recommended to install an additional auxiliary filter.

For rear entry connection on 2.5-7.5 Litre models, we recommend that you use a braided flexible hose with a 90° elbow for ease of connection.

F. OVERFLOW / VENT CONNECTION IMPORTANCE

Connect a 15 mm (½") pipe to the overflow/vent connection (½" BSP nipple). This pipe must have a continuous fall, not exceeding 3 metres in length, or contain no more than 4 bends (refer to figure 2). If the site situation requires a pipe length exceeding 3 metres, then discharge the overflow/drain into a tundish.

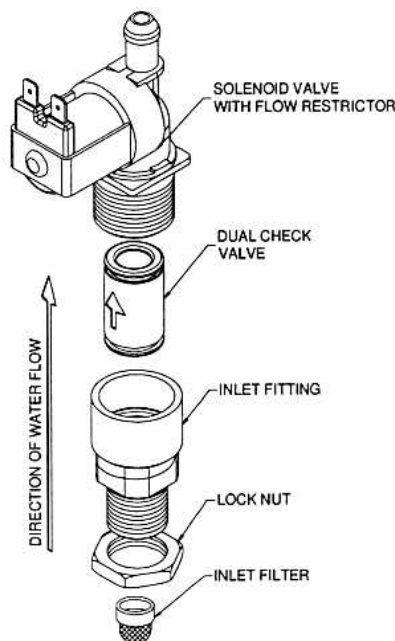


FIGURE 1
INLET ASSEMBLY

The drain pipe work must not exert a pressure of more than 1 metre of head on the Lazer boiling unit (refer to figure 2). During the normal operation of the Lazer, the overflow/vent connection may discharge small quantities of steam and condensate, so it is **ESSENTIAL** that the drain pipe is attached to the overflow vent connection. This drain pipe must discharge to waste at a point where no scald injury, nuisance nor inconvenience is caused to people in the immediate vicinity.

WARNINGS:

Ensure the overflow/vent line remains open because the Lazer's tank is not designed to be pressurised. Where freezing may occur, protect the pipes and install an air break. It is recommended to install an air break in the overflow/vent drain line, no more than 300 mm from the Lazer unit.

Also it is important to connect the overflow/vent and water inlet correctly. Incorrect connection of pipe work may damage the unit.

G. DRAIN CONNECTION

There is a drain screw located on the underside of the unit (refer to figure 3) to completely drain the tank for servicing.

WARNING:

Before removing the drain screw, ensure the appliance has been switched off, and water is not hot enough to scald.

IMPORTANT

Installation and maintenance of the Lazer Boiling Water unit shall be carried out by a qualified service person.

Your closest Rheem Service Centre can be contacted by telephoning 0800 657 335

H. TAP OUTLET

a. CLASSIC SERIES

To prevent damage during transport the tap is wrapped and placed inside the carton.

The tap is connected to the tap extension by a chrome-plated nut and tightened using a 29 mm AF spanner.

b. CONCEALED SERIES

The outlet fitting ($\frac{1}{2}$ " BSP male) for the remote tap connection is located on the underside of the Lazer Boiling unit. The remote tap should be located no further than 1.5 metres from the unit and preferably as close as possible. With any remote tap installation the user may have to run off approximately 80 ml (half cup) of water before boiling water is available.

c. DESIGNER SERIES

The "Rocker Type" tap assembly is ready to be used immediately when the unit is installed.

I. ELECTRICAL REQUIREMENTS:

- 220 –240 Volts AC, 50 Hz, Single Phase
- 10 Amps on 2.5, 5, 7.5 & 15 litre models
- 15 Amps on 25 litre model
- 20 Amps on 40 litre model

The 25 and 40 litre models must be installed with fixed wiring. A means of disconnection from all active (phase) conductors of the power supply must be incorporated during installation in accordance with the wiring rules.

A flexible cord complete with a plug is supplied on all 2.5, 5.0, 7.5 and 15 Litre models. Do not loosen the cord grip or pull excess cord into the Lazer. If the supply cord of this unit is damaged, it must be replaced by the manufacturer or a qualified service person.

4. OPERATION

When the installation is complete, first turn on the water supply before switching on the power. The unit will automatically fill and the heating sequence will commence.

The water is heated in small quantities, so boiling water is available at all times.

The electronic control unit constantly controls the water level and water temperature.

The unit can be permanently switched on because heat loss is kept to a minimum due to the quality of the insulation.

Operation based on an inlet water temperature of 18°C

Lazer Size	Approx. Time for 1 st cup (in minutes)	Approx. Time to heat full Capacity (in minutes)
2.5 L	6	9
5.0 L	6	17
7.5 L	6	25
15 L	9	40
25 L	9	40
40 L	10.5	46

SPECIFICATIONS

	2.5 Litre	5 Litre	7.5 Litre	15 Litre	25 Litre	40 Litre
Classic Series						
Approx Weight (kg) Empty	8	9	10	15	17	19
Approx Weight (kg) Full	13	16	20	34	47	67
Designer Series						
Approx Weight (kg) Empty	6	7	8			
Approx Weight (kg) Full	11	14	18			
Classic & Designer Series						
Minimum Water Pressure kPa	50	50	50	75	75	100
Maximum Water Pressure kPa	1000	1000	1000	1000	1000	1000
Element Size kW	2.4	2.4	2.4	2.4	3.6	4.6

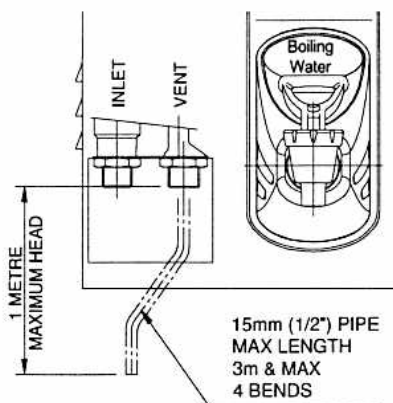


FIGURE 2

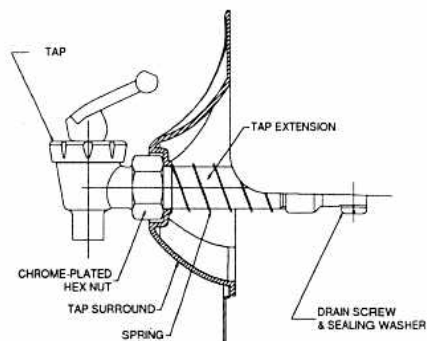
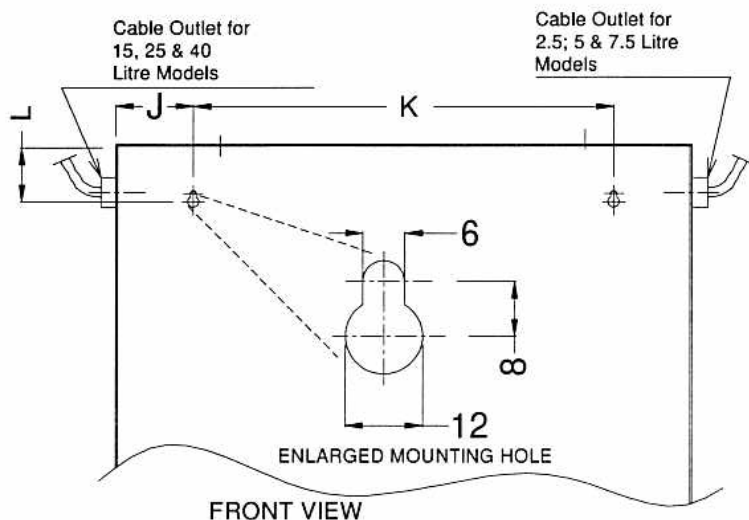


FIGURE 3
TAP & DRAIN ASSEMBLY
CLASSIC 2.5, 5, 7.5

MOUNTING DIMENSION SPECIFICATION

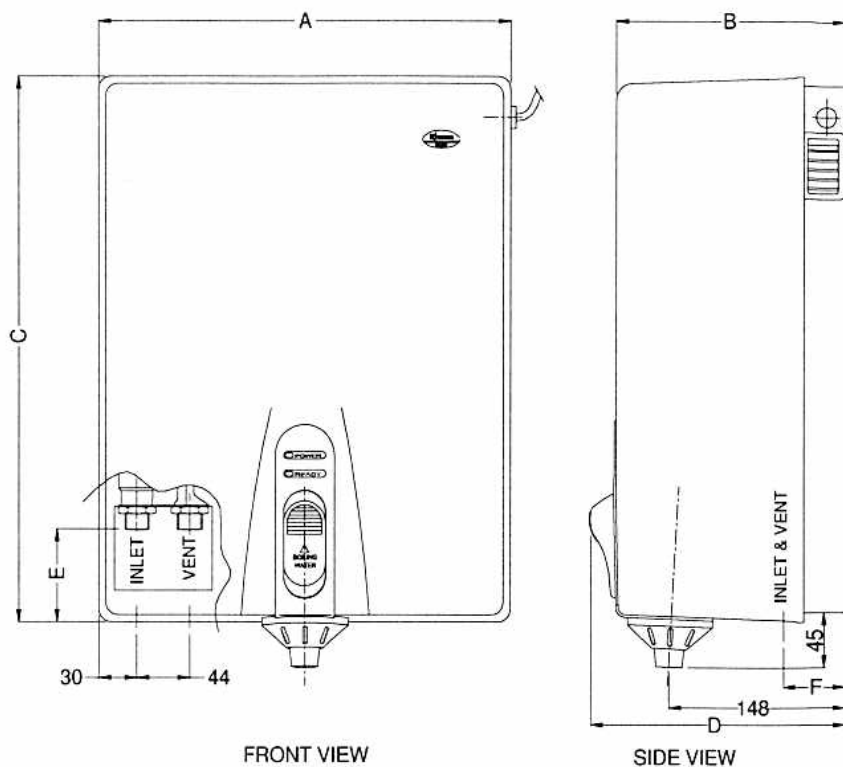
All models



	<i>DESIGNER MODELS</i>			<i>CLASSIC & CONCEALED MODELS</i>					
Dimension	2.5 Litre	5 Litre	7.5 Litre	2.5 Litre	5 Litre	7.5 Litre	15 Litre	25 Litre	40 Litre
J mm	52	52	52	46	46	46	75	75	75
K mm	241	241	241	241	241	241	340	340	340
L mm	40	40	40	31	31	31	20	20	20

DIMENSION SPECIFICATION

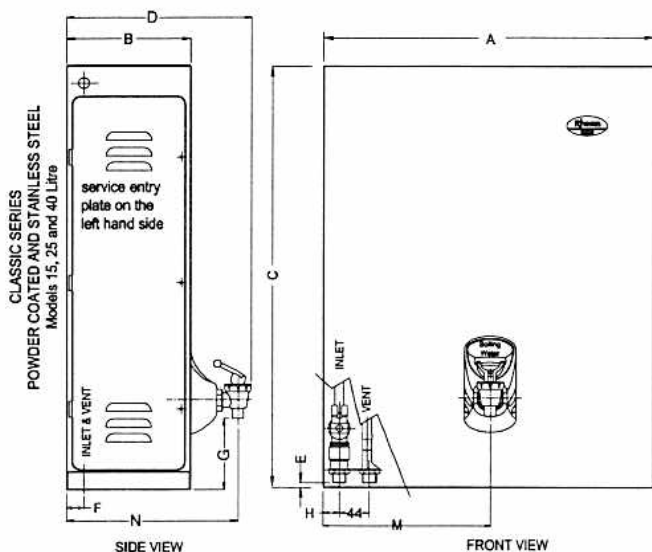
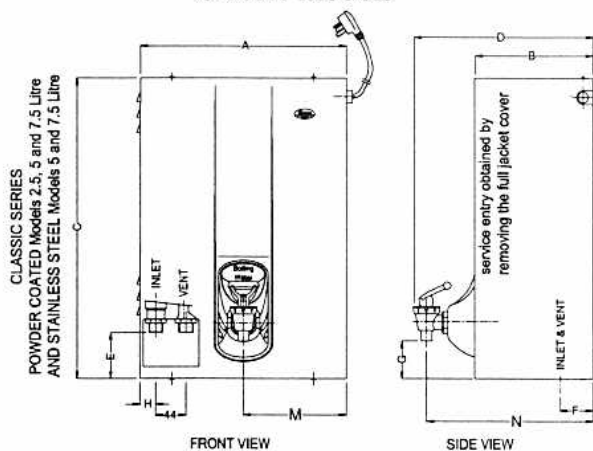
Designer models



Dimension	2.5 Litre	5.0 Litre	7.5 Litre
A mm	345	345	345
B mm	192	192	192
C mm	440	525	625
D mm	215	215	215
E mm	75	75	75
F mm	50	50	50

DIMENSION SPECIFICATION

Classic models

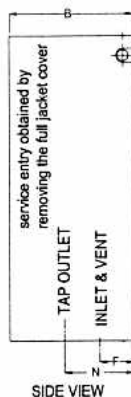
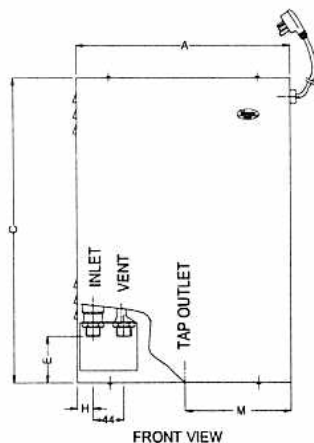


Dimension	2.5 Litre	5 Litre	7.5 Litre	15 Litre	25 Litre	40 Litre
A mm	335	335	335	490	490	490
B mm	180	180	180	180	235	325
C mm	430	515	615	615	615	615
D mm	278	278	278	280	335	425
E mm	64	64	64	8	8	8
F mm	50	50	50	32	32	32
G mm	55	55	55	103	103	103
H mm	23	23	23	32	32	32
N mm	167	167	167	245	245	245
M mm	256	256	256	258	313	403

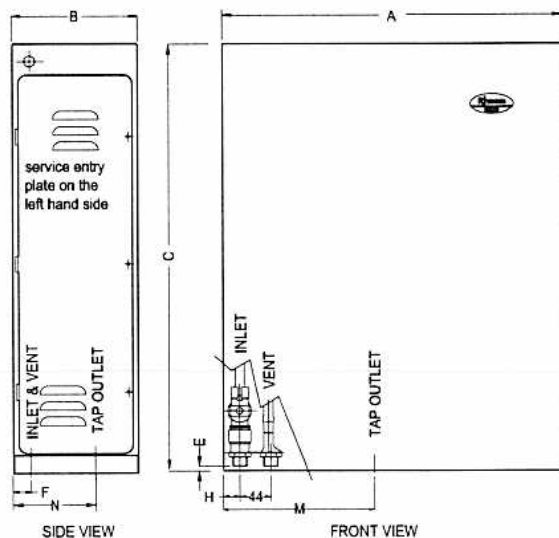
DIMENSION SPECIFICATION

Concealed models

CLASSIC SERIES
CONCEALED Models 5 and 7.5 Litre



CLASSIC SERIES
CONCEALED Models 15, 25 and 40 Litre



Dimension	5 Litre	7.5 Litre	15 Litre	25 Litre	40 Litre
A mm	335	335	490	490	490
B mm	180	180	180	235	325
C mm	515	615	615	615	615
E mm	64	64	8	8	8
F mm	50	50	32	32	32
H mm	23	23	32	32	32
N mm	118	118	118	174	264
M mm	162	162	146	146	146

5. TEMPERATURE ADJUSTMENT

IMPORTANT

Temperature adjustment shall be carried out by a qualified service person.

The Potentiometer is located at the right rear of the control box. Access is provided by means of 10 mm diameter hole (refer to figure 4).

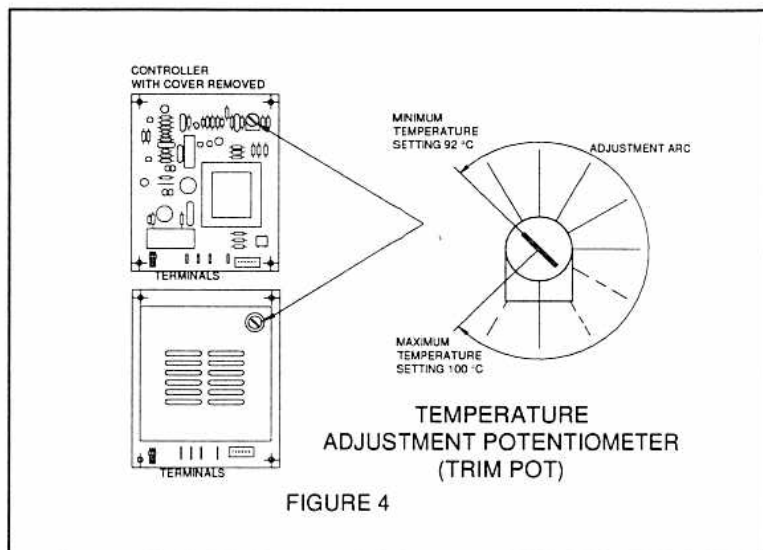
All Electronic Controllers are factory set to deliver water at a temperature of approximately 97°C.

When is Temperature Adjustment necessary?

1. When you replace the Electronic Controller,
2. When you change the Thermistor or an Element and Thermistor,
3. For different altitudes.

How to adjust the Temperature Setting of the Electronic Controller?

1. Drain water to the LOW LEVEL (discharge from the tap).
2. Rotate the Adjustment Potentiometer ANTICLOCKWISE to its MINIMUM SETTING.
3. Switch the unit ON, and allow it to operate automatically for five minutes.
4. Using a 3 mm wide screw driver, rotate the Adjustment Potentiometer CLOCKWISE to its MAXIMUM SETTING. The unit will now boil continuously.
5. Rotate the Adjustment Potentiometer ANTICLOCKWISE, SLOWLY, until such time as the SOLENOID VALVE opens, allowing water to flow into the tank.
6. Rotate the Adjustment Potentiometer ANTICLOCKWISE approximately "2.5 HOURS" (nearly ¼ turn).



LAZER BOILING WATER UNIT: FAULT FINDING GUIDE

****It is strongly recommended that REMEDY shall be carried out by a qualified service person****

SYMPTOMS	POSSIBLE CAUSE	REMEDY
1. The unit does not fill with water	There is no power supply	Check the electrical supply.
	There is no water supply	Check the water supply.
	The filter is blocked	Check the filter, clean or replace.
	Electronic Controller failure	Test the electronic controller.
	Solenoid Valve failure	Check resistance of the solenoid, replace if broken.
2. The unit fills water to low level and does not heat	Thermal cut-out has tripped	Reset the thermal cut-out.
	Heating element failure	If the heating element is properly wired, then check its resistance. Replace if broken.
	Electronic Controller failure	Test the electronic controller.
	Thermistor failure	Replace the thermistor.
3. The unit boils continuously	Temperature potentiometer is not set correctly	Set the Temperature Adjustment Potentiometer.
	Electronic Controller failure	Test the electronic controller.
	Thermistor failure	Replace the thermistor.
4. The unit overflows	Incoming water pressure is too high	Reduce incoming water pressure.
	Solenoid valve failure	Disassemble the solenoid valve and blow air through it. If air flows through, replace the solenoid valve.
	Level probe failure	Clean the level probe Replace the level probe
5. There is no water from the tap	The unit did not fill with enough water	See 1. & 2. above.
	The tap diaphragm is disconnected from its spindle	Drain water out of the unit (see paragraph 6 on page 4). When unit is empty, disassemble and repair the tap.

WARRANTY

In addition to your legal rights, Rheem New Zealand Limited makes the following promise to the owner. We will repair or, if necessary, replace a defective boiling water unit or part of it, which has failed due to faulty manufacture on the following terms and conditions:

WARRANTY PERIOD

AGE OF BOILING WATER UNIT FROM THE DATE OF INSTALLATION	WARRANTY COVERS ALL BOILING WATER UNITS DOMESTIC, COMMERCIAL OR INDUSTRIAL
Up to (1) year	Free replacement of failed component, or if necessary, replacement of the Boiling Water Unit, free of charge, including labour.**
More than (1) year but less than (5) years	Where an inner tank fails it will be supplied free of charge, installation and labour cost will be charged to the owner.

** Refer to item 3, Warranty Conditions.

Should your boiling water unit need service under warranty, please call RHEEM SERVICE on 0800 657 335 or refer to the yellow pages under Water Heaters for your nearest local service agent.

WARRANTY CONDITIONS:

1. The Boiling Water Unit must be installed in accordance with the installation instructions, supplied with the Boiling Water Unit, the NZ Building Code, NZ Electrical Regulations and all relevant statutory requirements of the area in which the Boiling Water Unit is to be installed.
2. Where a failed component or Boiling Water Unit is replaced under Warranty, the balance of the original Warranty Period will remain effective. The replaced part or Boiling Water Unit does not carry a new Warranty.
3. Where the Boiling Water Unit is installed outside the boundaries of a metropolitan area as defined by Rheem New Zealand Ltd, or beyond 25 km from a regional Rheem branch office, or a Rheem Authorised Service Centre, the cost of transport, insurance and travelling costs between the nearest Rheem Authorised Service Centre's premises and the installed site will be for the account of the owner.
4. The Warranty only applies to the Boiling Water Unit and therefore does not cover any plumbing or electrical parts supplied by the installer and not an integral part of the Boiling Water Unit, e.g. pressure limiting valve, stop cock, electrical switches, pumps or fuses.

WARRANTY INFORMATION

WARRANTY EXCLUSIONS:

REPAIR AND REPLACEMENT WORK WILL BE CARRIED OUT AS PER THE RHEEM WARRANTY (ABOVE), BUT THE FOLLOWING EXCLUSIONS MAY CAUSE THE BOILING WATER UNIT WARRANTY TO BECOME VOID, AND MAY INCUR A CHARGE FOR SERVICE AND COST OF REPLACED PARTS.

1. Accidental damage; Acts of God; failure due to misuse; incorrect installation, attempts to repair other than by a Rheem Authorised Service Agent, Technician of an Electricity Utility or the Rheem Service Department.
2. Where it is found that there is nothing wrong with the boiling water unit; where the complaint is related to low or high water pressure; where there is no flow of hot water due to faulty plumbing or a blocked filter; where water leaks are related to plumbing work and not boiling water unit or its components, where there is a failure of electricity or water supplies.
3. Where the boiling water unit or its component has failed directly or indirectly as a result of high water pressure.
4. Where the boiling water unit is located in a position that does not comply with the Rheem installation instructions or relevant statutory requirements causing the need for major dismantling or removal of cupboards.
5. Subject to any statutory provisions to the contrary claims for damage to furniture, carpets, walls, foundations, or any other consequential loss either directly or indirectly due to leakage from a boiling water unit.
6. Repairs to the boiling water unit due to scale formation in the waterways when the heater has been connected to a harmful water supply.

Contact details:

RHEEM SERVICE DEPARTMENT
475, Rosebank Road, Avondale, Auckland
Phone: 0800 657 335; Fax: 0800 657 337

Or consult the Yellow Pages under "Plumbers" for your nearest Rheem Authorised Service Centre.