

Rheem Lazer[®]

Instant Boiling Water System

Features and Benefits

Electronic Control ensures Precise Temperature Control

An electronic control board controls the operation of the boiling water system. This provides automatic temperature calibration and precise temperature control and ensures temperature is within 3°C of boiling point.

7 Day Timer means Reduced Running Costs

The built-in programmable timer with a separate on and off time for each day meets the energy efficiency requirements of Specification J6 of the Building Code of Australia (BCA). This reduces running costs by enabling the unit to be turned off when the system is not in use. (See Notes)

Sleep Mode saves Energy

The Sleep Mode, when activated, will turn the system off when no use has occurred for a specified time (either 1, 2, 3, 4, 5 or 6 hours). This reduces running costs when the system is not in use. (See Notes)

Timer Display notifies when Filter Replacement is due

Should an optional water filter be installed, the timer can display when the filter is due for renewal. Depending upon water quality, the volume of water consumed prior to activation of the filter replacement display can be as low as 1,000 litres and is adjustable up to 14,000 litres in increments of 1,000 litres.

Element protection means Increased Safety

A low level probe within the boiling water allows the element to operate only if the water level is covering the element. This protects the element, ensuring the element can never turn on without the water covering the element, preventing dry fire.

Display Lock Mode prevents Tampering

This mode locks the display and stops users from accessing the timer program. Where required, this prevents tampering with programmed settings.

Diagnostics reduce Service Time and Costs

In the unlikely event of a fault in the system, the fault is shown in the timer display. This assists the service person to determine the nature of the fault.

Automatic Calibration ensures correct Boiling Temperature

At first start up, the Lazer determines the boiling point and automatically calibrates an offset below this.

The boiling point of water is 100°C at sea level and reduces in temperature depending on the altitude above sea level.

For example:

- 300 - 600 metres - 97°C (Canberra, Mt Isa, Kalgoorlie)
- 600 - 1200 metres - 96°C (Bathurst, Bowral, Toowoomba)
- 1200 metres and over - 95°C (Snowy Mountains)



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Temperature Override reduces Commissioning Time

To decrease the time taken to commission the heater, the temperature override function is able to bypass automatic altitude calibration and enable the installer to set the most suitable temperature (between 70°C and 99°C in one degree increments).

Notes:

Rheem Lazer meets the Building Code of Australia (BCA) Requirements

To reduce energy consumption, the BCA requires all boiling and chilled water systems to:

- have a timer which allows the user to program on and off times for each day of the week
- have a manual override and an automatic reset after 2 hours

The Rheem Lazer has a timer and a sleep mode which completely powers down the boiling water unit in compliance with BCA requirements. The BCA applies to all new installations and renovations requiring Council Approval.

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Installation

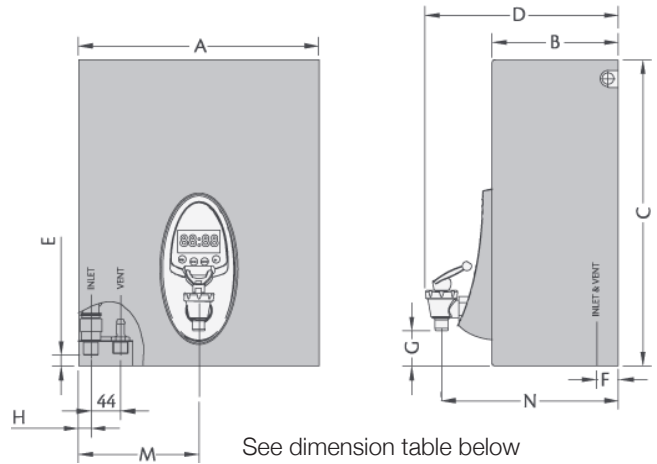
This boiling water unit must be installed in accordance with the Installation Instructions supplied with the unit and with all local codes and regulatory authority requirements.

Electrical

The installation must comply with AS/NZS 3000, the Australian/New Zealand Wiring Rules. A 220-240 V AC power supply is required. All models with the exception of the 25L and 40L models require a 10 A GPO. The 25L and 40L models must be hard wired by a licensed electrician.

Plumbing

The installation must be carried out by a licensed plumber and must comply with AS/NZS 3500.4, Plumbing and Drainage – Heated Water Services. The unit can be connected directly to a drinking water supply with pressure in accordance with the table below.



Sample Specification

The Boiling Water Unit(s) shall be Rheem Lazer model No. (insert model no.) with an initial draw off of (insert number of cups). The heating element(s) rating shall be (insert kW) operating on 220 - 240 Volt, 50Hz single phase electricity supply. The outer jacket shall be (insert stainless steel/ white powder coat). The unit operation shall be fully electronic, incorporating water level sensors, solenoid valve, heating unit and temperature sensor. All operational functions shall be controlled by an electronic control box incorporating an over-temperature function to prevent the unit boiling dry. The unit shall incorporate a programmable 7 day timer and sleep mode. The unit shall automatically calibrate the boiling point of water.

| White Powder Coat | | 710 003 | 710 005 | 710 007 | 710 010 | 710 015 | 710 025 | 710 040 |
|---------------------------------|--|---------|---------|---------|---------|---------|---------------------------|---------|
| Stainless Steel | | | | 720 007 | 720 010 | 720 015 | 720 025 | 720 040 |
| Capacity | litres | 3 | 5 | 7.5 | 10 | 15 | 25 | 40 |
| Delivery - Initial ¹ | litres | 3.5 | 5.5 | 8.5 | 11 | 17 | 27 | 42 |
| | cups | 20 | 35 | 50 | 65 | 100 | 159 | 247 |
| Recovery ¹ | litres/hour | 17.5 | 21 | 21 | 21 | 21 | 33 | 41 |
| | cups/hour | 103 | 123 | 123 | 123 | 123 | 194 | 241 |
| Approximate Weight Empty | kg | 6 | 8 | 9 | 10 | 15 | 17 | 19 |
| Approximate Weight Full | kg | 10 | 15 | 19 | 22 | 34 | 47 | 67 |
| Minimum Water Supply Pressure | kPa | 50 | 50 | 50 | 50 | 75 | 75 | 100 |
| Maximum Water Supply Pressure | kPa | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Input | kW | 1.8 | 2.4 | 2.4 | 2.4 | 2.4 | 3.6 | 4.6 |
| Electrical Connection | Supplied with 10 Amp 3 Pin Plug and Flex | | | | | | Hard Wired by Electrician | |
| Plumbing Connections | 1/2" BPSM | | | | | | | |

| Dimensions | | | | | | | | |
|--------------------------------------|----|-----|-----|-----|-----|-----|-----|-----|
| A: width of unit | mm | 283 | 334 | 334 | 334 | 490 | 490 | 490 |
| B: depth of unit excluding tap | mm | 143 | 176 | 176 | 176 | 180 | 235 | 325 |
| C: height of unit | mm | 400 | 430 | 515 | 615 | 615 | 615 | 615 |
| D: depth of unit including tap | mm | 234 | 267 | 267 | 267 | 271 | 326 | 416 |
| E: bottom of inlet to bottom of unit | mm | 15 | 15 | 15 | 15 | 8 | 8 | 8 |
| F: width of inlet & width of vent | mm | 50 | 50 | 50 | 50 | 32 | 32 | 32 |
| G: bottom of tap to bottom of unit | mm | 53 | 53 | 53 | 53 | 103 | 103 | 103 |
| H: edge of unit to middle of vent | mm | 18 | 18 | 18 | 18 | 32 | 32 | 32 |
| N: depth of unit to middle of tap | mm | 212 | 245 | 245 | 245 | 249 | 304 | 394 |
| M: width of unit to middle of tap | mm | 142 | 167 | 167 | 167 | 245 | 245 | 245 |

1. Cup size = 170ml. Materials and specifications are subject to change without notice due to ongoing product improvements. Rheem is a registered Trade Mark of Rheem Australia Pty Ltd.



Quality Endorsed Company
ISO 9001
Lic. QEC 14766
SAI Global



WaterMark
AS3498
Lic. WMKA0177
SAI Global

Warranty

1 Year

Parts & Labour

* Conditions apply.
For full warranty, please contact Rheem or see Installation Manual.

