



LAZER[®] OFFICE LAZER[®] COMMERCIAL

July 2015

TECHNICAL DATA SHEET

Controller Features

Clock – Sets the 24 hour clock time.

Timer STD/Auto – Places the timer in standard (on 24/7) or Auto (on and off based on programmed times) modes.

Set On/Off time – Allows the user to change the default timer settings.

Sleep delay time – Allows the user to programme when the Sleep mode activates.

Filter life – Allows the user to check remaining filter life, reset the filter life counter and adjust the length of the filter life counter (filter not included).

Service Menu – Contains fields relevant to service personnel and customer.

Key Pad lock – Disables keypad function.

Keypad Functions

- P – Select the program menu.
- ✓ – Pressing this button acknowledges and accepts the display on the screen.
- ✕ – Cancels the request and returns user to the display screen.
- ▲ – Allows the user to scroll through the menu or alter the values of settings.

Timer

The timer has two modes STD (standard) and Auto (automatic), which allows the user to programme when the unit should be On or Off. In STD mode (factory setting), the unit operates 24/7. If Auto mode is activated, the unit will operate from 7.00am and to 5.30pm Monday to Friday, and is set to be Off Saturday and Sunday.

Changing the Auto times is simple and intuitive and instructions are included in the owners guide. Pressing any of the interface buttons will manually override 'Auto mode' (the screen prompts the user to press a button to activate when in the Off mode). The unit will automatically de-activate at the next programmed time out.

Sleep mode

When the timer is set to Auto mode the unit recognises when the unit has not been used for the preset sleep time and switches off the element to conserve energy. These features can reduce the energy use by up to 40%¹ over a normal working week.

The sleep mode activation settings are Off, 1, 2, 3, 4, 5, 6 hours. The unit is factory set to the Off setting.

Automatic Boiling Point Calibration

All models have an auto boiling point calibration function.

The boiling point of water is 100°C at sea level and reduces as follows:

- 300 - 600 metres 97°C
- 600 - 1200 metres 96°C
- 1200 metres and over 95°C

Once calibrated, the Lazer prevents overshooting the temperature by reducing the power to the element when approaching the set point.

Filter Change

The Office and Commercial model Lazers can advise when a filter (not supplied with unit) requires replacement. The amount in litres that a filter can deliver can be programmed into the Lazer memory.

The Lazer will count the litres drawn off and the display will advise the user that the filter is due for replacement at the pre-determined volume.



Commercial

Office



Plumbing Connections

Two plumbing connections are required:

- 1/2" cold water supply
- 1/2" vent

The Lazer inlet cannot be connected to a hot water supply.

Electrical Connections

The 3L to 15L models are supplied with a 10 amp plug and lead. The 25L and 40L units must be hard wired by an electrician (see table for kilowatt ratings).

Internal Tank

The internal tank is made of copper and is fully sealed, with venting through an overflow pipe located under the jacket skirt. A single tank design is utilised which reduces the surface area to volume ratio, thereby reducing heat loss (competitors use twin chambers).

Electronic Control

Electronic Control provides the logic to monitor and coordinate the functions of the boiling water unit, from its staged filling process, to heating, to maintaining fine temperature control of the water and all timer and service functions.

Heating Element and Thermistor

The heating element and thermistor maintain water at near boiling. Small changes in temperature cause the heating element to energize to the required power, thereby always providing boiling water when it is needed.

Water Level Probe

A stainless steel probe monitors water levels to ensure the heating unit cannot operate unless it is covered by water, and high water level to ensure the maximum water level is not exceeded.

Electronic Control Solenoid Valve

The solenoid valve controls the flow of water into the unit. Activation depends on the level and temperature of water in the unit.

Insulation

Insulation is of rigid moulded polystyrene foam.

Tap Design

Tap Design has been developed for all models.

The changes are significant to allow a unique flush finish fascia for the Office model. A lift or push lever dispenses water from a spout located at the bottom of the casing. On the Commercial model, the high flow tap offers up to 35%¹ faster filling.

Servicing

The Lazer only has two moving parts, the tap and solenoid valve, increasing reliability. In the Service Menu (All Models), service technicians can access fault codes which help diagnose where a problem may be.

Warranty²

2 years on parts and labour
Office – 5 years on tank
Commercial – 5 years on tank

Lazer Boiling Water Unit		Lazer Office		Lazer Commercial				
White		70103W-NZ	70105W-NZ	70207W-NZ	70210W-NZ	70215W-NZ	70225W-NZ	70240W-NZ
Stainless Steel		70103S-NZ	70105S-NZ	70207S-NZ	70210S-NZ	70215S-NZ	70225S-NZ	70240S-NZ
Capacity	Litres	3	5	7.5	10	15	25	40
Delivery - Initial	Litres	3.5	6	8.5	11	17	27	42
	Cups ³	20	35	50	60	90	150	250
Recovery ⁴	L/hr	17.5	21	21	21	21	33	41
Mins to full Heat ⁴	Mins	12	15	22	29	40	40	50
Weight Empty	kg	6	8	9	10	15	17	19
Weight Full	kg	10	15	19	22	34	47	67
Electrical Rating 240V 50Hz	kW	1.8	2.4	2.4	2.4	2.4	3.6	4.6
	Amps	7.5	7.5	10	10	10	15	20
Dimensions	mm							
Height		435	465	515	615	515	720	615
Width		283	334	334	334	334	334	490
Depth ⁵		206	239	191	191	299	299	340

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1. Potential energy consumption savings values are approximate and provided for general reference purposes only. Actual heat loss reductions will vary depending on the system installed, regional temperatures, geographical location and other factors. 2. Conditions apply. For full warranty and details please contact Rheem or see Installation manual. 3. Cup size is 170mL. 4. Recovery based on a 77° rise.

5. Not including tap.

All specifications contained in this data sheet are subject to change without notice. Please check the specifications are current at the time of ordering the appliance.

