



1500

Automatic-Fill Water Boiler

**USER INSTRUCTION
MANUAL**

1.0 - INTRODUCTION

Your new Water Boiler is designed to give years of trouble-free service provided that the instructions contained in this manual are followed.

All new series Instanta products are energy efficient, simple to operate and easy to service.

2.0 - WARNINGS & PRECAUTIONS

Please read the following carefully before starting work on this equipment.

A competent installation engineer should install this appliance in accordance with the installation instructions for this appliance and all relevant local and national standards including the following:

- . Health and Safety at Works Act
- . IEE regulations
- . Local and national building regulations
- . BS Codes of practice
- . Water supply regulations

All personnel must be provided with sufficient and appropriate training in the safe use of this appliance.

In line with Health and Safety requirements we recommend that a risk assessment be carried out after the boiler has been installed.

A warning notice displayed next to the machine is often helpful in notifying users that the appliance contains and dispenses near boiling water.

During normal use of the boiler, certain surfaces will become hot (especially the draw off tap(s)). Care should be taken to avoid potential injury from burns and scalding whilst operating this appliance.

Scale formation within the hot water appliances can be problematic in hard water areas. Damage to the appliance caused by excessive scale build up may invalidate the warranty. See notes on de-scaling.

Drawings, parts lists, circuit/wiring diagrams are the sole property of Instanta Limited and must not be reproduced with consent.

3.0 - CHECK LIST

Before starting installation check that you have the following parts:

1. Drip Tray
2. Drip tray drain-kit
3. Food-quality flexible hose (3/4"bsp)
4. Instruction booklet

4.0 - INSTALLATION

a) WATER CONNECTION

Connect the WRAS approved hose (supplied) to the back of the boiler and the other end to the mains water supply, via an accessible isolating tap with a $\frac{3}{4}$ " BSP thread.

The hose supplied with the machine is manufactured from materials which have been approved for drinking water. Do not use washing machine hoses (usually red, black or blue) as they are not suitable for drinking water and will cause a bad taste.

The water supply must have a pressure not exceeding 7 bar (96psi), and no lower than 2 bar (28psi).

- If your water pressure exceeds 7-bar, fit a suitable pressure reduction valve.

INSTANTA CANNOT BE HELD RESPONSIBLE FOR ANY MACHINE MALFUNCTION IF THE WATER PRESSURE EXCEEDS THAT STATED. IF IN DOUBT, CONSULT YOUR WATER SUPPLY COMPANY.

Water purification filters are available to ensure fresh water. Also, scale reduction filters are available for hard water areas. Fitting a scale reducer will help minimise scale but will not eliminate scale completely. Please contact Instanta Spares Department 01704 502905) for details.

b) OVERFLOW

The drip tray has a limited capacity and is designed to handle small spillages and drips. Wherever possible, we strongly recommend that it is connected to a permanent waste outlet using the fitting kit provided.

If preferred, and as an alternative, the overflow can be connected from the back of the machine using an optional rear-overflow kit (Pt No: ROFK1, available from Instanta Spares Department 01704 502905).

IMPORTANT: Whichever overflow connection is chosen, the diameter of the pipe used must be no less than 15mm.

Whilst reasonable precaution is taken to prevent an overflow, Instanta cannot be held responsible for any damage caused as a result of incorrect installation or blockage of the overflow or failure to direct the overflow to a safe outlet.

c) ELECTRICAL CONNECTION

Your machine is supplied with a standard 3-pin bonded plug and lead with 13amp fuse.

5.0 - OPERATION

SWITCHING BOILER ON FOR THE FIRST TIME:

After the electrical and water connections have been made, the boiler is ready to be used.

- Switch on machine - **AMBER LIGHT** will illuminate to indicate that the boiler is filling with water.
- Once primed with water, the **RED LIGHT** will illuminate to show that it is heating.
- When the boiler reaches the correct temperature the **GREEN LIGHT** will show that the boiler is ready. (on initial prime, wait 10 minutes before drawing water)

6.0 - IN DAILY USE:

- Switch boiler on.
- Wait for the **GREEN LIGHT**. The water will then be at the correct temperature.
- Dispense water via the lever tap(s) on the front of the boiler (CAUTION: Take care as boiler dispenses near-boiling water).

7.0 - CLEANING

Clean the external surfaces of the boiler with a damp cloth to maintain hygiene. Do not use abrasive material on the outer surface of the machine. Wipe the draw-off tap daily to remove any lime-scale deposits and check that the outlet is clear.

TO CLEAN THE PROBES:

- *Disconnect machine from the power supply.*
- *Lift off outer-lid. After removing the lid the tank is accessible.*
- *Remove the tank lid by taking out the fixing screws.*
- *Lift out the baffle plates on the inside of the tank (note the position of these plates so that you can replace them correctly).*
- *Wipe clean the level sensing probes using a non-metallic scourer. It is important to ensure that you also clean the white insulators.*
- *Reassemble and switch the boiler back on.*

8.0 - MAINTENANCE

The boiler should be periodically checked for scale build-up. The frequency depends upon hardness of the water and whether or not an effective scale reducer is fitted.

Draw-Off Tap: The draw-off tap components are subject to wear & tear. We strongly recommend that the tap is inspected periodically (at least once a year as part of a general maintenance routine). It is advisable to keep a spare tap spring and washer in case of emergencies.

Spare parts and accessories are available from Instanta Limited – Tel: 01704 502905

DE-SCALING:

- *Disconnect machine from the power supply,*
- *Empty the machine through the draw off tap and allow too cool down.*
- *Lift off the outer-lid. After removing the lid the tank is accessible.*
- *Remove the tank lid by taking out the four fixing screws.*
- *Lift out the baffle plates on the inside of the tank.*
- *Remove as much scale as possible by hand. Any scale which is difficult to remove can be dissolved by using a solution of de-scaler.*
- *Wipe clean the level sensing probes.*
- *Ensure all traces of de-scaler are removed before using the boiler again.*

9.0 - SERVICE WARNINGS AND FAULT DIAGNOSIS

Your boiler is fitted with an intelligent fault diagnosing system and is able to detect the fault conditions below:

- | | | | |
|---|----------------------|---|--|
| 1 | Flashing Green | - | The bottom probe is scaled up |
| 2 | Flashing Orange | - | The water supply is off |
| 3 | Flashing Red | - | An internal component has failed. Contact Instanta Service Department – 01704 502911 |
| 4 | Flashing Red & Green | - | As 3 above |

10.0 – FAULT FINDING

The majority of possible faults have been covered previously. However, in certain circumstances, safety controls within the boiler may be activated.

There are two safety over-heat cut-outs in your boiler.

1). Over-boil safety cut-out – this will be activated should the boiler produce excess steam.

This can be due to;

- lime-scale within the tank,
- a temporary interruption in the water supply.
- a faulty temperature sensor.

To reset boiler, switch off at the mains power supply and allow the boiler to cool for ten minutes before switching back on.

2). Boil-dry safety cut-out. This operates if the boiler has been boiled dry, for example, due to lime scale build-up or water starvation.

To reset boiler, Isolate from mains power supply. Remove the back panel and push the small red reset button in the element cut-out.

In any of these events the indicator lamp will flash red or green or red and green. If the problem reoccurs contact the Instanta Service Department – 01704 502911

11.0 - GUARANTEE

Your boiler is guaranteed for twelve months from date of installation. In the event of a problem arising during the guarantee period please contact the Instanta Service Department quoting the Model type and Serial Number and the fault description. Failure to quote the serial number may result in delays

Our guarantee includes on site labour and parts for problems caused by fault of manufacture and component failure **with the following exclusions:**

- 1 Problems caused by hard water and lime scale. We regret that we cannot be held responsible for problems caused by hard water
- 2 Dripping Taps. These components are subject to wear and tear but in the event of a tap failing within twelve months of installation, we will be pleased to replace the tap assembly by post. Fitting is very simple and requires no tools. An engineer call out is not necessary.