

PowerSmart 3 ECO Boiler Operation Instructions



The PowerSmart 3 ECO Boiler can be used in two ways

1. **To save about £265 in electricity using the Factory Set ECO Light Setting.** This will shut the boiler down “once the office lights go out” to stop it from constantly re boiling when there is no use. Ensure the ECO On/Off switch on the back of the Boiler is in ON position.
2. If you do not want to use the PowerSmart 3 ECO Light Setting ensure that the ECO On/Off switch on the back of the Boiler is in OFF position.

Warnings & Precautions

A competent installation engineer should install this appliance in accordance with the Installation Instructions and all relevant local and national standards, including the following.

- * Health and Safety at Work Act
- * Water Supply Regulations
- * IEE Regulations
- * BS Codes of Practice

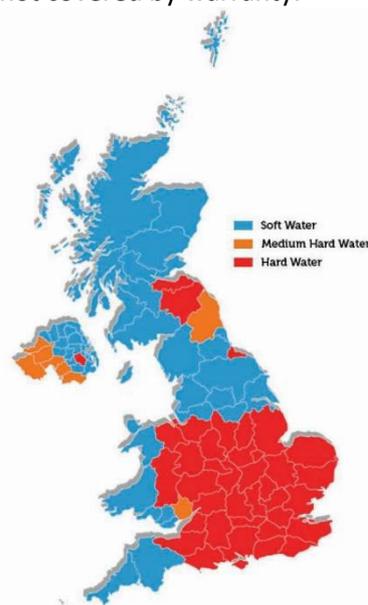
AA First cannot be held responsible for any malfunction of the Boiler if no Water Pressure Valve has been fitted on installation, set at 2-4 bar.

Scale related problems and wear and tear on the tap mechanism are not covered by warranty. AA First recommends using a scale prevention filter.

Scale!

Scale is the enemy of Hot Water Boilers. If you are in a Hard Water Area you MUST USE a Scale Prevention Filter to avoid scaling up, which can happen in a matter of weeks! Scale Prevention Filters are unfortunately expensive and must not be confused with cheaper Carbon Filters with Siliphos Beads. They do not prevent Scale! We recommend the C range Brita Filters, but there are others doing a similar job. If you find it necessary to descale the Boiler make sure that you clear the whole Tank (not just the Probes!) of Scale.

The map of the UK shows hardness of mains water across the country. If you are lucky enough to operate in a Soft Water Area, you only need a cheap Carbon Filter to remove the taste and smell of Chlorine.



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LED indicators on the rear of the Boiler

After the electrical and water connections have been made

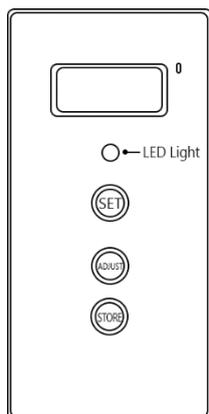
1. Press Power ON/OFF Button on the front of the Boiler. The LED Indicators at the rear will show
 - a) LED Amber Light indicates that the water level in tank still low
 - b) LED Red Light indicates water covers the low-level sensor in the tank and boiling starts
 - c) LED Green Light indicates temperature over 90C reached and ready for use
 - d) LED flashing. Fault with level sensor(s)

Water Level/Adding Water/Heating

1. Each time you switch the Boiler ON, the tank's sensors will detect the water level in the tank.
If above the low-level sensor, boiling will start.
2. When the water level drops from full, it will start filling in small batches, to avoid a significant drop in temperature.
3. When the tank temperature drops by 2C (as a result of re-filling) re filling stops until the tank temperature reached the factory setting of 93 – 95C.

Guide to Rear Panel and Button Functions

There are 4 Buttons



1. **SET:** Press once only to display existing temperature.
2. **ADJUST:** Press to make changes to program settings. **(ONLY BY TECHNICIAN)**
3. **STORE:** Press and hold for 3 seconds until beep, to store program settings **(if not pressed and held, after 15 seconds, setting will not be stored. (ONLY BY TECHNICIAN))**
4. **ECO SWITCH:** Switches ECO Light Sensor ON or OFF

PowerSmart3 Specifications

Hourly Capacity: 17 Litres/ 90C+

Rapid Draw Off: 5.7 Litres/ 90C+

Power Consumption (24hr): 1.85KW/h in stand-by mode

ECO Mode Saving: 1.38KWh saving around 30% electricity (when Boiler turned off for 8 hours)

Recovery time after ECO Mode Saving: It takes about 15 mins for the Boiler to reach 90C+ after the Boiler has been asleep overnight.

Dimensions: Width = 215mm Length = 345mm Height = 436mm

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Boiler Maintenance (only to be carried out by a technician)

Temperature Adjustment

1. Turn boiler OFF and remove mains plug from wall socket.
2. Plug in boiler and switch on at mains, press and hold **SET** button whilst switching ON boiler.
3. Screen will indicate P11 and present temperature.
4. Press **ADJUST** button to change temperature.
5. Press and hold **STORE** button for 3 seconds to store settings (Boiler will beep twice)

Screen Error Information

1. LLL: Heating sensor/wire failure or broken (Red/Open)
2. HHH: Short circuit heating sensor/wire (Red)
3. EOR: Failure of water level (check inlet and level probes)
4. OFL: Water level has reached safety probe (check level probes)

PLEASE NOTE: IF MAINS POWER TO BOILER IS SHUT OFF, THE BOILER WILL ONLY RE-START TO FUNCTION WHEN POWER BUTTON ON THE FRONT PANEL IS SWITCHED ON.

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