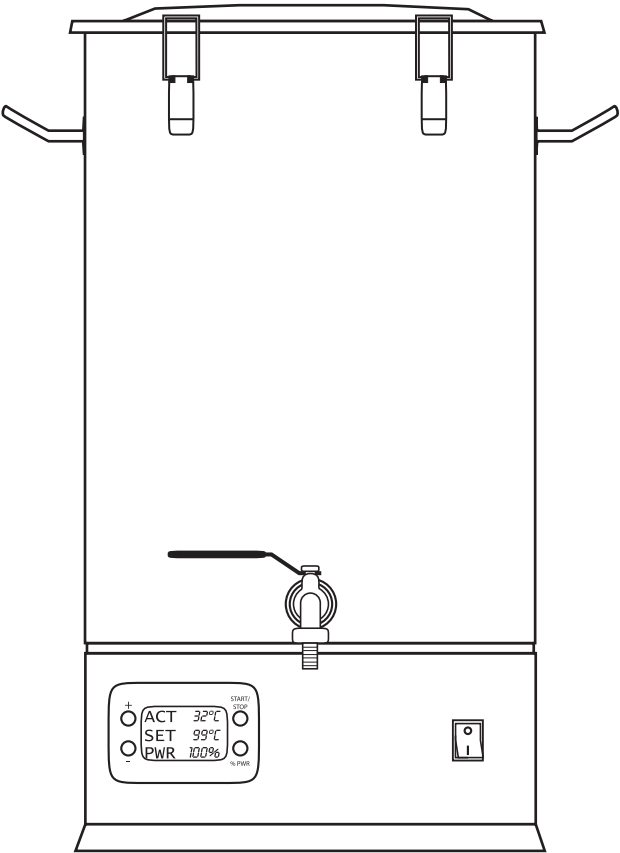


Multipurpose Boiler

for fermenting, mashing,
sparging and distilling



Model No. LB1003A

SAFETY

This appliance should only be used by a responsible adult. It should not be used by children or persons with reduced physical or mental capabilities. Children should be supervised if they go near the boiler.

Do not touch any metal parts during or after use as they will become very hot and there is a risk of burns due to the high heat.

Do not leave unattended or try to move during use.

Make sure the surface that the boiler is used on is flat and will take the weight of the boiler filled with liquid.

Do not overfill. The maximum capacity is 25 litres which is marked inside the boiler.

Do not attempt to disassemble (no user serviceable parts inside). Any repairs to the boiler must only be carried out by the manufacturer.

Do not use water under high pressure to clean the boiler.

Do not position the boiler with the tap overhanging a surface as the tap could be opened with a danger of serious scalding. Place the boiler in a position so that the tap overhangs a sink or other suitable area.

Always unplug the boiler when not in use.

Leave the heated contents to cool before emptying the boiler.

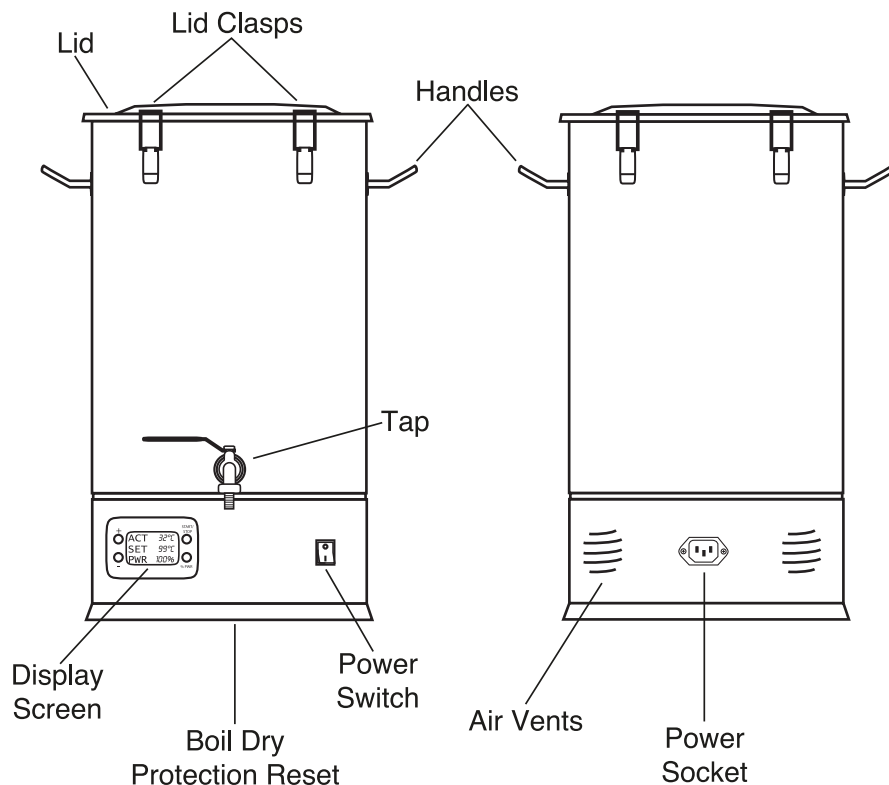
WARNING

Do not switch the boiler on before it has been filled. If the boiler is operated when it is 'dry' it could overheat and damage the internal components.

Never seal the lid's hole. The boiler must be able to release built-up pressure when it gets hot, as well as bring in outside air when it's contents cools. If the boiler is unable to 'breathe' it has potential to explode or implode.

When distilling, rest the output tube into a collection container (such as a demijohn). Never use a rubber bung on the end of the tube output. To protect from dust or outside contaminants, a muslin bag or clean tee towel can be placed around the top of the collection container.

THE BOILER



INCLUDED ITEMS

Insulation Jacket

The Insulation jacket should be “worn” at all times. It will help to maintain the temperature and will also protect the boiler from minor knocks and dents. It comes with a Velcro strip for ease of fitting.

Mains Power Plug

The included power lead is rated for 13Amp use. Do not use other power leads as they may not be rated so high, and could overheat.

Rubber Bung

This is not required for distilling if you are using a condenser (such as the Turbo 500) as it will fit into the hole in the lid. If using the boiler for fermentation, the bung should be used as it can accept a standard airlock.

MAIN FEATURES

Adjustable Temperature – Selectable between 4–100°C (in increments of 1°C) which makes this boiler perfect for many uses.

Controllable power – Fully adjustable from 1-100% power.

Settings Memory – The boiler remembers the last used temperature & power percentage.

Boil Dry Protection – The boiler will automatically cut out if it over heats or boils dry & will alert you by a long bleeping alarm.

The boil dry protection should only engage when the water level is too low.

Once engaged, let the boiler cool for a while before pressing the reset button underneath the boiler, then refill the boiler with water.

If the reset button trips again once it is pushed, it means that it is still too hot.

Safety Locking Tap – The boiler's tap has a slide locking system. This will mean that the tap can't be opened unless the slide is moved. This is a safety feature to make sure hot liquid can't accidentally escape if someone were to knock the tap. Please be aware this needs to slide up to be able to open or close the tap.

HOW IT WORKS

On the right side of the boiler is the ON/OFF switch. When this is in the **OFF** position, no power will go to the display. When changed to the **ON** position, the display will light up. The boiler will then be in Standby mode.

The display will show the last set temperature & power percentage.
The temperature can be altered by pressing either the “+” or “-” buttons.
The power percentage can be altered by pressing the ‘%PWR’ button followed by either the “+” or “-” buttons.

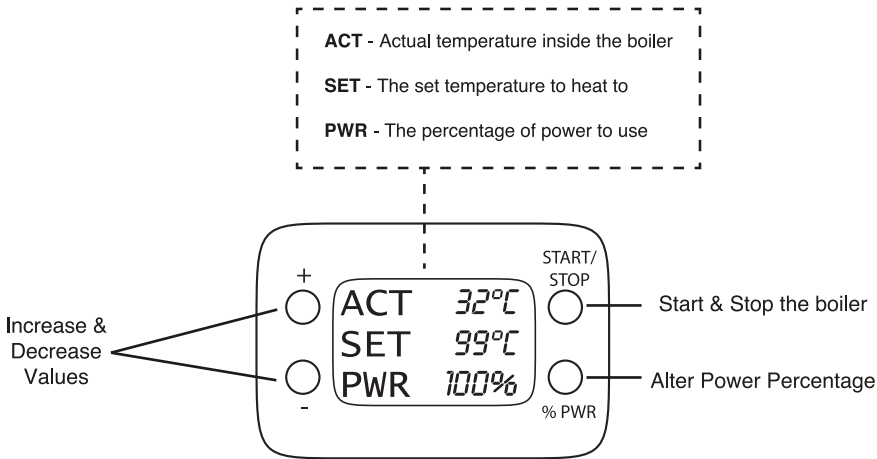
Pressing the “START/STOP” button will initiate the heating process. The boiler will begin to heat and the internal cooling fan will engage.

When the boiler has reached the set temperature, the heating will stop.
The internal cooling fan will still run for a few minutes longer before it stops.

The temperature will naturally lower over time when it is not heated.
When the temperature has dropped by one degree, the boiler will re-engage the heating, and will bring it back to the set temperature.

When the Temperature is set to 100°C, the boiler will show ‘BOIL’ instead of the set temperature.

THE DISPLAY



OPERATING INSTRUCTIONS

STEP 1: Press the “ON/OFF” switch to the **ON** position.

STEP 2: To alter the SET temperature, press either the “+” or “-” buttons.
The SET temperature value will begin flashing.
Each time either the “+” or “-” buttons are pressed, the value will change by 1°C.
Press and hold the “+” or “-” buttons to quickly advance the values.

STEP 3: To alter the Power Percentage, press the “%PWR” button.
The Power Percentage value will begin flashing.
Each time either the “+” or “-” buttons are pressed, the value will change by 1%.
Press and hold the “+” or “-” buttons to quickly advance the values.

STEP 4: Press the “START/STOP” button to commence heating.

STEP 5: When you want the boiler to stop heating, press the “START/STOP” button. The boiler will then return to the Standby mode and the Power Percentage value will start to blink.

When the boiler returns to the Standby mode after heating, the internal cooling fan will still operate until it has cooled down sufficiently. This can take a few seconds to several minutes.

TIPS

When distilling, despite ethanol boiling at 78°C, a higher temperature is needed to overcome the effect of the cooling water. We recommend setting the temperature to 99°C.

When distilling, wait for the temperature to reach around 85°C, then reduce the power percentage to around 70%. This will allow the temperature to rise slower, and as a result will help you to make better cuts and therefore cleaner spirit. The power percentage to use and the temperature to set it to will vary depending on the percentage of alcohol in your wash, so you will need to find the settings that suit you. Use the above as a guide only.

To quickly go from 4°C to 100°C, simply press the minus “-” button. The same can be done to the power percentage if you want to go from 1% to 100%. This also works in reverse if you want to go from 100% to 1%.

ERROR CODES

Code	Reason	Solution
E1 E2	Sensor issue	Contact Love Brewing.
E3	Temperature rised too fast	Not enough water in the boiler, add more water.
E4	Boil Dry Protection	Leave the boiler to cool, then press the reset button on the bottom of the boiler. Check the water level as you may need to add more water.
E5	High temperature	Sometimes due to over-pressure. Make sure the boiler is not sealed, and is allowed to 'breath' by venting pressure when heating, and is able to bring in outside air when the boiler cools.

CLEANING

Clean the boiler after each use, making sure the boiler has cooled and is unplugged.

Wash the inside of the boiler with a weak solution of dishwashing liquid and warm water. Clean using a nylon brush or similar, never use a wire brush or other abrasive materials or liquids. Rinse with clean water.

Wipe down the outside with a clean damp cloth.

Remove the rubber ring from the inside of the lid and wash it with a weak solution of dishwashing liquid and warm water. Rinse with clean water.

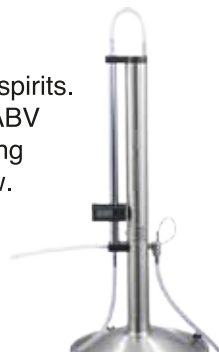
Every so often we would recommend using our Still Cleaner to do a deep clean of the boiler.

Optional Extras

Turbo 500 Steel or Copper Condenser

Ideal for people who wish to produce extremely clean, pure spirits. The T500 allows you to produce up to an astonishing 93% ABV from a standard wash. This is the best attachment for creating clear spirits such as vodka, gin and white rum to name a few.

For even better quality, use the copper condenser as it assists in reducing sulphur compounds in the final alcohol resulting in better quality alcohol.



Combined Alembic Copper Condenser And Dome

Convert the Love Brewing Boiler into an Alembic Pot Still. Instead of stripping flavours like the Turbo 500 Condenser Column, this pot still retains and enhances flavours. This can be used when distilling washes that contain flavours that you wish to collect. Ideal for making whisky, rum and cognac.



Free Standing T500 Copper Parrot Head

The Parrot head fits underneath the alcohol outlet pipe on the T500. Simply take off the tubing and place the parrot underneath it.

Place your spirit hydrometer (sold separately) into the main chamber. The liquid goes through the unit, then reaches a level that will allow you to check the ABV on your hydrometer. It will then overflow into your collection container underneath the spout.



For details on other products we offer, please visit:

www.lovebrewing.co.uk



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