



# SPARGE WATER HEATER

DESIGNED FOR USE WITH THE GRAINFATHER

**Sparging is an important part of the brewing process. After mashing, liquid malt is trapped in the grains and needs to be removed with as little disturbance to the filtering action of the grain bed as possible. With the upper screen in place on the Grainfather the sparge water can be poured over the plate and it will be diffused gently throughout the grain bed.**

**Excessive sparging can cause tannins to be released from the grains and can also lower the alcohol percentage of the beer. Use the calculations in the Grainfather instructions to determine the correct volume of sparge water.**

## CLEANING

Remove and unpack unit. It is recommended that you clean your sparge water heater before the first use. Add 15 L (3.96 US Gal) of water and 2 Tbsp of Grainfather High Performance Cleaner. Heat to 55°C (131°F) use a soft bristle brush to scrub all inside surfaces to remove manufacturing oils then rinse with clean water before use.

## OPERATION

1. Turn the lid anti clockwise to open.
2. Fill the sparge water heater with tap water. Make sure the water is filled to below the “Max” level indicator.
3. Replace the lid and turn clockwise to lock into place.
4. Plug the unit into power socket.
5. Locate the “On/Off” switch and switch to “On”. The pilot lamp will light up and the water will start heating.
6. Set the required temperature on the thermostat dial.
7. The pilot lamp will light up the heating light until it reaches its input temperature, then it will switch to the ‘keep warm’ light. This will keep the water at the required input temperature.

**NOTE:** The thermostat has a switch off temperature and a reheat temperature. The switch off temperature is accurate to  $\pm 5^{\circ}\text{C}$ . So it is important to have thermometer to check the temperature to make sure the water is at  $75^{\circ}\text{C}$  ( $167^{\circ}\text{F}$ ) and mark that area on the thermostat for future reference.

8. Use the tap to dispense the water.
9. Always make sure approx 3 cups water remains in the urn to prevent a boil dry.



## SAFETY CUTOUT

This sparge water heater features a boil-dry switch which will automatically switch the unit off if the water level is too low or empty. To reset this, switch off, unplug the urn and allow it to cool. Empty any remaining water and press the ‘reset’ switch located underneath. Refill the urn and operate as normal. If you are using this unit with the Grainfather, do not plug it into the same power supply.



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## SAFETY INFORMATION

READ THESE INSTRUCTIONS CAREFULLY BEFORE USE AND SAVE FOR FUTURE REFERENCE.

- Do not touch metal parts of the Sparge Water Heater as they become hot during use.
- Be mindful of hot steam coming from the lid vents.
- Do not leave electrical appliances unattended when in use.
- Always put the sparge water heater on a clean, level surface that can withstand the weight of the urn – filled with water.
- Always switch off and disconnect from the mains supply before cleaning or when not in use.
- NEVER attempt to move the Sparge Water Heater when it is full of hot (or cold) water.
- Do not allow it to be immersed in liquid.
- Do not attempt to disassemble the Sparge Water Heater – there are no user serviceable parts inside.
- Do not position the urn so that the tap hangs over the counter edge as it could lead to serious scalds should the tap be switched on by mistake.
- ALWAYS disconnect from the mains supply and allow the water to cool completely before attempting to clean or descale.
- NEVER OVERFILL.
- Do not allow cold water to sit inside for more than 2 days as it could stagnate, which is very unhygienic. Empty the water out completely and refill if it has stood idle over a couple of days.
- Your appliance must never be switched on through an external timer or any kind of separate remote control system.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliances by a dedicated person who has been trained and qualified.
- Children should be supervised to ensure that they do not play with the appliance.

## POWER SUPPLY

- If the unit uses a mains supply, ensure that the plug is securely inserted into the mains socket and it is easily accessible.
- Protect the power lead from sharp objects, excessive heat and damp or wet locations.
- Check the power lead periodically, and replace if damaged.
- Check that the voltage on the rating plate of your product corresponds with your local electricity supply which must be AC (alternating current).
- Any repairs should only be carried out by a fully qualified electrician or an authorised service agent.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

### Sparge Water Heater

Model No: 450045, 450046, 450047

220-240V, ~ 50/60Hz, 2250W

### USA/Canada Sparge Water Heater

Model No: 450048

110-120V, ~ 60Hz, 1500W

Made in China



## ELECTRIC CIRCUIT DIAGRAM

