

Cleaning:

The exterior of these machines may be cleaned with a damp cloth and a light detergent. Do not use abrasive cloths or creams, as this will spoil the finish of the machine. Do not use a water jet or spray.

Limescale:

In common with all water boiler manufacturers, service calls resulting from limescale are not covered by warranty. Fitting a scale reducer is recommended which can reduce the build-up of scale but may not stop it altogether. Hard water areas need more attention. Descaling of the machine should ideally be carried out by qualified service personnel.

Cautions and safety tips:

- This appliance must be earthed. If the moulded plug supplied is not used then ensure that the green/yellow cable is connected to a suitable earth.
- Risk of flooding. The hose supplied with this unit is non-toxic food quality tested to 190psi. However, a hose is not a permanent connection. It is, therefore, advisable to switch off boiler and close the stopcock valve when boiler is not in use, e.g. overnight, weekends etc.
- Risk of scalding. Beware of accidentally operating the water dispense button especially when cleaning the front of the boiler.
- The utmost care has been taken in the manufacture and testing of this unit. Failure to install, maintain and / or operate this boiler according to the manufacturer's instructions may result in conditions that can cause injury or damage to property. If in any doubt about the serviceability of the boiler always contact the manufacturer or your own supplier for advice.

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POURING PERFECTION

Marco Beverage Systems Ltd.

INSTRUCTIONS FOR MODELS

LIBRA 5

(P/N: 1000610)

LIBRA BW

(P/N: 1000611)

Water pressure : 5 - 50 psi (min.-max.)35 - 345 kPa (min.-max.)



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Installation details:

A moulded 13A plug is fitted, a suitable 13A outlet is required. The water boiler operates as an automatic fill (plumbed in) unit.

Installation procedure:

- Fit a Stop Valve on a cold water line and attach a 3/4" BSP male fitting.
- (e.g. 3/4" x 1/2" 311 or washing machine type stop valve).
- Connect straight tailpiece of the hose to the stop valve fitting. Make sure that the pre-attached sealing washer is fitted.
- Turn on the water to flush any impurities, dust etc from the inlet hose and water pipe. Allow several gallons through.
- Connect the right-angled tailpiece of the hose to the inlet valve of the boiler (again 3/4" BSP). Make sure the sealing washer is fitted here also. Direct the hose and cable through the clearance provided at the back of the boiler.
- Turn on water and check for leaks.

Operating boiler for the first time:

- Switch the machine on by pressing the Power On/Off switch at the top left back of the machine. The LED (small light above the green dispense switch) should be Red. This indicates that the water level in the tank is below the low level probe. The machine will take in water to just above the heating element.
- Heating then begins and the LED changes from Red to Amber. When the water is approx 95°C the machine takes in more cold water, while continuing to heat.
- When full and at the correct temperature the LED changes from Amber to Green and the dispense function becomes operational. This takes about 20 minutes. The dispense function can only be used when the LED is green to prevent cold water being dispensed.
- Once full, if water is drawn off again you can still dispense water even if it is only ½ full as long as it is at the correct temperature (green light). Cold water is let in in small bursts and heated to maintain a constant temperature window.
- Water is dispensed through the dispense solenoid valve when the green button on the front panel is kept pressed. This is a press and hold function i.e. water is dispensed while the switch is pressed (Rather than portion/timed dispense).

Troubleshooting:

LED	Symptom	Action required
RED	Water level below elements, and low level probe. Normal when machine first fills.	Check water pressure, and that machine is set to autofill mode.
AMBER	Normal-Machine is heating.	Water must be at 95°C before dispensing.
GREEN	Not dispensing up to 5mins.	Call service agent.
FLASHING RED	Thermistor problem.	Call service agent.

Maintenance:

Marco machines have been designed to give many years of trouble free service. Marco Beverage Systems manufacture and test to ISO9001:2000 standard. The only regular maintenance required is occasional de-scaling.

Descaling Procedure: (note: first 2 instructions are only for the Libra BW)

- Unscrew the 2 M4 screws on the lid.
- Libra BW Only- Unscrew the 4 M6 nuts on the sealing plate and remove the plate and gasket.
- Use the dispense button to drain the machine until no more water is dispensing. Unplug the machine and leave to cool.
- Isolate machine from water supply. Pour the remainder of the water out of the machine, by turning the unit upside down over a sink.
- Try to remove as much loose scale by hand. Be careful not to damage the element or probes.
- Ensure that the plug and cord are dry before reconnecting the power to the machine. Fill the tank with water.
- Allow the machine to reach temperature. Add the contents of a descale sachet. Use ScaleKleen, Marco part No. 8000270 or similar.
- Leave for 10 minutes to allow the descaler to dissolve the lime.
- Use the dispense button to empty the boiler. Unplug the machine and let it cool.
- Empty the remainder of the water into the sink. Flush the tank thoroughly with clean water. Ensure that the plug and cord are dry before reconnecting.
- Libra BW Only- Replace the sealing plate and the 4 M6 nuts.
- Replace the 2 M4 screws on the lid.