



User and Installation Instructions

Electric Auto-Fill Water Boilers EB3F, EB4F, EB6F, EB6TF

Please make a note of your product details for future use:

Date Purchased: _____

Model Number: _____

Serial Number: _____

Dealer: _____

Dear Customer

Thank you for purchasing this **Lincat** product.

With correct use and careful maintenance as described in these instructions, your **Lincat** product will give years of trouble free use.

We produce over 450 different items of catering equipment and our range is constantly being extended and improved. Find out more about **Lincat** products from your local distributor or direct from us.

CONTENTS

CONTENTS	2
SAFETY INFORMATION	3
DELIVERY CHECKLIST	3
TECHNICAL SPECIFICATION	4
ACCESSORIES	4
INSTALLATION	4
CLEANING.....	8
MAINTENANCE	9
DIAGNOSTIC MESSAGES.....	11
SERVICE INFORMATION	11
GUARANTEE.....	12



SAFETY INFORMATION

To prevent injury to yourself or your staff, and to avoid damaging the product, please read and follow the safety precautions below before setting up and using the unit:

- Remove all plastic coatings and clean the unit before use.
- Ensure that the electrical supply cable is not damaged. If it is, it must be replaced by Lincat Ltd or by qualified personnel.
- Always disconnect the unit from the electricity supply before servicing.
- The unit must be earthed.
- Do not try to modify this unit.
- Never clean the unit with a water jet or steam cleaner.
- Inform staff that the surfaces will become hot.
- Keep these instructions in a safe place near the unit for future reference.

DELIVERY CHECKLIST

If an item is missing please contact your dealer immediately.

- Electric water boiler
- Drip tray and insert
- White water inlet hose with $\frac{3}{4}$ " BSP connection
- User instructions
- Guarantee card
- Filterflow badge
- Sample of descaling agent

TECHNICAL SPECIFICATION

Model		EB3F	EB4F	EB6F	EB6TF
Width	mm	290	290	455	455
Depth	mm	465	465	465	465
Height	mm	655	655	655	655
Power Rating	kW	3.0	4.5	6.0	6.0
Net weight net	kg	13	13	17	17
Ambient temperature	°C	5 to 30			
Water inlet pressure	Bar	1 to 8			

ACCESSORIES

Wall mounting kit for EB3F, EB4F	BR49
Wall mounting kit for EB6F, EB6TF	BR50
Replacement filter cartridge	FC02

INSTALLATION

The boiler must be installed on a horizontal surface in a location where it can be supervised by trained personnel.

Inform all users that the surfaces may become hot.

For safety regulations the plug or means of disconnection must always be accessible.

Connecting to the electricity and water and waste supplies

The boiler must be earthed.

Check that the voltage of your electricity supply corresponds to the voltage shown on the serial plate.

EB3F

The boiler is supplied with a 13 amp plug. If replacing the plug, connect the terminals as follows:

- Green and yellow wire Earth E
- Blue wire Neutral N
- Brown wire Live L

For safety regulations the plug or means of disconnection must always be accessible.

EB4F

The boiler is supplied with a bulkhead cable connector and must be fitted with 2.5mm² 3-core cable. The supply end of the cable must be fitted with an all-pole disconnection isolator switch with a minimum of 3mm contact separation. For safety regulations the means of disconnection must always be accessible.

EB6F / EB6TF

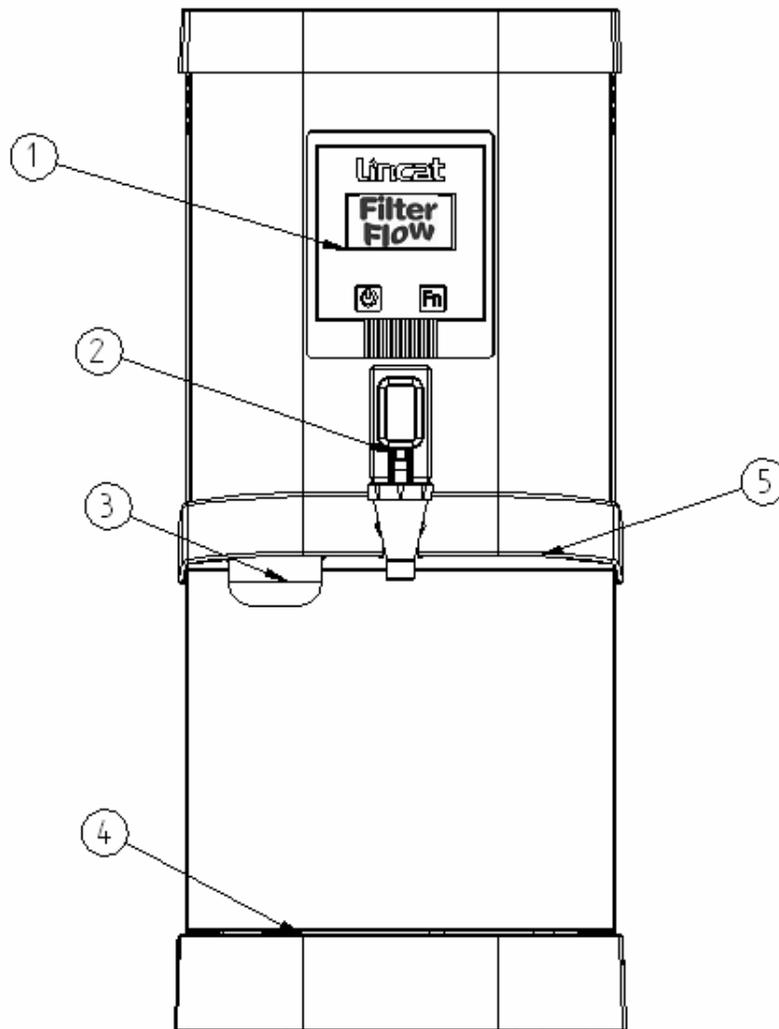
The boiler is supplied with a bulkhead cable connector and must be fitted with 4mm² single or 3-phase cable. The supply end of the cable must be fitted with an easily accessible all-pole disconnection isolator switch with a minimum of 3mm contact separation. For safety regulations the means of disconnection must always be accessible.

Water supply and waste connection: all models

Connect the supplied white water inlet hose to the inlet connection point on the base of the boiler and the other end to the mains water supply via an accessible isolating tap with a 3/4" BSP thread.

The drip tray has a large capacity but if required it can be connected to a waste water outlet using a 1/2" bulkhead connector (not supplied)
If cables are required to exit at either side of the boiler the thinner section between the moulded feet may be cut away using a junior hacksaw.

- 1 Control panel
- 2 Water dispensing tap
- 3 Filter cartridge
- 4 Drip tray and cover
- 5 Serial plate



OPERATION

First use

- 1 Switch on the mains water supply and the electricity supply
- 2 Leave the boiler for 30 minutes to allow it to fill completely
- 3 Drain off approximately 5 litres of water to remove any loose carbon particles from the filter.

Regular operation

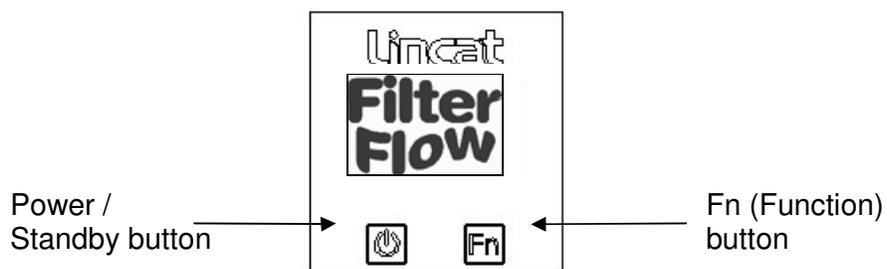
The boiler starts automatically when the mains water supply is turned on. After a short delay it fills with water and heats up. During the heating cycle small quantities of water are added to ensure that hot water is always available at the tap.

The water temperature, screen backlight and screen contrast can be adjusted as required.

The boiler is designed to be left permanently switched on: it is only necessary to turn it off for descaling or maintenance.

Changing water temperature, screen backlight and contrast.

- 1 Turn power off and on again. The Filter Flow screen is displayed



- 2 Press and hold the **power** button until the software version is displayed. Press **Fn** and the temperature will be displayed
- 3 Press the **power** button to cycle through the values 70 to 96 deg C. Press the **Fn** button to select the required value
- 4 The backlight adjustment screen is displayed next
- 5 Press the **power** button to cycle through the values 1 to 25. Press the **Fn** button to select the required value
- 6 The contrast adjustment screen is displayed next

- 7 Press the **power** button to cycle through the values 35 to 60. Press the **Fn** button to select the required value
- 8 Press the **power** button to exit.

Standby

If the boiler is to be left unused for a long period, the element can be turned off by pressing the power button.

Filter replacement

The FILTER display shows the estimated remaining life in the current filter cartridge. When the filter needs replacing, a reminder message is displayed. This is followed by the change filter screen.



The boiler can be used without a filter but scale may build up more quickly and water taste may be affected.

Replace the filter as follows:

- 1 Twist the base of the filter 90 degrees to the left and carefully lower the filter cartridge out of the unit. It will contain a small amount of water
- 2 Remove the black cap and place on the new filter
- 3 Insert the filter fully into its recess and twist to the right to lock in place
- 4 Press and hold the “Fn” button for 5 seconds to reset the filter life monitor
- 5 Drain off approximately 5 litres of water to remove any loose carbon particles from the filter

CLEANING

Clean the external surfaces of the unit regularly to maintain hygiene.

Empty the drip tray regularly.

Wipe the dispensing tap daily to remove any limescale deposits and check that the water outlet is clear.

Wipe the unit down with a damp soft cloth.

Do not allow excess water to run into the unit.

Do not use abrasive creams or scourers.

MAINTENANCE

Drip Tray:	Slide tray out to remove and empty
Filter:	Twist to the left and remove. See section on filter replacement.

Descaling

The descaling procedure must be performed by trained personnel as it requires the removal of panels from the boiler and access to live electrical components.

The boiler should be descaled regularly to maintain efficient operation and water quality. The frequency depends on the hardness of the local water and timely replacement of the filter.

The boiler is best descaled at the end of the working day to allow the descaling agent several hours to work. Lincat recommends its own descaling agent, available from Lincat spares department, part code MS19.

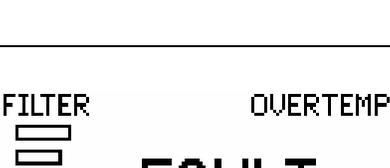
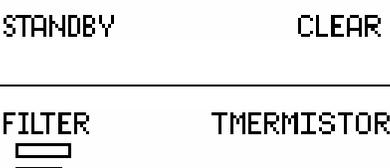
- 1 Wear protective clothing
- 2 Isolate the boiler from the electricity supply
- 3 Turn off the power and let the water cool to approximately 60°C to avoid injury
- 4 Using a 3mm Allen key, remove the screw on the top of the boiler
- 5 Remove the insulation on top of the tank, then unscrew and remove the tank lid
- 6 Add the descaling agent a little at a time as some types can cause hot water to erupt. Always follow the manufacturer's instructions
- 7 Replace the tank lid and outer lid, and attach an "Out of Use" notice to the boiler to prevent use during descaling
- 8 Turn on the electricity and allow the boiler to heat and run normally for approximately 30 minutes
- 9 Isolate the boiler and allow the water to cool

- 10 Remove the outer and tank lids again and inspect the tank and level sensor housings for scale deposits. If necessary repeat the descaling process
- 11 Drain and flush all descaling agent from the tank completely as follows
 - i Remove the two screws behind the drip tray that secure the lower front panel
 - ii Connect a hose from the overflow pipe to a bucket and turn the service valve to drain the remainder of the water from the tank
 - iii Flush out the tank with clean water
 - iv When empty shut the valve and replace the cover
- 12 Replace the tank lid, ensuring that the gasket is sealing the top of the tank correctly
- 13 Fit the outer lid and turn on the boiler.

DIAGNOSTIC MESSAGES

The control panel displays messages and information that can help with fault diagnosis.

Before calling for service, draw off a litre of water, clear the fault code by pressing the **Fn** button and turn the boiler off and on again at the mains supply. If the fault persists call service for advice.

Message Displayed	Possible cause	Corrective action
FILTER DESCALE  STANDBY CLEAR	<ul style="list-style-type: none"> • Scale on level sensors • Boiler overfilling 	<ul style="list-style-type: none"> • Descale. • Check water inlet valve
FILTER NO WATER  STANDBY CLEAR	<ul style="list-style-type: none"> • Water turned off • Inlet hose bent or blocked • Water pressure too high or low • Drain valve open 	<ul style="list-style-type: none"> • Check water supply and drain valve. • Call service if fault persists
FILTER NOT HEATING  STANDBY CLEAR	<ul style="list-style-type: none"> • Boil-dry / overheat protector tripped • Temperature sensor fault • Element failed • PCB fault • Faulty / loose connection 	<ul style="list-style-type: none"> • Check connections. • Call service if fault persists
FILTER OVERTEMP  STANDBY CLEAR	<ul style="list-style-type: none"> • Temperature set too high • Temperature sensor fault • Boiler not filling • Excessive scale in tank • PCB fault 	<ul style="list-style-type: none"> • Reduce temperature setting and try again. • Call service if fault persists
FILTER THERMISTOR  STANDBY	<ul style="list-style-type: none"> • Temperature sensor fault 	<ul style="list-style-type: none"> • Call service

SERVICE INFORMATION

For help with the installation, maintenance and use of your **Lincat** equipment, please contact our service department:

☎ UK: 01522 875520

All service work, other than routine cleaning should be carried out by one of our authorised service agents. We cannot accept responsibility for work carried out by other persons.

To ensure your service enquiry is handled as efficiently as possible, please tell us:

- Brief details of the problem
 - Product code
 - Type number
 - Serial number
- } From serial plate (beside dispensing tap)

Lincat reserve the right to carry out any work under warranty during normal working hours, Monday to Friday, 08:30 am to 17:00 pm.

GUARANTEE

This unit carries a comprehensive UK twelve-month warranty. The guarantee is in addition to, and does not diminish your statutory or legal rights.

The guarantee does not cover:

Accidental damage, misuse or use not in accordance with the instructions in these instructions

Consumable items

Damage due to incorrect installation, modification, unauthorised service work or damage due to scale

The manufacturer disclaims any liability for incidental, or consequential damages

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