



# Installation, Operating and Servicing Instructions

## Wall Mounted Water Boiler M3F, M5F, M7F AND M10F

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

Date Purchased: \_\_\_\_\_

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Dealer: \_\_\_\_\_

\_\_\_\_\_

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## IMPORTANT INFORMATION

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Read these instructions carefully before using this product, paying particular attention to all sections that carry warning symbols, caution symbols and notices. Ensure that these are understood at all times.

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### **WARNING!**

This symbol is used whenever there is a risk of personal injury.

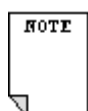
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### **CAUTION!**

This symbol is used whenever there is a risk of damaging your Lincat product.

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### **NOTE:**

This symbol is used to provide additional information, hints and tips.

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**KEEP THIS MANUAL FOR FUTURE REFERENCE**

## WARNINGS AND PRECAUTIONS



This appliance must be installed, commissioned and serviced by a qualified person in accordance with national and local regulations in force in the country of installation.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person.

Ensure wall construction is suitable see Installation and commissioning.

Ensure that the plug/socket is accessible at all times.

Strip plastic coating and clean the appliance before use.

During operation parts may become hot - avoid accidental contact.

Disconnect this appliance before servicing, maintenance or cleaning.

This appliance is not suitable for outdoor use.

Waste connection to the condensate overflow pipe with use of a Tundish is advisable.

## TECHNICAL DATA

Model	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Weight (kg) Inc. full tank
M3F	362	300	203	8.9	12.1
M3F (inc fittings)	398	304	269		
M5F	412	340	203	9.9	15.1
M5F (inc fittings)	448	344	269		
M7F	527	340	203	11.6	19.4
M7F (inc fittings)	563	344	269		
M10F	543	340	230	11.8	22.1
M10F (inc fittings)	580	344	296		

## CHECK LIST OF ENCLOSURES

Instructions manual
Connection hose
Wall bracket

# INSTALLATION AND COMMISSIONING



This appliance must be earthed.

If replacing the plug connect the terminals as follows:

Green and Yellow wire    Earth    E

Blue wire                    Neutral    N

Brown wire                  Live        L

Means of isolation with at least 3mm contact separation in all poles must be incorporated into the fixed wiring of this appliance.

The fixed wiring insulation must be protected by insulated sleeving having a temperature rating of at least 60°C.

Supply cords shall be oil resistant, sheathed flexible cable not lighter than ordinary polychloroprene or equivalent elastomer sheathed cord (code 60245 IEC 57)

Do not re-use old hose sets.

## Wall installation

The boiler must be installed on a vertical concrete/brick wall with the base in a horizontal position. The location must be frost free.

Using the wall bracket provided mark the position of the mounting holes. The top of the wall bracket is 10mm below the height of the fitted unit lid (see Fig1). Drill the holes and insert suitable wall plugs.

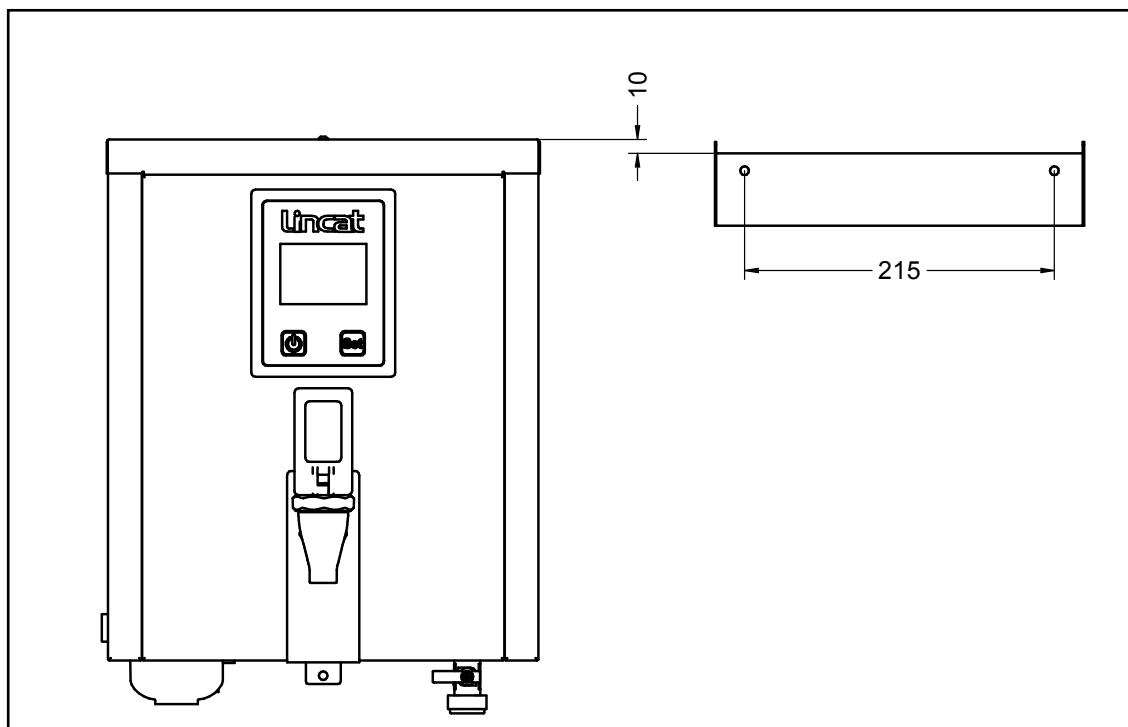


Fig1

Hang the unit onto the bracket and mark the position of the lower fixing screw on the underside of the unit. Remove the boiler and drill the hole and insert suitable wall plug. The water boiler is now ready to mount and connect services.

Please allow 200mm clear space above the unit to allow removal of the cover and 300mm below the unit to allow for filter removal.

### Electrical supply

The MF wall mount series are supplied with a 13 amp plug to BS1363

### Power Ratings

Model	kW	Amps
M3F	3.0	13.0
M5F		
M7F		
M10F		

### Water Installation

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 supply via an accessible isolating tap with a 3/4" BSP thread.

Use the hose set supplied with the appliance – any previous hose set is not to be re-used.

Connect the condensate/overflow pipe (Fig 2 B) to a suitable drain, considering any applicable local water regulations.

Potable water. If solid particles are known to be in the supply, add an extra inline filter or strainer.

Ambient temp Deg C	Water inlet pressure Bar	Water inlet pressure kPa
5 to 30	1 to 8	100 to 800

Turn on the water supply and check for leaks.

## OPERATING INSTRUCTIONS

Only qualified or trained personnel should use this appliance.

### First Use

Switch on both mains water and electricity supplies and leave the boiler to fill completely. Unit will display READY when set temperature is reached.

New filters have a small amount of loose, harmless, carbon particles. Drain off approximately 3 litres of water when first setting up or replacing filter.

### Regular operation

The appliance starts automatically shortly after the electrical supply is turned on, filling with water and heating.

The unit will display 'Wait' whilst it fills and heats. It will display 'Ready' when water can be drawn off.

To ensure that water is always hot, only small quantities are added constantly during the heating cycle. The appliance is designed to be left on permanently, only to be turned off for descaling or maintenance.

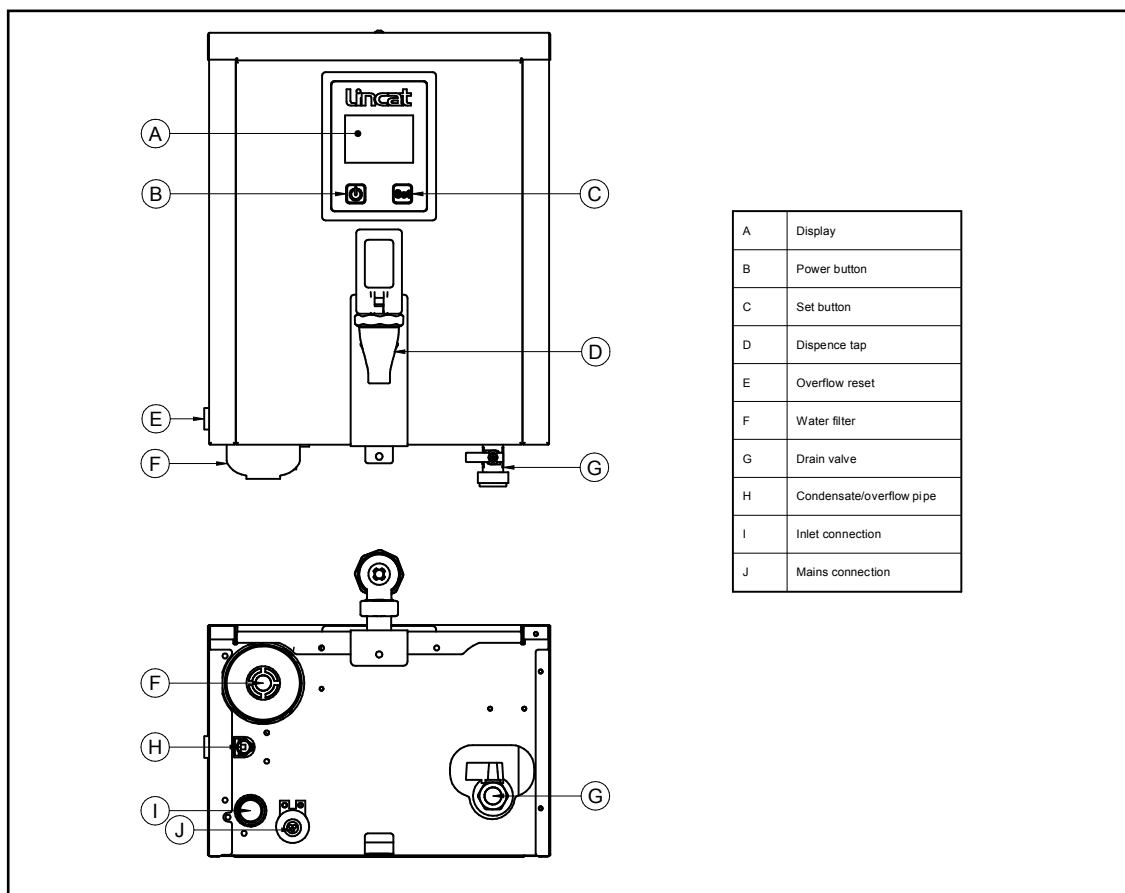


Fig 2

### Adjustment - water temperature, screen backlight and contrast.

Turn power off at the mains for 5 seconds and then back on again. When the 'Filterflow' screen is displayed, press and hold the **power** button (B) until the software version is displayed. Press the **Set** button (C) and the temperature will be displayed.

Press the **power** button to cycle through the values 70 to 96°C. Press the **Set** button to select the required value.

The backlight adjustment screen is displayed next. Press the **power** button to cycle through the values 1 to 25. Press the **Set** button to select the required value.

The contrast adjustment screen is displayed next. Press the **power** button to cycle through the values 35 to 60. Press the **Set** button to select the required value.

Press the **power** button to exit.

### Standby

If the appliance is to be left unused for any length of time, turn the element off by pressing the **power** button.

### Filter replacement

The filter display shows the estimated life left in the filter cartridge (Fig 3). A reminder message is displayed when the filter needs changing.

Failure to replace the filter with a Lincat supplied item could result in invalidation of the units warranty and charges incurred. Purchase of the filter can be done at time of purchase when placing your order, and subsequent filters can be ordered from PartsTown UK using product code FC04.

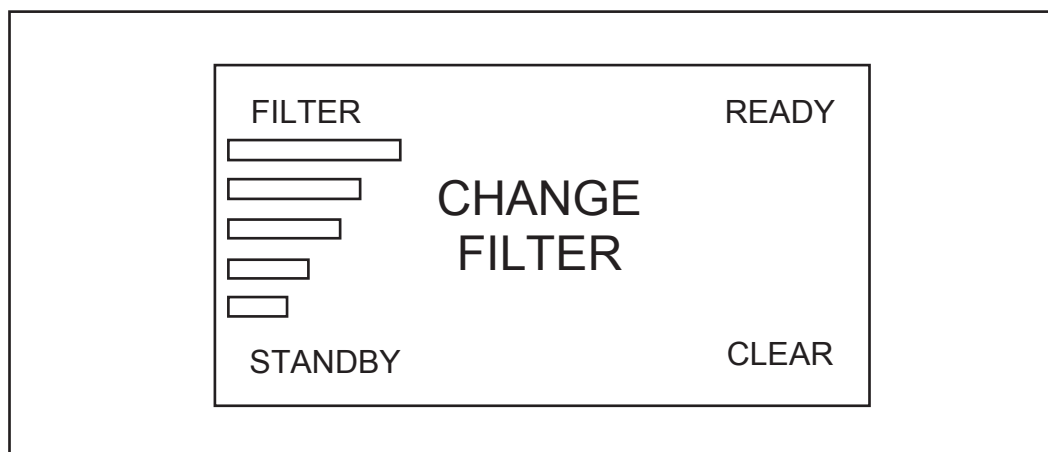


Fig 3

### To replace the filter

Twist the base of the filter 90 degrees to the left and carefully lower the filter cartridge out of the appliance. It will contain a small volume of water.

Re-insert new filter into the recess and lock into place by twisting to the right.

Press and hold both **Set** and **Power** button for 5 seconds to reset the filter life.

Drain off approximately 3 litres of water to remove any loose carbon particles from the filter.

The boiler will not fill if the filter is removed as the filter head incorporates a shut-off valve.

# CLEANING



Do not use a water jet or steam cleaner, and do not immerse this appliance.

Clean all panels with warm water and mild detergent, do not use abrasive materials. Dry with a soft cloth.

Wipe the dispensing nozzle daily to remove limescale deposits.

## De-scaling

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

In common with all water boiler manufacturers, service calls resulting from limescale are not covered by warranty.



**The de-scaling procedure must be performed by trained personnel as it requires the removal of panels from the boiler giving access to live electrical components.**

De-scaling the boiler at the end of the working day gives the de-scaling agent several hours to work. Lincat recommend our own de-scaling agent DP10, available from our Spares department.

- Wear protective clothing.
- Isolate the boiler from the electrical supply.
- Turn off the power and allow the water to cool to 60°C.
- Remove the water boiler top cover.
- Remove the insulation from the top of the tank, then unscrew and remove the tank lid.
- Add the de-scaling agent slowly to avoid eruption of the water. Follow the manufacturer's instructions.
- Replace the tank lid and outer lid cover. Attach an 'Out of Use' notice to the boiler to prevent use during de-scaling.
- Turn on the electricity and allow the boiler to run normally for 30 minutes. Isolate the boiler and allow the water to cool.
- Remove the boiler lid cover and tank lid and inspect the tank and level sensor housings for scale deposits. If necessary, repeat the de-scaling process.

In hard water areas manual descale may be required. Remove as much scale as possible by hand paying particular attention to the level sensors and element.

- Drain and flush all de-scaling agent from the tank completely as follows:
- Drain all the water out of the tank– (Fig 2 G)

Failure to descale a unit may result in the boiler overflowing and leaking from the overflow


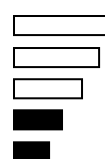

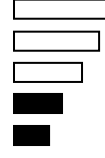
# SERVICING, MAINTENANCE AND COMPONENT REPLACEMENT

All servicing, maintenance and component replacement on this appliance should be carried out by one of our recommended service engineers.

## FAULT FINDING

The control panel displays information that can help with fault diagnosis. Before calling for service, draw off a litre of water, clear the fault code by pressing the Set button and turn the boiler off and on again at the supply.

Please refer to the Service Help Desk number on the final page of this manual if fault persists.

Message displayed	Possible causes	Corrective action
FILTER                      DESCALE  <b>CAUTION</b> SEE MANUAL STANDBY                      CLEAR	Scale on level sensors Boiler overfilling  Leaking past the inlet solenoid valve	Descale  Check water inlet valve  Clear fault code pressing Set button
FILTER                      NO WATER  <b>FAULT</b> SEE MANUAL STANDBY                      CLEAR	Water turned off Inlet hose kinked or blocked Water pressure too high or low Drain valve open Filter blocked or not fitted	Check water supply and drain valve  Clear fault code pressing Set button  Call Lincat if fault persists
FILTER                      NOT HEATING  <b>FAULT</b> SEE MANUAL STANDBY                      CLEAR	Boil dry/overheat protector tripped Temperature sensor fault Element failed PCB fault Faulty or loose connection	Try overflow temp reset fig2 (E)  Clear fault code pressing Set button  Call Lincat if fault persists
FILTER                      THERMISTOR  <b>FAULT</b> SEE MANUAL STANDBY                      CLEAR	Temperature sensor fault	Call Lincat

## SPARE PARTS LIST

Part Number	Description	Used on
EL277	Element	M3F, M5F, M7F and M10F
FH04	Filter head only	
FC04	Water filter	
GA82	Tank gasket	M3F
GA83	Tank gasket	M5F, M7F
GA84	Tank gasket	M10F
LE57	Level sensor insulator	M3F, M5F, M7F and M10F
LE48	Upper level sensor	
LE51	Lower level sensor	M3F, M5F, M7F and M10F
PR110	Circuit board	
SI01	Sensor isolator	
SL20	Tap nut	
SL21	Tap circlip	
SL34	Tap body	
SO23	Solenoid	
TH123	90 Deg cutout	
TH88	120 Deg cutout	
TH98	Thermistor	
WL02	Sensor loom	

## ACCESSORIES

Part Number	Description
DR94	M3F Drip tray
DR95	M5F & M7F Drip tray
DR96	M10F Drip tray
FC04	Filter cartridge
DP10	De-scaler

## SERVICE INFORMATION

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

**☎ UK: 01522 875520**

For non-UK customers, please contact your local Lincat dealer

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
- } All available on serial plate

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

### **GUARANTEE**

This unit carries a comprehensive UK mainland 2 year 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 manufacturer's instructions
- Scale related issues
- Consumable items (such as filters, glass, bulbs, slot toaster elements and door seals.)
- Damage due to incorrect installation, modification, unauthorised service work or abuse

The manufacturer disclaims any liability for incidental, or consequential damages. Attendance is based on reasonable access to the appliance to allow the authorised technician to carry out the warranty work.

Service calls to equipment under warranty will be carried out in accordance with the conditions of sale. Unless otherwise specified, a maximum of 15 minutes of administrative time, not spent directly carrying out servicing work, is provided for within the warranty. Any requirement for staff attending the call to spend greater time than 15 minutes due to administrative requirements, such as on health and safety risk assessments, will be chargeable at the prevailing rate.