



# USER GUIDE

**LOGIC MAX  
HEAT H 12 15 18 24 30**



When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal Boilers.

**For the very latest copy of literature for specification and maintenance practices visit our website [idealboilers.com](http://idealboilers.com) where you can download the relevant information in PDF format.**

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## 1. INTRODUCTION

The **Logic Max Heat H** is a heating only boiler, featuring full sequence automatic spark ignition and fan assisted combustion. It is designed to provide central heating and hot water when separate hot water cylinder is installed.

Due to the high efficiency of the boiler, condensate is produced from the flue gases and this is drained to a suitable disposal point through a plastic waste pipe at the base of the boiler. A condensate 'plume' will also be visible at the flue terminal.

### SAFETY

#### **Current Gas Safety (Installation & Use) Regulations or rules in force.**

In your own interest, and that of safety, it is the law that this boiler must be installed by a Gas Safe Registered Engineer, in accordance with the above regulations.

In IE, the installation must be carried out by a Registered Gas Installer (RGII) and installed in accordance with the current edition of I.S. 813 "Domestic Gas Installations", the current Building Regulations and reference should be made to the current ETCI rules for electrical installation.

*It is essential that the instructions in this booklet are strictly followed, for safe and economical operation of the boiler.*

### ELECTRICITY SUPPLY

**This appliance must be earthed.**

**Supply: 230 V ~ 50 Hz. The fusing should be 3A.**

### IMPORTANT NOTES

- This appliance must not be operated without the casing correctly fitted and forming an adequate seal.
- If the boiler is installed in a compartment then the compartment **MUST NOT** be used for storage purposes.
- If it is known or suspected that a fault exists on the boiler then it **MUST NOT BE USED** until the fault has been corrected by a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGII).
- Under **NO** circumstances should any of the sealed components on this appliance be used incorrectly or tampered with.
- This appliance can be used by children 8 years and above. Also persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, provided they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

All Gas Safe Register installers carry a Gas Safe Register ID card, and have a registration number. Both should be recorded in the Benchmark Commissioning Checklist. You can check your installer by calling Gas Safe Register direct on 0800 4085500.

**Ideal Boilers** is a member of the Benchmark scheme and fully supports the aims of the programme. Benchmark has been introduced to improve the standards of installation and commissioning of central heating systems in the UK and to encourage the regular servicing of all central heating systems to ensure safety and efficiency.

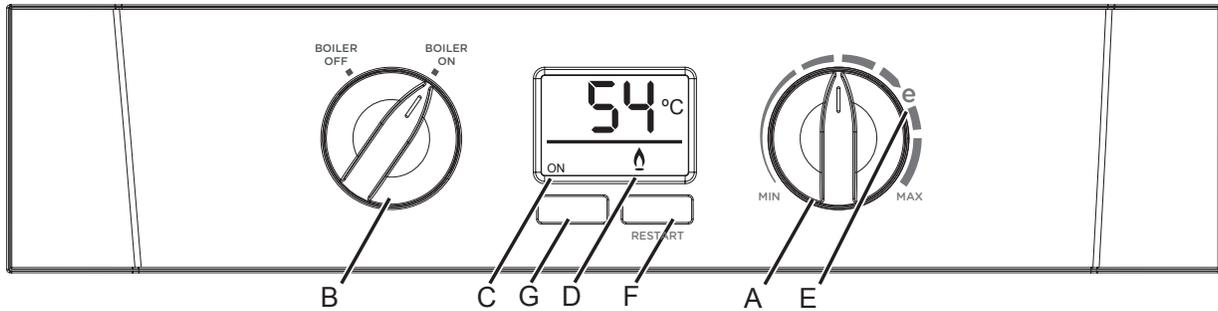
**THE BENCHMARK SERVICE INTERVAL RECORD MUST BE COMPLETED AFTER EACH SERVICE**



## 2. BOILER OPERATION

### Legend

- |                                     |                                    |
|-------------------------------------|------------------------------------|
| A. Central Heating Temperature Knob | E. Central Heating Economy Setting |
| B. Mode Knob                        | F. RESTART Button                  |
| C. Boiler Status                    | G. Function Button                 |
| D. Burner 'on' Indicator            |                                    |



### TO START THE BOILER

If a programmer is fitted refer to separate instructions for the programmer before continuing.

Start the boiler as follows:

1. Check that the electricity supply to boiler is off.
2. Set the mode knob (B) to '**BOILER OFF**'.
3. Set the Central Heating temperature knob (A) to '**MAX**'.
4. Switch on electricity to the boiler and check that all external controls, e.g. programmer, room thermostat and hot water cylinder thermostat are on.
5. Set the mode knob (B) to '**BOILER ON**'.

The boiler will commence ignition sequence, supplying heat to the central heating, if required.

**Note.** In normal operation the boiler status display (C) will show codes:

- |    |                                                                            |
|----|----------------------------------------------------------------------------|
| □□ | Standby - no demand for heat.                                              |
| ▣▣ | Central Heating being supplied                                             |
| FP | Boiler frost protection<br>- boiler will fire if temperature is below 5°C. |

During normal operation the burner on indicator (D) will remain illuminated when the burner is lit.

**Note:** If the boiler fails to light after five attempts the fault code *L-2* will be displayed (refer to Fault Code page).

### To Turn Off

Set the mode knob (B) to '**BOILER OFF**'.

### CONTROL OF WATER TEMPERATURE

The boiler controls the central heating radiator temperature to a maximum of 80°C, adjustable via the central heating temperature knob (A).

Approximate temperatures for central heating:

Knob Setting	Central Heating Radiator Temperature (approx.)
Minimum	30°C
Maximum	80°C

For economy setting '**e**' refer to Efficient Heating System Operation.

### EFFICIENT HEATING SYSTEM OPERATION

The boiler is a high efficiency, condensing appliance which will automatically adjust its output to match the demand for heat. Therefore gas consumption is reduced as the heat demand is reduced.

The boiler condenses water from the flue gases when operating most efficiently. To operate your boiler efficiently (using less gas) turn the central heating temperature knob (A) to the '**e**' position or lower. In winter periods it may be necessary to turn the knob towards the '**MAX**' position to meet heating requirements. This will depend on the house and radiators used.

Reducing the room thermostat setting by 1°C can reduce gas consumption by up to 10%.

### WEATHER COMPENSATION

When the Weather Compensation option is fitted to the system then the central heating temperature knob (A) becomes a method of controlling room temperature. Turn the knob clockwise to increase room temperature and anti-clockwise to decrease room temperature. Once the desired setting has been achieved, leave the knob in this position and the system will automatically achieve the desired room temperature for all outside weather conditions.

### BOILER FROST PROTECTION

If the system includes a frost thermostat then, during cold weather, the boiler should be turned OFF at the programmer ONLY. The mains supply should be left switched ON, with the boiler thermostat left in the normal running position.

If no system frost protection is provided and frost is likely during a short absence from home it is recommended to leave the heating controls at a reduced temperature setting. For longer periods, the entire system should be drained.

### BOILER RESTART

To restart the boiler, when directed in the listed fault codes (see section 7) press the "RESTART" button (F). The boiler will repeat its ignition sequence. If the boiler still fails to start consult a Gas Safe Registered Engineer or an IE Registered Gas Installer (RGII).

### MAINS POWER OFF

To remove all power to the boiler the mains power switch must be turned off.

### 3. CONDENSATE DRAIN

This appliance is fitted with a siphonic condensate trap system that reduces the risk of the appliance condensate from freezing. However should the condensate pipe to this appliance freeze, please follow these instructions:

- a. If you do not feel competent to carry out the defrosting instructions below please call your local Gas Safe Registered installer for assistance.
- b. If you do feel competent to carry out the following instructions please do so with care when handling hot utensils. Do not attempt to thaw pipework above ground level.

If this appliance develops a blockage in its condensate pipe, its condensate will build up to a point where it will make a gurgling noise prior to locking out an "L2" fault code. If the appliance is restarted it will make a gurgling noise prior to it locking out on a failed ignition "L2" code.

To unblock a frozen condensate pipe;

1. Follow the routing of the plastic pipe from its exit point on the appliance, through its route to its termination point.  
Locate the frozen blockage. It is likely that the pipe is frozen at the most exposed point external to the building or where there is some obstruction to flow. This could be at the open end of the pipe, at a bend or elbow, or where there is a dip in the pipe in which condensate can collect. The location of the blockage should be identified as closely as possible before taking further action.
2. Apply a hot water bottle, microwaveable heat pack or a warm damp cloth to the frozen blockage area. Several applications may have to be made before it fully defrosts. Warm water can also be poured onto the pipe from a watering can or similar. **DO NOT** use boiling water.
3. Caution when using warm water as this may freeze and cause other localised hazards.
4. Once the blockage is removed and the condensate can flow freely, restart the appliance. (Refer to "To Start the boiler")
5. If the appliance fails to ignite, call your Gas Safe Registered engineer.

#### Preventative solutions

During cold weather, set the central heating temperature knob (A) to maximum must return to original setting once cold spell is over).

Place the heating on continuous and turn the room thermostat down to 15°C overnight or when unoccupied. (Return to normal after cold spell).

### 4. GENERAL INFORMATION

#### MINIMUM CLEARANCES

Clearance of 165mm above, 100mm below, 2.5mm at the sides and 450mm at the front of the boiler casing must be allowed for servicing.

#### Bottom Clearance

Bottom clearance after installation can be reduced to 5mm

This must be obtained with an easily removable panel to provide the 100mm clearance required for servicing.

#### ESCAPE OF GAS

Should a gas leak or fault be suspected contact the National Gas Emergency Service without delay. **Telephone 0800 111 999.**

#### Ensure that;

- **All naked flames are extinguished**
- **Do not operate electrical switches**
- **Open all windows and doors**

#### CLEANING

For normal cleaning simply dust with a dry cloth. To remove stubborn marks and stains, wipe with a damp cloth and finish off with a dry cloth. **DO NOT use abrasive cleaning materials.**

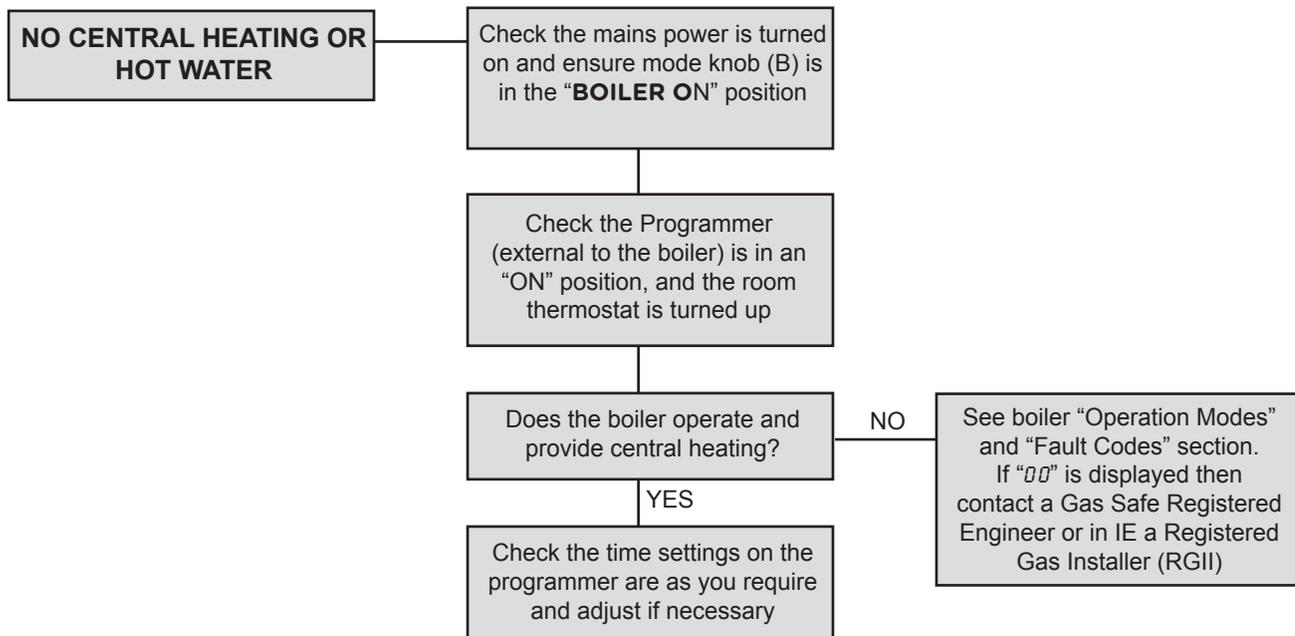
#### MAINTENANCE

The appliance should be serviced at least once a year by a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGII).

## 5. POINTS FOR THE BOILER USER

**Note.** In line with our current warranty policy we would ask that you check through the following guide to identify any problems external to the boiler prior to requesting a service engineers visit. Should the problem be found to be other than with the appliance we reserve the right to levy a charge for the visit, or for any pre-arranged visit where access is not gained by the engineer.

### TROUBLESHOOTING



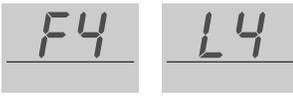
**FOR ANY QUERIES PLEASE RING THE  
IDEAL CONSUMER HELPLINE : 01482 498660**

**NOTE. BOILER RESTART PROCEDURE -  
To restart boiler, press the "RESTART" button**

## 6. NORMAL OPERATION DISPLAY CODES

DISPLAY CODE ON BOILER	DESCRIPTION
	<p>The boiler is in standby operation awaiting either a central heating call or hot water demand.</p>
	<p>The boiler has a call for central heating but the appliance has reached the desired temperature set on the boiler.</p>
	<p>The boiler is operating in central heating / hot water mode.</p>
	<p>The boiler is operating in frost protection.</p>
	<p>The boiler mode knob (B) is in the off position, rotate fully clockwise for hot water and central heating operation.</p>

## 7. FAULT CODES

DISPLAY CODE ON BOILER	DESCRIPTION	ACTION
	Flame Loss	<ol style="list-style-type: none"> <li>1. Check other gas appliances in the house are working to confirm a supply is present in the property.</li> <li>2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).</li> </ol>
	Fan Fault	Restart the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).
	Flow Thermistor	Restart the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).
	Return Thermistor	Restart the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).
	Outside Sensor Failure	Restart the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).
	Low Mains Voltage	Contact a qualified electrician or your electricity provider.
	Unconfigured PCB	Unconfigured PCB or gas valve short circuit. Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).
		
	Flow / Return Reversed	Please contact a Gas Safe Registered Engineer. In IE contact a Registered Gas Installer (RGI).
	No Water Flow	Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).
	Flow Temperature Overheat or No Water Flow	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see Section 4. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).
	Ignition Lockout	<ol style="list-style-type: none"> <li>1. Check condensate Pipe for blockages (refer to Section 3)</li> <li>2. Check other gas appliances in the house are working to confirm a supply is present in the property.</li> <li>3. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).</li> </ol>
	False Flame Lockout	Restart the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).
	5 Boiler Resets in 15 minutes	<ol style="list-style-type: none"> <li>1. Turn electrical supply to boiler off and on.</li> <li>2. If the boiler fails to operate please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).</li> </ol>
	Flow/Return Differential > 50°C	If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).

## NOTES

# NOTES

