ideal HEATING
S15 IE Logic MAX System

ideal HEATING S15 IE Logic MAX System User Guide

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When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specifications that we require. Do not use reconditioned or copied parts that have not been authorized by Ideal Heating. For the very latest copy of literature for specification and maintenance practices visit our website **idealheating.com** where you can download the relevant information in PDF format.

INTRODUCTION

The Logic Max System2 S IE is a system boiler, featuring full sequence automatic spark ignition and fan-assisted combustion. It is designed to provide central heating and hot water when a 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.

- The installation must be carried out by a Registered Gas Installer (RGII) and installed by 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 the 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 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 the 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 done by children without supervision.

CARBON MONOXIDE ALARMS

- Carbon monoxide detectors are installed near the boiler to detect a gas leak. If a leak is detected the alarm will make a very loud noise. If you suspect that there is a fault with the alarm, you should first change the batteries.
- If you change the batteries and the fault is not clear, you must speak to your landlord or replace the device with another that complies with BS EN 50291-1:2010.

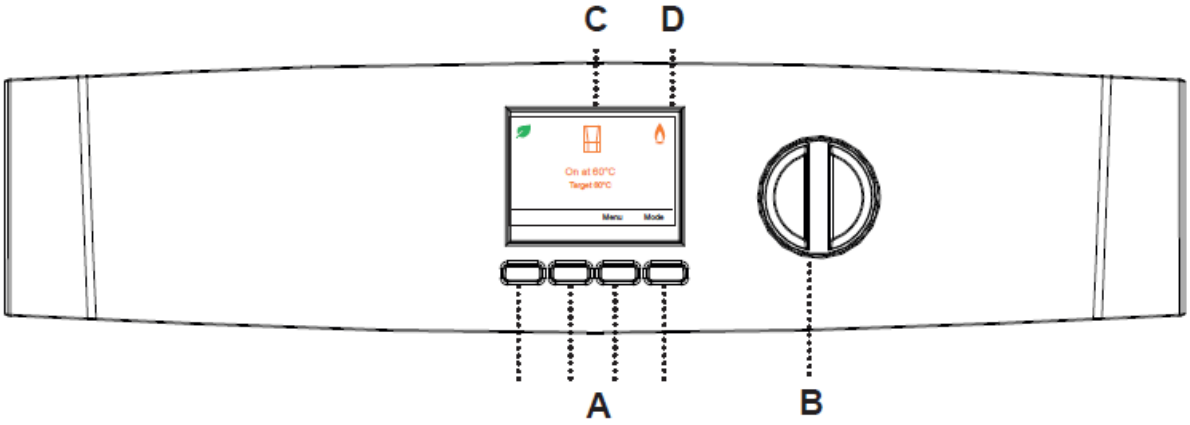
WEEE DIRECTIVE 2012/19/EU
Waste Electrical and Electronic Equipment Directive

- At the end of the product life, dispose of the packaging and product in a corresponding recycle center.
- Do not dispose of the unit with the usual domestic refuse.
- Do not burn the product.
- Remove the batteries.
- Dispose of the batteries according to the local statutory requirements and not with the usual domestic refuse.

Ideal Heating is a member of the Benchmark scheme and fully supports the aims of the program. 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

BOILER OPERATION



Legend

- **A.** Hot Keys
- **B.** Central Heating Temperature Knob
- **C.** Burner On Indicator
- **D.** Boiler Status Display

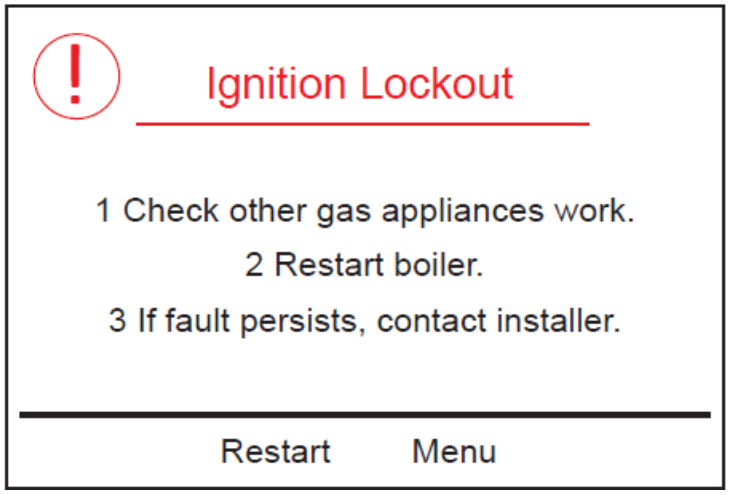
TO START THE BOILER
Start the boiler as follows:

1. Switch on electricity to the boiler and check that all external controls, e.g. programmer, room thermostat, and cylinder thermostat are on.
2. If a Boiler symbol is shown on the screen then press Mode until Ready or On is shown underneath the Boiler symbol. If Tap and Radiator symbols are shown press Mode until Ready or On is shown underneath the radiator symbol.
3. If a Boiler symbol is shown on the screen turn the temperature control knob until 80°C is shown. If Tap and Radiator symbols are shown turn the temperature control knob until 30°C is shown.
    - Once the boiler has lit see the following page about where the Temperature Control knob should be set.
    - **Note.** In normal operation, the boiler status display (D) will display messages.

Refer to Section
1.8

Boiler frost protection – The boiler will fire if the temperature is below 5ºC.

- During normal operation, the burner on the symbol (C) will remain illuminated when the burner is lit.
- If the boiler fails to light after five attempts the following fault messages will be displayed:



- To restart the boiler, press Restart. The boiler will repeat the ignition sequence. If the boiler still fails to light consult a Registered Gas Installer.

OPERATION MODES

- **Winter Conditions – (Central Heating and Domestic Hot Water required)**
  If a Boiler symbol is shown on the display then press Mode until either Ready or On is shown under the Boiler symbol. If Tap & Radiators symbols are shown then press Mode until Ready or On is shown under the radiator symbol. [ ].
  The boiler will fire and supply heat to the radiators.
- **Summer Conditions – (Domestic Hot Water only required)**
  If a Boiler symbol is shown on the display then central heating must be disabled at the timer or room thermostat. If Tap and Radiators symbols are shown on the display then press Mode until Ready or On is shown under the Tap and Off is shown under the Radiator. [ ].
- **Boiler Off**
  If a Boiler symbol is shown on the display then press Mode until Off is shown under the Boiler symbol. If Tap and Radiator symbols are shown on the display then press Mode until Off is shown underneath the Radiator symbol.

CONTROL OF WATER TEMPERATURE

Central Heating

- The boiler controls the central heating radiator temperature to a maximum of 80oC, adjustable via the central heating temperature knob (B).
- Approximate temperatures for central heating:

Knob Setting	**Central Heating Radiator Temperature (approx.)**
Minimum	30ºC
Maximum	80ºC

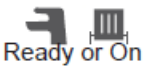
- For economy setting [ ] refer to Efficient Heating System Operation.

EFFICIENT HEATING SYSTEM OPERATION

- The boiler is a high-efficiency, condensing appliance that 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 temperature control knob (B) until the leaf symbol is shown []. In winter periods it may be necessary to turn the knob towards a higher temperature to meet heating requirements. This will depend on the house and radiators used.
- Reducing the room thermostat setting by 1ºC 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 (B) 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
The boiler is fitted with frost protection that operates in all modes, provided the power supply to the boiler is always turned on. If the water in the boiler falls below 5ºC, the frost protection will activate and run the boiler to avoid freezing.

- The process does not guarantee that all other parts of the system will be protected.
- If a system frost thermostat has been installed, the boiler must be set in winter mode, with Ready or On [

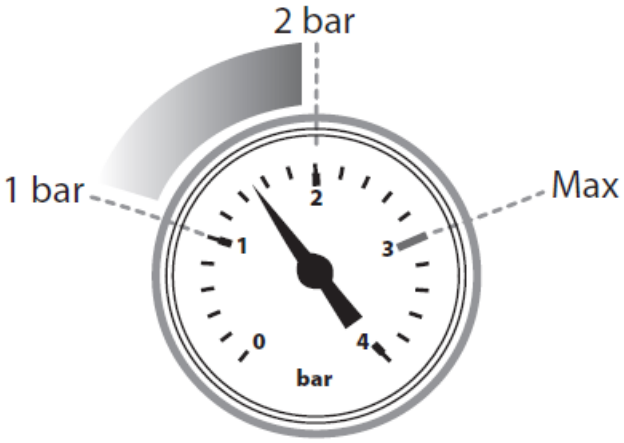
] shown under either the Boiler or Radiator symbol, for the system frost protection to run.
- If no system frost protection is provided and frost is likely during a short absence from home it is recommended to leave the system heating controls or built-in programmer (if fitted) switched on and running 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 messages (see section 4) press the “Restart” button. The boiler will repeat its ignition sequence. If the boiler still fails to start consult a Gas Safe Registered Engineer.

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

SYSTEM WATER PRESSURE

The system pressure gauge indicates the central heating system pressure. If the pressure is seen to fall below the original installation pressure over a period of time and continue to fall then a water leak may be indicated. In this event re-pressurise the system. If depressurization of the system is not possible, or if the system pressure continues to drop, the Registered Gas Installer (RGII) should be called.



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 engineer's 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.

FOR ANY QUERIES PLEASE RING THE IDEAL HELPLINE: 00353 (0)1 961 7700
BOILER RESTART PROCEDURE – To restart the boiler press the restart button

UNBLOCKING A FROZEN 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:

- If you do not feel competent to carry out the defrosting instructions below please call your local Gas Safe Registered installer for assistance.
- 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 before locking out displaying "Ignition Lockout" on the display. If the appliance is restarted it will make
a gurgling noise before it locking out displaying "Ignition Lockout" on the display.

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. The pipe is likely 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 localized 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 Registered Gas Installer (RGII)

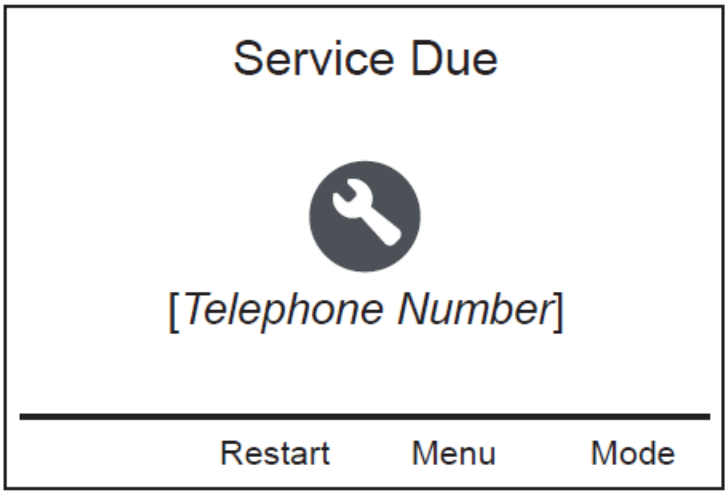
Preventative Solutions

- During cold weather, set the central heating temperature knob (B) to “MAX”, (Remember to return to the original setting once the cold spell is over).
- Place the heating on continuously and turn the room thermostat down to 15ºC overnight or when unoccupied. (Return to normal after the cold spell).

SCAN for video

GENERAL INFORMATION

- **BOILER PUMP**
  The boiler pump will operate briefly as a self-check once every 24 hours, regardless of system demand.
- **MINIMUM CLEARANCES**
  Clearance of 165 mm (6 1/2”) above, 100 mm (4”) below, 2.5 mm (91/8”) at the sides, and 450 mm (17 3/4”) at the front of the boiler casing must be allowed for servicing.
- **BOTTOM CLEARANCE**
  - Bottom clearance after installation can be reduced to 5 mm
  - This must be obtained with an easily removable panel, to enable the system pressure gauge to be visible and to provide the 100 mm clearance required for servicing.
- **SERVICE REQUEST FUNCTION**
  When the boiler has been installed for more than 1 year the following message will appear on screen: Press “Restart” to clear this message.
- **ESCAPE OF GAS**
  Should a gas leak or fault be suspected contact the National Gas Emergency Service 1800 20 50 50 without delay.



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 frequency of servicing will depend upon the installation condition and usage but should be carried out at least annually by a Registered Gas Installer (RGII).

TROUBLESHOOTING

NO HOT WATER

Ensure that the mains power is turned on. If a Boiler symbol is shown On the display then press Mode until either Ready or On is shown underneath the Boiler Symbol. If a Tap symbol is shown on the display then press Mode until either Ready or On is shown underneath the Tap symbol.

Ensure that the Hot Water Timer is On & the Cylinder Thermostat is calling for heat."?

NO

YES

If fault persists contact Ideal Customer Service Helpline if your appliance is under warranty or a Registered Gas Installer (RGII) otherwise.

Contact a Registered Gas Installer (RGII)

NO CENTRAL HEATING

Ensure that the mains power is turned on. If a Boiler symbol is shown On the display then press Mode until either Ready or On is shown underneath the Boiler Symbol. If a Radiator symbol is shown on the display then press Mode until either Ready or On is shown underneath the Radiator symbol.

Ensure that the Central Heating timer is On and that the room thermostat is turned up.

Does the boiler operate and provide central heating?

NO

YES

Check the time settings on the programmer are as you require and adjust if necessary

Contact a Registered Gas Installer (RGII)

NO HOT WATER OR CENTRAL HEATING

Ensure that the mains power is switched on. If there is a boiler symbol on the display then press Mode until Ready or On is shown under the Boiler symbol. If a Radiator symbol is shown on the display then press Mode until Ready or On is shown underneath the Radiator symbol.

Does the boiler have a display showing on the front control panel?

NO

YES

See boiler "Display Functions" section

Contact a Registered Gas Installer (RGII)

DISPLAY FUNCTIONS

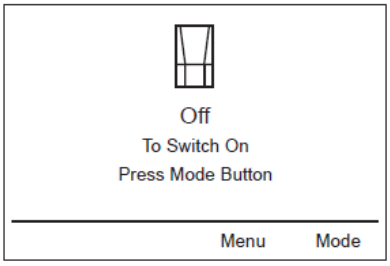
NORMAL OPERATION MODE

NORMAL OPERATION SCREENS

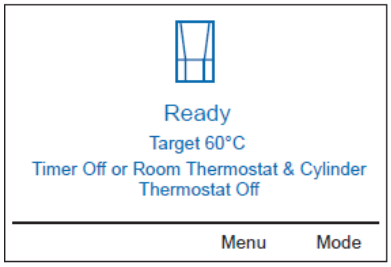
WITHOUT OUTSIDE SENSOR

How to adjust Boiler Temperatures

Off Mode

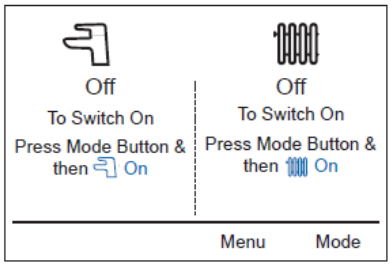


On Mode, No Heat Demand

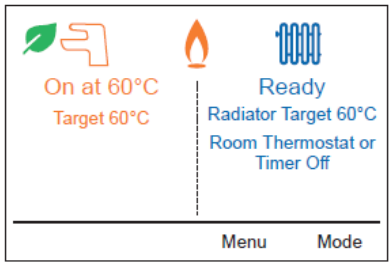


WITH OUTSIDE SENSOR

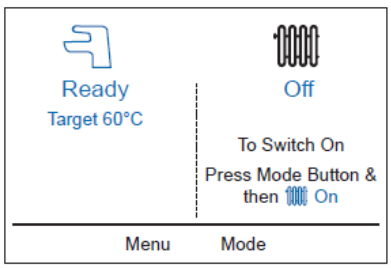
Off Mode



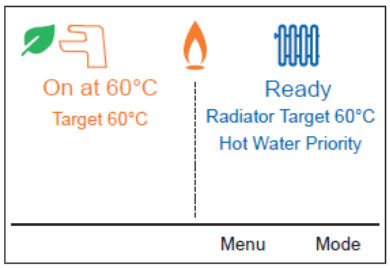
Winter Mode, DHW Demand



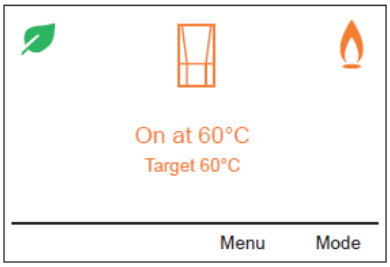
Summer Mode, No Heat Demand



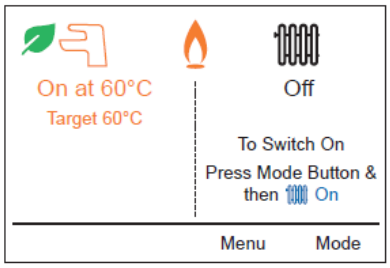
Winter Mode, DHW & CH Demands



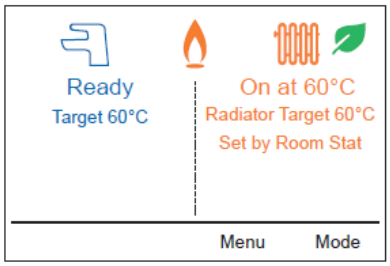
On Mode, With Heat Demand



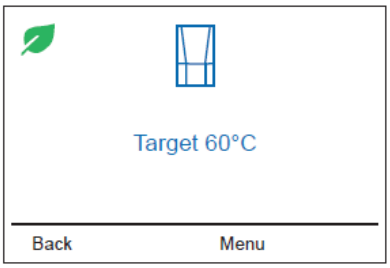
Summer Mode, DHW Demand



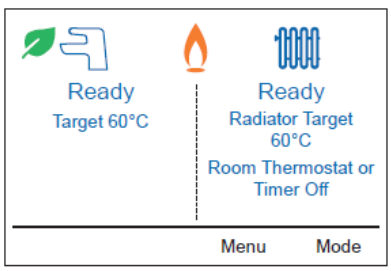
Winter Mode, CH Demand



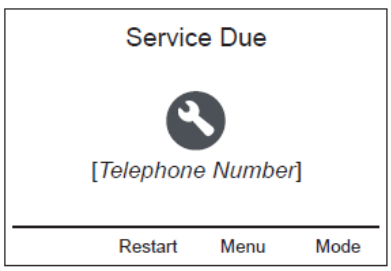
CH Knob Rotated



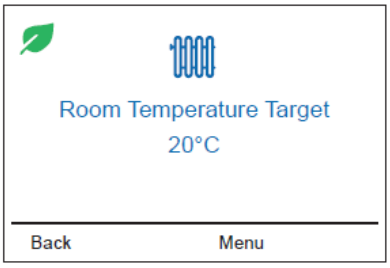
Winter Mode, No Heat Demand



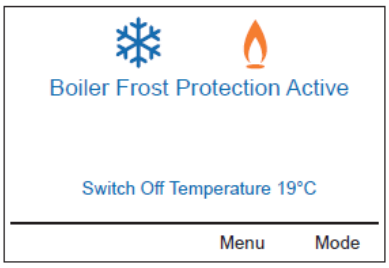
Service Required



Knob Rotated
(outside sensor connected)



Boiler Frost Protection



The display scrolls through a maximum of 3 messages under any operational condition, as shown above

Note.
The temperatures shown below are for illustration purposes only. The measured temperatures will be shown on the boiler.

FAULT MESSAGES

Technical Training
Our Expert Academy offers a range of training options designed and delivered by our experts in heating. For details please visit: **expert-academy.co.uk**.

Ideal Boilers Ltd., pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specifications without notice.

Ideal is a trademark of Ideal Boilers.

Registered Office

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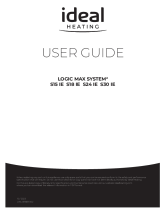
- +33 (0)2 51 44 34 34
- **Ideal Technical & Consumer Helpline:** 00353 (0)1 961 7700
- **Ideal Parts:** 00353 (0)1 961 7700
- idealboilers.ie.

Documents / Resources

	ideal HEATING S15 IE Logic MAX System [pdf] User Guide S15 IE, S18 IE, S24 IE, S30 IE, S15 IE Logic MAX System, S15 IE, Logic MAX System, MAX System, System

References

- User Manual