

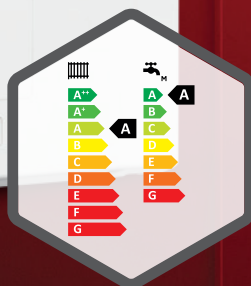


# LOGIC COMBI ESP1.

24 30 35

## HIGH EFFICIENCY COMBINATION BOILERS

Optimised for new build compliance following the SAP 2009/2012 design procedure, the Logic Combi ESP1 achieves improved SAP efficiency scores and is particularly beneficial for new build properties.



### KEY FEATURES

- Easy to see pressure gauge
- Large backlit display with user friendly controls
- Low lift weight (starting from 28.9kg)
- Low component count maximising reliability
- OpenTherm ready
- Complete range of Logic combination boilers for new build developers
- Achieves improved SAP and DER performance for standard combination boiler usage
- 75mm deep translucent condensate siphon
- Fully modulating operation to low outputs
- Automatic bypass

### RELIABLE

- Energy Saving Trust endorsed
- NOx Class 5
- Boiler frost protection
- Built-in, easy to use filling loop
- Simple diverter valve design
- Two stage flame sensing for greater reliability
- Latest generation Honeywell gas valve

### EASY TO INSTALL

- Compact cupboard fit
- Fast fix flues
- Wide range of additional flueing options
- Preformed copper tails
- Easy access to PRV and AAV
- Pre-wired mains lead (2m)
- Universal condensate connection
- Stand off kit including piping available
- Pre-piping kit
- Compatible with a range of additional controls inc. weather compensation
- LPG conversion kit available for 30 kW & 35 kW boilers

### SAP REFERENCE NUMBERS

Logic Combi ESP1 24 017955  
 Logic Combi ESP1 30 017956  
 Logic Combi ESP1 35 017929

### WEATHER COMPENSATION KIT

Part No. 216119

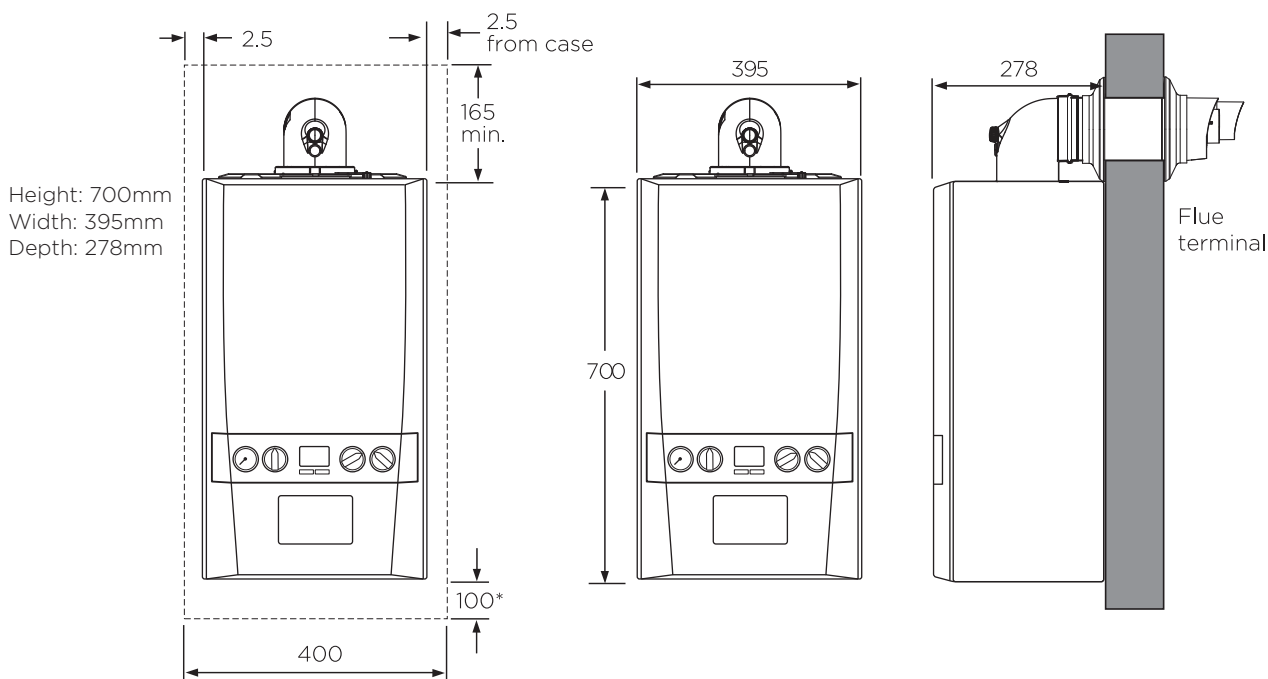
### LPG CONVERSION KIT

Part No. (ESP1 30) 216423  
 Part No. (ESP1 35) 215752



# CLEARANCES & DIMENSIONS.

DIMENSIONS IN MM



**Note:** The minimum front clearance when built in to a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing. \*Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

# TECHNICAL SPECIFICATIONS.

BOILER MODEL	24	30	35
Weight (packaged) kg	33.7	33.8	33.9
Max installation weight kg	28.9	29.0	29.1
CH output (kW) min/max mean 70°C	4.8 - 24.2	6.1 - 24.2	7.1 - 24.2
CH output (kW) min/max mean 40°C	5.1 - 25.6	6.4 - 25.6	7.5 - 25.6
DHW output (kW) max	24.2	30.3	35.3
DHW flow rate l/min. 35°C rise	9.9	12.4	14.5
SEDBUK rating (2005) %	91.1	91.1	91.1
SEDBUK rating (2009/2012) %	89.6	89.6	89.6
NOx classification	CLASS 5	CLASS 5	CLASS 5
Convert to LPG	No	Yes	Yes
Max horizontal flue*	9m	8m	6m
Max vertical flue*	7.5m	7.5m	7.5m
Powered vertical flue†	22m	22m	22m
Condensing boiler	Yes	Yes	Yes
Seasonal space heating efficiency class	A	A	A
Rated heat output kW	24	24	24
Seasonal space heating energy efficiency $\eta_s$ %	94	94	94
Sound power level, indoors L <sub>WA</sub> dB	48	46	44
Water heating energy efficiency class	A	A	A



# USER GUIDE

## **LOGIC COMBI ESP1 24 30 35**

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 [www.idealboilers.com](http://www.idealboilers.com) where you can download the relevant information in PDF format.**

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## 1. INTRODUCTION

The Logic Combi ESP1 range is a combination boiler providing both central heating and instantaneous domestic hot water. Featuring full sequence automatic ignition and fan assisted combustion.

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.

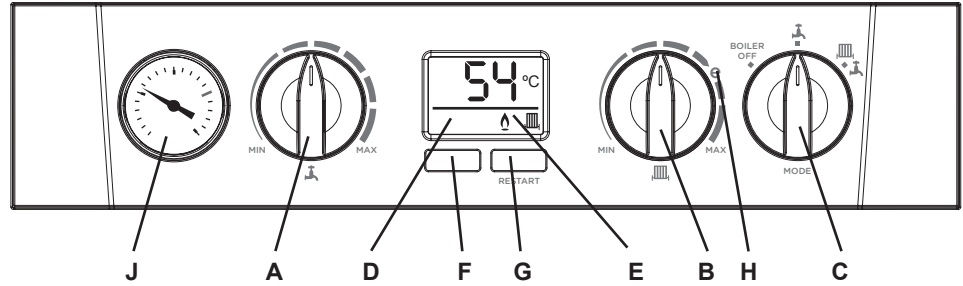
**THE BENCHMARK SERVICE INTERVAL RECORD MUST BE COMPLETED AFTER EACH SERVICE**



## 2. BOILER OPERATION

### Legend

- A. Domestic Hot Water Temperature Knob
- B. Central Heating Temperature Knob
- C. Mode Knob
- D. Boiler Status Display
- E. Burner 'on' Indicator
- F. Installer Function Button
- G. Restart Button
- H. Central Heating Economy Setting
- J. Pressure Gauge



### 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 (C) to 'BOILER OFF'.
3. Set the Domestic Hot Water temperature knob (A) and Central Heating temperature knob (B) to 'MAX'.
4. Ensure that all hot water taps are turned off.
5. Switch on electricity to the boiler and check that all external controls, e.g. programmer and room thermostat, are on.
6. Set the mode knob (C) to '🔥' (winter).

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

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

- Standby - no demand for heat.
- 🔥 Central Heating being supplied
- 🔥 Domestic hot water being supplied
- FP Boiler frost protection  
- boiler will fire if temperature is below 5°C.

During normal operation the burner on indicator '🔥' will remain illuminated when the burner is lit.

Note: If the boiler fails to light after five attempts the fault code L2 will be displayed (refer to Fault Code page).

### OPERATION MODES

**Winter Conditions** - (Central Heating and Domestic Hot Water required)

Set the mode knob (C) to '🔥' (winter).

The boiler will fire and supply heat to the radiators but will give priority to domestic hot water on demand.

**Summer Conditions** - (Domestic Hot Water only required)

Set the mode knob (C) to '🔥' (summer).

Set the central heating demand on the external controls to OFF.

#### Boiler Off

Set the mode knob (C) to 'BOILER OFF'. The boiler mains power supply must be left on to enable frost protection (see Frost Protection).

### CONTROL OF WATER TEMPERATURE

#### Domestic Hot Water

The domestic hot water temperature is limited by the boiler controls to a maximum temperature of 65°C, adjustable via the domestic hot water temperature knob (A).

Approximate temperatures for domestic hot water:

Knob Setting	Hot Water Temperature (approx.)
Minimum	40°C
Maximum	65°C

Due to system variations and seasonal temperature fluctuations domestic hot water flow rates/temperature rise will vary, requiring adjustment at the tap: the lower the flow rate the higher the temperature, and vice versa.

#### Central Heating

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

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 (B) 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 (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 5°C, 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, '❄️', 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 run at a reduced temperature setting. For longer periods, the entire system should be drained.

## BOILER RESTART

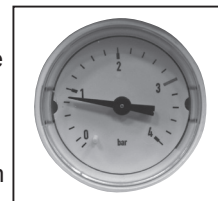
To restart the boiler, when directed in the listed fault codes (see section 8) press the restart button (G). The boiler will repeat its ignition sequence. If the boiler still fails to start consult a Gas Safe Registered Engineer or an IE Registered Gas Installer (RGII).

## MAINS POWER OFF

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

## 3. SYSTEM WATER PRESSURE

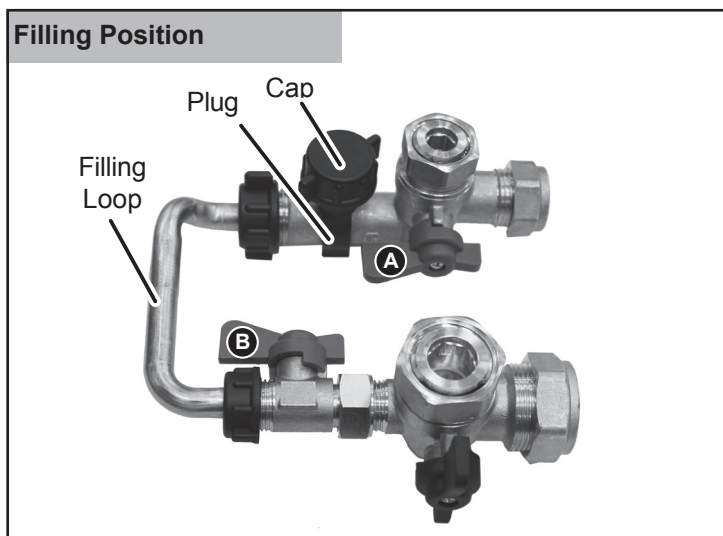
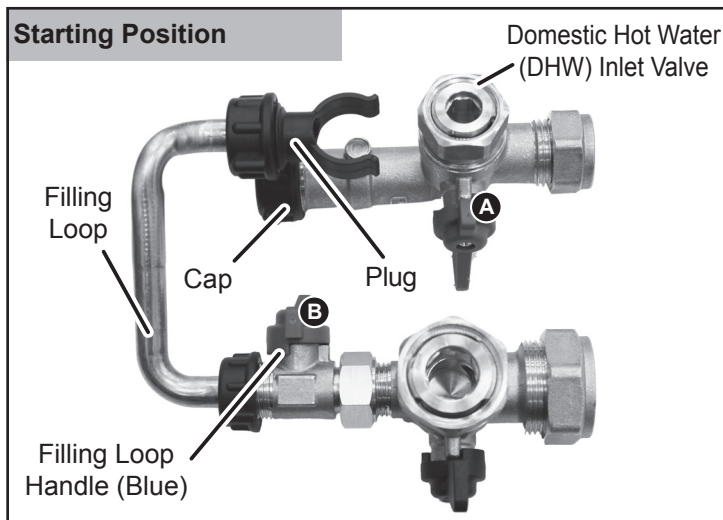
The system pressure gauge indicates the central heating system pressure. If the pressure is seen to fall below the original installation pressure of 1-2 bar over a period of time and continue to fall then a water leak may be indicated. In this event re-pressurise the system as shown below. If unable to do so or if the pressure continues to drop a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGII) should be consulted.



**THE BOILER WILL NOT OPERATE IF THE PRESSURE HAS REDUCED TO LESS THAN 0.3 BAR UNDER THIS CONDITION.**

**To Top up the system :-**

1. Ensure both **A** & **B** handles (blue) are in closed position (as shown below)
2. Remove the plug and cap and retain.
3. Connect the filling loop to the Domestic Hot Water (DHW) inlet and tighten. Also ensure that the other end of filling loop is hand tight.



4. Turn the Domestic Hot Water (DHW) Inlet **A** blue handle to the horizontal position.
5. Ensuring no leaks are seen, gradually turn the filling loop handle (blue) **B** to the horizontal position.
6. Wait for the pressure gauge to reach 1 to 1.5 bar.
7. Once pressure is reached turn valves **A** & **B** back to the closed position.
8. Disconnect the filling loop, replace cap and plug. Note there can be some water spillage at this point.

## 4. 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 Light 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 (B) 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).

## 5. 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 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 enable the system pressure gauge to be visible and to provide the 100mm clearance required for servicing.

### EXPANSION

NOTE. If a water meter is fitted into the incoming water mains there may be a requirement for a domestic hot water expansion vessel Kit. Contact a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGII).

### 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.**

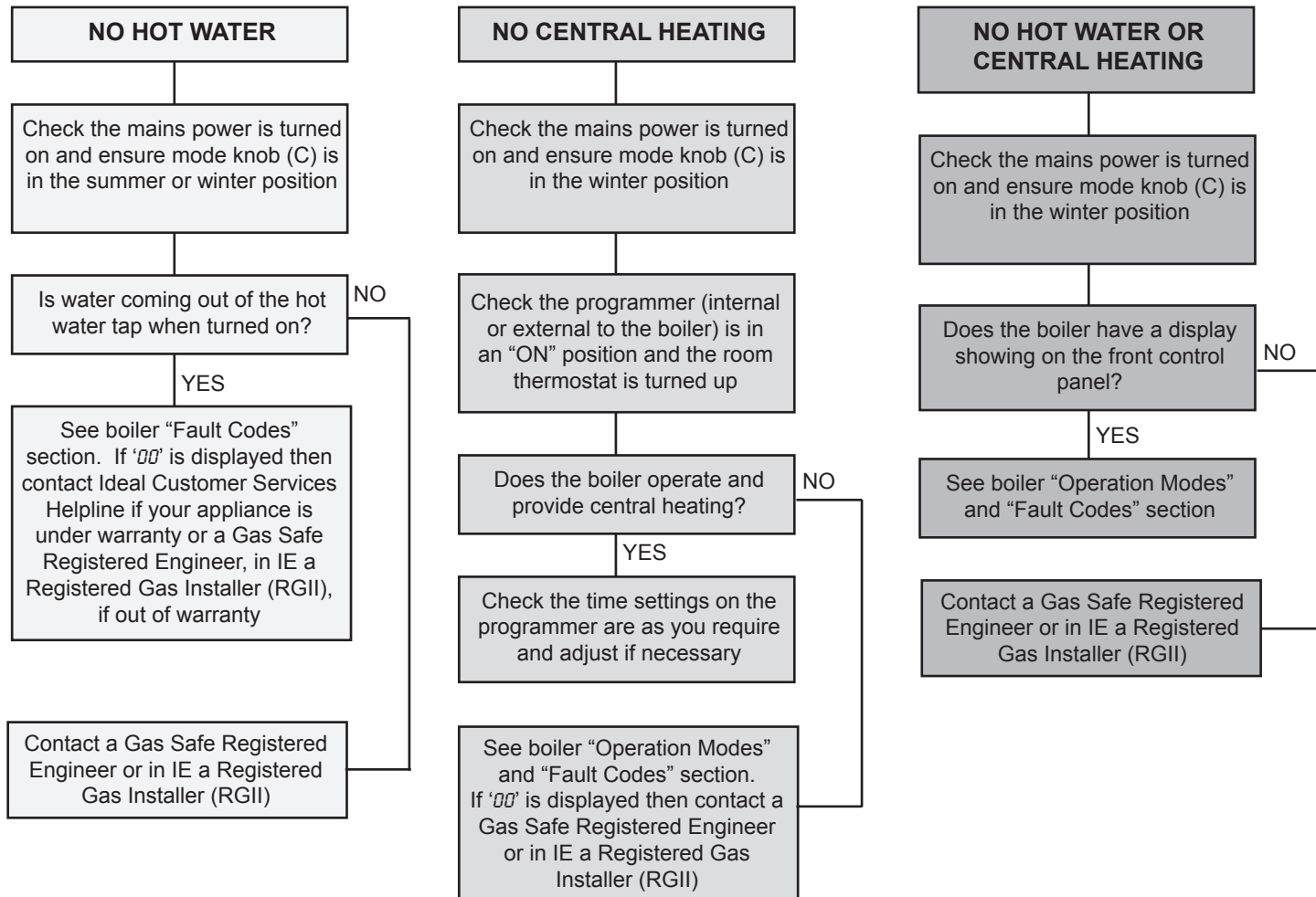
### MAINTENANCE

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

## 6. POINTS FOR THE BOILER USER






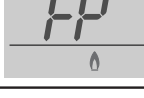

**Note.** In line with our current warranty policy we would ask that you check through the following guide to identify any problems external to the boiler prior to requesting a service engineer's visit. Should the problem be found to be other than with the appliance we reserve the right to levy a charge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

### TROUBLESHOOTING





## 7. NORMAL OPERATION DISPLAY CODES

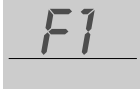










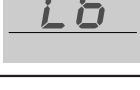



DISPLAY CODE ON BOILER	DESCRIPTION
	The boiler is in standby operation awaiting either a central heating call or hot water demand.
	The boiler has a call for central heating but the appliance has reached the desired temperature set on the boiler.
	The boiler has a call for hot water but the appliance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

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

**NOTE. BOILER RESTART PROCEDURE -**

To restart the boiler press the RESTART button. The boiler will repeat the ignition sequence if a heat demand is present.

## 8. FAULT CODES

DISPLAY CODE ON BOILER	DESCRIPTION	ACTION
	Low Water Pressure	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see Section 3. If the boiler still 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 (RGII).
	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 (RGII).</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 (RGII).
	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 (RGII).
	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 (RGII).
	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 (RGII).
	Low Mains Voltage	Contact a qualified electrician or your electricity provider.
	Unconfigured PCB	Unconfigured PCB. 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 (RGII).
	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 3. 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 (RGII).
	Ignition Lockout	<ol style="list-style-type: none"> <li>1. Check condensate Pipe for blockages (refer to Section 4)</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 (RGII).</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 (RGII).
	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 (RGII).</li> </ol>
	Negative Differential Flow/Return Thermistor	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 (RGII).
	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 (RGII).
	Diverter Valve in mid-position for service	Rotate all knobs fully clockwise, turn boiler power off and on then press restart



## USER GUIDE

**Welcome to your new Ideal Halo control. This thermostat will help you to control both your heating temperature and the times that your heating is on.**

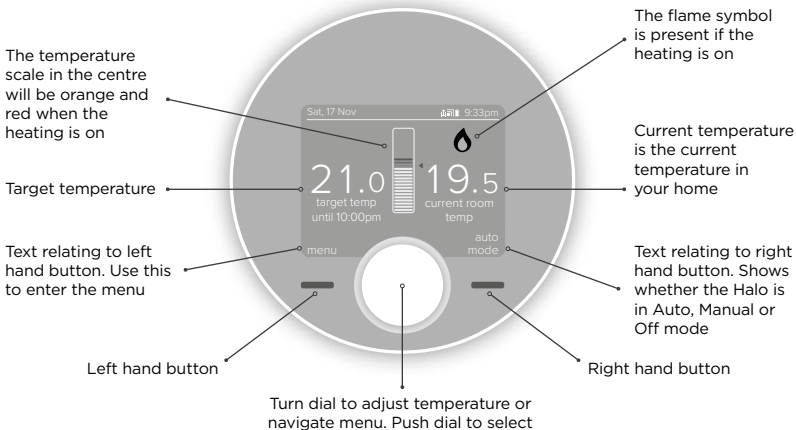
Halo is a battery powered, wireless control that uses a protocol called Zigbee to communicate with the Smart Interface that plugs into the boiler.

This user guide is applicable to both the Halo Combi RF and Halo Combi Wi-Fi control.

Halo Combi RF is a non-connected control (control is via the Halo Combi unit only).

Halo Combi Wi-Fi is a wireless heating control that is connected to the internet. You can download the Halo app on Google Play or the Apple app store. You will not have to pay to use the app.

For more information on the features in your Halo app visit the Help section of the app or [www.idealboilers.com](http://www.idealboilers.com).



If you have purchased a Halo Combi RF (non-connected control) you can upgrade this to an internet heating control by downloading the Halo app and following the steps in the app to connect your Halo control. You will be required to pay a connection fee to upgrade to app controlled heating.

# MAIN FEATURES

## MODE SELECTION

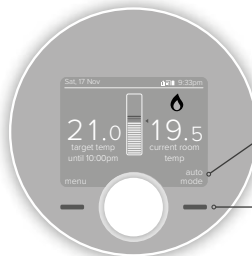
You can choose to run your Halo in Auto, Manual or Off mode.

**Auto:** runs your heating to pre-set scheduled times and temperatures.

**Manual:** you control the temperature by manually turning the dial, there are no set schedules.

**Off:** your heating will be set to a low temperature (default 5°C) for frost protection.

Move between Auto, Manual and Off modes using the right hand side button, scroll down the menu using the dial and push to select.



The current mode is displayed bottom right

Press the right hand button to change the mode



Use the dial to scroll between the different modes (Auto, Manual and Off) and then push the dial or press the right hand button to confirm your selection

## TOP TIP

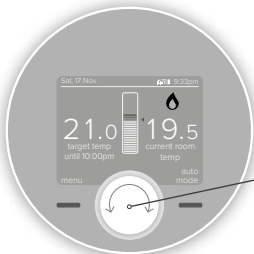
Your Halo is designed to provide the perfect balance of comfort and efficiency. It has a feature called Enhanced Load Compensation which balances the temperature in your radiators to maintain the target room temperature with optimum efficiency. As a result you might notice that when the temperature in your home reaches the target your radiators are not hot to touch. By controlling the temperature in your radiators your system is working in the most efficient way for you.

## MAIN FEATURES

### PLUS HOURS

If you are running a schedule with pre-set times (Auto mode) and you want to maintain the current temperature of your heating instead of moving to the next setting simply press the dial.

A pop up menu will appear for you to select how long you would like to extend the temperature for, turn and push the dial to make your selection.



Push the dial to extend the current heating setting



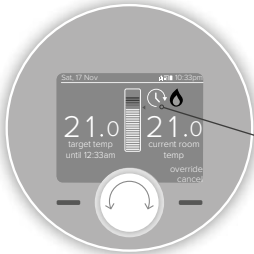
Turn the dial to select how long you would like to extend your heating for

Push the dial or press the right button to confirm your selection

### TOP TIP

You could use this feature if you want to keep your heating on for longer than is scheduled.

Maybe you're not going to work today and you want your heating to stay on all morning.



The home screen will now display the override icon above the current temperature

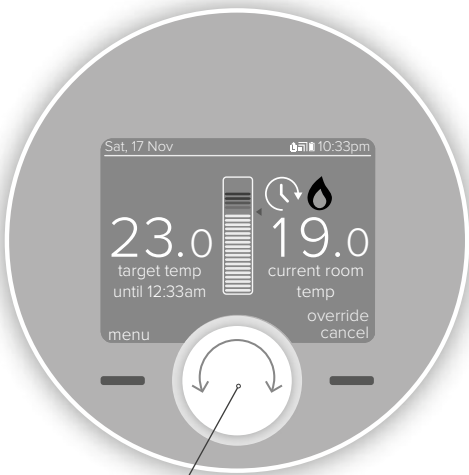
## MAIN FEATURES

### OVERRIDE

If you are running a schedule with pre-set times (Auto mode) and you want to adjust the temperature of your heating temporarily, simply turn the dial to your desired temperature.

The new temperature will be active until the next scheduled change shown under the target temperature.

The home screen will now display the override icon above the current temperature.



### TOP TIP

You could use this feature if you want to boost your heating to a higher temperature for a period of time. Maybe you're feeling chilly or it's the weekend and you're staying up later than when your heating is scheduled.

Turn the dial to adjust the target temperature temporarily (this could be up or down)

# MAIN FEATURES

## SCHEDULES

Your Halo will come with a pre-set schedule:

6:00 - 8:00 21°C

8:00 - 16:00 OFF

16:00 - 22:00 21°C

22:00 - 6:00 OFF

You can alter this schedule by entering the “timed heating schedule” section in the main menu.



Turn the dial to move between the different days and view the schedule that is set. To edit a day, push the dial or right hand button when the day is highlighted in light blue.

## TOP TIP

If you want to change more than one day you can use the copy day feature to copy the schedule from one day to other days.



Push the dial to edit a heating time or temperature when it is highlighted in light blue. You can also add an additional heating period by scrolling and pushing on the “Add new heating event” bar. You can have up to 6 heating events per day in your schedule.

## TOP TIP

Schedules help to balance comfort and energy efficiency, so you are heating your home to suit your lifestyle.

Don't forget you could set your weekend schedules differently to during the week if your routine changes.



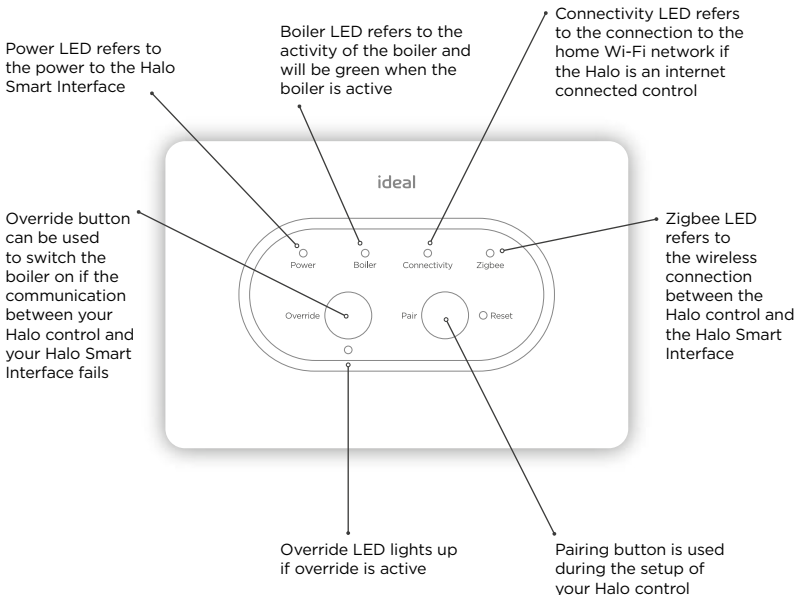
Alter the start and end times of the heating period and the temperature by scrolling and then pushing the dial to edit. Then use the dial to alter the time or temperature and push to confirm. Push the dial or the right hand button to save your changes.



## HALO SMART INTERFACE










The Halo Smart Interface will be installed in the aperture in the front of your Ideal boiler. It will wirelessly communicate with your Halo control and, in the case of an internet connected Halo, your home Wi-Fi. In normal circumstances you will not have to interact with the Halo Smart Interface, however the LED indications can be useful in diagnosing any technical issues that may arise.










The Halo Smart Interface has a Failsafe/Override feature which can be used to switch your boiler on if wireless communication between the Halo and Smart Interface is lost.



## ADDITIONAL FEATURES

<b>Holiday Mode</b>	To temporarily turn your heating off whilst you are on holiday, select the holiday function in the menu and use the dial and buttons to set the number of days.
<b>Support Page</b>	Provides information for your installer or technical expert about your Halo such as software version and wireless signal strength.
<b>Child Lock</b>	To lock the control to avoid it being altered press and hold the left and right hand buttons at the same time until the icon appears. To remove child lock press and hold the left and right hand buttons again.
<b>Date &amp; Time</b>	If the date and time seen across the top of the screen is incorrect you can alter this in the date and time section of the menu.
<b>Advanced Settings</b>	The advanced settings section of the menu allows your installer or a technical expert to make adjustments and find information about your Halo.
<b>Fault Notification</b>	If there is a fault then the fault symbol ⓘ will show on the home screen of your Halo. Press the left hand button to access further information about the fault.

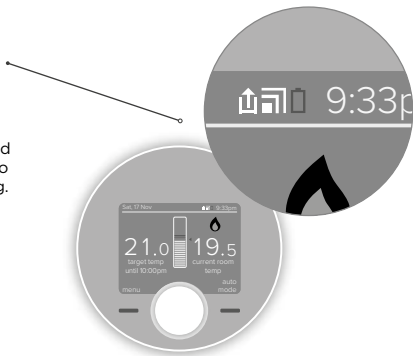
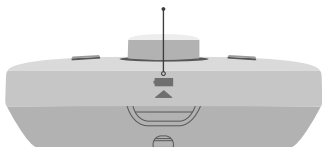
	Name	Explanation
	<b>Flame</b>	Indicates your heating is on
	<b>Fault</b>	Indicates there is a fault with the boiler
	<b>Child lock</b>	Childlock is set so the Halo cannot be altered
	<b>Override</b>	Override or plus hours function is active
	<b>Optimised start</b>	Optimised start is active
	<b>Delayed start</b>	Delayed start is active
	<b>Optimised stop</b>	Optimised stop is active
	<b>Frost protection</b>	Frost protection is active
	<b>Service due</b>	Service due in: - 60 days (grey) - 30 days (amber) - 0 days (red)

	Name	Explanation
	<b>Hi</b>	Room temperature is above 40°C
	<b>Lo</b>	Room temperature is below 0°C
	<b>Target Temp</b>	Temperature you want your heating to reach
	<b>Current Temp</b>	Room temperature in the location of your Halo
	<b>Time</b>	Current time
	<b>Date</b>	Current date
	<b>Battery</b>	Battery status indication
	<b>Zigbee</b>	Indicates that the Halo is communicating with the Smart Interface
	<b>Cloud*</b>	Indicates that the Halo is communicating with internet and can be controlled with the Halo app via your smart phone <b>*Halo Combi Wi-Fi only</b>

## CHANGING THE BATTERIES IN YOUR HALO CONTROL

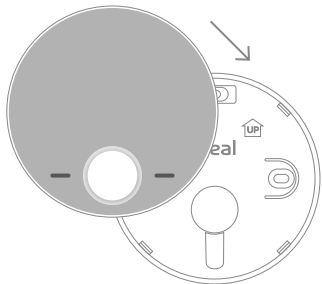
A red, empty battery symbol means that your Halo batteries need to be replaced.

Whether you have a desk or wall mounted unit you will see the battery symbol on the base of the unit. There are also two finger grabs top and bottom as shown below. Use the finger grabs to gently pull the Halo away from the rear housing.



Remove all the old batteries and replace with 4 new AA Alkaline batteries. Check you have the correct battery orientation then position the Halo back onto the rear housing and gently push into place until you feel a positive click.

The Halo will go through a short synchronisation process while it reconnects with your Halo Smart Interface. The Halo will then return to the home screen.



# TROUBLE SHOOTING

## 1. HALO NOT COMMUNICATING WITH HALO SMART INTERFACE

If the below message shows on the Halo screen then it is not communicating with the Halo Smart Interface.



Please follow the on screen recommendations, additionally for further help you can also visit [www.idealboilers.com](http://www.idealboilers.com)

Please note even without a signal between the Halo and the Halo Smart Interface the heating will continue to operate in Failsafe mode. In Failsafe mode the schedule will still operate however the output temperature of the boiler will be reduced.

You can also manually switch your boiler On and Off by using Override button on the Smart Interface. When the Override is pressed it will disable failsafe mode and allow full manual control of the boiler until the connection is restored. When communication is restored both Failsafe and Override modes are disabled.

## 2. BOILER AND CONTROL FAULTS

If the fault icon appears in the home screen it means there is a control or boiler fault. Press the left hand key to view the fault and recommendations.



## 3. LOST PAIRING BETWEEN HALO AND HALO SMART INTERFACE

In the unlikely event that the Halo loses pairing you will see the following screen.



To re-pair go to section E in the Halo Combi installation instructions. You can also find a copy of the installation guide at [www.idealboilers.com](http://www.idealboilers.com)

# WARRANTY

## **Your Ideal Halo comes complete with a 2 year Ideal Guarantee, subject to the following terms and conditions.**

During the period of the guarantee we will replace free of charge, where it suffers a mechanical or an electrical breakdown as a result of defective workmanship or materials, subject to the following conditions and exclusions;

1. The guarantee will commence from the date of installation. Without proof of purchase the guarantee will commence from the date of manufacture (via serial number).
2. The Installation needs to be registered within 30 days of installation, it can be registered online by visiting [www.idealboilers.com](http://www.idealboilers.com).
3. If the control suffers a mechanical or an electrical breakdown we should be contacted on one of the following numbers:

### **Northern Ireland:**

T: 02890 331444

### **Elsewhere in the UK:**

T: 01482 498660

Our normal working times, excluding Bank Holidays, are:

8am – 6pm Monday to Friday

8am – 4pm Saturday

8am – 12 noon Sunday

4. The guarantee does not apply:
  - a. To any defect, damage or breakdown caused by deliberate action, accident, misuse or third party interference including modification or failed batteries.

- b. To any defect, damage or breakdown caused by the design, installation and maintenance of the central heating system.
  - d. To any other costs or expenses caused by or arising as a result of the breakdown of the controls.
  - e. To any defect resulting from the incorrect installation of the controls. To any costs incurred during delays in fixing reported faults.

Our Ideal Guarantee is offered in addition to the rights provided to a consumer by law. Details of these rights can be obtained from a Trading Standards Authority or a Citizens Advice Bureau.

### **Guarantor**

Ideal Boilers Ltd, National Avenue, Hull, HU5 4JN.

### **Consumer Helpline**

T: 01482 498660

Installer phone number:



This product contains free and open source software. For more information about that software, the licences and notices applicable to it, and (where applicable) how to obtain a copy of the source code, please see the licence document, a copy of which can be downloaded from: <https://idealboilers.com/open-source>



Hereby, Ideal Boilers Ltd declares that this device (model 222140 & 222142) is in compliance with: Directive **2014/53/EU**.

The full text of the EU declaration of conformity is available at the following internet address:

**[www.idealboilers.com](http://www.idealboilers.com)**

For more information and FAQs visit the Ideal Boilers website **[www.idealboilers.com](http://www.idealboilers.com)**



RF frequency: 2405 -2480MHz  
Max. RF output power: 10dBm

UIN: 224237 A02

Ideal Boilers Ltd  
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