

USERS GUIDE

LOGIC Combi 24, 30, 35

For installation guide see reverse of book

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.

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

NOTE. BOILER RESET PROCEDURE -

To reset boiler, turn mode control knob to reset position and immediately turn knob back to required setting.

Introduction

The **Logic Combi** is a wall mounted, room sealed, condensing combination boiler, featuring full sequence automatic spark 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.

The **Logic Combi** is a combination boiler providing both central heating and instantaneous domestic hot water.

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 is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

In cases of repeated or continuous shutdown a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGII) should be called to investigate and rectify the condition causing this and carry out an operational test. Only the manufacturers original parts should be used for replacement.

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.

Minimum Clearances

Clearances of **165mm (6 1/2")** above, **100mm (4")** below, **2.5mm (1/8")** at the sides and **450mm (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 5mm.

This must be obtained with an easily removable panel, to enable the consumer to view the system pressure gauge, and to provide the 100mm clearance required for servicing.

To light the boiler. Refer to Frame 1

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

1. CHECK THAT THE ELECTRICITY SUPPLY TO BOILER IS OFF.
2. Set the mains mode knob control (D) to 'Off'.
3. Set the Domestic Hot Water temperature control (B) and Central Heating temperature control (C) to 'max'.
4. Set the preheat control (A) to 'on'.
5. Ensure that all hot water taps are turned off.
6. Switch ON electricity to the boiler and check that all external controls, e.g. programmer and room thermostat, are ON.
7. Set the mode knob control to winter (☔ IIII).

The boiler will commence the ignition sequence, first supplying heat to preheat the domestic hot water and then to the central heating, if required.

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

- D** Standby - no demand for heat.
- C** CH being supplied.
- d** DHW being supplied.
- P** DHW preheat.
- F** Boiler frost protection - boiler will fire if temperature is below 5 degrees C.

During normal operation the burner on indicator (F) 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.

RESET PROCEDURE

To reset boiler, turn the mode control knob (D) to reset position and immediately turn knob back to required setting. The boiler will repeat the ignition sequence. If the boiler still fails to light consult a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGII).

Ideal Stelrad Group 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



Operation

Winter conditions - i.e. CH and DHW required.

Ensure the mode knob control (D) is set to winter (☔ IIII)

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

The DHW preheat will operate as described under 'Summer conditions' during periods when there is no call for CH.

Summer conditions - i.e. DHW only required.

Set the mode knob control to Summer (☔).

Set the CH external controls to OFF.

Preheat will operate with the preheat switch (A) set to ON.

The boiler will fire periodically for a few seconds to maintain the DHW calorifier in a preheated condition. The average time period between firing is 90 minutes. This may vary considerably due to the surrounding ambient temperature of the boiler. The boiler will fire whenever there is a demand for DHW.

The boiler preheat facility can be immobilised by turning the preheat switch (A) to OFF. This will stop the boiler operating for short periods. This facility is primarily provided for boiler installations in a sensitive area (i.e. bedroom etc.)

Note. The pump will operate briefly as a self-check once every 24 hours, regardless of system demand.

Control of water temperature

Domestic Hot Water

The DHW temperature is limited by the boiler controls to 64°C maximum at low draw-off rate, adjustable via the DHW temperature control (B).

Approx. flow temperatures for the boiler thermostat settings are:

Knob Setting	Flow Temperature
Minimum	40°C (104°F)
Maximum	64°C (147°F)

Due to system variations and seasonal temperature fluctuations DHW flow rates/temperature rise will vary, requiring adjustment at the draw off tap : the lower the 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 CH temperature control (C).

The Logic Combi is a high efficiency combination boiler which is most efficient when operating in condensing mode.

The boiler will operate in this mode if the CH temperature control (C) is set to the 'e' position (economy mode). This control should be set to maximum for very cold periods

To shut down the boiler

Set the mode knob control to OFF

To relight the boiler

Repeat the procedure detailed in 'To light the boiler'.

Frost protection

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

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

Boiler Overheat Protection

The boiler controls will shut down the boiler in the event of overheating. Should this occur, a fault code L-1 will be displayed.

Refer to fault chart.

Flame Failure

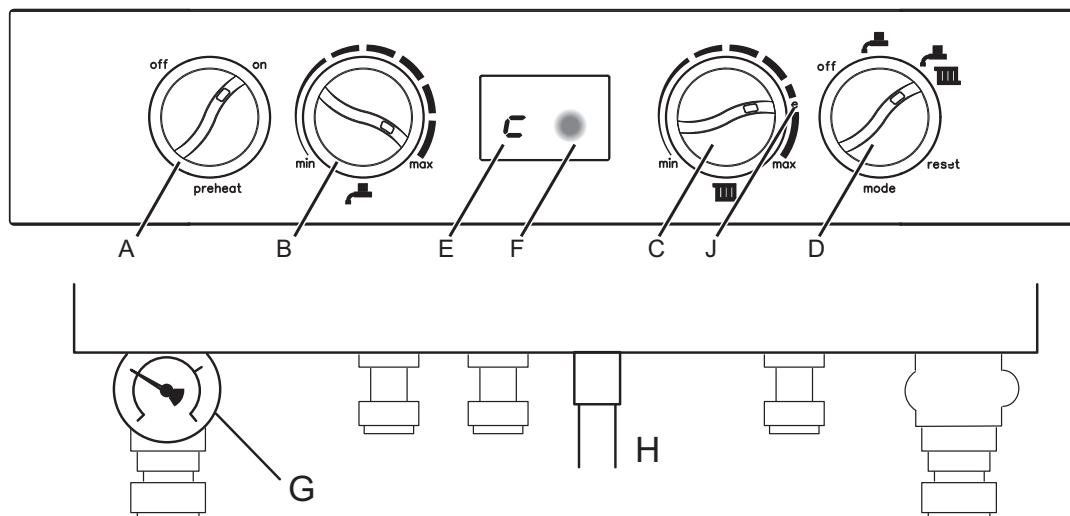
Should this occur a fault code F-2 will be displayed. Refer to fault chart.

continued

1 BOILER CONTROLS

Legend

- | | | |
|----------------------------|--------------------------|---------------------|
| A. Pre-heat On/Off | D. Mode Control | G. Pressure Gauge |
| B. DHW Temperature Control | E. Boiler Status | H. Condensate Drain |
| C. CH Temperature Control | F. Burner 'on' Indicator | J. Economy Mode |

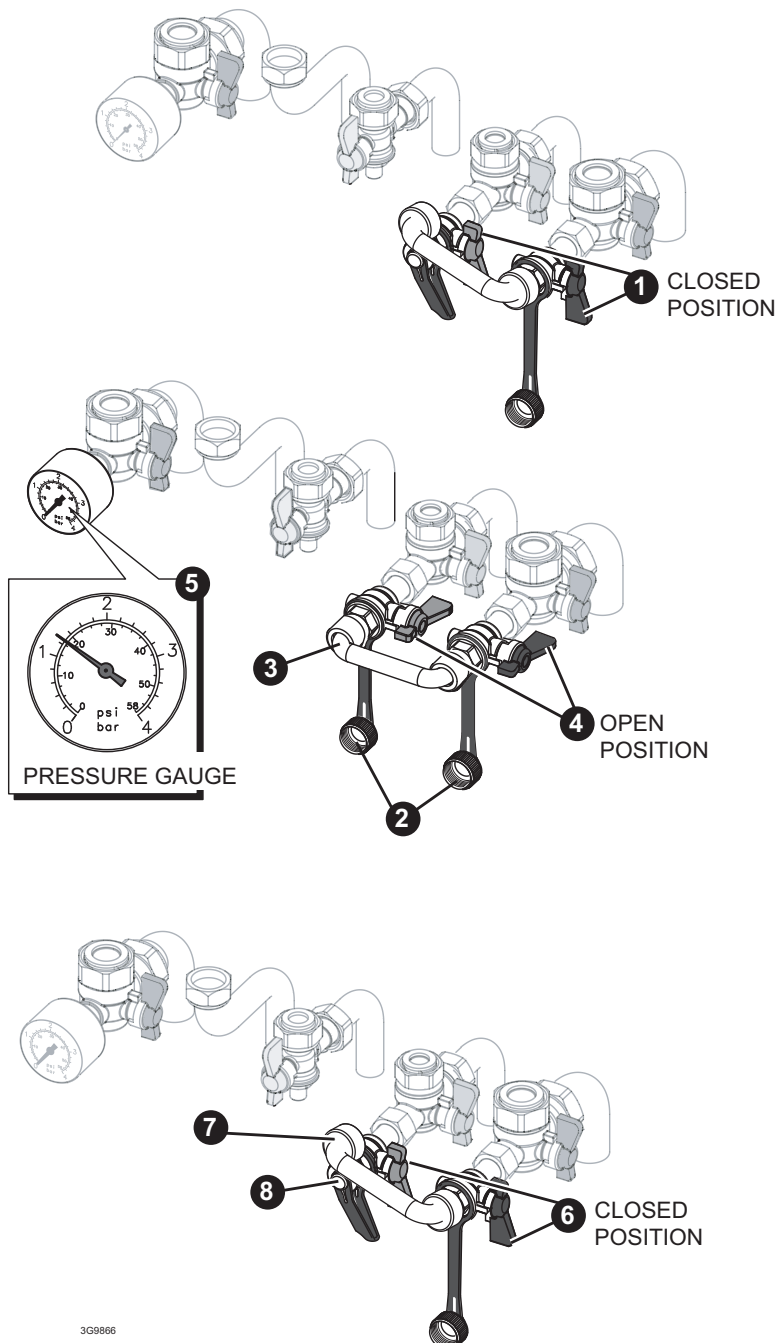


Loss of system water pressure

The gauge (G) 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 then a water leak may be indicated. In this event conduct the re-pressurising procedure 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 (RGI) should be consulted.

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

1. Ensure filling loop isolation valves are closed.
2. Remove the left hand cap.
3. Attach on the filling loop.
4. Turn the filling loop isolation valves to the open position. The system will now fill.
5. Wait for pressure gauge to reach 1 to 1.5 bar.
6. Close the filling loop isolation valves.
7. Disconnect the filling loop at left hand side and angle upwards.
8. Replace cap.



Condensate Drain

The condensate drain (H) must not be modified or blocked.

Blockage of the condensate drain, caused by debris or freezing, can cause automatic shutdown of the boiler.

If freezing is suspected and the pipe run is accessible an attempt may be made to free the obstruction by pouring hot water over the exposed pipe and clearing any blockage from the end of the pipe. If this fails to remedy the problem the assistance of a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGI) should be sought.

Escape of gas

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

DO NOT search for gas leaks with a naked flame.

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

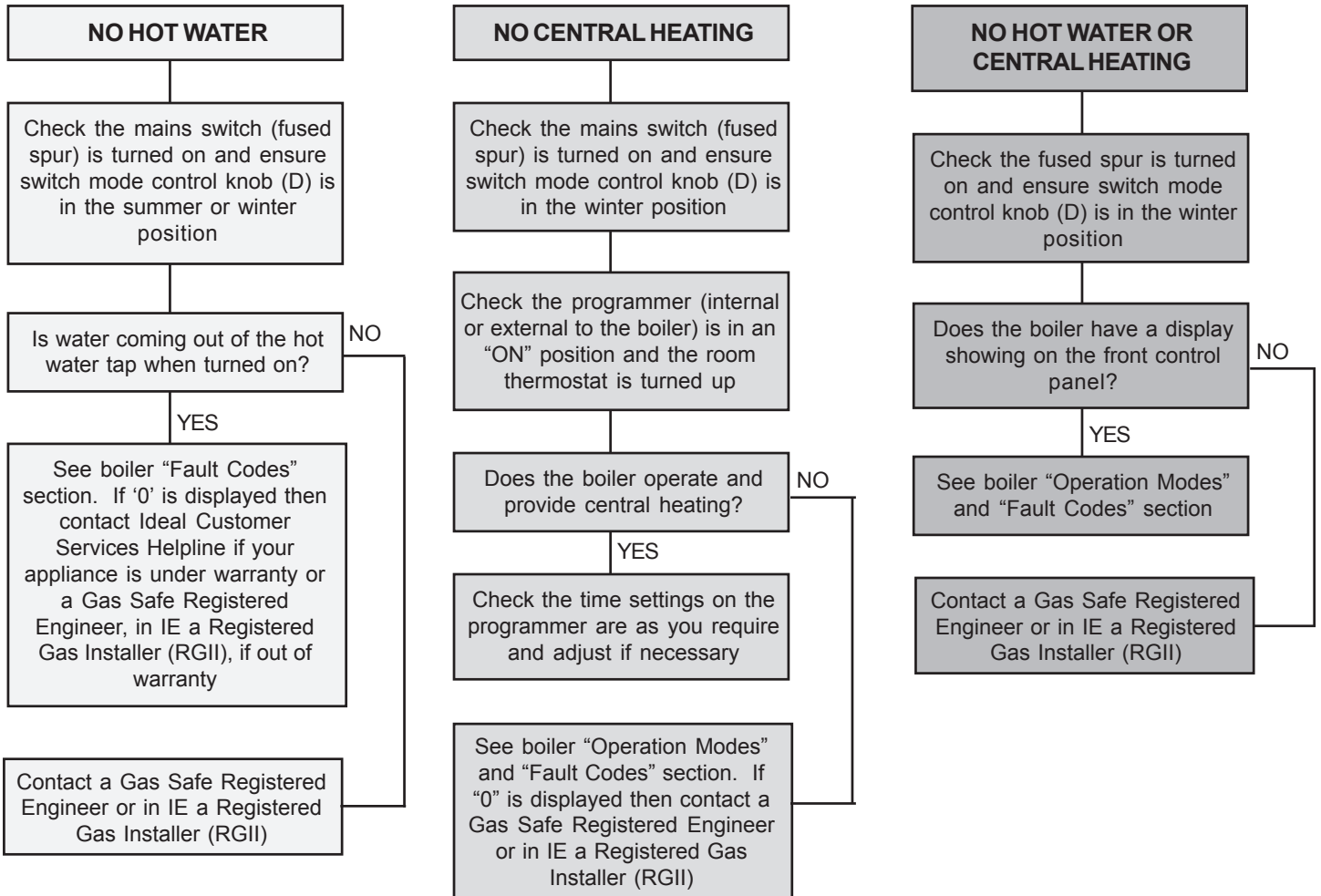
The appliance should be serviced at least once a year by a Gas Safe Registered Engineer or in IE a Registered Gas Installer (RGI).

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POINTS FOR THE BOILER USER







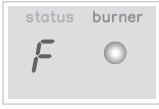
Note. In line with our current warranty policy we would ask that you check through the following guide to identify any problems external to the boiler prior to requesting a service engineers visit. Should the problem be found to be other than with the appliance we reserve the right to levy a charge for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

TROUBLESHOOTING





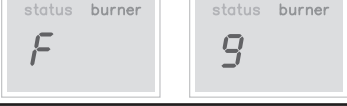

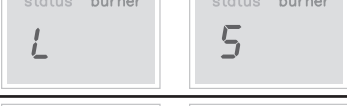


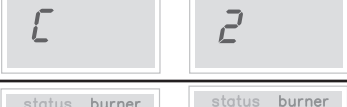



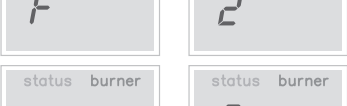




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OPERATION MODES

DISPLAY CODE ON BOILER	DESCRIPTION
	The boiler is in standby mode 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 hot water mode.
	The boiler is operating in pre heat mode.
	The boiler is operating in frost mode.

continued

FAULT CODES

DISPLAY CODE ON BOILER	DESCRIPTION	ACTION
	Outside Sensor Failure	Reset 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).
	No Water Flow Thermistor	Reset 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"> 1. Turn power off and on at the fused spur. 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).
	False Flame Lockout	Reset 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).
	BCC Activation Fault	Reset 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).
	BCC Fault	
	Low Water Pressure	Check system pressure is between 1 & 1.5bar on the pressure gauge. 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 Temperature Overheat	
	No Water Flow	
 	Flame Loss	<ol style="list-style-type: none"> 1. Check other gas appliances in the house are working to confirm a supply is present in the property. 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).
	Fan Fault	Reset 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	Reset 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	Reset 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).



Ideal Consumer Helpline
Tel: 01482 498660
www.idealheating.com

Ideal Stelrad Group pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specification without notice.

Ideal, P.O. Box 103, National Ave, Kingston Upon Hull, HU5 4JN.
Tel. 01482 492251 Fax. 01482 448858. Registration No. London 322 137.



LOGIC Combi GUARANTEE

Your Free Ideal Logic Boiler Guarantee

The terms and conditions of the guarantee are detailed in this leaflet.

Please ensure that you benefit from a longer FREE guarantee period by registering your Ideal boiler within 30 days (please refer to section 2 below). You can do this by completing and returning the guarantee registration form attached FREEPOST or by telephoning the FREE registration number 0800 587 3715.

Terms and Conditions of Ideal's Boiler Guarantee

During the guarantee period we will, at our option, repair or replace your Ideal boiler free of charge where it suffers a mechanical or electrical breakdown as a result of defective workmanship or materials, subject to the following conditions and exclusions:

1. Your boiler must have been installed and commissioned within 12 months of manufacture by a Registered Gas Engineer in accordance with the guidelines in the installation and servicing booklet provided with the boiler. You should also be in possession of a completed Benchmark Commissioning Sheet. In the event this is not available please contact your appointed installer.
2. The guarantee period for your boiler is 12 months (please see section 3 below). If you register your boiler within 30 days of installation the guarantee period will be extended by a further 12 months free of charge (please see section 4 below).

3. The guarantee commences from the date of installation. Without proof of purchase ie. an invoice or completed Benchmark Commissioning Sheet, the guarantee will be taken to commence from the date of manufacture as detailed on the appliance date plate.

4. If you do not register your boiler within 30 days, the standard guarantee period of 12 months will apply.
5. If you suffer a mechanical or electrical breakdown of your boiler you should telephone Ideal Stelfrad Group on one of the following numbers:

Northern Ireland: 02890 331444

Elsewhere in the UK: 01482 498660

Our normal working times, excluding Bank holidays are:

8.00am – 5.00pm Mon – Fri
8.00am – 2.00pm Sat
8.00am – 12.00 Sun

We will arrange for an Ideal engineer, or appointed contractor, to inspect and repair or, where in our sole opinion repair is not economic, arrange to replace your Ideal boiler. Please note:

- a. Engineers will only attend to boiler products where it is considered by the engineer that the installation does not pose a risk to health or safety.
- b. A permanently fixed access ladder must service installations in lofts or attics. Adequate lighting and permanently fixed flooring must also be available.

c. Cupboard installations must provide minimum working clearances as detailed in the installation instructions. Ideal Boilers will not accept responsibility for the removal of cupboards, kitchen units or trims in order to gain access for repairs.

6. Your Ideal Logic boiler must not be removed from its place of installation at your property without our prior consent.

7. We reserve the right to charge a call-out fee where:

- a. you are unable to produce a completed 'Benchmark commissioning sheet', or equivalent control document.
- b. a fault cannot be found with your boiler.
- c. the breakdown or fault has been caused by an event, which is excluded from the guarantee – refer to section 7.
- d. failure to cancel an agreed appointment prior to our engineer's visit.
- e. the boiler is outside the warranty period, refer to section 3.

8. The guarantee does not apply:

- a. To any defect, damage or breakdown caused by inadequate servicing of your boiler or by deliberate action, accident, misuse or third party interference including modification or attempted repair which does not fully comply with industry standards.
- b. To any defect, damage or breakdown caused by the design, installation and maintenance of the central heating system.
- c. To descaling or other work required as a result of hard water scale deposits or from damage caused by aggressive water or sludge resulting from corrosion indications that such work may be required include a noisy boiler, cold spots on radiators, slugged up pipes and poor circulation of the central heating system.
- d. If you do not comply with the claims procedure in the guarantee.
- e. To any other costs or expenses caused by or arising as a result of the breakdown of your Ideal boiler.
- f. To any defect resulting from the incorrect installation of the boiler to the flue system.

9. To any costs incurred during delays in fixing reported faults.

10. If we fit replacement parts or replace your Ideal boiler it will not extend the period of the guarantee. All replaced parts or boilers will become the property of Ideal Boilers.

The guarantee applies only where your Ideal boiler has been installed in a domestic dwelling or other property in mainland United Kingdom, Northern Ireland and I.O.W. to provide heat and/or hot water to the central heating system.

This guarantee is in addition to and does not affect your statutory rights. Details of your statutory rights can be obtained from Trading Standards Authorities or Citizens Advice Bureau.

Guarantor – Ideal Stelfrad Group, P O Box 103, National Avenue, Hull HU5 4JN

Ideal Stelfrad Group, P O Box 103, National Avenue, Kingston Upon Hull HU5 4JN
Telephone 01482 492 251 Fax: 01482 448 858 Registration No. London 322 137



2 YEAR GUARANTEE REGISTRATION FORM

Please refer to the terms and conditions shown opposite.

In order to register for your free 2 year guarantee, please complete all sections below, detach form, and return it to Ideal, Freeport RLXT TZCE TJEC, Homeserve, Cable Drive, Walsall WS2 7BN, or call FREE on 0800 587 3715 quoting reference **1BGX97B**

CUSTOMER DETAILS (Please complete in BLOCK CAPITALS)

TITLE	INITIALS	SURNAME																		
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HOME TELEPHONE (please include the STD code)

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WORK/MOBILE TELEPHONE (please include the STD code)

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HOUSE NUMBER ADDRESS

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TOWN

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

POSTCODE (it is essential to fill in the postcode)

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Do you live in a newly built home under 12 months old?

(please mark with an x)

Yes No

Date of installation

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Are you the homeowner?

Owner <input type="checkbox"/>	Tenant <input type="checkbox"/>
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INSTALLER'S DETAILS (if known)

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INSTALLER'S ADDRESS

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POSTCODE (it is essential to fill in the postcode) TELEPHONE (please include the STD code)

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SUPPLIER'S NAME (if not an Installer e.g. British Gas, Housebuilder etc.)

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PRODUCT DETAILS

Model (e.g. Logic Combi 24)

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Did you purchase a maintenance contract from your Installer?

(please mark with an x) If yes, please give expiry date

Yes <input type="checkbox"/>	No <input type="checkbox"/>																			
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Homeserve Membership Limited will use your information and may pass it on to their service providers, their own group companies and Ideal Stelfrad Group companies, for the purpose of administering your guarantee, training, testing, quality control, research and statistical analysis. We, or they, may also use your information for marketing purposes and, from time to time, may wish to contact you by post, telephone, email or SMS. By submitting this registration form, you will be indicating your consent to receiving marketing messages from Homeserve, its service providers, its group companies or their service providers UNLESS you have indicated otherwise in the service providers tick box. If you do NOT wish to be contacted about other products or services by telephone, please tick this box. If you do NOT wish to be contacted about other products or services by email, please tick this box. If you do NOT wish to be contacted about other products and services by SMS, please tick this box. Your Ideal Free Guarantee is arranged and administered by Homeserve GB Ltd., Cable Drive, Walsall WS2 7BN. Registered in England 2770612



