

# users guide

**isar**

Your Ideal users guide

**m30100**

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.

**i** BOILERS *Ideal*  
ENGINEERED FOR PEACE OF MIND

# isar m30100 (Natural Gas Only)

G.C. Appliance No. 47-348-15

Destination Countries: GB, IE

## Introduction

The **isar** 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 the plastic waste pipe at the lower rear of the boiler. A condensate 'plume' will also be visible at the flue terminal.

The **isar** 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 CORGI registered installer or in IE a competent person, in accordance with the above regulations.

*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.**

Connection must be made in a way that allows complete isolation of the electrical supply such as a double-pole switch, having a 3mm (1/8") contact separation in both poles, serving only the boiler and system controls. Alternatively, a 3-pin UNSWITCHED socket may be used. The means of isolation must be accessible to the user after installation.

## 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 CORGI registered installer or in IE a competent person.
- Flammable materials must not be placed in close proximity to the appliance. Materials giving off flammable vapours must not be stored in the same room as the appliance.
- Under NO circumstances should any of the sealed components on this appliance be used incorrectly or tampered with.

In cases of repeated or continuous shutdown a CORGI registered installer or in IE a competent person 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.

## Minimum Clearances

Clearances of **165mm (6 1/2")** above, **100mm (4")** below, **5mm (1/4")** at the sides and **450mm (17 3/4")** at the front of the boiler casing must be allowed for servicing.

The minimum front and bottom clearance allowed when built into a cupboard is 5mm.

## 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 THE BOILER IS OFF.
2. Set the mains ON/OFF switch (A) to OFF and the DHW thermostat knob (J) and CH thermostat knob (F) to maximum.
3. Ensure that all DHW taps are turned off.

All CORGI Registered Installers carry a CORGI ID card, and have a registration number. Both should be recorded in your **Benchmark** Log Book. You can check your installer by calling CORGI direct on 0156 372 300.

**THE LOG BOOK SHOULD BE COMPLETED AFTER EACH SERVICE AND KEPT WITH THESE INSTRUCTIONS.**



4. Switch ON the electricity supply to the boiler and check that all external controls, e.g. programmer, room thermostat etc., are ON.
5. Set the mains ON/OFF switch to ON.

The mains on neon (B) will illuminate and 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 control unit display (C) will show codes:

- ∩ Standby - no demand for heat.
- c CH being supplied.
- d DHW being supplied.
- £ DHW preheat.

During ignition, the LED (E) will flash.

During normal running the LED (E) will remain illuminated.

**Note.** If the boiler fails to light after 3 attempts the fault code L-F will be displayed.

Press the reset button (D) for 2 seconds then release. The boiler will repeat the ignition sequence. If the boiler still fails to light consult a CORGI registered installer or in IE a competent person.

## Operation

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

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 CH external controls to OFF, or turn the CH thermostat knob (F) to minimum.

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.

**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 65°C maximum at low draw-off rate, adjustable via the DHW thermostat knob (J).

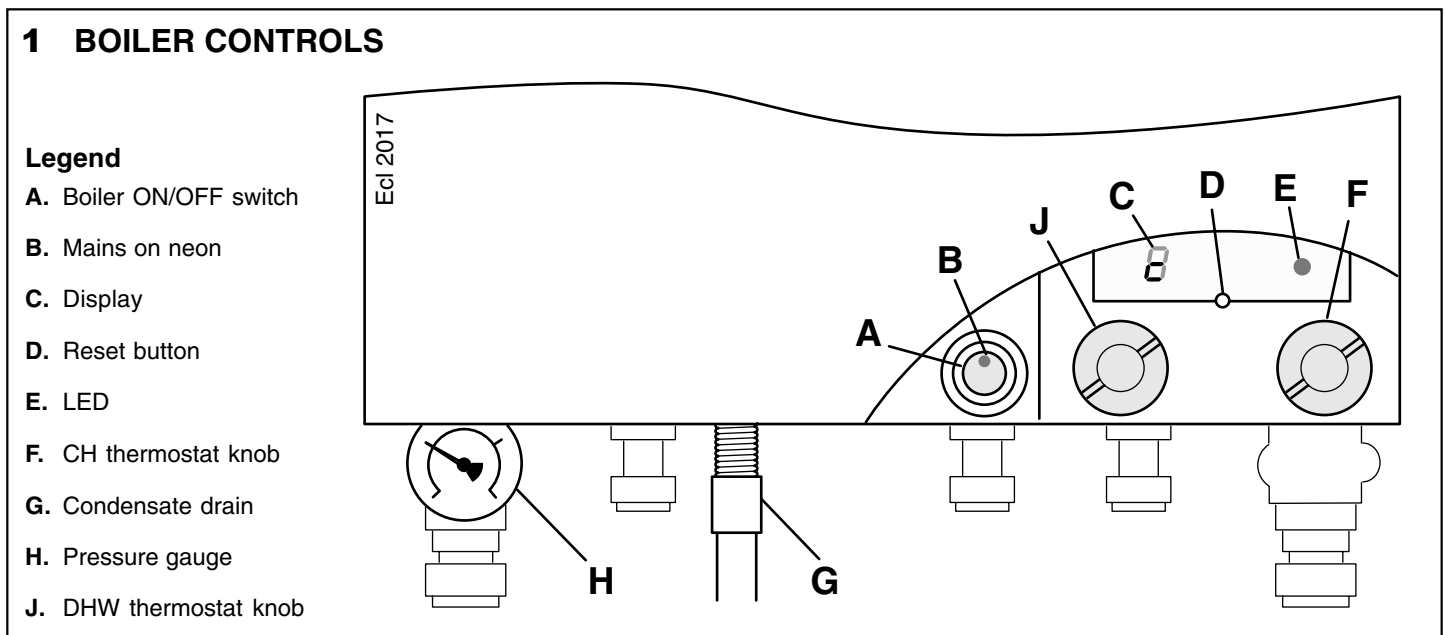
Additionally, the temperature can be controlled by the user via the draw-off tap : the lower the rate the higher the temperature, and vice versa.

### Central Heating

The boiler controls the central heating radiator temperature to a maximum of 82°C, adjustable via the CH thermostat knob (F).

Approx. flow temperatures for the boiler thermostat settings are:

| Knob Setting | Flow Temperature |     |
|--------------|------------------|-----|
|              | °C               | °F  |
| Minimum      | 30               | 86  |
| Maximum      | 82               | 180 |



**CAUTION.** To avoid the possibility of injury during the installation, servicing or cleaning of this appliance care should be taken when handling edges of sheet steel components.

## **To shut down the boiler**

### **1. For short periods**

Set the mains ON/OFF switch (A) to OFF

### **2. For longer periods**

Set the mains ON/OFF switch (A) to OFF, and switch the electricity supply to OFF. For longer periods the entire system should be drained.

## **To relight the boiler**

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

## **Frost protection**

If no 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 thermostat**

This thermostat will shut down the boiler in the event of overheating. Should this occur a fault code  $L\ E$  will be displayed. Press the reset button (D) and the boiler will relight.

If the fault recurs, turn off the boiler and consult a CORGI registered installer or in IE a competent person.

## **Flame failure**

Should this occur a fault code  $L-F$  will be displayed. Press the reset button (D) and the boiler will relight. If the fault recurs, turns off the boiler and consult a CORGI registered installer or in IE a competent person.

## **Loss of system water pressure**

The gauge (H) 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 is indicated. In this event a CORGI registered installer or in IE a competent person should be consulted.

**DO NOT FIRE THE BOILER IF THE PRESSURE HAS REDUCED TO ZERO FROM THE ORIGINAL SETTING.**

## **Condensate Drain**

The condensate drain (G) 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 CORGI registered installer or in IE a competent person should be sought.

## **Escape of gas**

Should a gas leak or fault be suspected contact your local gas supplier without delay.

**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 CORGI registered installer or in IE a competent person.



*The code of practice for the installation, commissioning & servicing of central heating systems*

Caradon Ideal Limited. is a member of the Benchmark initiative 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.



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



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