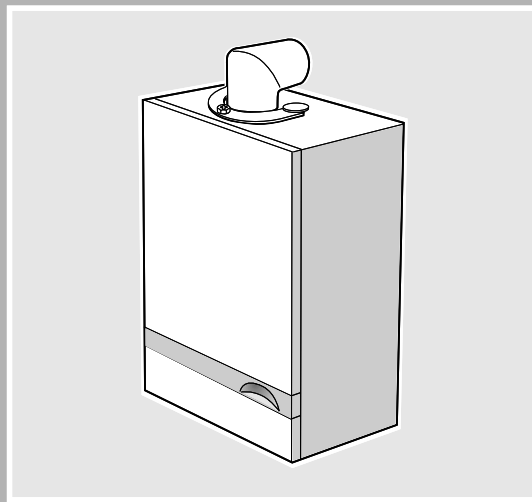


THE IDEAL USERS GUIDE



response

the combi boiler

Wall mounted,
gas fired, fanned flue
combination boiler

Response FF80

i Ideal BOILERS

The **Response** is a wall mounted, fan flued combination boiler, providing both central heating and instantaneous domestic hot water.

Natural Gas Models Only

Response FF80 G.C. Appliance No. 41 415 09

GAS SAFETY (INSTALLATION AND USE) REGULATIONS, 1994.

In your own interest, and that of safety, it is the law that this boiler must be installed by a CORGI registered installer, 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.

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.

ELECTRICITY SUPPLY

This appliance must be connected to the supply via a double-pole switch, fused at 3 A.

MINIMUM CLEARANCES

The minimum clearances given below must be complied with in order to maintain the safe running of the boiler and to facilitate servicing.

Above the turret -	50 mm	(2")
At each side of the boiler -	5 mm	(1/4")
Underneath the boiler casing -	150 mm	(6")
Front of the boiler:		
in use -	5 mm	(1/4")
for service -	450 mm	(18")

IMPORTANT NOTES

1. THIS APPLIANCE MUST NOT BE OPERATED WITHOUT THE INNER FRONT SEALING PANEL BEING CORRECTLY FITTED.

2. Compartment Installations

If the boiler is installed in a compartment then the compartment **MUST NOT** be used for storage purposes.

Ventilation provided for boilers installed in compartments **MUST NOT** be blocked, and a check should be made periodically that the ventilation areas are free from any obstruction.

3. Vertex Flues

If the boiler is fitted with a Vertex Flue Kit then the ventilation in the roof space provided for the boiler during installation **MUST NOT** be blocked, and a check should be made periodically that the ventilation areas are free from any obstruction.

A minimum space of 300 mm (12") radius around the air inlet **MUST** remain unobstructed at all times.

4. 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.

TO LIGHT THE BOILER (see illustration on page 3)

Summer Conditions - Domestic Hot Water Only

1. Set the mains switch (C) to '1'.
2. Set the heating switch (D) to '0'.

Whenever domestic hot water is drawn off, the boiler will fire to provide instantaneous hot water at the tap.

Winter Conditions - Central Heating & Domestic Hot Water

1. Set the mains switch (C) to '1'.
2. Set the heating switch (D) to '1' and external controls button to ON.

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

CONTROL OF WATER TEMPERATURE

Domestic Hot Water

The domestic hot water draw-off temperature is normally limited by the modulating gas control to approximately 60 °C at the minimum water draw-off rate of about 3.5 litre/min. (0.75 g.p.m.).

Additionally, the draw-off temperature is controlled by adjusting the flow rate at the tap - the higher the draw-off rate, the lower the temperature.

CAUTION

In common with most combi boilers, the **Response** can produce water at over 80°C when serving central heating. If, therefore, you run a hot tap when the boiler has been heating the radiators, the first pint or so flowing from the boiler to the hot taps could be uncomfortably hot. **Always run hot water into the sink or basin first - DO NOT PUT YOUR HANDS under a running tap if the boiler was already hot.**

Central Heating

The boiler modulating control automatically maintains the central heating radiator temperature between 85 °C and 70 °C via the variable central heating temperature control (G).

If your system includes a room thermostat the CH temperature control (G) may be left in its maximum position.

If your household includes very young or elderly people you may, however, reduce this setting, for safety reasons.

TO SHUT DOWN THE BOILER

Set the mains switch (C) to OFF.

When heating is again required, restore the switch to the ON position.

WARNING.

If no frost protection is provided and frost is likely during a short absence from home, leave the heating controls (or control (G) at a reduced temperature setting.

For longer periods, the entire system should be drained - including the domestic water supply.

If the system includes a frost thermostat then, during cold weather, the boiler should be turned OFF by selecting the OFF programme at the time control.

The mains supply should be left switched ON.

If in doubt, ask your installer.

NOTE TO THE INSTALLER: LEAVE THESE INSTRUCTIONS WITH THE HOUSEHOLDER

TO RELIGHT THE BOILER

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

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 use a damp cloth and mild detergent.

DO NOT use abrasive cleaning materials.

MAINTENANCE

The appliance should be serviced at least once a year by a CORGI registered installer.

IMPORTANT

Draining the System

It is *not* good practice to drain off radiators to decorate behind them. In the case of sealed system boilers, such as this **Response**, this will lower the system pressure **AND MAY CAUSE THE BOILER TO STOP WORKING**.

FAULTS

A. NO HEATING OR HOT WATER

Check that gas and electricity are available at the boiler and that all switches are on.

Check that the system water pressure gauge (H) reads at least 0.5 bar and that the low system pressure warning light (E) is OFF.

Check that the overheat thermostat has not tripped - press button I to reset.

If these simple checks fail to solve the problem consult your service engineer.

B. HOT WATER BUT NO HEATING

Check that the programmer and room thermostat (if fitted) are both calling for heat.

If the boiler has been switched off *completely* for some time the pump may have stuck (if hot water is in use this should *not* happen as the pump runs for 5 seconds at the end of each hot water draw-off).

A sharp tap on the metal body of the pump may free it.

If these simple checks fail to solve the problem consult your service engineer.

C. HEATING BUT NO HOT WATER

Check that *cold* water does flow out of the hot taps at a minimum rate of 3.5 litres per minute (or 1 pint in 10 seconds or less). If not, look for stop valves not fully open.

If these simple checks fail to solve the problem consult your service engineer.

BOILER CONTROLS

LEGEND

A 'Mains on' neon

B 'Burner on' neon

C Mains switch

D Heating switch

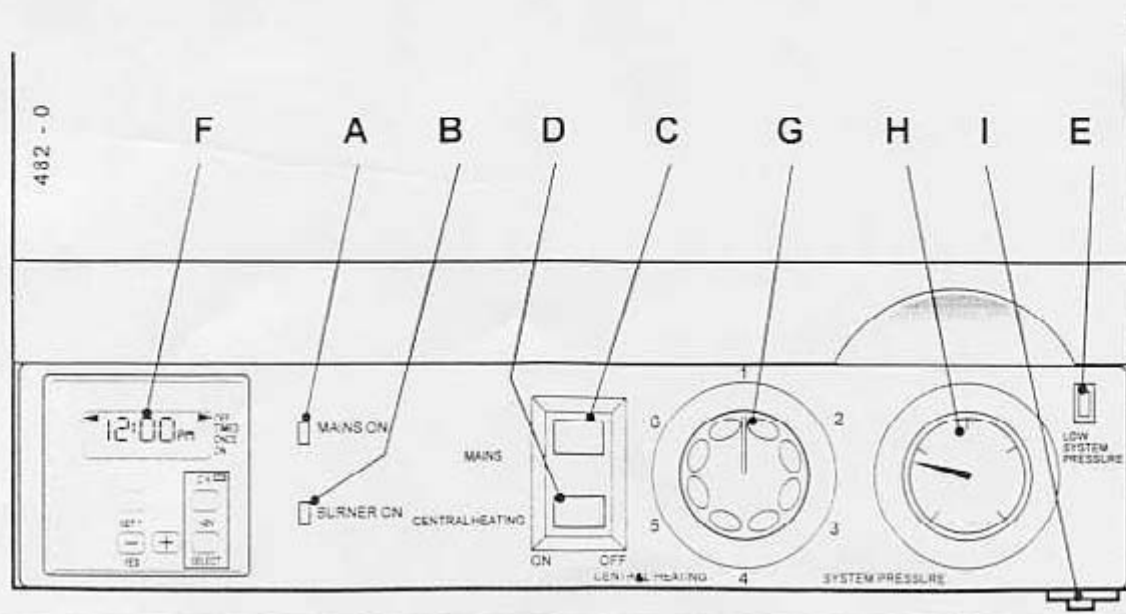
E 'Low system pressure' warning light

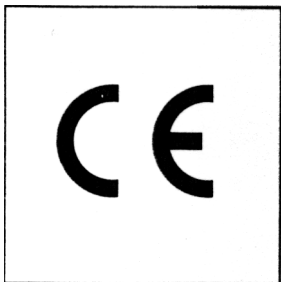
F Programmer (optional)

G Radiator temperature control

H System water pressure gauge

I Overheat thermostat reset





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

CARADON IDEAL Ltd.
P.O. Box 103, National Avenue,
Kingston upon Hull, HU5 4JN.
Registration No. London 322 137.
Registered Office: National Avenue,
Kingston upon Hull, HU5 4JN.
A subsidiary of Caradon p.l.c

Telephone: 01482 492 251

Fax: 01482 448 858.

Ideal Care Helpline

Tel: 01482 498 603

April 1997 138 391 A03

***i* Ideal** BOILERS

Printed in England