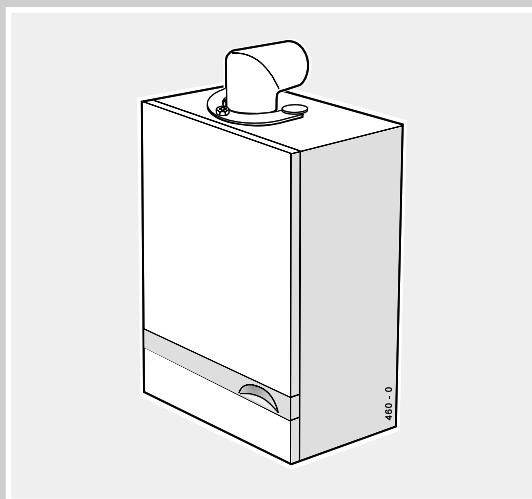


# THE IDEAL USERS GUIDE



*response 80*

the combi boiler

*response 100*

the combi boiler

*response 120*

the high flow combi

Wall mounted,  
gas fired, fanned flue  
combination boiler

*i* BOILERS  
*Ideal*

## ***Response: The combi boiler***

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The Ideal Response is a wall mounted, fanned flue combination boiler which serves a home's central heating system and delivers hot water on demand. It has been designed to be 'friendly' to the user, installer and service engineer.

## ***Response: The fit anywhere combi***

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### ***Simple fanned 'go anywhere' flue***

The Response's flue turret simply rotates through 360° to allow horizontal outlet in any direction. Options include horizontal flue length extensions or simple vertical flue kits - and the flue is self-sealing, eliminating the need for outside assembly - an important benefit in high-rise applications.

### ***Downward or upward connections...***

Water and gas connections have been designed to be as simple and fast as possible. The Ideal Response comes complete with a rugged mounting frame which can accommodate downward or upward routed gas, water and electrical connections before the boiler is fitted.

### ***...and it fits inside a cupboard***

Its compact size - up to half that of other combis - makes the Response ideal for any kitchen. It can be installed inside a standard size kitchen wall unit without insulation and with minimal ventilation.

## ***Response: The combi you can rely on***

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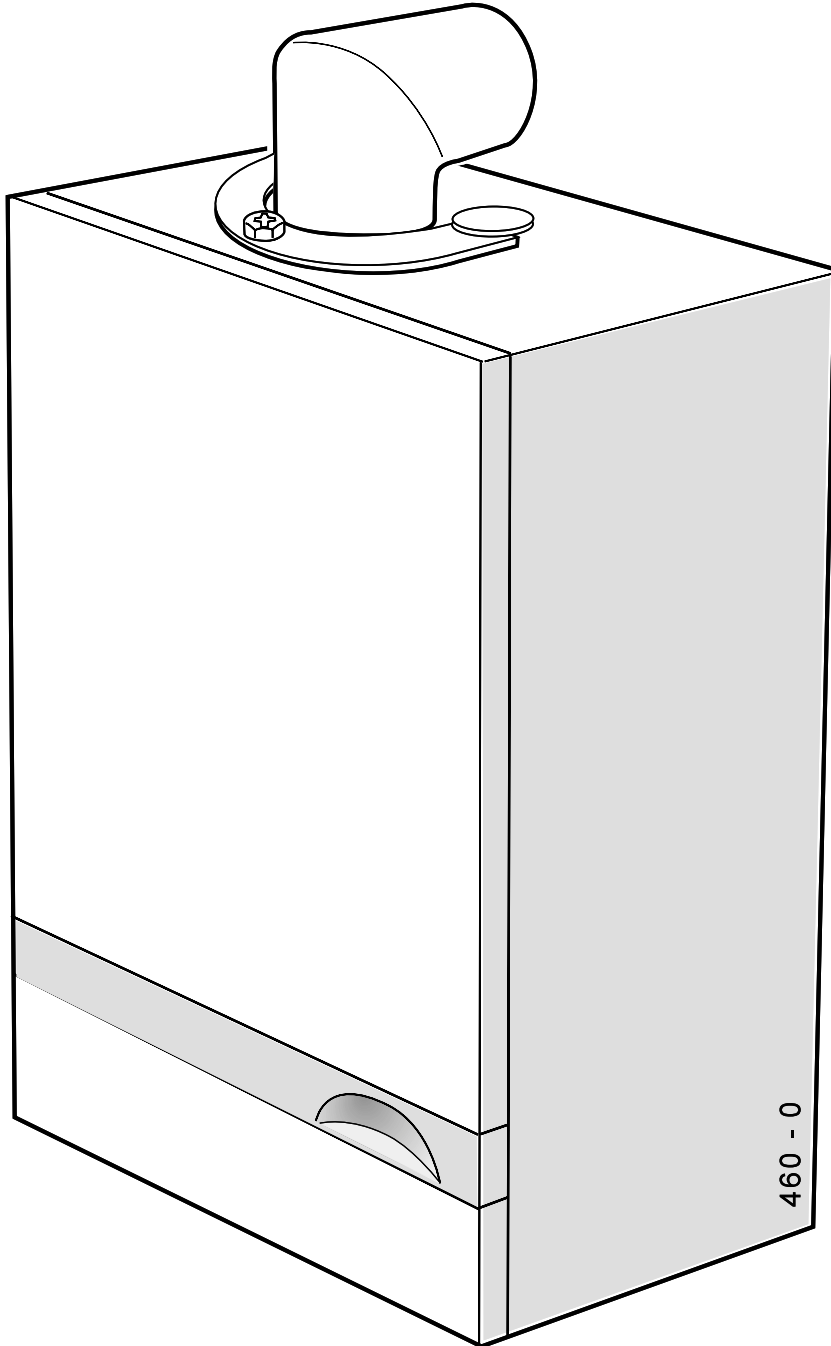
The Response has been designed and developed with reliability as the number one priority. But even the finest engineered product may develop a fault at some stage in its lifetime. To support the Response we've created the Ideal Care Guarantee which sets out our target to repair any fault next day.

### ***Free Guarantee: 1st Year Ideal Care***

The home owner is entitled to 12 months free Ideal Care, which includes both parts and labour, to restore the boiler to full function. Please encourage the home owner to complete and return the registration form in their Householder's pack within 30 days of installation.

### ***Optional Extra Year Cover with Ideal Care***

You may wish to offer your own annual service plan or you may wish to advise the home owner to complete their application form for the appropriate level of extended Ideal Care - Silver, Gold or Platinum. Full details are available in the Ideal Care brochure.



**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.

## Safety

### Gas Safety (Installation and Use) Regulations 1994, Amendments 1996 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, 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.*

*Tampering with sealed components or incorrect use of the boiler will invalidate the boiler guarantee.*

### 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:		
in use -	10 mm	(3/8")
for service -	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. 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.

## 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.

## 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 (F).

If your system includes a room thermostat the CH temperature control (F) 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 light the boiler* (see illustration right)

#### Summer Conditions - Domestic Hot Water Only

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

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



## 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 (F)) 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.

## To relight the boiler

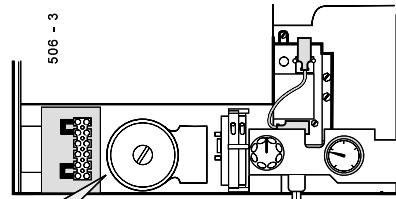
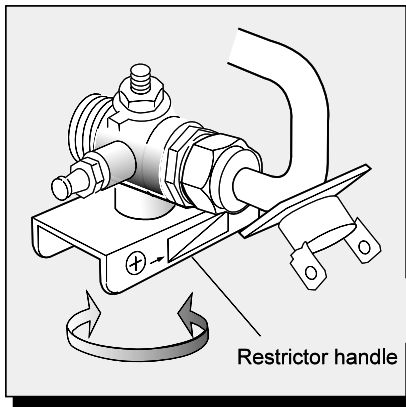
Repeat the procedure detailed in 'To light the boiler'.

## 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 (G) reads at least 0.5 bar.



Rotate the restrictor handle anti-clockwise to increase temperature and clockwise to decrease temperature as indicated on the handle.

### Note.

Small movements of the handle will only be necessary to effect the water temperature change required.

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

Check that the overheat thermostat has not tripped - press button (H) to reset.

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

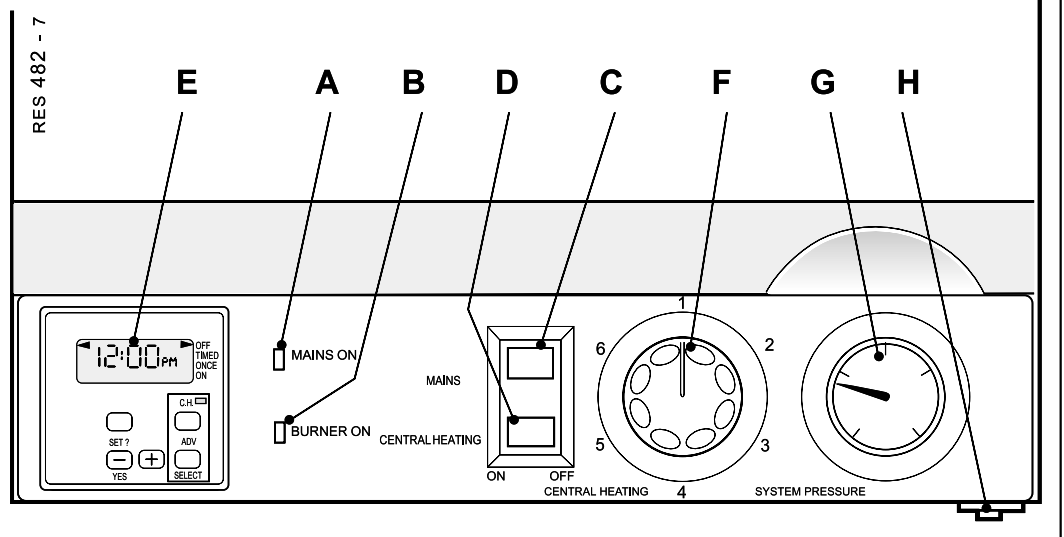
### D. Hot water temperature incorrect

If the supply of hot water from the appliance is incorrect with the domestic hot water tap fully open then the Response boiler includes a domestic hot water restrictor handle for you to adjust the water flow rate to obtain the temperature you require. The restrictor handle is located beneath the boiler on the left.

## BOILER CONTROLS

### LEGEND

- A 'Mains on' neon
- B 'Burner on' neon
- C Mains switch
- D Heating switch
- E Programmer (optional)
- F Radiator temperature control
- G System water pressure gauge
- H Overheat thermostat reset





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

Caradon Plumbing 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.

**Caradon Plumbing Ltd**, P.O. Box 103, National Ave, Kingston upon Hull, HU5 4JN. Telephone: 01482 492 251 Fax: 01482 448 858. Registration No. London 322 137.

**Caradon Plumbing 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.

May 2001

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***i*** **BOILERS**  
***Ideal***

***Ideal Consumer Helpline Tel: 01482 498 660***

***Your feedback***  
***and your chance to win a free boiler***

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At Ideal we've been leaders in the design and engineering of robust and reliable boilers for over 90 years. We want to continue as leaders by listening to your suggestions for how to improve our boilers and our service. We'll be giving away a free boiler for the five best ideas every year (to be selected by our Technical Director). Please complete this form, using extra sheets if required, and post it or fax it to us on 01482 498699.

***Boiler details***

Model / Size (e.g. Classic RS 230, Mexico CF 3/60 etc. Details on control panel door)

Date of Installation

***Installer details***

Name

Address

Post Code

Telephone (Please include STD code)

***How I would improve this boiler:***

***My general comments for Ideal:***

**Caradon**   
**Plumbing Solutions**

***Ideal Consumer Helpline Tel: 01482 498 660***

## Further information

If you would like information about Ideal Boilers please complete this sheet and fax it to us on 01482 498699 or post it to Caradon Plumbing Ltd, PO Box 103, National Avenue, Kingston upon Hull, HU5 4JN.

Name

Address

Post Code

Telephone (Please include STD code)

- Please send me details of Ideal Training Courses.
- Please arrange for a technical representative to contact me.
- Please arrange for me to join an Ideal factory tour.

- The Ideal Guide: a specifier's and installer's introduction to the Ideal domestic boiler range.
- The Ideal Householders Guide: to assist the installer when presenting to his/her customers.

- The Ideal C class combi boiler
- The Ideal Classic wall hung boiler
- The Ideal Classic System wall hung boiler
- The Ideal Classic LX Deluxe wall hung boiler
- The Ideal Mexico floor standing boiler
- The Ideal Minimiser heat-saving boiler
- The Ideal Response combi boiler
- The Ideal Response SE super efficiency combi boiler
- The Ideal Systemiser SE super efficiency system boiler
- The Ideal Concord high output boiler
- The Ideal Buccaneer oil fired boiler

**Caradon**   
**Plumbing Solutions**

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