

User's Instructions

Alpha HE CB25/33 and HE SY25

**Wall Mounted, Fan Assisted, Room Sealed, Gas Fired,
High Efficiency Condensing Boiler Range**

For Technical help or for Service call ...

ALPHA HELPLINE

Tel: 0870 3001964

Alpha
BOILERS

Nepicar House, London Road,
Wrotham Heath, Sevenoaks,
Kent TN15 7RS

British Gas
Service Listed



Alpha HE CB25 G.C. No. 47 532 25
Alpha HE CB33 G.C. No. 47 532 26
Alpha HE SY25 G.C. No. 41 532 07



For use with Natural Gas only

Leave these instructions with the User

1 DESCRIPTION

The Alpha HE Range of boilers are wall mounted, fan assisted room-sealed boilers. The HE CB25 and HE CB33 are combination boilers providing both central heating and domestic hot water at mains pressure. The HE SY25 is a system boiler providing heating only for sealed central heating systems.

The Alpha HE CB25 and HE SY25 boilers are suitable for central heating loads of between 14.5 and 25.0 kW (49 500 and 85 300 Btu/h).

The Alpha HE CB33 boiler is suitable for central heating loads of between 19.7 and 33.2 kW (67 200 and 113 300 Btu/h).

The boilers will provide central heating (as required) during the 'on' times set on your clock (if fitted).

HE CB25/33 only - Hot water is always available whenever a hot tap is opened and takes priority over the central heating.

The burner is lit electronically and the heat output is controlled by a modulating gas valve.

2 USER CONTROLS

Pull the controls panel cover forward and down to gain access to the controls (if applicable).

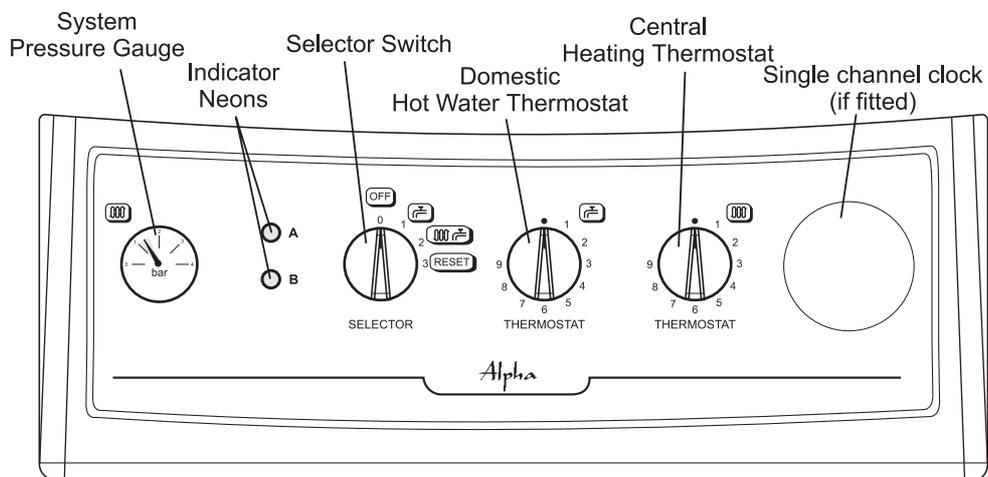


Fig. 1a - Alpha HE CB25/33

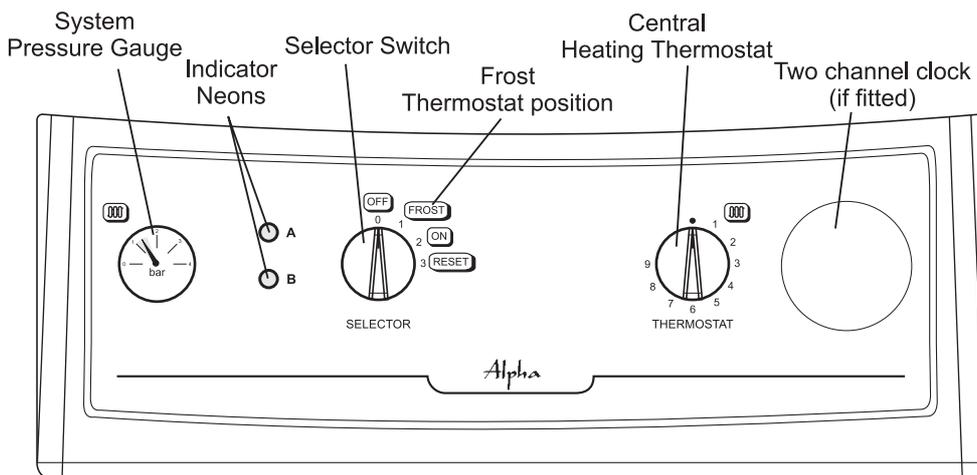


Fig. 1b - Alpha HE SY25

3 BOILER CONTROLS

1. CENTRAL HEATING THERMOSTAT

This thermostat controls the temperature of the water leaving the boiler for the heating system. For maximum output from the radiators the thermostat should be turned fully clockwise i.e. maximum output. If lower heating temperatures are required, turn the thermostat anti-clockwise.

2. DOMESTIC HOT WATER THERMOSTAT - HE CB25/33 only

This thermostat controls the temperature of the domestic hot water leaving the boiler. For maximum hot water temperatures the thermostat should be left at maximum i.e. fully clockwise. If lower temperatures are required, turn the thermostat anti-clockwise.

3. SELECTOR SWITCH

This control allows the boiler to provide central heating and hot water **or** hot water **only**.

Note: The internal clock and frost thermostat will not operate when the switch is in the vertical position, i.e. 'Off' position (0).

4. PRESSURE GAUGE

This indicates the central heating system pressure. It should always be within the green band when cold, increasing slightly when hot.

If the pressure falls below the green band, i.e. lower red area, refer to the label on the inside of the hinged control panel cover for guidance on re-pressurising the system. Or contact your Installer to have the system checked and pressurised.

Note: The bleeding of radiators will cause the pressure to fall and the system will require re-pressurising after doing so.

5. INDICATOR NEONS

When neon A (red) and neon B (yellow) are illuminated, the following conditions apply:-

Neon

- B** Flashing very slowly (every 5 seconds) - Electricity supply to the boiler is on.
- B** Illuminated continuously - Burner is alight.
- B** Flashing on and off - Temperature sensor fault, contact your Service Engineer.
- A** Flashing on and off - Overheat or flue thermostat has operated. Rotate selector switch to the reset position (3) to reset. If this continues to happen, contact your Service Engineer.
- A** Illuminated continuously - Burner has failed to light. Rotate selector switch to the reset position (3) and the ignition sequence will restart after a delay of about 30 seconds.
- A and B** Flashing on and off at the same time - Blocked flue or fan fault, contact your Service Engineer.
- A and B** Flashing on and off alternately - System pressure is very low and re-pressurisation is required.
- A** Illuminated continuously and **B** flashing - Pump fault or restricted flow.

6. OVERHEAT THERMOSTAT

This thermostat automatically switches the boiler off in the unlikely event of the boiler overheating. When the thermostat operates, the red neon (A) flashes on and off. Rotate the selector switch to the reset position (3) and the boiler will relight.

If this continually happens, contact your Service Engineer.

7. PRESSURE RELIEF VALVE

If the central heating system overheats and steam or water is discharged from the pipe connected to this valve, turn the boiler off and contact your Service Engineer. Your Installer should have shown you where this pipe terminates, usually outside your dwelling.

8. FROST THERMOSTAT

The boiler has a built-in frost thermostat, which automatically operates the boiler if the water temperature falls below 8°C, providing the electrical supply is on and the selector switch is set to position (1) or position (2).

4 LIGHTING INSTRUCTIONS

Refer to Fig. 1a or 1b for boiler controls.

1. Ensure the following:-
 - a. Electrical supply to the boiler is off.
 - b. All heating controls and thermostats are set to OFF or minimum position.
 - c. All isolation valves at the bottom of the boiler are in the open position (slot on the spindle in line with the valves i.e. ).
 - d. The gas and water supplies are on at the mains.
 - e. The heating system pressure is within the green band as shown by the pressure gauge.
2. Switch on the electrical supply to the boiler.
3. Set any room thermostats to maximum and ensure that any clock is in an 'on' position.
4. **HE CB25/33 only** - Set the selector switch to  (hot water only).
5. **HE CB25/33 only** - Turn the hot water thermostat fully clockwise. Open a hot water tap, the main burner will light and the boiler will provide hot water. Close the tap and the burner will go out.
6. Set the selector switch to position (2) and turn the heating thermostat fully clockwise, refer to Section 3.1. The main burner will light and the boiler will provide central heating.
7. Set the boiler thermostats, clock, external controls i.e. room thermostat to your chosen settings and the boiler is ready to operate.

To turn the central heating off i.e. in Summer:- Set the selector switch to position (1).

To turn the boiler off for short periods:- Set the selector switch to position (1).

Note: In this position the pump will automatically operate for 5 minutes in every 24 hours. If the water temperature falls below 8°C the built-in frost thermostat will operate the boiler automatically until the temperature of the water in the heating system has been raised.

To turn the boiler off for longer periods:- Switch off the electrical supply to the boiler. If required, all supplies i.e. gas, water and electricity may be turned off at the mains. If there is any possibility of the boiler being left during frost conditions, then the boiler and system should be drained and a label attached to the boiler drawing attention that the system has been drained. If this is required, contact your Service Engineer.

5 BOILER OPERATION

The operating sequence of the boiler is controlled by the selector switch on the control panel. When the HE CB25/33 selector switch is set to  (hot water only) the boiler will only operate to provide domestic hot water, ideal for Summer use when central heating is not required.

With the selector switch set to position (2) the boiler will operate to provide central heating and for the HE CB25/33 hot water as well.

HE CB25/33 only - If the boiler is operating to provide central heating and a hot water tap is opened, the boiler will automatically switch over to provide hot water. Such an interruption in the central heating should not generally be noticed by any reduction in room temperature.

Note: If a clock is fitted to the HE CB25/33 boiler, it will only control the operating times of the central heating. Hot water will always be available when a tap is opened. If a two channel clock is fitted to the HE SY25 boiler it will control the operating times of the central heating and hot water.

When the selector is set to position (2), it will respond to a demand for heat in the following sequence:-

- a. The pump will start, the fan will operate at full speed and the main burner will light.
- b. The output of the burner is automatically controlled to suit the system demand.
- c. When the temperature of the system water in the boiler reaches that set by the thermostat or the room thermostat is satisfied, the main burner is turned off and the fan stops after 20 seconds. The pump will continue to run to remove any residual heat from the boiler.
- d. **HE CB25/33 only** - When a hot tap is opened, the boiler automatically senses a flow of water. The pump will start, the fan will operate at full speed and the main burner will light.
- e. **HE CB25/33 only** - The boiler will continue to supply hot water at the temperature set by the thermostat until the tap is closed.

6 HOT WATER USE - HE CB25/33 only

The supply of hot water is almost instantaneous at the boiler, but the time taken to reach a tap and the temperature at which it leaves the tap will depend on the rate at which the water is drawn off and the length of the pipe between the tap and the boiler.

Fully opening a hot tap may not always provide the maximum temperature as the flow rate may be too high, try closing it slightly until the maximum temperature is achieved.

Depending on your mains water pressure, it may not be possible to operate several hot taps at the same time.

7 USING A SHOWER - HE CB25/33 only

Thermostatic or pressure equalising type - When using these types of shower set the boiler domestic hot water thermostat to maximum. The shower should then maintain a relatively constant temperature.

Manual bath mixer type shower - When using this type of shower set the boiler domestic hot water thermostat to setting 7. This should avoid excessive temperatures at the shower.

Note: If you get unacceptable temperature variations with this type of shower, then a thermostatic or pressure equalising type should be used.

8 IMPORTANT NOTES

1. BOILER LOCATION

Always ensure the following clearances are available around the casing of the boiler:-

Top: 220 mm, Bottom: 250 mm, Each side: 5 mm, Front: 450 mm

Do not store any other articles in the cupboard containing the boiler and never place any clothing or combustible material on or near the boiler or flue pipe.

2. FLUE TERMINAL

The terminal on the outside wall must not be allowed to be obstructed. If it is damaged, in any way, turn the boiler off and contact your Service Engineer.

Note: The Alpha HE boilers are high efficiency boilers and when operating vapour will be emitted from the terminal. This is safe and quite normal.

3. MAINS FAILURE

In the event of an electrical supply failure the boiler will not operate. When the supply is restored, the boiler will return to normal operation. Remember to reset the clock when the supply is restored.

HE CB25/33 only - If the mains water supply fails, there will be no hot water from the taps. The boiler will continue to provide central heating.

4. ADDITIONAL BATHROOM FITTINGS - HE CB25/33 only

Any equipment such as mixing valves, showers, bidets etc. must be designed to operate at mains water pressure. Contact your plumbing merchant or installer for advice when considering purchasing such items.

5. CLEANING

Use only a damp cloth and mild detergent to clean the boiler outer casing. Do not use abrasive cleaners.

6. SERVICING

To maintain efficient and safe operation of your boiler, routine annual servicing is essential.

For advice on servicing contact:- The Alpha Helpline: 0870 3001964

7. GAS LEAK

If a fault or gas leak is suspected, turn off the gas supply. Do not touch any electrical switches, do not smoke and extinguish all naked flames. Contact your local Gas Region immediately.

8. ELECTRICAL SUPPLY

The boiler requires a 230/240 V ~ 50 Hz supply, fused at 3 A if a 13 A 3-pin plug is used or a 5 A fuse if any other type of plug is used.

To connect a plug:-

The colour of the wires in the mains lead of the boiler may not correspond with the coloured markings identifying the terminals in your plug. In this case proceed as follows:-

The wire coloured green and yellow must be connected to the terminal in the plug that is marked with the letter **E**, or by the earth symbol \perp , or coloured green or green and yellow.

The blue wire must be connected to the terminal which is marked with either the letter **N** or coloured black.

The brown wire must be connected to the terminal which is marked with the letter **L** or coloured red.

THE APPLIANCE MUST BE EARTHED.

9 GAS SAFETY REGULATIONS

Current Gas Safety (Installation and Use) Regulations:-

It is the law that all gas appliances are installed and serviced by a competent person, i.e. CORGI registered personnel. Failure to install or service appliances correctly could lead to prosecution. It is in your interest and that of safety to ensure compliance with the law. The manufacturer's instructions must not be taken in any way as over-riding statutory obligations.

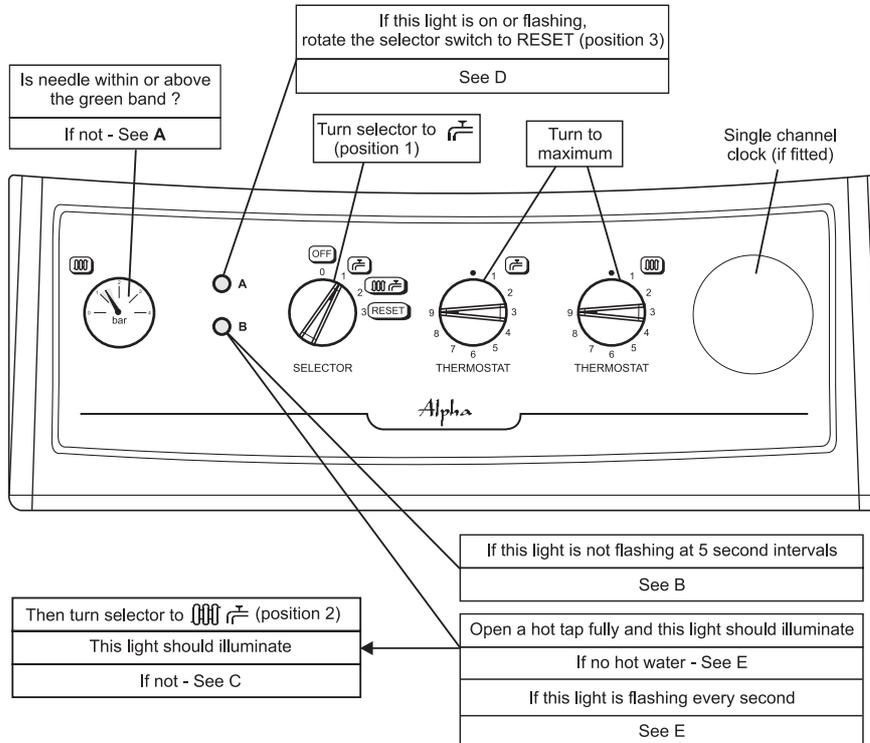
The Benchmark Checklist must be fully completed by the installer on installation and commissioning of the boiler. The Benchmark Checklist is shown in Section 12, page 43, of the Installation and Servicing instructions. All CORGI registered installers carry a CORGI ID card and have a registration number. Both should be recorded in the Checklist. You can check your installer is CORGI registered by calling CORGI on 01256 372300.

10 FAULT FINDING FOR THE USER

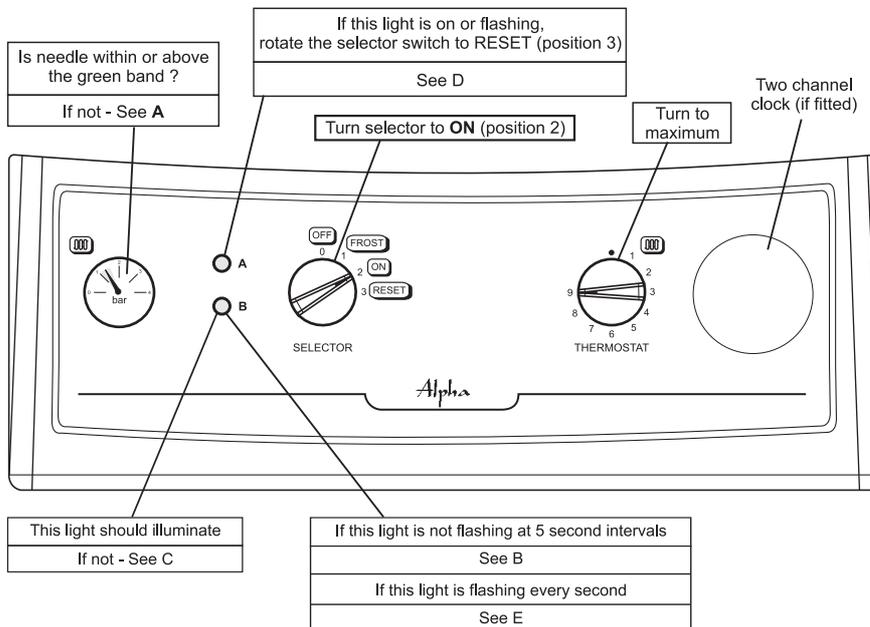
If you experience a problem of no heating or hot water, try to solve the problem by following the simple checks below before calling out a service engineer.

Pull the controls panel cover forward and down to gain access to the controls.

Alpha HE CB25/33



Alpha HE SY25



- A - Where applicable, refer to the label on the inside of the hinged cover for guidance on repressurising the system. Or contact your installer. Or
- B - Check that the electrical supply to the boiler is on. If so
- C - Check that all controls are calling for heat, i.e. room thermostat, clock. If so
- D - Check that the gas supply is on. If the light continues to come on after resetting
- E - Contact the Alpha Helpline

**Ring the
Alpha Helpline Service
Tel: 0870 3001964**

You will be asked the Serial No. of your boiler when you ring.

The Serial No. of the boiler is on the inside of the hinged cover, or underneath the control panel



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*These instructions have been carefully prepared but we reserve the right to alter the specification at any time in the interest of product improvement.
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