



# Eden X Type VBX 18 & 30

## USER INSTRUCTIONS

TO BE GIVEN TO THE USER



0086  
EC 87/BP/35

G.C. Appliance No. 41-260-15 [Eden VBX 18]

G.C. Appliance No. 41-260-14 [Eden VBX 30]

G.C. Appliance No. 41-260-18 [Eden VBX 18 Propane]

G.C. Appliance No. 41-260-17 [Eden VBX 30 Propane]

OPEN VENT CONDENSING BOILER



## 1 INTRODUCTION

The **Halstead Eden VBX 18/30** and **Eden VBX 18/30** Propane are high efficiency condensing, fully automatic, wall mounted gas appliances for use with natural gas or propane.

The appliances incorporate a microprocessor based, fully modulating pre-mix gas control system with direct burner ignition.

The **Eden VBX 18** provides central heating at outputs between 5.9 kW (20,100 BTU/h) and 19.3 kW (65,900 BTU/h).

The **Eden VBX 30** provides central heating at outputs between 8.2 kW (28,000 BTU/h) and 32.1 kW (109,500 BTU/h).

The **Eden VBX Propane** versions are similar in performance but uses propane instead of natural gas.

Heat output is controlled according to demand in both domestic hot water and central heating modes by the fully modulating pre-mix burner control. The appliance always gives priority to domestic hot water supply (if connected to the provided tank sensor connection).

The appliance incorporates frost protection which is active even when the control knob is set to 'standby'. However this is not operational when the main switch on the appliance is in the off position, or the electrical supply to the appliance is isolated.

### Gas Consumer Council

The Gas Consumer Council (GCC) is an independent organization which protects the interests of gas users. If you need advice, you will find the telephone number in your local directory under 'Gas'.

## 2 SAFETY

Read these user manual instructions or the user label (fitted inside the lower decorative front panel) carefully before attempting to operate the appliance. Comply with all applicable warnings. Do not interfere with any sealed components and use the appliance only in accordance with these instructions.

### 2.1 CURRENT GAS SAFETY (INSTALLATION AND USE) REGULATIONS OR THE RULES IN FORCE

It is the law that all gas appliances are installed by a competent person in accordance with the above regulations. Failure to install appliances correctly could lead to prosecution. It is in your own interest, and that of safety, to ensure that the law is complied with. If the appliance is damaged, turn off the appliance and consult a CORGI registered installer. If it is known or suspected that a fault exists on the appliance it **MUST NOT** be used until the fault has been rectified by a competent person.

### 2.2 ELECTRICAL SUPPLY

**This appliance must be earthed.**

Supply: 230V - 50Hz fused at 3A. The method of connection to the mains supply must facilitate complete isolation of the appliance. Either a 3A fused three pin plug and unswitched shuttered socket outlet, or a 3A fused double pole switch having a 3 mm contact separation in both poles, serving only the boiler (and its external controls), may be used.

### 2.3 CLEARANCES AND VENTILATION

It is not necessary to have a purpose provided air vent in the room or internal space in which a room-sealed appliance is installed. Cupboard or compartment ventilation is not necessary for a room-sealed appliance providing that the minimum clearances are maintained.

Where an open flued (B23) system is used (for example KIT E 'Flexible flue liner kit for chimney') then an air vent must be provided in the same room or internal space as the flue duct air inlet with a minimum free-area as stated in the boilers instructions.

## 3 BOILER LOGBOOK

Please ensure that you have a Logbook supplied with your appliance. (This can be found at the rear of the installation and service manual) This Logbook should be completed by your installer to verify that the correct installation and commissioning procedure was followed.

Failure to complete the Logbook may result in difficulties should a problem arise with your appliance during the guarantee period.

This Logbook forms part of the industry's Benchmark code of practice for the installation, commissioning and servicing of central heating systems. All CORGI Registered Installers carry a CORGI ID card and have a registration number. Both should be recorded in your Logbook. You can check your installer is CORGI registered by calling CORGI on 01256 37230.

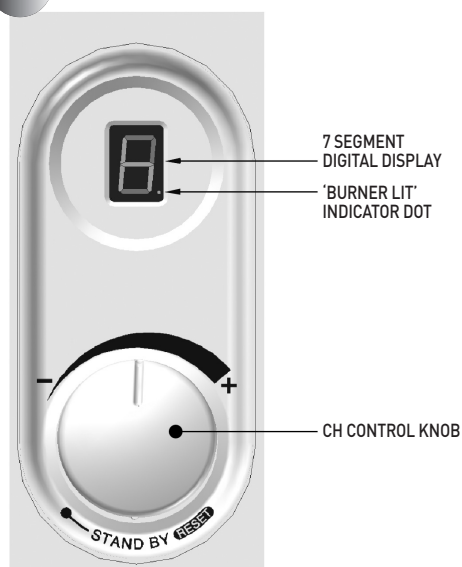
## 4 OPERATING INSTRUCTIONS

Refer to Fig. 1

### 4.1 TO LIGHT THE BOILER

- 1) Switch on the electrical supply
- 2) Turn the CH control knob to the midpoint between minimum and maximum setting. The display changes from 'E' to 'H'
- 3) Ensure that all secondary controls, e.g. programmer, room thermostat are calling for heat
- 4) The display changes to 'H.' When the burner has lit there will be a small dot appearing in the bottom right corner of the display
- 5) If the burner fails to light the fan will stop. Initially this may be due to air in the gas supply. The boiler will automatically have five attempts at ignition. After the five attempts it may be necessary to RESET the boiler by turning the control knob to RESET position and repeat (2)

### 1 FASCIA PANEL



## 4.2 CONTROL OF WATER TEMPERATURE

**CH:** Adjustable via the CH temperature control knob to give radiator temperatures of between 30°C and 80°C. To operate the boiler more efficiently it is recommended to set the CH temperature about half way (between '+' and '-'). Please check with your installer the size of your radiators.

During periods of no central heating requirement, this control should be set to the Standby position.

**Note:** If the display shows a flashing 'H' the boiler is in a service mode and the boiler will fire continuously at minimum input.

**This setting is for the convenience of the Service Engineer ONLY.**

## 4.3 TO TURN THE BOILER OFF

### For short or long periods

Switch the programmer and/or room thermostat switch to the OFF position.

**Note:** The appliance is fitted with a frost protection device. In the event of very cold conditions, the pump may operate and the boiler light for a few minutes to protect the appliance and system from potential frost damage. This can only function if the gas and electricity supplies are maintained and the control knob on the appliance is set to the STAND-BY position. This function automatically operates the boiler when the heating system water reaches temperatures below 5°C.

If either the gas or electricity services is to be isolated during a period when frost is likely, the water circuits must be drained.

## 4.4 BOILER OVERHEAT THERMOSTAT

The appliance is fitted with two thermistors located on the flow and return pipes. In the event of overheating, the boiler will shut down and the display will show '1'. Allow the boiler to cool, then briefly turn the control knob to RESET/STAND-BY position and then back to 'ON' within TWO seconds.

If the fault persists, consult a CORGI registered installer.

## 4.5 DIAGNOSTIC LED INDICATORS

### FASCIA PANEL, Figure 1

For faultfinding, refer to the diagnostic chart shown below, together with the notes given in sections 8.2, 8.3 and 8.4 of the boilers instructions

### Fault Finding Codes

In the event of the appliance failing to light, refer to the Diagnostics chart below.

To RESET the boiler turn the control knob to the RESET/STAND-BY position and back to 'ON' within two seconds

## 5 GENERAL CARE

The front panel, being a powder coated white finish should be cleaned with a damp cloth and mild detergent. Do not use abrasive cleaners.

## 6 ROUTINE SERVICING

To ensure continued efficient operation of the appliance, it is recommended that it is checked and serviced as necessary at regular intervals. The frequency of servicing will depend upon the particular installation conditions and usage but in general once a year should be adequate. It is law that any service work must be carried out by a competent person such as British Gas or other CORGI registered personnel.

## 7 WARNING

**If a gas leak is suspected or exists, turn the gas OFF at the incoming mains (adjacent to the meter). Do not operate any electrical switches. Do not operate any electrical appliances. Open all windows and doors. Do not smoke. Extinguish all naked lights. Contact the Gas Supplier immediately.**

LED CODE	FAULT/EFFECT	REASON
1	Overheated appliance	Water temperature greater than 105 °C
2	Water Flow Failure or Differential Check Faulty/ Flame for a short period only	Sensor temperature differential incorrect
3	No gas or Lockout flame signal/No flame, Lockout after 5 ignition attempts	Low gas pressure No flame signal on ignition, or loss of signal during operation
4	Flue gas sensor/No flame	Flue gas temperature greater than 95 °C
5	Defective sensor/No flame	Defective flow, return or flue sensor
6	Defective gas valve/Flame continues after demand ends	5 sec flame signal after burner is switched off
7	Defective fan/No flame	Missing or Erroneous RPM signal
R	PCB error/No flame	Internal error
b	Activate BCC/No flame	New BCC
C	Safety system failure/No flame	Failure of internal self checking system
E	PCB error/No flame	Internal error
h	No flame	Faulty connector
Q	Differential check faulty/Flame for 15 seconds	Water Rate too low
P	Error in power supply/No flame	Low mains voltage
	No light indication	Defective power supply



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For telephone enquiries call: 0844 371 1111.

Website: [www.glendimplexboilers.com](http://www.glendimplexboilers.com)

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Glen Dimplex Boilers is continuously improving its products and may therefore change specifications without prior notice. The statutory rights of the consumer are not affected.

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**SALES AND SERVICE HELPLINE: 0844 371 1111**