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.

For the very latest copy of literature for specification and maintenance practices visit our website www.idealcommercialboilers.com where you can download the relevant information in PDF format.
Introduction

The IMAX XTRA E boilers are fully automatically controlled, floor standing, fanned, super efficient condensing appliances.

Due to the very high efficiency, condensate is produced from the flue gases and this is drained to a suitable disposal point through the plastic waste pipe at the bottom of the boiler. A condensate 'plume' will also often be visible at the flue terminal.

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 and maintained by a Gas Safe Registered Engineer or in IE a competent person, in accordance with the above regulations.

The appliance should be serviced at least once a year by a Gas Safe Registered Engineer or in IE a competent person.

It is essential that the instructions in this booklet are strictly followed, for safe and economical operation of the boiler.

Electricity Supply

The appliance must be earthed.

Supply 230 V - 50 Hz. The fusing should be 7A for E320-E560. This appliance is intended to be connected to the supply via two double-pole switches, having a 3mm contact separation in both poles, serving only the boiler and system controls. Alternatively, two 3-pin UNSWITCHED sockets may be used.

Important Notes

All Gas Safe Registered Engineers carry a Gas Safe Register ID card, and have a registration number. Both should be recorded in your Log Book. You can check your installer by calling Gas Safe Register direct on 0800 4085500

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.
1  BOILER CONTROLS / DISPLAY (MASTER PANEL SHOWN)

LEGEND
A. Burner switch  E. Mode button
B. Pressure gauge  F. Step button
C. Display  G. Store button
D. Reset button  H. + button (to increase values)
I. - button (to decrease values)

In normal operation the display (C) shows the boiler status (see table above) and the water system flow temperature.

Blocking Mode
The boiler will enter blocking mode under certain fault conditions. Whilst in blocking mode the burner is switched off. Once the fault conditions are clear the boiler will automatically reset itself. In blocking mode the display will alternate between showing a '9' in digit one, along with the flow temperature in digits 2, 3 and 4, e.g.

Followed by the blocking code 'bxx', e.g.

9 9 6

Error Mode
In error mode the display will flash on and off with the error code shown, e.g.

b 1 3

The boiler will enter error mode under certain fault conditions.

Operation

<table>
<thead>
<tr>
<th>Sequence</th>
<th>Boiler Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>DHW valve energised</td>
</tr>
<tr>
<td>0</td>
<td>Standby, no heat request</td>
</tr>
<tr>
<td>1</td>
<td>Pre-purge, post purge</td>
</tr>
<tr>
<td>2</td>
<td>Ignition</td>
</tr>
<tr>
<td>3</td>
<td>Burner on in CH mode</td>
</tr>
<tr>
<td>4</td>
<td>Burner on in DHW mode</td>
</tr>
<tr>
<td>5</td>
<td>Waiting for air pressure switch to open or close</td>
</tr>
<tr>
<td>6</td>
<td>Burner off because a set value has been reached</td>
</tr>
<tr>
<td>7</td>
<td>Pump overrun in CH mode</td>
</tr>
<tr>
<td>8</td>
<td>Pump overrun in DHW mode</td>
</tr>
</tbody>
</table>

The unit will be inoperative until the fault is rectified. The reset button is used to reset the boiler control module after an error has occurred.

Self Check and Anti-Seize Modes
After switching on the mains power or after a reset, the boiler performs a selfcheck, i.e. the DHW valve (if connected) is energised first for 15 seconds then the CH pump is switched on for a further 10 seconds. This cycle repeats itself every 24hrs, as long as no heat request is given in 24hrs.

Burner on/off Switch
With the burner switch set to 'off' the boiler will not respond to a CH demand. However, it will respond to a DHW demand and the pump anti-seize and frost protection modes are still operational any one of which could cause the boiler to fire. Note. The burner switch is NOT a mains isolation switch.

CH/DHW Systems
In standby mode pressing and holding the '+' button for 3 seconds turns the CH system on/off.

In standby mode pressing and holding the '-' button for 3 seconds turns the DHW system on/off.
To shut Down the Boiler
1. For short periods
   Set the external controls to OFF. Wait 10 minutes and then isolate the mains supply to the boiler.
2. For longer periods
   Set the external controls to OFF. Wait 10 minutes and then isolate the mains supply to the boiler. For longer periods the entire system should be drained, including the domestic hot water supply.

To Relight the Boiler
Refill the system if it has been drained, taking care to ensure no air is in the boiler or system.
Repeat the procedure detailed in 'To light the boiler'.

Frost Protection
The IMAX XTRA oiler has built into its control system the facility to protect the boiler only against freezing.
Note.
This may not protect remote parts of the system, in which case a separate frost protection should be fitted.

Boiler Overheat
Boiler overheating is detected by electrical sensors connected to the boiler control module. If the boiler overheats it will shut down and the display will show E18. Press the ‘reset’ button (D) and the boiler will relight. If the fault recurs turn off the boiler and consult a Gas Safe Registered Engineer or in IE a competent person.

Condensate Drain
The condensate drain must not be modified or blocked.
Blockage of the condensate drain, caused by debris or freezing, can cause automatic shutdown of the boiler or leakage from the condensate trap mounted on the bottom 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 Gas Safe Registered Engineer 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 use a damp cloth and mild detergent.
DO NOT use abrasive cleaning materials.