



**Installation and Servicing Instructions**

# **FB1 Gas**



**GB/IE**

**Unit 16, Upper Mills, Canalside, Slaithwaite, Huddersfield, HD7 5HA, UK**

## 1 Technical Information

Gas	Natural Gas G20	Natural Gas G25	LPG G30/G31
Category	I2H	I2L	I3+
Heat Input Max(Net)	6.28kw	5.92kw	5.82kw
Heat Input Min(Net)	2.24kw	2.14kw	2.22kw
Supply pressure	20 mbar	25 mbar	30/37 mbar
Injector Size	82/440	82/440	92/190
Setting Pressure Max	16.8 mbar	21.5 mbar	28.0/36.5 mbar
Setting Pressure Min	2.3 mbar	3.0 mbar	4.2/6.0 mbar
Oxypilot - Seagas	P441	P412D	P451
Gas Consumption	0.67m3/h	0.73m3/h	0.179m3/h
NoX Class	4	4	4
Efficiency class	2	2	2
Countries	AT, CH, DK, ES, FI, GB, IE, IT, PT, SE	NL	BE, CH, ES, FR, GB, IE, IT, PT
Gas Connection	8mm Tube	8mm Tube	8mm Tube

## 2 Important Notes

This stove is a fuel effect radiant convector. Before installation ensure that the local distribution conditions (identification of the type of gas and pressure) and the adjustment of the appliance are compatible.

The data label is located behind the controls cover.

The installation must be in accordance with these Instructions and National Regulations and must be carried out by a qualified installer.

Any flue damper plate or flue restrictor must be removed or fixed permanently in the fully open position, or shall only be fitted in accordance with

## National Regulations.

If the chimney has previously been used to burn solid fuel, the chimney should be swept before the stove is installed.

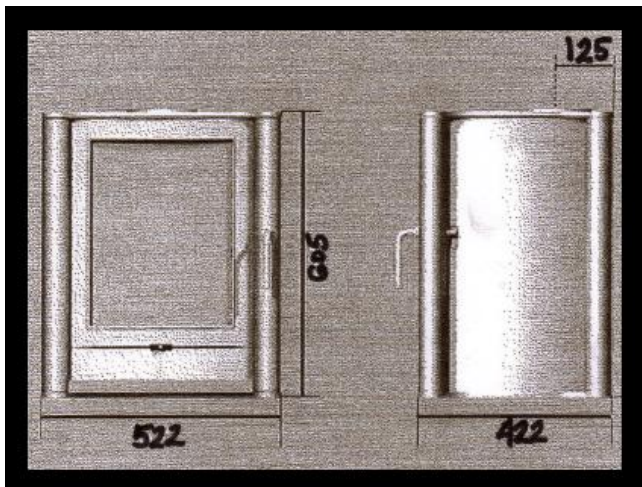
Before the stove is installed a flue test in accordance with National Regulations should be carried out. The gas connection must be in accordance with National Regulations.

**The stove is fitted with a spillage combustion monitoring safety device (O.D.S). This system is not adjustable, and must not be put out of action. If any parts of the spillage monitoring system require replacement only original manufacturers parts must be used.**

All surfaces except the control cover plate and the controls themselves are considered to be working surfaces.

When operating on Natural Gas the stove is intended for use on a gas installation with a governed meter.

## 3 Dimensions



## **4. Installation**

Install the stove in accordance with the requirements given below. If a concealed gas connection is to be made prepare the pipework prior to installing the stove.

### **(i) SITING THE STOVE**

The stove can be installed in any adequate area suitable for solid fuel fires and stoves.

Clearances from non-combustible material in the fireplace opening must be at least 50mm on the left side, 50mm on the right hand side and 50mm at the back. These distances must be extended to a minimum clearance of 500mm from any combustible material.

### **(ii)Hearth**

The stove must stand on a fireproof hearth made of non-combustible material of minimum thickness 12mm and be of sufficient size to accommodate the stove. (See Fig 1).

### **(iii)Fire Surround & Shelves**

It is recommended that a fire surround should not be closer than 500mm from the stove, if manufactured from a combustible material.

A combustible shelf may be fitted provided that it is not more than 150mm deep and there is at least 500mm clearance from the top of the stove. Curtains and other soft furnishing must be at least 500mm away from the top of the stove.

#### **(iv) FLUE CONNECTION**

The flue should be at least 3m high and at least 125mm diameter or equivalent area.

Horizontal or negative gradients in the flue pipe should be avoided.

It is recommended that a minimum height of 500mm from the stove should be established before any significant change in the direction of the flue.

#### **(v) VENTILATION**

Ventilation should be in accordance with National Regulations. In the United Kingdom purpose provided ventilation is not normally required, except in new build houses.

#### **(vi) GAS CONNECTION**

The gas supply connection is behind the controls cover plate, left hand side of the gas valve.

A nut and olive (strapped to the valve body), is supplied with the stove.

The gas supply should incorporate a service tap, be purged and any loose matter removed.

Connect the gas supply pipe and check for gas soundness.

## **5 positioning of the logs**

**Slacken the Allen screw using an Allen key securing the stove door and open the door (as shown below)**



← Insert allen key and turn anti clockwise to open door



**Fig 2**

Position the front log piece in front of the flame strip. Ensure that the pilot hole and flame strip are not obstructed



**Fig 3**

Position the backboard onto the burner tray ensuring that it is correctly located behind the flame strip and that the flame strip is not obstructed



**Fig 4**

Position log A diagonally with its bottom left hand end resting on the front log piece and the top right hand end nesting onto the backboard



**Fig 5**

Position logs B, C, & D as shown

**Close the stove door and secure with an Allen key. Under no circumstances should the stove be operated with the door open, without the door attached or the glass damaged.**

## **6 Commissioning the stove**

**When lighting the pilot follow these instructions exactly.**

### **Lighting instructions**

Should the stove be extinguished for any reason wait 3 minutes before re-ignition is attempted. Slacken the rear pressure test sealing screw on the left hand side of the gas valve (fig 6) and connect a suitable pressure gauge to the pressure test point.

#### ***(i) Lighting The Pilot***

Turn knob A (fig 6) counter clockwise towards the ignition position (IGN) until reaching stop, press down and hold for five seconds (only pilot gas flows).

Continue pressing down knob A while turning further counter clockwise to activate piezo, continue to hold down for ten seconds after pilot burner has been lit. If pilot does not light, steps 1 and 2 can be repeated immediately. Upon lighting, release knob and turn further counter clockwise to ON position. Pilot gas flows and main gas flows in accordance to the temperature setting of knob B.

#### ***(ii) High Setting***

If the pilot is not already lit, light the pilot as described in (i) Turn knob B anti clockwise until the high setting is reached. Check the setting pressure is in accordance with that given in the technical information setting adjust if necessary. (fig 6)

#### ***(iii) Low setting***

Turn knob B clockwise to low setting (just before flame is extinguished). Check that the setting pressure is in accordance with that given in the technical section.



### ***Adjusting the flame Height (fig 6)***

To turn the stove on and/or to increase the flame height, press the ▲ button and the small button A at the same time on the remote handset. Continue pressing until the desired flame height is obtained. Press and hold the ▼ button to reverse the procedure.

The receiver is equipped with a built-in delay, recognisable by the flickering light, to facilitate fine adjustment of the flame. The motorised valve is equipped with a slip clutch, allowing manual adjustment of main gas by turning knob B.

### ***To Turn Off Gas to Stove***

Turn knob A clockwise until reaching stop. In this position only pilot gas flows. To shut off the valve completely, press down slightly and continue to turn clockwise from pilot position to the OFF position. The safety interlock prevents re-ignition of the pilot flame until the thermocouple has cooled down sufficiently (elapsed time will vary based on thermocouple type). Switching off the remote is not necessary. Disconnect the pressure gauge, tighten the test point sealing screw and test for gas soundness.

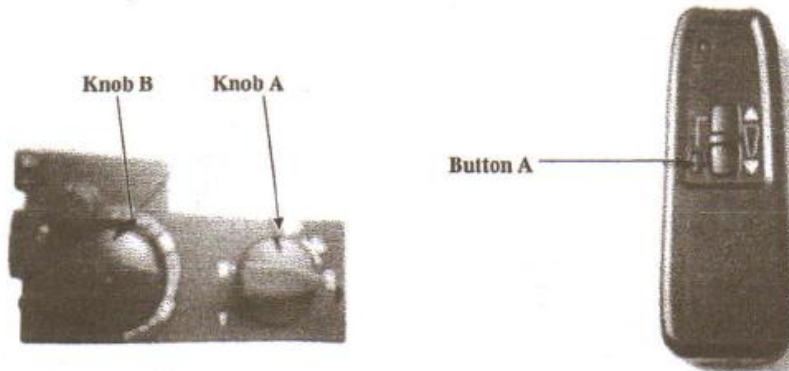
### **Handset Information**

**Note :** Mains electrical power is not required as this system runs on batteries only. (Alkaline recommended)

Handset 1 x 9V block

Receiver 4 x 1.5v AA

Figure 6 Control Valve and transmitter



#### Note

It is recommended to turn the combination control either to the off or pilot position if the appliance is left unattended for long periods (eg away on holiday), so that it cannot receive commands from the remote transmitter. Exercise caution when leaving the appliance unattended, in exceptional cases sound waves from sources other than that of the transmitter can cause flame height adjustment. For the handset to function correctly, the transmitter must remain within the range of the receiver. The transmitter should not be used in very close proximity of the receiver (less than 1 metre/3 ft) as this could, in very rare cases produce an electronic switching error. This could block the motor when the knob reaches the end.

### **7 Check for spillage**

Close all doors and windows in the room containing the appliance. Light the stove and turn the control knob to 'HIGH'. Leave the appliance for 5 minutes.

Apply a smoke match along the bottom edge of the draught diverter. The installation is satisfactory if the smoke is drawn into the stove.

If in doubt wait a further 10 minutes and then repeat the test.  
If there is a fan in a nearby room the spillage test should be repeated with the fan running and all connecting doors between the stove and the fan left open.  
If in doubt disconnect the appliance and seek expert advice.

## **8 Customer Briefing**

Hand these Instructions and the Users Instructions to the customer.

Advise the customer how to use the stove. Point out that the Operating Procedure is in the Users Instructions.

Explain to the customer that the stove has a flame failure and spillage monitoring system. Point out the explanation of this system is in the Users Instructions.

Advise that if the monitoring system repeatedly shuts off the stove, it should be switched off and a specialist consulted.

Advise that if the stove goes out for any reason, wait at least three minutes before re-lighting.

Advise the customer that due to the newness of materials the stove may give off a slight smell for a period of time after commissioning. This is quite normal and any odours should disperse after a few hours operation.

Stress that no extra coals or logs must be added over and above those supplied with the appliance and that any replacements must only be authorised Firebelly spares.

Recommend that the stove is regularly serviced and the flue system checked by qualified persons.

## **9 servicing instructions**

The stove is fitted with a pilot light and flame sensing device which is also an oxygen depletion sensor (O.D.S)

**This system is not adjustable and must not be put out of action. If any parts of this system require replacement only original manufacturers parts must be used.**

**(i) The following servicing procedure should be carried out regularly and only by a qualified person.**

**Ensure that the stove is turned off and is cold.**

**(ii) Slacken the allen screw securing the stove door.**

**(iii) Remove the logs, back board and front log piece in the reverse order to that described in 5. POSITIONING THE LOGS.**

**(iv) Remove any deposition of dirt, lint, etc. carefully from the burner flame strip, tray and pilot assembly with a soft brush.**

**(v) Due to intense temperatures reached in the fire, some surface cracks may appear on the ceramic components. This is quite normal and will not affect the safe operation of the stove.**

**(vi) Replace the front log piece, back board and logs as described in 5. POSITIONING THE LOGS**

**(vii) Close the stove door and secure with an Allen key**

**(viii) Check the supply pressure as described in 6.COMMISIONING THE STOVE.**

**(ix) Ensure correct operation of the flue as described in 7. CHECK FOR SPILLAGE.**