



EXEL Multiflue

Inset Radiant Fire
For Natural Gas

Models: 356.FMN (Flue, Manual, Nat.Gas)
456.FTN (Flue, Trim-Switch, Nat.Gas)
456.FWN (Flue, Wall-Switch, Nat.Gas)

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INSTALLATION INSTRUCTIONS

THIS PRODUCT IS APPROVED TO THE EUROPEAN GAS DIRECTIVE

THESE INSTRUCTIONS SHOULD BE
RETAINED BY THE USER FOR FUTURE REFERENCE

COMPONENT LIST

Before commencing with the installation, ensure that all of the components listed below are included in the packaging.

- | | |
|--|--------------------------------------|
| 1- Fire Box and Burner Tray | 1- Complete Fan Unit Comprising of : |
| 1- Set of Ceramic Components as: | a) Wall Plate |
| a) 1 Base Ceramic | b) Fan Unit |
| b) 1 Rear Ceramic | c) Painted Fan Cover |
| 1- Bag of coals comprising: | |
| a) 5 Large Square Coals | 1- Flue Spigot |
| b) 6 Small Square Coals | 1- Length of Glass Rope |
| c) 9 Large Random Coals | 1- Wire Mesh Cage (optional) |
| d) 7 Small Random Coals | 1- Fire Frame (optional) |
| 1- Set of User's Instructions | 1- Fire Fret (optional) |
| 1- Guarantee Card (for User to complete) | |

This appliance must be installed in accordance with the rules in force and used only in a sufficiently ventilated space. Consult instructions before installation and use of this appliance.

Made in England

Country of Destination: GB and IE

NOTE: THIS FIRE IS NOT SUITABLE FOR SOLID FUEL AND IS INTENDED FOR DECORATIVE USE ONLY.

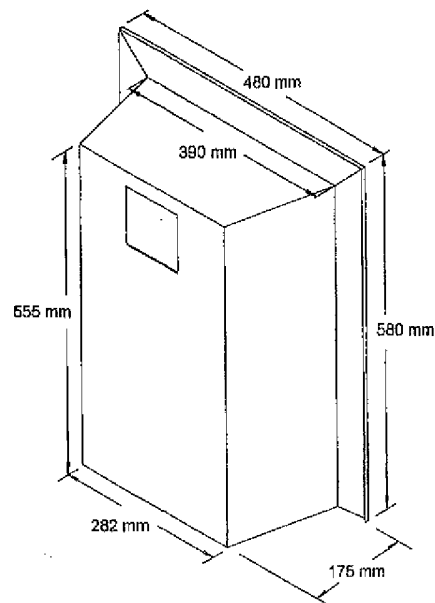


Fig.1

9 CHECKING FOR SPILLAGE

- 9.1 Before briefing the customer on how to use the appliance, a spillage test must be carried out on the appliance with the decorative fret in position. The following procedure must be followed:
- 9.2 Close all doors and windows in the room or space containing the appliance.
- 9.3 Light the appliance and burn at maximum for 5 minutes.
- 9.4 Light a smoke match and pass completely along the top front edge (and just inside the top edge) of the appliance opening. A visual check should be ascertained that all the smoke generated is drawn back into the firebox.

10 BRIEFING THE USER

- 10.1 Demonstrate the full operation of the appliance to the user, referring them specifically to the lay of the coals and the removal of soot, as described in the USER'S Instructions.
- 10.2 Inform the user that all cleaning procedures should be carried out only when the appliance is cold and disconnected from the Mains Electricity Supply.
- 10.3 Leave these instructions and the User's instructions with the User.
- 10.4 Advise the User of the importance of having the appliance serviced and the flue system and fan checked for clearance of combustion products on an annual basis.

11 SERVICING & MAINTENANCE

- 11.1 BEFORE ANY SERVICING IS CARRIED OUT, ISOLATE THE APPLIANCE FROM THE MAINS ELECTRICITY SUPPLY AND THE GAS SUPPLY. AFTER REFITTING THE APPLIANCE, CHECK FOR GAS SOUNDNESS AT ALL GAS JOINTS AND CHECK FOR SPILLAGE.
- 11.2 The coals and ceramics should be taken off the fire and all debris and soot removed from them and the burner slots. This can be done using a vacuum cleaner although care must be taken not to damage any of the ceramic parts.
- 11.3 Check that there is no impairment to the electrode spark or pilot light.
- 11.4 Check that the pilot flame is satisfactory. If this is not the case then remove and clean the pilot injector.
- 11.5 Re-build the coal lay precisely as described in the Installation Instructions.
- 11.6 Make final adjustment to the coals to obtain a satisfactory visual effect.
- 11.7 Dismantle the fan from the fan box and clean the blades of any soot or debris.
- 11.8 With the fan box removed, inspect the flue and clear any soot or debris. Re-fit fan Box.

1. APPLIANCE DATA

356.FMN

456.FTN

456.FWN

Gas Type	Nat. Gas Cat. 12h	Nat. Gas Cat. 12h	Nat. Gas Cat. 12h
Jet Size (1 only)	1.9 mm	2.05 mm	2.05 mm
Maximum Input	6.7 kW	6.9 kW	6.9 kW
Minimum Input	4.1 kW	4.5 kW	4.5 kW
Inlet Pressure	20mbar	20mbar	20mbar
Gas Connection	8mm Comp.	8mm Comp.	8mm Comp.
Supply Voltage	None	220-240V a.c.~	220-240V a.c.~
Supply Frequency		50Hz	50Hz
Supply Fuse		3 Amp	3 Amp
Weight	25kg (55lbs)	25kg (55lbs)	25kg (55lbs)

2. GENERAL INSTALLATION REQUIREMENTS

The law demands that all gas appliances are installed by a competent person in accordance with the current GAS SAFETY (INSTALLATION AND USE) REGULATIONS 1984. The installation must comply with these installation instructions and all relevant parts of Local and National Building Regulations and the Institution of Electrical Engineers Regulations and those relevant recommendations of the following British Standards.

BS 5871, Part2 BS 8303 BS 6461 Parts 1 & 2
BS 5440, Parts 1 & 2 BS 1251 BS 6891
BS 715 BS 1289 Part 1

These installation Instructions must be adhered to without exception

- 2.1 The appliance must be fitted with a non-combustible hearth having a minimum thickness of 12.5mm (1/2"). The hearth must be at least 300mm (12") deep and must extend a minimum of 150mm (6") either side of any naked flame or incandescent radiant source. The periphery of the hearth must be at least 50mm (2") above the floor level. (Under BS 5871 Part 2, the installation of a fender of 50mm (2") high will satisfy this requirement).

Subject to a satisfactory spillage test, no purpose-made ventilation is required (except in Eire).

- 2.2 The appliance can be fitted to fireplaces which meet with the following requirements:
- A Conventional Chimney used for solid fuel appliances with a flue with a minimum cross sectional dimension of 225mm x 225mm (9" x 9") with a minimum 3 metres effective height.
 - A lined flue with a minimum diameter of 175mm (7" within the fireplace components conforming to BS 1251.

6.7 Depress the control knob slightly and turn Clockwise to the pilot position - the main burner will go out but the pilot light will remain alight.

6.8 Depress the control knob slightly and turn clockwise to the OFF position. The pilot flame will go out.

IMPORTANT: After turning OFF, or if the pilot and appliance go out for any reason then wait 3 minutes before attempting to re-light the appliance.

7. CHECKING FOR SPILLAGE

- 7.1 Before briefing the customer on how to use the appliance, a spillage test must be carried out on the appliance with the decorative fret in position. The following procedure must be followed:
- 7.2 Close all doors and windows in the room or space containing the appliance.
- 7.3 Light the appliance and burn at maximum for 5 minutes.
- 7.4 Light a smoke match and pass completely along the top front edge (and just inside the top edge) of the appliance opening. A visual check should be ascertained that all the smoke generated is drawn back into the firebox.

8. BRIEFING THE USER

- 8.1 Demonstrate the full operation of the appliance to the user, referring them specifically to the lay of the coals and the removal of soot, as described in the USER'S Instructions.
- 8.2 Inform the user that all cleaning procedures should be carried out only when the appliance is cold.
- 8.3 Leave these Instructions and the User's Instructions with the User.
- 8.4 Advise the User of the importance of having the appliance serviced checked for clearance of combustion products on an annual basis.

9. SERVICING & MAINTENANCE

- 9.1 BEFORE ANY SERVICING IS CARRIED OUT, ISOLATE THE APPLIANCE FROM THE MAINS ELECTRICITY SUPPLY AND THE GAS SUPPLY. AFTER RE-FITTING THE APPLIANCE, CHECK FOR GAS SOUNDNESS AT ALL GAS JOINTS AND CHECK FOR SPILLAGE.

5. ASSEMBLING THE FIRE & PLACING THE COALS (all models)

CAUTION : All of the ceramic components are **FRAGILE** and should be handled with care.

- 5.1 The fire tray and ceramics are illustrated in Fig. 2 & Fig.3. Take the base ceramic and place it on the fire tray then take the rear ceramic and stand it upright at the rear of the base ceramic.
- 5.2 With reference to Fig. 3 Lay the coals as follows :
- Place 7 Medium coals along the front of the base ceramic - Row A. The coals should be positioned so that they are equally spaced (nominally 5 mm apart) and drawn forward such that they touch the front coal retainer.
 - Place 5 Large coals across centre of the base ceramic keeping them between the ridges. The coals should be positioned so that they are equally spaced - Row B.
 - Place 5 Medium coals directly on top of the 5 Large coals and resting against the back of the rear ceramic - Row C.
 - Place a row of 6 Random coals between the 7 front coals and the 5 large coals. - Row D
 - Place a row of 4 Medium coals along the back of the fire box resting half on the rear ceramic and half on Row C. The two outer coals should be pushed well into the corner of the fire box. - Row E.
 - Place another row of 5 Random coals directly in front of Row E and resting partly on Row C and partly on Row D - Row F.

6. LIGHTING THE APPLIANCE (Manual Model 356.FMN only)

For Models 456.FTN and 456.FWN - see section 10

- 6.1 Remove the cap from the isolator fitting and unscrew the plug all the way out. Replace the cap ensuring that the cap engages with the slot at the top of the plug. Tighten the cap securely.
- 6.2 Push in and turn the control knob anticlockwise to the pilot position.
- 6.3 Hold the knob in for several seconds and purge the air from the system.
- 6.4 With the knob still depressed, turn it from the OFF position to the PILOT position until the pilot light ignites. Continue to depress the control knob for a further 10 - 15 seconds. Release the control knob; the pilot should stay alight. If the pilot flame goes out, repeat the process, holding down the control knob for a slightly longer period.
- 6.5 Depress the control knob slightly and turn it anticlockwise to the HIGH position. The main burner should now light. (see Fig. 8)
- 6.6 Turn the knob anticlockwise to the LOW position, the flames will get lower but the main burner will still be alight.

- A 5" diameter gas flue
- A gas flue-block system to BS 1289 : Parts 1 & 2. With a minimum 3 metres effective height.

Note: When using with a gas flue-block system, a spacer frame may be necessary to achieve the required depth; these are supplied separately and have separate fitting instructions. (Trident Part No. 1155)

- 2.3 No restrictor plate or flue damper is permitted. Where a variable damper is fitted, this must first be removed.
- 2.4 The chimney **MUST** be swept before the appliance is installed.

3. FITTING THE FIREBOX

- 3.1 Check that the firebox is of the correct size for installation into the fireplace recess.
- 3.2 It is recommended that before proceeding further, a simple smoke test be performed to check the condition of the chimney or flue. Light a smoke match, hold it within the fireplace opening and observe the behaviour of the smoke. If it is being drawn into the chimney proceed with the installation. If not, preheat the chimney over a period of a few minutes and recheck. If smoke still fails to clear, further investigation of the chimney is required and the appliance **MUST NOT BE FITTED**.
- 3.3 Any chairbrick must be removed on all installations.
- 3.4 BS 5871 : Part 2 requires a debris collection space of between 2 and 12 cm³ depending upon the type of flue.
- 3.5 In either case, clear the recess of any loose material. Ensure that the base on which the appliance will stand is level and that the base of the recess and the hearth are horizontal and non-combustible.
- 3.6 Slide the firebox into the opening, ensuring that outlet port is unobstructed and give clear passage for the products of combustion to the flue. (do not seal at this stage)
- 3.7 The appliance should be fitted in such a manner as to be removable, for the purposes of chimney-sweeping and easy removal of debris.
- 3.8 The gas supply should be routed from the source to a point convenient to the fireplace.
- 3.9 Decide whether the gas supply is to be routed through the sides or back of the fire box, or across the front of the fireplace. 'Knock-outs' are provided in the rear and side of the box. Having determined the position of the gas pipe the appropriate 'knock-out' can be removed by a sharp tap with a hammer. Provision will have to be made to pass the pipe through masonry and should be sleeved accordingly. (Take care not to get any masonry dust or debris in the pipe). The gas supply should be run to make removal for servicing easy.

- 3.10 Cut and form a section of 8mm pipe, (only rigid or semi-rigid pipe is acceptable) and run this into the fireplace opening. If a concealed fitting is required, care must taken to sleeve the gas pipe when passing it through masonry. Exposed pipe within the fire opening should be wrapped with bituminous paint or be factory sheathed.
- 3.11 Seal the firebox into the opening using the sealing tape provided or water based mastic.
- 3.12 Check that the ignition system on the burner unit functions correctly. Push and turn the gas control knob anticlockwise and check that a spark is generated at the pilot burner. If no spark is evident, check the soundness of the H.T. lead and also the gap distance between the electrode and the thermocouple tip.
- 3.13 Check the tightness of the nut at the control valve end of the thermocouple, but DO NOT OVERTIGHTEN.
- 3.14 Fit the burner tray into place within the fire box and secure in place with the fixing screw/s.
- 3.15 Prior to connecting the gas supply to the burner, it is advisable to purge the gas pipe of any brick dust or debris which might have accumulated during installation. This could cause blockages in the control valve or pilot causing the appliance to malfunction.
- 3.16 Using the nut and olive provided, connect the 8mm gas pipe to the combined pressure test point and isolator fitting.

4. CHECKING FOR GAS LEAKS

- 4.1 Gas Soundness Check. With the gas supply connected, ALL joints should be checked for gas soundness in accordance with BS 6891. Note, it is permissible to light the fire for short periods of time only when the fire is NOT laid with the ceramics and coals.

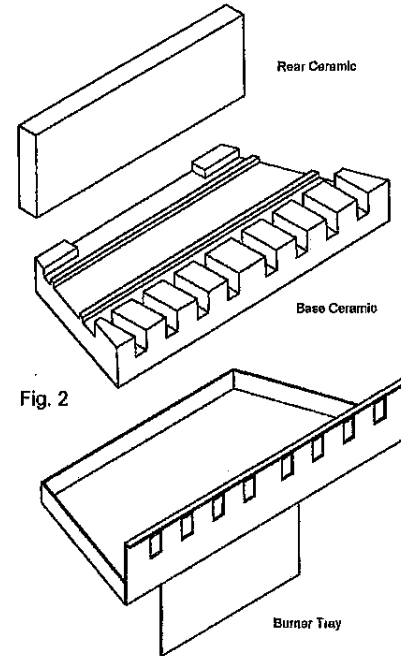


Fig. 2

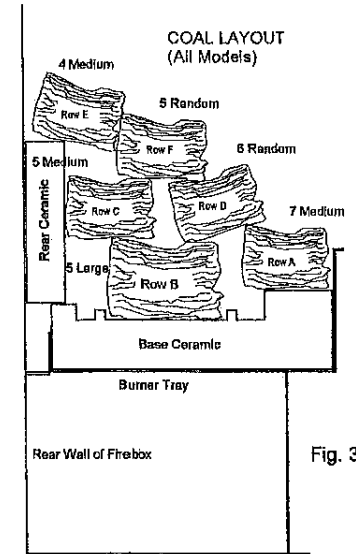


Fig. 3

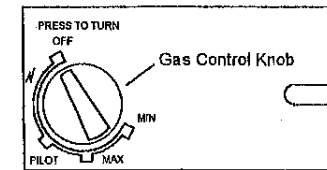


Fig. 4

CONTROLS FOR 'MANUALLY' OPERATED FIRES

Fig. 5

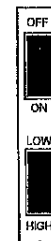


Fig. 6

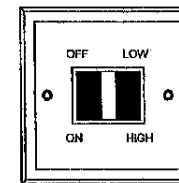
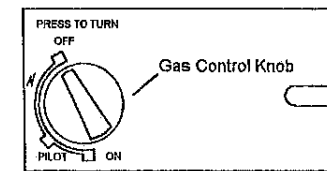


Fig. 7



CONTROLS FOR 'REMOTE-SWITCHED' FIRES