



“Waverley” Inset Tray

DECORATIVE FUEL EFFECT GAS FIRE

Installation, Maintenance & User Instructions

Hand these instructions to the user

Model No. FITC00MN is for use on Natural Gas (G20) at a supply pressure of 20 mbar in G.B. / I.E.

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This appliance is manufactured by :-

CFM Europe Ltd.
Trentham Lakes,
Stoke-on-Trent,
ST4 4TJ

**SECTION 1
INFORMATION AND REQUIREMENTS**

1.0 APPLIANCE INFORMATION

Model	FITC00MN
Gas Type	G20
Main injector (1 off)	Size 420 Cat 82
Pilot Type	Copreci 21100 / 141
Max. Gross Heat Input :	6.9 kW
Min. Gross Heat Input :	4.0 kW
Cold Pressure :	20.0 +/-1.0 mbar
Ignition :	Push-button Piezo
Electrode Spark Gap	4.0mm
Packed Weight	6kg

Inset Tray Dimensions (with ceramic & coals fitted)

Width :	380mm
Height :	320mm
Depth :	230mm
Gas Connection :	8mm Compression (Supplied with fire)

1.3 FIREPLACE / SURROUND SUITABILITY

The fire must only be installed on a hearth it **must not be installed directly onto carpet or other combustible floor materials.**

The fire is suitable for fitting to non-combustible fire place surrounds and

proprietary fire place surrounds with a temperature rating of at least 150°C.

If a heating appliance is fitted directly against a wall without the use of a fire surround or fire place all combustible material must be removed from behind the trim. Soft wall coverings such as blown vinyl, wall paper etc. could be affected by the rising hot air and scorching and/or discoloration may result. Due consideration should be made to this when installing or decorating.

1.4 SHELF POSITION

The fire may be fitted below a combustible shelf providing there is a minimum distance of 200mm above the top of the fire and the shelf does not project more than 150mm. If the shelf overhangs more than 150mm the distance between the fire and the shelf must be increased by 15mm for every 25mm of additional overhang over 150mm.

1.5 FLUE / CHIMNEY INSPECTION

Before commencing installation, a flue or chimney should be inspected to ensure that all the following conditions are satisfied.

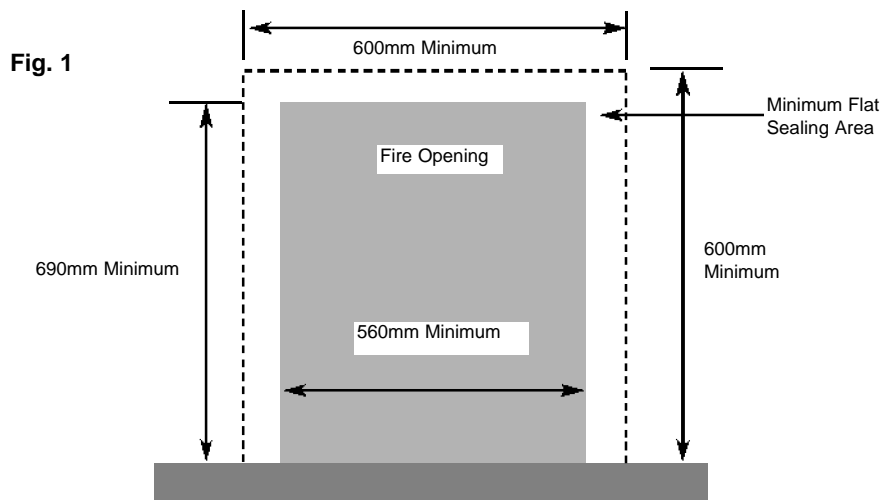
1. Check that the chimney / flue only serves one fire place and is clear of any obstruction. Any dampers or register plates, other than those supplied on the cast front must be removed or locked in the open position.
2. Brick/stone built chimneys or any chimney or flue which has been used for an appliance burning fuel other than gas must be thoroughly swept. The base of the chimney / flue must also be thoroughly cleared of debris etc.
3. Any under-floor air supply to the fire place must be completely sealed off.
4. Ensure that the inside of the chimney / flue is in good condition along it's length and check that there is no leakage of smoke through the structure of the chimney during and after the smoke pellet test.
5. **Using a smoke pellet, check that there is an up-draught in the chimney / flue and that the smoke can be seen issuing from the terminal / chimney pot outside.**
There must be no leakage of smoke through the structure of the chimney during or after the smoke pellet test and it is important to check inside upstairs rooms adjacent to the chimney / flue.

Check the chimney pot / terminal and general condition of the brickwork or masonry. If the chimney or flue is in poor condition or if there is no up-draught do not proceed with the installation. If there is a history of down-draught conditions with the chimney / flue, a tested and certificated flue terminal or cowl suitable for the relevant flue type should be considered.

6. **A spillage test must always be carried out during commissioning of the appliance.**

1.6 FIRE PLACE OPENING AND CHIMNEY CATCHMENT SPACE

The front opening of the fire place must be a minimum of 560mm wide, and 690mm minimum in height. If the opening exceeds these dimensions then a surround must be constructed from suitable non-combustible material to produce a correct size opening. Any surround must be suitably sealed to the fire place to prevent leakage. See below in fig.1



When installing into a brick built chimney, you must ensure that there is sufficient depth to accommodate any debris which may fall from the chimney. This depth must be sufficient to accommodate 12 litres of volumetric space.

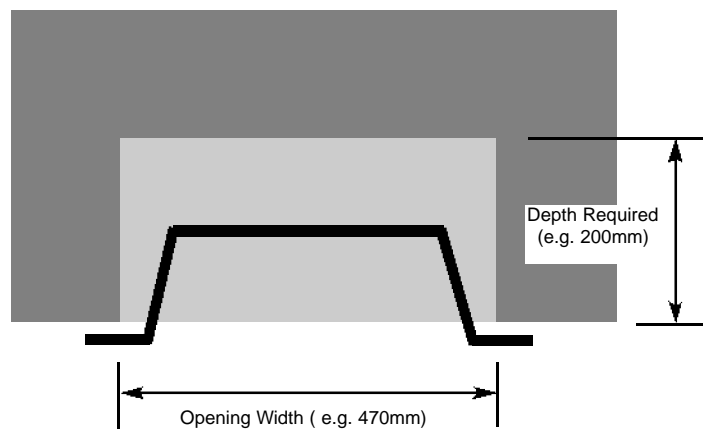
Table A - Installation Depth Requirements for a Flavel Waverley Inset Tray being installed requiring 12.0 litres of debris collection volume (fig. 2).

Opening Width (mm)	Minimum Depth Required (mm)
470 (minimum opening width)	200

See fig. 2 below for explanatory diagram.

Fig. 2

The fireplace opening depth can exceed 200mm, providing that when calculated, the void volume does not exceed 247 dm³



1.7 FITTING TO FIREPLACES WITH EXISTING CHAIRBRICKS AND CONVENTIONAL BRICKBUILT CHIMNEYS

This appliance is not suitable for use in fireplaces fitted with an existing chairbrick, when installing a cast fascia and surround. Any chairbrick must be removed prior to proceeding with the installation. If installing the tray on its own, the chairbrick can be left in position.

1.8 FITTING TO PRE-FABRICATED TWIN WALL METAL FLUE BOXES

The appliance may be fitted to twin wall metal flue boxes conforming to the constructional requirements of BS 715, (for example the Ritevent LFE 175 box). The box must have a minimum flue diameter of 175mm internal and minimum internal dimensions of 300mm deep by 690mm high by 470mm wide. There are no maximum dimensional requirements for the box. The top face of the box must be insulated with a minimum thickness of 50mm of non-combustible mineral wool insulation or similar material. The flue box must stand on a non-combustible base of minimum thickness 12mm.

1.9 HEARTH

This appliance must only be installed on to a concrete or non-combustible hearth. The hearth material must be a minimum thickness of 12mm with the top surface at least 50mm above the floor. The hearth must be fitted symmetrically about the fire opening and have a minimum width of 760mm and a minimum projection of 300mm forwards from the fire opening.

1.10 SPILLAGE MONITORING SYSTEM

This appliance is fitted with an atmosphere sensing spillage monitoring system in the form of an oxygen sensing pilot. This is designed to shut the fire off in the event of a partial or complete blockage of the flue causing a build up of combustion products in the room in which the fire is operated. **The following are important warnings relating to this spillage monitoring system :-**

- 1) The spillage monitoring system must not be adjusted by the installer.
- 2) The spillage monitoring system must not be put out of operation.
- 3) When the spillage monitoring system is exchanged only a complete original manufacturers part may be fitted.

SECTION 2 INSTALLATION OF FIRE

2.1 UNPACKING THE FIRE

Carefully lift the fire out of the carton. Remove the loose item packaging carefully from the front of the appliance. Check the contents as listed :-

Packing Check List - Coal Fuelbed Models

1off	Fire tray / burner assembly
1off	Boxed ceramic base, L/H & R/H ceramic front rails plus coals
1off	Coals bag, containing, 3 medium square coals, 2 small square, 11 small coals & 7 large coals - total of 23 coals packed in ceramics box
1off	Loose items bag.
1off	Installation / User book (Combined)

2.2 INSTALLING THE TRAY

Establish which type of flue you are intending to install the fire in to :-

**225 x 225mm (9 inch x 9 inch) brick built chimneys
175mm (7 inch) diameter lined brick or stone flue, or insulated pre-fabricated metal flue box to B.S. 715.**

A spillage test must always be carried out to check satisfactory clearance of flue products, regardless of the type of flue the appliance is being fitted to.

To Install the Fire Proceed as follows :-

- a) Carefully place the burner tray in the chairbrick opening
- b) Mark the centres of the two fixing holes, which are located in the front flange, below the control knob / piezo button on the burner tray.
- c) Whilst the fire is in position, decide which side the gas supply is to enter the fire from and plan accordingly. The inlet elbow can be loosened and rotated if necessary. See Fig. 3 & 4 overpage for suggested pipe routes.

Fig. 3 Gas Supply entering from RHS

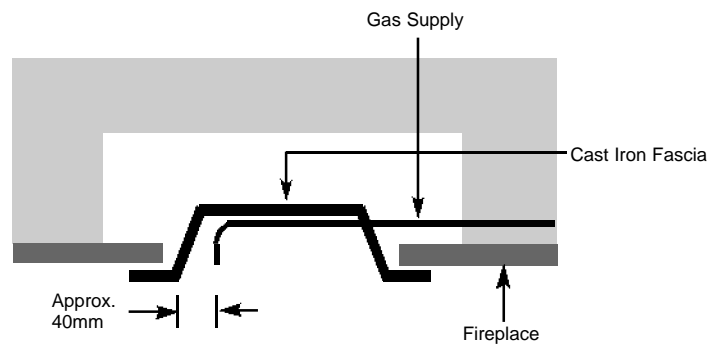
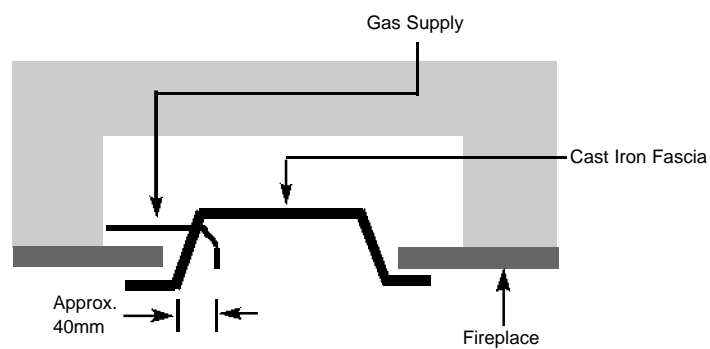


Fig. 4 Gas Supply entering from LHS



- d) Carefully withdraw the fire base from the opening to enable the gas supply and fire fixing to be completed.
- e) Drill 2 off fixing holes as marked out in section b) to accommodate 2 off no. 10 or 12 rawl plugs
- f) Fit the rawl plugs (supplied)

g) **Making the gas connection**

The gas connection should be made to the appliance inlet elbow using rigid 8mm piping.

h) Lift the firebase in to position and secure the base of the fire opening with the two screws provided, ensure when fitted that the fire tray sits level.

i) Before making the final gas connection, thoroughly purge the gas supply pipework to remove all foreign matter, otherwise serious damage may be caused to the gas control valve on the fire.

NOTE :- Failure to correctly purge the pipework will invalidate the guarantee

2.3 GAS TIGHTNESS AND INLET PRESSURE

a) Remove the pressure test point screw from the inlet elbow and fit a manometer.

b) Turn on the main gas supply and carry out a gas tightness test.

c) Depress the control knob and turn anti-clockwise to the position marked ignition / low. Hold in the control knob for a few seconds to purge the pipe work then press the igniter button. The burner should light, continue to hold the control knob for a few seconds then turn to the full-on position.

d) Check that the gas pressure is **20.0 mbar (+/- 1.0mbar) 8.0 in w.g.(+/- 0.4 in w.g.) for Natural Gas Models**

e) After removing the manometer, ensure that the pressure test point screw is checked for gas tightness with suitable leak detection spray or fluid.

SECTION 3 ASSEMBLING FUEL-BED AND COMMISSIONING

3.1 ASSEMBLING THE FUEL-BED

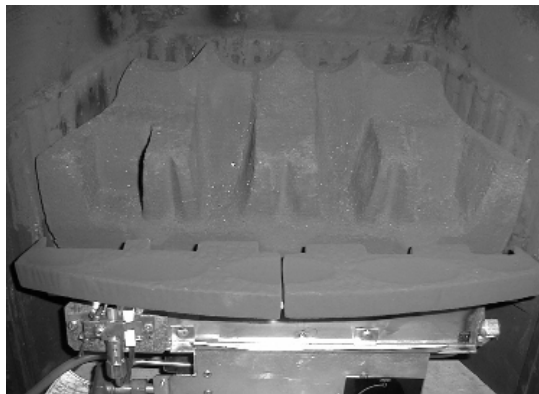
- a) Position the two halves of the ceramic front rail onto the support as shown below in Fig. 5

Fig. 5



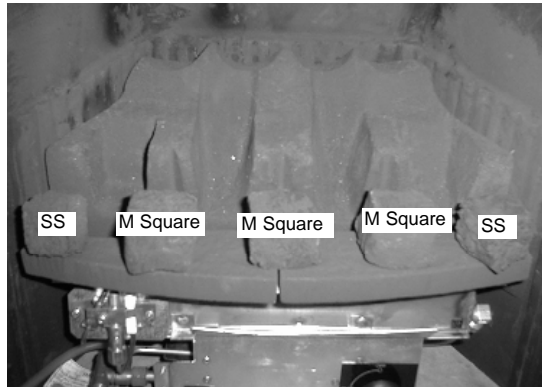
- b) Place the fuelbed base centrally on to the fuelbed support and push fully backwards to the rear face of the cast iron back panel. **Make sure that the fuelbed base is located centrally on the burner tray.** See Fig. 6 below.

Fig. 6



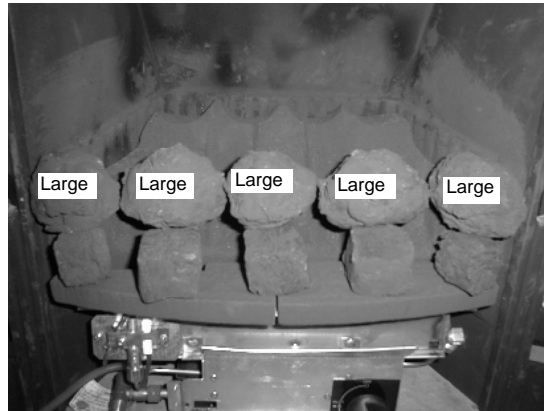
- c) Fit three off medium and two off small square coals as shown in position on the front ceramic rails, see Fig. 7 below.

Fig. 7



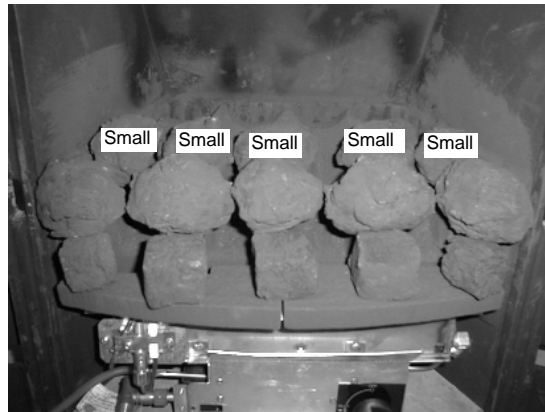
- d) Fit five off large coals into the recess's behind the front row of coals, as shown below in Fig. 8

Fig. 8



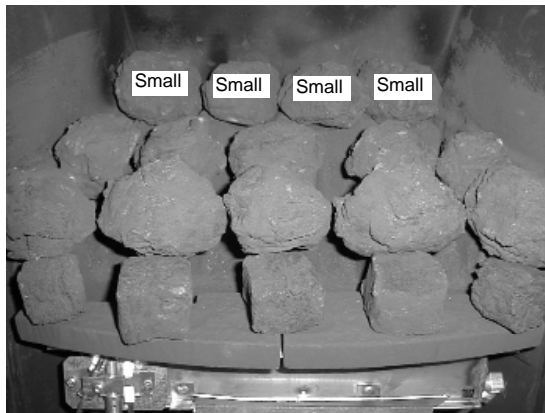
- e) Fit five small coals behind the second row of coals as shown below in Fig. 9

Fig. 9



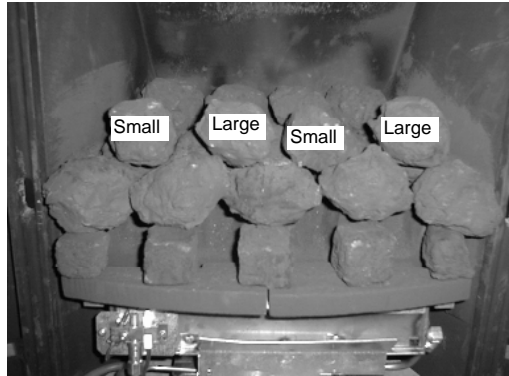
- f) Fit four small coals on the back row as shown below in Fig. 10

Fig. 10



- g) The remaining two large and two small coals should be placed at each end of the third row of coals as shown overpage in Fig. 11

Fig. 11



The exact position and fit of the coals may be finely adjusted to give the best appearance.

Warning : Use only the coal set supplied with the fire. When replacing the coals remove the old coals and discard them. Fit a complete set of coals of the correct type. Do not fit additional coals or any coals other than a genuine replacement set.

3.2 LIGHTING THE APPLIANCE

- a) Turn on the gas isolation tap.
- b) Depress the control knob and turn anti-clockwise to the position marked pilot. Hold in the control knob for a few seconds to purge the pipe work.
- c) Continue to hold-in the control knob and press the igniter button. If the burner does not light, continue to press the igniter button until ignition occurs. Continue to hold the control knob for 5-10 seconds to allow the thermocouple to heat up, if the pilot goes out when the control knob is released, repeat the lighting sequence.
- d) Turn the control knob in the anti-clockwise direction to the high position and the main burner will light.
- e) Turn the control knob clockwise to the low position and the gas input will be reduced to the minimum setting.
- f) Slightly depress the control knob and turn to the pilot position, the main burner will go out but the pilot will remain lit.
- g) Slightly depress the control knob and turn to the off position, the pilot will now be extinguished.

WARNING : If the fire goes out for any reason or is turned off and it is necessary to re-light the fire it is important to allow the fire to cool for 3 minutes before attempting to re-light it

3.3 CHECKING FOR CLEARANCE OF COMBUSTION PRODUCTS

- a) Close all doors and windows in the room.
- b) Light the fire and allow to run for approximately 5 minutes on high position.
- c) After approximately 5 minutes hold a smoke match just inside and below the centre of the lower front edge of the top of the fire. (It is recommended that a suitable smoke match holder is used when checking for clearance of combustion products). All smoke generated should be drawn back into the flue. If slight spillage occurs or if in doubt, repeat the test after a further 5-10 minutes.
- d) If spillage persists, the flue is not functioning correctly and a fault exists. If, after investigation the fault cannot be traced and rectified, the fire must be disconnected from the gas supply and expert advice obtained.
- e) If there is an extractor fan fitted any where in the vicinity of the appliance, or in adjacent rooms the spillage test should be repeated with the fan running on maximum and all interconnecting doors open.
- f) After ensuring that the fire is safe to use it should be left on high position to fully warm up. During this time a slight odour may be noticed, this is due to the "newness" of the fire and will soon disappear. At this stage any minor adjustments to the coals should be made using suitable long handled tongs and taking care not to damage the coals. Finally, hand the Installation and Maintenance Instructions and the Users Instructions over to the customer and explain the operation of the fire.

SECTION 4 MAINTENANCE

Servicing Notes

Servicing should be carried out annually by a competent person such as a CORGI registered engineer. **This is a condition of the Flavel guarantee schemes.**

The service should include visually checking the chimney and fire opening for accumulations of debris and a smoke test to check for a positive up-draught in the chimney.

The condition of the coals should be checked and **if necessary the whole set should be replaced with a genuine replacement set.**

The burner assembly is designed to be removed as a complete unit for ease of access. **After any servicing work a gas tightness check must always be carried out. All sections apply for coal fuelbed model variants.**

For Diagrams refer to Section 2

4.1 Removing the burner assembly from the fire.

- 4.1.1 Prepare work area (lay down dust sheets etc.)
- 4.1.2 Remove the front bars / ash pan cover and put them in a safe location. Remove the loose coals from the fuel bed. Remove the fuelbed matrix & ceramic front rails.
- 4.1.3 Isolate the gas supply and remove the inlet pipe from the appliance inlet elbow. Unscrew and remove the two screws which retain the burner at the base. Remove the burner assembly from the fire.
- 4.1.4 To refit the burner assembly. Push the burner to locate against the rear panel of the cast and secure the burner at the base of the control panel with two screws. Refit the gas supply pipe and carry out a gas tightness test. The ash pan cover and front bars can now be re-positioned.

4.2 Removing the Piezo Igniter

- 4.2.1 Remove the burner assembly as in section 4.1
- 4.2.2 Disconnect the ignition lead from the piezo and unscrew the retaining nut on the rear of the control panel. Withdraw the piezo from the front of the control panel. Re-assemble in reverse order and carry out a gas tightness test. Ensure the heatshield is re-fitted.

4.3 Removing the Control Tap from the fire.

- 4.3.1 Remove the burner assembly as in section 4.1.
- 4.3.2 Pull the control knob off the control tap spindle.
- 4.3.3 Loosen and remove the two gas pipe retaining nuts from the control tap and release the ends of the gas pipes from the control tap body. Remove the screw in thermocouple from the end of the control tap.
- 4.3.4 Unscrew the control tap locknut from the front of the control panel and remove the control tap.
- 4.3.5 To refit a control tap, reassemble in reverse order noting that the control tap locates with a flat in the control panel. Carry out a gas tightness test after re-assembly.

4.4 Removing the Oxy-Pilot Assembly

Note : Because this appliance is fitted with an atmosphere sensing 'Oxy-Pilot' it is not possible to replace the thermocouple separately, because the thermocouple position is factory set to a tight tolerance. Any replacement of parts on the pilot requires a complete new pilot assembly.

- 4.4.1 Remove the burner assembly as in section 4.1
- 4.4.2 Remove the burner heat shield which is held in position by 2 screws.
- 4.4.3 Unscrew and remove the thermocouple retaining nut from the end of the control tap and disconnect the ignition lead from the pilot electrode.
- 4.4.4 Unscrew and remove the two pozi-driv screws which secure the pilot assembly to the burner. Remove the pilot.
- 4.4.5 Re-assemble in reverse order and carry out a gas tightness test.

PARTS SHORTLIST

Replacement of any other parts must be carried out by a competent person such as a CORGI registered gas installer. The part numbers of the main replaceable parts are as follows, these are available from Flavel. (see rear page for contact details)

Coal Pack	B-87350	Coal Fuelbed Matrix	B-87340
L/H Ceramic Front Rail	B-87300	R/H Ceramic Front Rail	B-87310
Gas Valve	B-36990		
Piezo Igniter	B-1320		
Ignition Wire	B-39030		

SECTION FIVE - USER INSTRUCTIONS

5.1 About your Flavel Waverley Inset Tray

The Flavel Waverley Inset Tray incorporates a unique and highly developed fuel bed which gives the realism of a loose coal layout combined with realistic flames and glow. The use of durable ceramic material in the construction of the fuel-bed components ensures long and trouble free operation.

When first using the new fire a slight smell may be noticed. This is due to starch used in the manufacture of the soft ceramic coals or pebbles, it is non-toxic and will soon disappear.

Please take the time to fully read these instructions as you will then be able to obtain the most effective and safe operation of your fire.

IMPORTANT SAFETY INFORMATION

WARNING

This appliance has a naked flame and as with all heating appliances a fireguard should be used for the protection of children, the elderly and infirm. Fireguards should conform to B.S. 8423 : 2002 (Fireguards for use with gas heating appliances).

It is important that this appliance is serviced at least once a year by a CORGI registered gas installer and that during the service the fire is removed from the fire opening and the chimney or flue visually checked for fallen debris or blockages which must be removed. The chimney should also be checked to ensure clearance of flue products. **These are conditions of the manufacturers guarantee. After installation or during servicing a spillage test must always be carried out.**

Rubbish of any type must NEVER be thrown onto the fuel-bed, this could affect safe operation and damage the fire.

Any debris or deposits should be removed from the fuel-bed from time to time. This may be carried out by referring to the cleaning section as described later in this book.

Only the correct number and type of coals must be used and only complete and genuine replacement sets must be sourced from CFM Europe Ltd. Ltd (See rear cover of this book for contact details)

The appliance must only be used with the coal set supplied and must not be used with other coals.

Always keep furniture and combustible materials well clear of the fire and never dry clothing or items either on or near to the fire. Never use aerosols or flammable cleaning products near to the fire when it is in use.

The ceramic fuel-bed remains hot for a considerable period after use and sufficient time should be allowed for the fire to cool before cleaning etc. The fire must only be operated with the cast surround supplied with the fire.

5.2 Operating the Fire

To light the fire proceed as follows:-

- 1) Depress the control knob and turn anti-clockwise to the position marked pilot. Hold in the control knob for a few seconds to allow the gas to reach the pilot.
- 2) Continue to hold-in the control knob and press the igniter button. If the pilot does not light, continue to press the igniter button until ignition occurs. When the pilot has lit, continue to hold the control knob in for 5-10 seconds to allow the thermocouple to heat up, if the pilot goes out when the control knob is released, repeat the lighting sequence.

In the unlikely event of a failure of the igniter, the fire can be lit as follows :-
Depress the control knob and turn anti-clockwise to the position marked pilot. Hold in the control knob for a few seconds to allow the gas to reach the pilot. Insert the tip of a lit taper in behind the front ceramic coals on the left hand side. This will light the pilot flame. When the pilot has lit, continue to hold the control knob in for 5-10 seconds to allow the thermocouple to heat up, if the pilot goes out when the control knob is released, repeat the lighting sequence.

- 3) After lighting, turn the control knob in the anti-clockwise direction to the high position and the main burner will light. It is recommended that for most efficient performance the fire is allowed to warm up for a few minutes with the gas control on maximum.
- 4) The gas control can be turned clockwise from the maximum position to give the desired heat output.

WARNING

If the fire goes out for any reason or is turned off and it is necessary to re-light the fire it is important to allow the fire to cool for 3 minutes before attempting to re-light it.

SPILLAGE MONITORING SYSTEM

This appliance is fitted with a spillage monitoring system which shuts down the fire if the evacuation of combustion products from the fire is affected by a partially or fully blocked flue. If this system operates the fire will go out. If this occurs, leave the fire for at least three minutes then follow the lighting procedure as described in the previous section. **In the event of repeated operation a CORGI registered gas installer must be called to investigate and rectify the cause.**

5.3 Cleaning - WARNING

Before attempting any cleaning operation ensure that the fire has been allowed to fully cool. Black painted metal parts should be gently cleaned with a damp cloth.

Cleaning the Fuelbed

We do not recommend cleaning of the coals or fuelbed components as these are fragile and damage may result. **None of these parts must be washed or exposed to any cleaning agents or water.** Any damaged parts must be replaced by contacting CFM Europe Ltd.. (See rear cover of this book for contact details).

The coals must only be replaced with a complete and genuine replacement set and the fire must never be run with the wrong number or damaged coals.

The fuel-bed must be carefully re-assembled as stated in section 3.1

USER REPLACEABLE PARTS

The only user replaceable parts on this fire are the fuelbed components and coals which may be replaced as described in the above section. Replacement of any other parts must be carried out by a competent person such as a CORGI registered gas installer. The part numbers of the user replaceable parts are as follows, these are available from CFM Europe Ltd. (See rear cover of this book for contact details).

Coal Pack	B-87350	Coal Fuelbed Matrix	B-87340
L/H Ceramic Front Rail	B-87300	R/H Ceramic Front Rail	B-87310

5.4 Replacing the Fuel-bed & Ceramics

- a) Position the two halves of the ceramic front rail onto the support as shown below in Fig. 11

Fig. 11



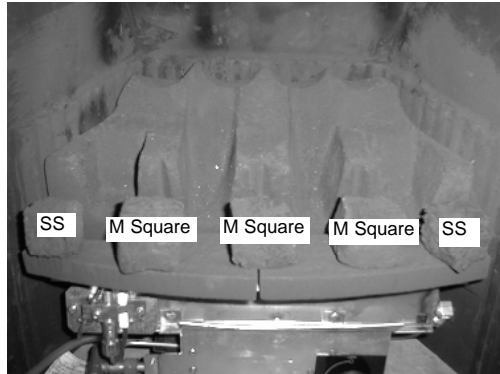
- b) Place the fuelbed base centrally on to the fuelbed support and push fully backwards to the rear face of the cast iron back panel. **Make sure that the fuelbed base is located centrally on the burner tray.** See Fig. 12 below.

Fig. 12



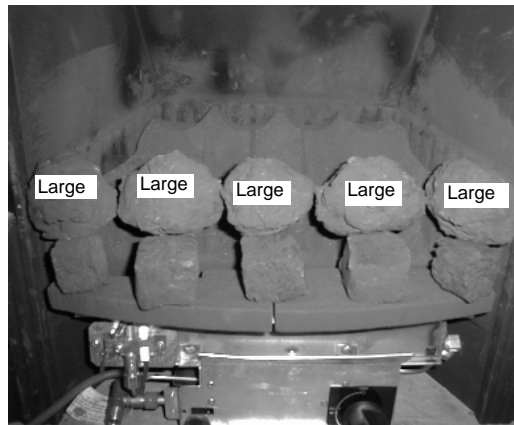
- c) Fit three off medium and two off small square coals as shown in position on the front ceramic rails, see Fig. 13 below.

Fig. 13



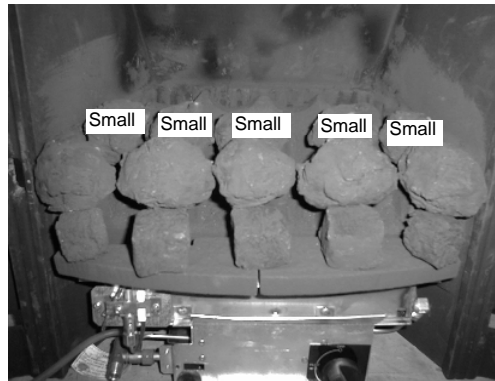
- d) Fit five off large coals into the recess's behind the front row of coals, as shown below in Fig. 14

Fig. 14



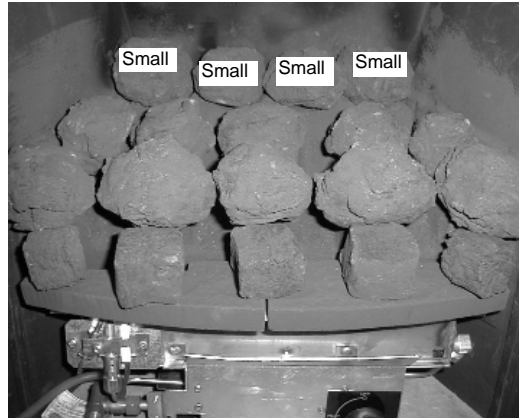
- e) Fit five small coals behind the second row of coals as shown below in Fig. 15

Fig. 15



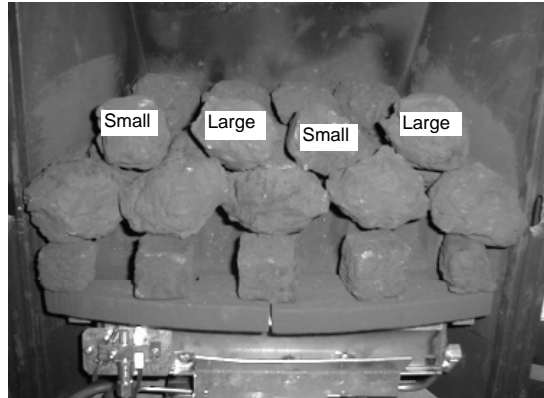
- f) Fit four small coals on the back row as shown below in Fig. 16

Fig. 16



- g) The remaining two large and two small coals should be placed at each end of the third row of coals as shown overpage in Fig. 17

Fig. 17



The exact position and fit of the coals may be finely adjusted to give the best appearance.

Warning : Use only the coal set supplied with the fire. When replacing the coals remove the old coals and discard them. Fit a complete set of coals of the correct type. Do not fit additional coals or any coals other than a genuine replacement set.

Due to our policy of continual improvement and development the exact accuracy of descriptions and illustrations cannot be guaranteed.

Part no. B-86980
Issue 2



CFM Europe Ltd
Trentham Lakes
Stoke-on-Trent
Staffordshire
ST4 4TJ

Telephone - General Enquiries : (01782) 339000
Telephone - Service / Repair : (08700) 101187