



# Ecco 16"

**DECORATIVE PEBBLE FUEL EFFECT GAS FIRE**

**Installation and Maintenance Instructions**

**Hand these instructions to the user**

**Model No. KRDP00RN is only 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	KRDP00RN
Gas Type	G20
Main injectors (2 off)	Size 235
Pilot Type - Copreci Single Flame	21100 / 162
Max. Gross Heat Input :	6.0 kW
Min. Gross Heat Input :	3.5 kW
Cold Pressure :	20.0 +/-1.0 mbar
Ignition :	6V Battery Generator
Electrode Spark Gap	4.5mm
Packed Weight (with Ecco 16" trim)	28.0 kg

**Fire box Dimensions (with Ecco 16" trim fitted)**

Width :	(with Ecco 16" trim fitted)	550mm
Height :	(with Ecco 16" trim fitted)	620mm
Depth :	(Ecco 16" trim only)	65mm
Depth :	Flush-fit (from mounting face to rear of the fire)	170mm

Hearth Panel :-	Width = 690mm
	Forward Projection = 380mm
	Height = 50mm

## INSTALLATION REQUIREMENTS

### 1.1 CONDITIONS OF INSTALLATION

#### In Great Britain :-

It is the law that all gas appliances are installed only by a CORGI Registered Installer, in accordance with these installation instructions and the Gas Safety (Installation and Use) Regulations 1998 as amended. Failure to install appliances correctly could lead to prosecution. It is in your own interest and that of safety to comply with the law.

The installation must also be in accordance with all relevant parts of the Local and National Building Regulations where appropriate, the Building Regulations (Scotland Consolidation) issued by the Scottish Development Department, and all applicable requirements of the following British Standard Code of Practice.

1. B.S. 5871 Part 3 Installation of Decorative Fuel Effect Gas Fires
2. B.S. 6891 Installation of Gas Pipework
3. B.S. 5440 Parts 1 & 2 Installation of Flues and Ventilation
4. B.S. 1251 Open fire place components
5. B.S. 715 Metal flue pipes for gas appliances
6. B.S. 6461 Part 1 Installation of Chimneys and flues
7. B.S. 1289 Clay Flue Blocks and Terminals
8. I.S. 813 : 1996 Domestic Gas Installation (Republic of Ireland)

**No purpose made additional ventilation is normally required for this appliance, when installed in G.B.**

#### In Republic of Ireland :-

**When Installing in I.E. please consult document I.S. 813 : 1996 Domestic Gas Installation, which is issued by the National Standards Authority of Ireland. If installing in Northern Ireland, please consult local building regulations. Any purpose made ventilation must be checked periodically to ensure that it is free from obstruction.**

### 1.2 FLUE AND CHIMNEY SUITABILITY

This appliance is designed for use with conventional brick built or lined chimneys and fabricated flues. It is also suitable for use with pre-cast flue blocks conforming to B.S. 1289 and metal flue boxes conforming to BS 715. All flues must conform to the following minimum dimensions.

<b>Minimum diameter of circular flues</b>	<b>125 mm (Without Flue Restrictor Fitted)</b>
<b>Minimum effective height of all flue types</b>	<b>3 metres</b>

**When fitting to conventional chimneys or 175mm flues it may be desirable to leave the flue restrictor baffle (supplied) in place to reduce the flue flow and increase the efficiency of the fire. Safe clearance of products must always be checked by carrying out a smoke match test as described.**

### **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<sup>0</sup>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.

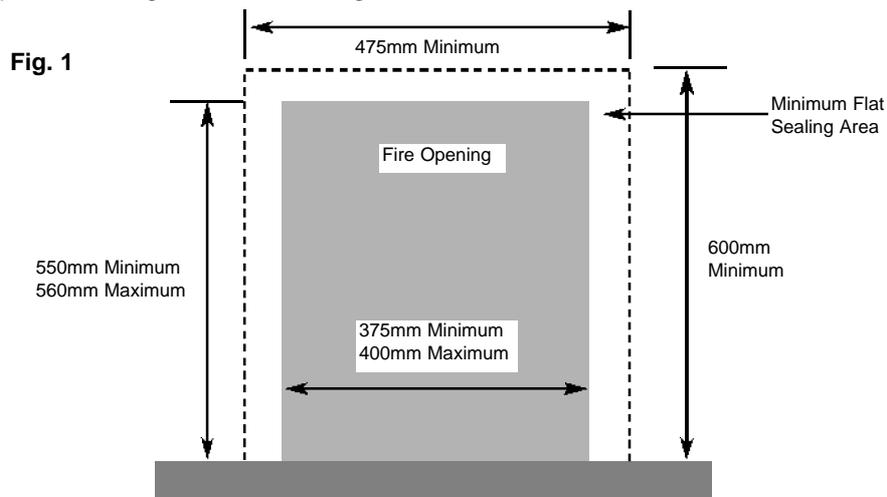
1. Check that the chimney / flue only serves one fire place and is clear of any obstruction. Any dampers or register plates must be removed or locked in the open position.
2. Brick/stone built chimneys or any chimney or flue which has been used for an appliance burning fuel other than gas must be thoroughly 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 its length and check that there is no leakage of smoke through the structure of the chimney during and after the smoke pellet test. **With pre-cast flues it is especially important to check the inside of the flue for extruded cement / sealant protruding from the joints between the flue blocks. If present, these should be removed by rodding the flue before proceeding with the installation.**
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 between 375 and 400 mm wide, and between 550 and 560mm high. 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



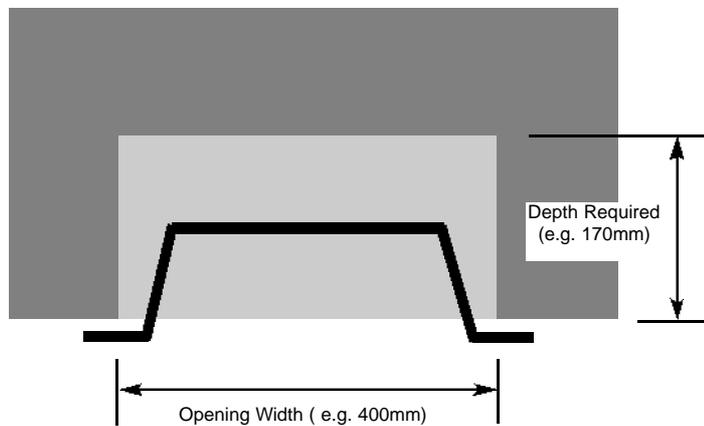
When installing into a brick built chimney, you must ensure that there is sufficient depth to accommodate any debris which may fall from the chimney. This depth must be sufficient to accommodate 12 litres of volumetric space.

**Table A - Installation Depth Requirements for a Kinder Ecco 16" being installed into a brick built chimney, requiring 12.0 litres of debris collection volume (fig. 2).**

When installing this product into a builders opening / brick-built chimney, the depth required is a minimum of 170mm. The 12.0 litres of debris collection volume is achieved by the space available taper down the sides of the firebox. This appliance is suitable for use in fireplaces fitted with an existing chairbrick without the need for removal of the chairbrick, providing the minimum depth of the fireplace exceeds 260mm. If the depth is less than 260mm then the chairbrick must be removed.

For example, if the appliance was to be fitted into a 400mm wide opening (without a chairbrick), the depth required would be 170mm. See fig. 2 below for explanatory diagram.

**Fig. 2**



## 1.7 FITTING TO PRE-CAST FLUE INSTALLATIONS

**When installing this appliance into pre-cast flues, always ensure that the spigot restrictor baffle has been removed.**

**To install the fire box in to pre-cast flue starter blocks, there must be at least 170mm from the mounting face of the fire to the rear of the pre-cast flue starter block** to allow sufficient space for debris collection. It is important to consider this depth when choosing a fire surround as the thickness of the fire surround must be sufficient to give a total depth of **at least 170 mm to the rear of the starter block**, otherwise there will be insufficient depth. To increase this depth the optional black 50mm spacer frame may be purchased, this will reduce the depth required to **120mm** or the fire surround may be packed away from the wall using suitable non-combustible board, providing the installation is correctly sealed. If in doubt about the suitability of the fire contact Kinder Fires for advice before proceeding. **This fire has been designed to fit standard 100mm pre-cast starter blocks with 3 inch rebated surrounds.**

It is important to ensure that the pre-cast flue is in good condition and is free from extruded mortar or sealant from between the flue blocks.

**This appliance has been tested for use in a pre-cast flue block complying with BS EN 1858. In accordance with BS EN 1858, pre-cast flues built with directly plastered faces (front or rear) are not correctly installed as to ensure proper operation with any type of gas fire. In some instances of this flue construction, temperature cracking of surface plaster may occur through no fault of the appliance. An air gap or some form of insulation material should be installed to prevent normal flue temperatures from damaging wall surfaces.**

## 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 / BS EN 1856-2, (for example the Selkirk LFE 175 box). The box must have a minimum flue diameter of 175mm internal and minimum internal dimensions of 170mm deep by 580mm high by 350mm 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 HEARTHS

For conventional installations, this appliance must only be installed with the Ecco 16" hearth panel as supplied with the product.

#### **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. It is not possible to replace individual parts on the pilot system on this appliance, only a complete pilot assembly (including the thermocouple) may be fitted.

#### **1.11 “HOLE IN THE WALL” APPLICATIONS**

For “hole in the wall” applications this appliance must only be installed either :-

- a) With the hearth supplied fitted at floor level and the base of the firebox at any height up to 225mm above the floor level, e.g. above the level of the carpet or floor covering.
- b) If the hearth supplied is not to be fitted, the base of the firebox must be 225mm above the floor level.
- c) Where this appliance is installed into applications where the elderly, infirm or young children, may come into contact with it, a fire guard in accordance with B.S. 8423 : 2002 should be fitted.

**This product must not be fitted without either the hearth supplied, or a stub hearth that conforms to the dimensions listed above.**

**It is also important to obtain advice from a qualified builder / structural engineer to ensure relevant requirements of building regulations will be met when this fire is fitted in “hole in the wall applications”.**

## **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

1off	Fire box / burner assembly
1off	Boxed ceramic griddle, ceramic front rail and 10 synthetic pebbles
1off	Loose items bag containing the following :-
4off	Screws & Rawlplugs (for securing firebox where cable method cannot be used)
1off	Length of aluminium foil tape
2off	Set of screws & rawlplugs to secure hearth panel
1off	Cable Fixing Kit
1off each	User instruction book and Installation book
1off	Guarantee Form
1off	Ecco 16" trim and front section
1off	Ecco 16" hearth panel
1off	Ecco 16" glass panel

### **2.2 INSTALLING THE FIRE BOX**

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, insulated pre-fabricated metal flue box to BS 715 / BS EN 1856-2 or Pre-Cast Flue to BS EN 1858**

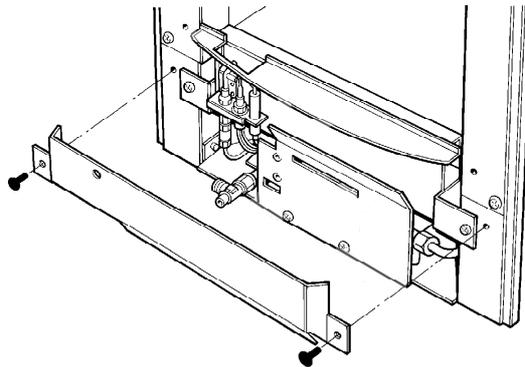
**When installing into 125mm (5 inch) diameter lined brick or stone flue, or insulated pre-fabricated metal flue box to BS 715 / BS EN 1856-2 and pre-cast flues the restrictor baffle must not be fitted.**

**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.**

**Proceed as follows :-**

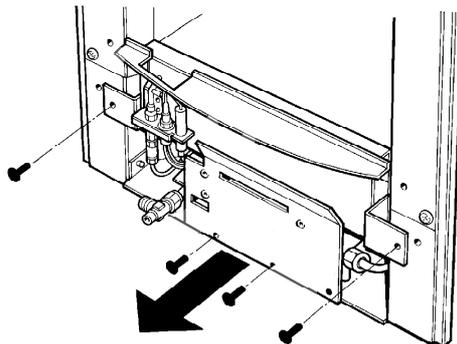
- a) Remove the trim by unhooking from the firebox. Remove the ashpan from the fire, which is held in place by magnets. Remove the burner heat shield from the front of the fire box to allow access to the burner. See fig. 3 below.

**Fig. 3**



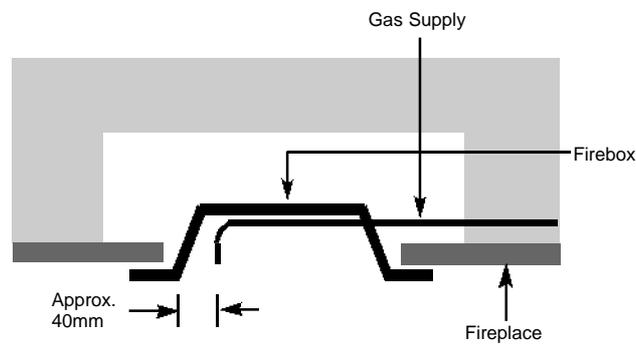
- b) Ensure that the hearth is protected from damage and carefully lift the fire box into the fire opening, then slide it back into position. Check that the fire box flange fits flush to the sealing face of the fire surround or wall with no gaps present.
- c) Remove the four retaining screws securing the burner to the firebox. The base of the burner unit can now be pulled forward, allowing the burner to be removed outwards and downwards from the fire box. See fig. 4 below.

**Fig. 4**

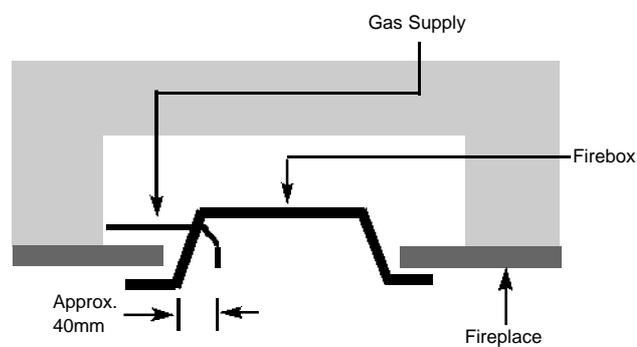


- d) Whilst the fire box is still in position, decide which side the gas supply is to enter the fire from. If concealed pipe work is required plan the pipe run to enter the fire box through one of the openings in the sides or rear of the fire box below the fuelbed support panel and connect to the isolating / inlet elbow. The gas connection to the appliance should be made to the isolating / inlet elbow using 8mm rigid tubing. There must be no soldered joints within the firebox. See fig. 5 & 6 below for suggested concealed pipe layouts.

**Fig. 5**



**Fig. 6**



**Note : Before breaking into the gas supply a pressure drop test should be carried out to establish that the existing pipework is sound.**

Carefully withdraw the fire box from the opening to enable the gas supply and fire fixing to be completed.

There is a choice of methods of fixing the firebox which are provided to enable the installer to deal with any type of installation.

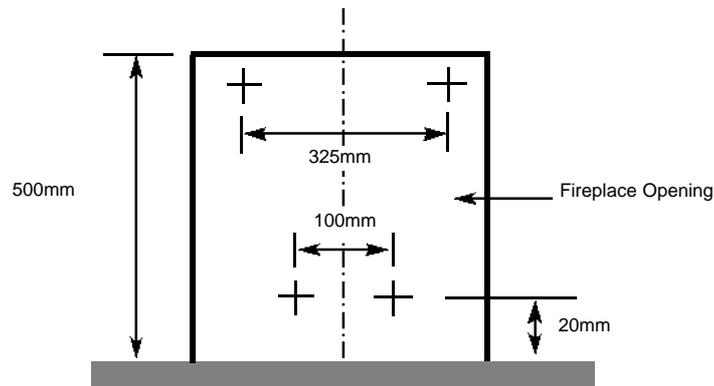
**The preferred method of fixing which is suitable for almost all situations is the cable fixing method which is described in the following section in detail.**

The fire may be secured using the cable method as described below, or alternatively, in installations where the cable method is not suitable (eg. loose masonry in rear of fire opening) the fire box can be secured to the fire surround using the screws and rawlplugs provided. The foam seal is fitted during manufacture around the perimeter of the firebox in a "goalpost" arrangement to ensure a seal is achieved to the fireplace / opening.

To fit using the **preferred** cable method proceed as follows-

- e) Mark out and drill 4 off No 14 (7mm) holes in the back face of the fire opening in the positions shown below in fig. 7

**Fig. 7**

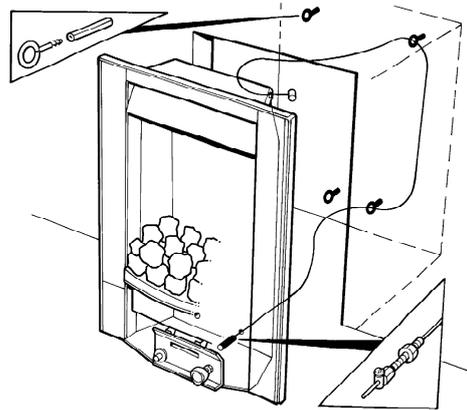


Fit the wallplugs provided and screw the fixing eyes securely into the rear of the fire opening. If the clearance at the rear of the fire is at the minimum specified for a precast flue application, it may be necessary to bend over the lower fixing eyes after screwing them fully in to the rear of a pre-cast starter block.

- f) Uncoil the two fire fixing cables and thread one end of each of the cables through one of the two holes on each side of the flue outlet shroud.

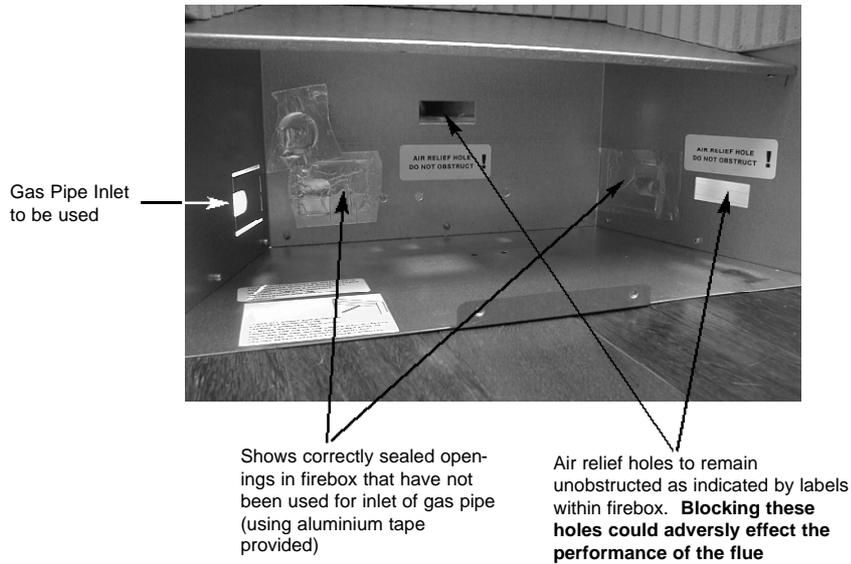
- g) Position the fire carefully on the (protected) surface of the hearth and reach into the fire opening. Thread each of the cables vertically downwards through the pair of fixing eyes on the same side of the fire. Thread the free end of the cables through the corresponding circular hole on each side of the lower rear of the fire. Carefully slide the fire box back into the fire opening and pull both cables tight.
- h) Thread a tensioning screw over each of the cables and ensure that the tensioning nut is screwed fully up against the hexagon shoulder of the tensioning screw (this provides maximum travel for the tensioning nut).
- i) Fit a screwed nipple on to each of the cables and pull hand tight up against the tensioning screw, then secure each nipple with a flat bladed screwdriver. See fig. 8 below

**Fig. 8**



- j) Evenly tighten the tensioning nuts to tension both cables and pull the fire snugly against the wall. Do not overtighten, it is only necessary to pull the seal up against the sealing face of the wall or fire surround, it does not need to be compressed. Check that there are no gaps behind the seal.
- k) With the fire securely in place and the concealed gas connection made through either of the access holes in the sides or rear of the fire, the holes should be closed around the pipe to prevent leakage of air through the gap around the pipe. Use the length of foil tape supplied (see Fig. 9 overpage)
- l) Refit the burner. Fit the four retaining screws and check that the burner is correctly locked into position.

**Fig. 9**



- m) Refit the front burner heat shield to the sides of the fire box (2 Screws) and secure the Ecco16" trim to the fire as described below and shown overpage in Fig. 10 / 11.
- n) **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.**
- o) To fit the Ecco 16" trim, locate the trim over the lip at the top of the box, then screw into position with the 2 screws at the bottom L/H & R/H sides as shown over page in Fig. 10 / 11. Refit the ashpan which is held in place with magnets.

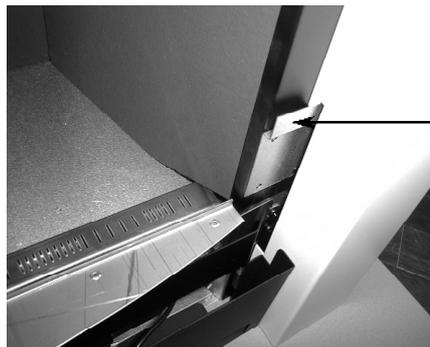
**CFM EUROPE LTD. WILL NOT BE LIABLE FOR GUARANTEE CLAIMS THAT ARE AS A DIRECT RESULT OF THE UNUSED GAS INLET APERTURES NOT BEING CORRECTLY SEALED.**

**Fig. 10**



Top of Ecco 16" trim locates over the lip at the top of the firebox

**Fig. 11**

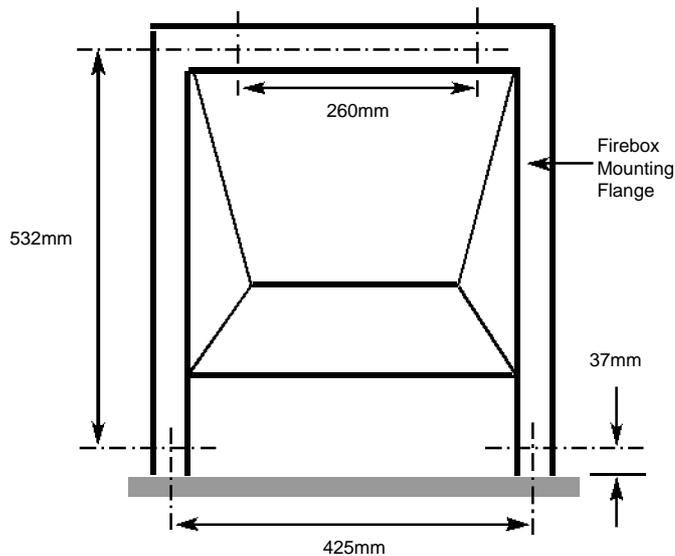


Fix Ecco 16" trim to firebox using locating slots at bottomL/H and R/H sides

The other firebox fixing method is as follows :-

In installations where the cable method is not suitable (e.g. loose masonry in rear of fire opening) the firebox can be secured to the fire surround using four screws and wall plugs provided. Below (fig.12) is a diagram to indicate the hole centre positions available on the firebox to facilitate the screw fixing to the fireplace / surround.

**Fig. 12**



### 2.3 GAS TIGHTNESS AND INLET PRESSURE

- Remove the pressure test point screw from the inlet elbow and fit a manometer.
- Turn on the main gas supply and carry out a gas tightness test.
- Depress both the round buttons on the handset. The fire will then commence its ignition sequence and will light to high. See page 23 for full details of the operating method for the fire.
- Check that the gas pressure is **20.0 mbar (+/- 1.0mbar) 8.0 in w.g.(+/- 0.4 in w.g.)**
- Turn off the fire, remove the manometer and refit the pressure test point screw. Check the pressure test point screw for gas tightness with the appliance turned on using a suitable leak detection fluid or detector.

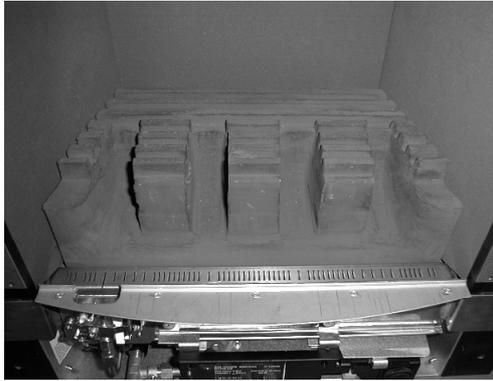
### SECTION 3 ASSEMBLING FUEL BED AND FRONT SECTION

**NOTE :** The position of the fuel-bed components are critical to the performance of the product. Therefore please ensure that the fuel-bed components are positioned as described in the following section prior to requesting a service call due to soot build up, poor flame pattern etc.

#### 3.1 ASSEMBLING THE CERAMICS AND FUEL BED

- a) Place the ribbed ceramic fuelbed base on top of the fuelbed support and pull fully forwards to the burner. **Make sure that the fuelbed base is located centrally in the fire box. Ensure that the fuelbed base fit fully down onto the fuel bed support and is not lodged on the burner. See fig. 13 below.**

Fig. 13



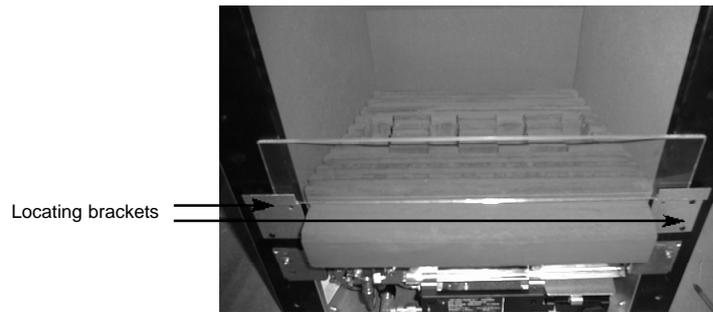
- b) Position front ceramic rail on burner front ceramic support and ensure that the locating channel in the front ceramic rail is correctly located onto the lip on the burner front ceramic support. (See fig. 14 below)

Fig. 14



- c) Position the ceramic glass panel into the retaining brackets, utilising the slot in the fuelbed front rail. See Fig. 15 below

**Fig. 15**



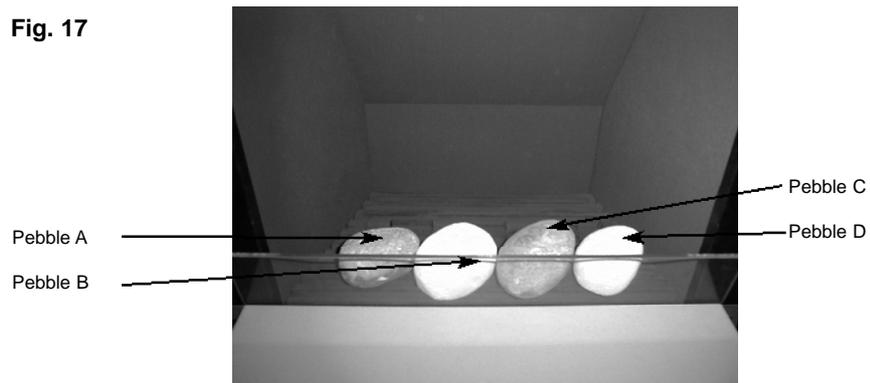
- d) Locate the front section onto the retaining brackets as shown below in Fig. 16

**Fig. 16**



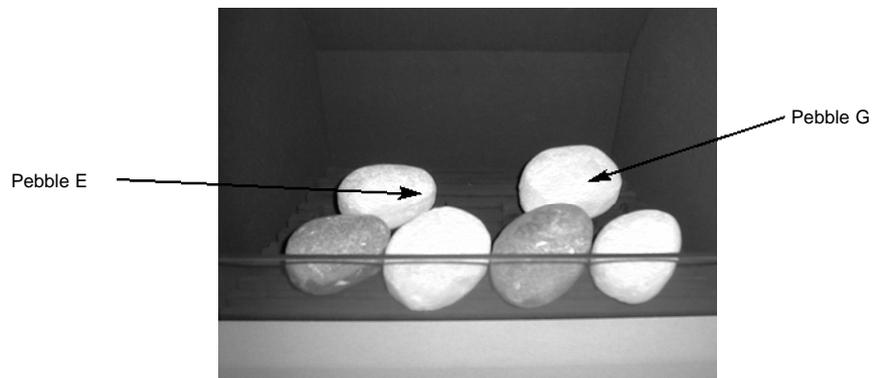
- e) Pick pebbles A to D and arrange along the the front section of the fuelbed griddle, ensuring that they are placed as shown below. (See fig. 17 below). **Ensure a 5mm gap is kept between this row of pebbles and the glass panel.**

**Fig. 17**



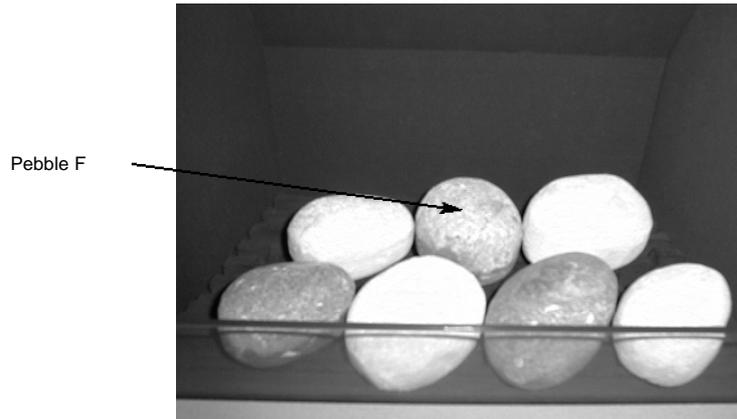
- f) Select pebbles E, & G and arrange on the fuelbed griddle as shown in the horizontal position, as shown below. (See fig. 18 below)

**Fig. 18**



- g) Select pebble F and arrange in between pebbles E & G, in a forward plane as shown below in Fig. 19

**Fig. 19**



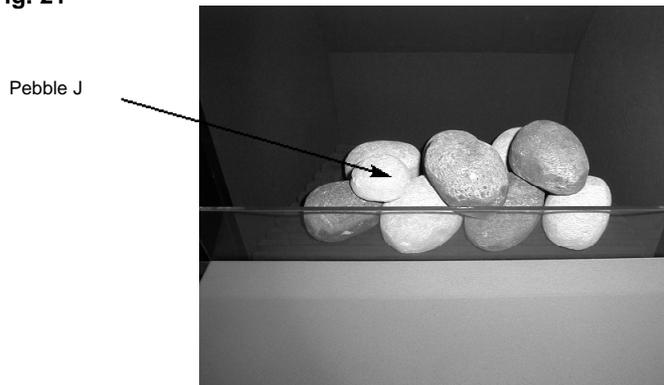
- h) Select pebbles H & I and position on top of the front row of pebbles as shown below in Fig. 20

**Fig. 20**



- i) Select the remaining small pebble (J) and place at the L/H side of the 2nd row of pebbles as shown below in Fig. 21

**Fig. 21**



The exact position and fit of the pebbles may be finely adjusted to give the most pleasing and random appearance.

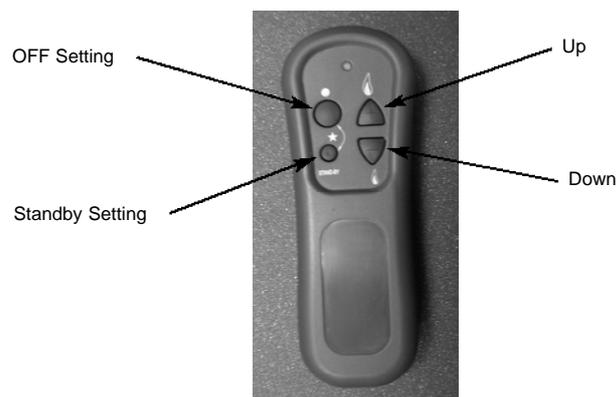
**Warning :** Use only the pebbles supplied with the fire. When replacing the pebbles remove the old pebbles and discard them. Fit a complete set of pebbles of the correct type. Do not fit additional pebbles or any pebbles other than a genuine replacement set.

To ensure that the release of fibres from these R.C.F (Refractory Ceramic Fibre) articles is kept to a minimum, during installation and servicing we recommend that you use a HEPA filtered vacuum to remove any dust accumulated in and around the appliance before and after working on the appliance. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within heavy duty polythene bags, clearly labelled as "RCF waste". RCF waste is classed as a "stable", non reactive hazardous waste and may be disposed of at a landfill licensed to accept such waste. Protective clothing is not required when handling these articles, but we recommend you follow the normal hygiene rules of not smoking, eating or drinking in the work area, and always wash your hands before eating or drinking.

### 3.2 LIGHTING THE APPLIANCE

- a) The Remote control handset generates an infrared signal, which will be received by the sensor situated at the front right of your fire, behind the black controls cover. This infrared signal requires direct line of sight from the handset to the sensor on the fire to ensure good operation. If the handset is lost or broken, the fire can be lit manually, see the user instructions for details on how to operate the fire manually.
- b) To light the appliance using the handset, ensure the switch on the control panel is set to automatic. Point the handset at the fire and press the 2 left hand buttons together. The fire will emit a “beep” sound, the buttons can now be released. After a few seconds an audible clicking can be heard and then the fire will light the pilot and then light the main burner. The ignition cycle will take approximately 20 seconds.
- c) To reduce the level of heat input on the fire, point the handset at the fire and press the small flame button.
- d) To increase the level of heat input on the fire, point the handset at the fire and press the large flame button.
- e) To leave the fire in the standby mode (pilot only running) press the small round button on the handset.
- f) To switch the appliance off completely, press the large round button on the handset, the fire will then switch off.

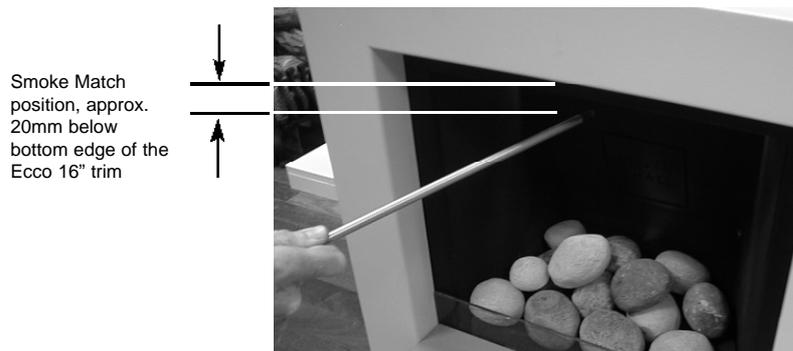
**Fig. 22**



### 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 Ecco 16" trim (see fig. 23 below). (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. **If the test indicates that spillage is occurring and the flue restrictor baffle has been fitted, it should be removed and the test repeated after the fire has cooled.**
- 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 anywhere 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 pebbles should be made using suitable long handled tongs and taking care not to damage the pebbles.  
**Finally, hand the Installation and Maintenance Instructions and the Users Instructions over to the customer and explain the operation of the fire.**

Fig. 23



## **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 Kinder Fires 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 pebbles 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.**

### **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 Ecco 16" trim and secure in a safe location. Remove the ashpan (held in place by magnets). Remove the loose pebbles from the fuel bed. Remove the front ceramic from the rail, and the fuelbed base. Unscrew the two pozi-drive fixing screws which secure the burner heat shield and remove it from the fire.
- 4.1.3 Isolate the gas supply and remove the inlet pipe from the appliance inlet elbow. Unscrew and remove the four screws which retain the burner. Remove the HT lead from the Pilot electrode and remove the burner assembly from the fire, ensuring not to pull too tightly on the PCB wiring.
- 4.1.4 To refit the burner assembly. Ensure wiring is fitted correctly to the PCB assembly. Push the base of the control panel fully into the fire and secure with the four screws. Refit the gas supply pipe and carry out a gas tightness test. Refit the burner heat shield then refit the pebbles and fuelbed components referring to section 3 for the correct coal lay out. The ash pan cover can now be re-positioned.

## **4.2 Removing the Valve / Solenoid Assembly**

- 4.2.1 Remove the burner assembly as in section 4.1
- 4.2.2 Remove the thermocouple retaining nut from the solenoid. remove the main pipe, inlet pipe and pilot pipe from the solenoid.
- 4.2.3 Remove the solenoid retaining screws and remove. Re-assemble in reverse order and carry out a gas tightness test.

## **4.3 Removing the 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.**

- 4.3.1 Remove the burner assembly as in section 4.1.
- 4.3.2 Unscrew the thermocouple retaining nut from the solenoid.
- 4.3.3 Loosen the pilot nut and remove two screw retaining the pilot assembly.
- 4.3.4 Re-assemble in reverse order and carry out a gas tightness test.

**Note : Prior to replacing the oxypilot on this product due to suspected failure of the component, please remove all debris that has collected on the lint guard of the oxypilot itself.**

## **4.4 Replacing the Batteries (Within the Firebox)**

- 4.4.1 Remove the fender and ashpan assembly. The battery holder is located on the Right Hand side of the appliance .
  - 4.4.2 Remove the battery pack with care and then disconnect the battery lead at the white rectangular plug and socket.
  - 4.4.3 Replace in reverse order and check correct operation of the appliance.
- NB The handset uses one LR61 (9v) and should be replaced by removing the cover on the rear of the handset.

**ENSURE THE BATTERIES ARE CONNECTED TO THE CORRECT POLARITY POSITIVE (+), NEGATIVE (-)**

## **PARTS SHORTLIST**

Replacement of parts must be carried out by a competent person such as a CORGI registered gas installer. The part numbers of the replaceable parts are as follows, these are available from your local stockist, whose details can be found on the CFM Europe website, address stated below.

Fuelbed rear	B-68290
Fuelbed front	B-68300
Complete Ceramic Pack	B-68630
Replacement pebble set	B-67590
L/H Fibre Board	B-56200
R/H Fibre Board	B-56210
Upper Rear Fibre Board	B-56230
Lower Rear Fibre Board	B-56220

**Due to our policy of continual improvement and development the exact accuracy of illustrations and descriptions contained in this book cannot be guaranteed.**

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

[www.cfm-europe.com](http://www.cfm-europe.com)

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

