



# Carmello HE

## HIGH EFFICIENCY BALANCED FLUE INSET ROOM HEATER

### Installation, Maintenance & User Instructions

Hand these instructions to the user

Model No's BCML\*\*RN is for use on Natural Gas (G20) at a supply pressure of 20 mbar in G.B. / I.E.

Model No's BCML\*\*RP is for use on Propane Gas (G31) at a supply pressure of 37 mbar in G.B. / I.E.

\*\* Denotes trim & colour variant

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Model numbers **BCML\*\*RN & BCML\*\*RP** are manufactured by:-

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

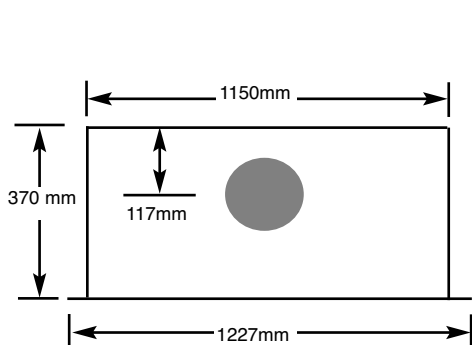
## SECTION 1 INFORMATION AND REQUIREMENTS

### 1.0 APPLIANCE INFORMATION

Main injector : (1 off)	Stereomatic – size 2.55 (NG) Stereomatic – size 1.65 (LPG)
Pilot Type :	G20 (NG) - Polidoro G27.2 G31 (LPG) - Polidoro G24.1
Max. Gross Heat Input :	9.5 kW
Min. Gross Heat Input :	5.5 kW
Gas Rate : (High)	NG = 0.878 m <sup>3</sup> /hr, LPG = 0.357 m <sup>3</sup> /hr
Gas Rate : (Low)	NG = 0.508 m <sup>3</sup> /hr, LPG = 0.207m <sup>3</sup> /hr
Cold Inlet Pressure :	G20 - 20.0+/-1.0 mbar (8.0 +/- 0.4 in w.g.) G31 - 37.0+/-1.0 mbar (14.8 +/- 0.4 in w.g.)
Ignition :	Via remote handset, integral to gas valve
Electrode Spark Gap :	4.0mm
Packed Weight Combustion Chamber :	76.0 kg (Pack 1 of 2)
Packed Weight Flue Terminal Pack :	16.0 kg (Pack 2 of 2)
Supply Voltage :	230V a.c.
Supply Frequency :	50Hz
Supply Fuse :	3 Amp to BS 1362
Electrical Supply Required	230v AC, 50Hz

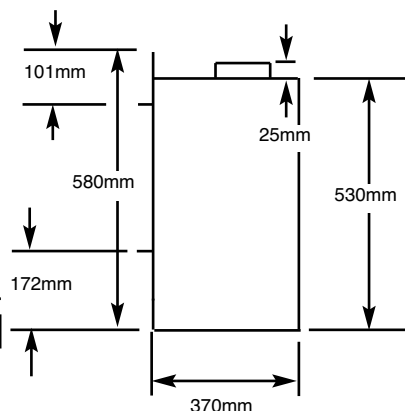
**Fig. 1**

**Top View of Combustion Chamber**



**Fig. 2**

**Side View of Combustion Chamber**



# **INSTALLATION REQUIREMENTS**

## **1.1 CONDITIONS OF INSTALLATION**

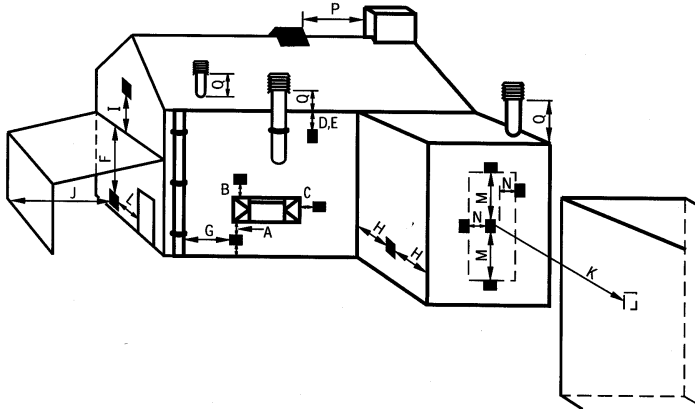
It is the law that all gas appliances are installed only by a GAS SAFE Registered Installer, in accordance with these installation instructions and the Gas Safety (Installation and Use) Regulations 1998 as amended. Failure to install appliances correctly could lead to prosecution. It is in your own interest 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 1 Installation of Gas Fires
2. B.S. 6891 Installation of Gas Pipework
3. B.S. 5440 Parts 1 & 2 Installation of Flues and Ventilation
4. I.S 813 : 1996 Domestic Gas Installation, issued by the National Standards Authority of Ireland.

## 1.2 FLUE TERMINAL POSITION

The minimum acceptable dimensions from the flue terminal to obstructions and ventilation openings are shown below and listed in the table. It is important that the position of the flue allows the free passage of air across it at all times. The minimum acceptable space from the flue terminal to obstructions and ventilation openings are specified below (Fig. 3)

Fig. 3



DIMENSION	TERMINAL POSITION	MINIMUM DIMENSION
A	Directly below an opening, air brick, opening window	300mm (12in)
B	Above an opening, air brick, opening window	300mm (12in)
C	Horizontally to an opening, air brick, opening window etc.	
D	Below gutters, soil pipes or drain pipes	300mm (12in)
E	Below eaves	300mm (12in)
F	Below balconies or car port roof	600mm (12in)
G	From a vertical drain pipe or soil pipe	300mm (12in)
H	From an internal or external corner	600mm (24in)
I	Above ground roof or balcony level	300mm (12in)
J	From a surface facing the terminal	600mm (24in)
K	From a terminal facing the terminal	600mm (24in)
L	From an opening in the car port	1200mm (48in)
M	Vertically from a terminal on the same wall	1500mm(59in)
N	Horizontally from a terminal on the same Wall	300mm (12in)
O	NOT APPLICABLE	N/A
P	NOT APPLICABLE	N/A
Q	NOT APPLICABLE	N/A

### **1.3 SHELF POSITION**

The fire may be fitted below a combustible shelf providing there is a minimum distance of 300mm 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.

### **1.4 HEARTHES**

This appliance does not require the fitting of a hearth that projects in front of it when installed into a recess in either an existing chimney breast or a studded wall, providing the appliance is installed a minimum of 225mm above the floor level. The appliance must however stand on a non-combustible base within the opening that is a minimum thickness of 12mm

### **1.5 APPLIANCE EFFICIENCY DECLARATION**

The efficiency of this appliance has been measured as specified in BS EN 613 : 2001 and the result is 68% on both Natural Gas & LPG. The gross calorific value of the fuel has been used for this efficiency calculation. The test data from which it has been calculated has been certified by the British Standards Institute (BSI). The efficiency value may be used in the UK Government's Standard Assessment Procedure (SAP) for energy rating of dwellings.

## SECTION 2 INSTALLATION OF FIRE

### 2.1 UNPACKING THE COMBUSTION CHAMBER

Carefully lift the combustion chamber out of the carton. Remove the loose item packaging carefully from the pack. Check the contents as listed :-

**DO NOT UNDER ANY CIRCUMSTANCES USE THIS APPLIANCE IF THE GLASS PANEL IS BROKEN OR NOT SECURELY FIXED TO THE FIREBOX.**

#### Packing Check List

##### **Pack 1 of 2 - Combustion Chamber Pack**

- 1 off Combustion Chamber & Glass Assembly
- 1 off Boxed ceramic fuel-bed set (packed inside combustion chamber)
- 1 off Installation instruction / user manual
- 1 off Plastering frame
- 1 off Thermostatic remote handset
- 1 off Loose items pack – containing :- 4 off No. 12 x 40mm screws, 4 off rawlplugs, 1 off restrictor baffle, 1 off glass clamp, 6 off M6 wingnuts, 1 off grommet, 1 off PP3 9V battery, 1 off flue gasket.

##### **Pack 2 of 2 - Horizontal Balanced Flue System Pack**

- |       |                 |       |                          |
|-------|-----------------|-------|--------------------------|
| 1 off | Adaptor         | 1 off | 0.5m length of flue      |
| 1 off | 90 degree elbow | 1 off | Horizontal wall terminal |
| 2 off | Locking bands   | 1 off | Protection band          |

**or**

##### **Pack 2 of 2 - Chimney Conversion Kit**

- |       |                |       |                     |
|-------|----------------|-------|---------------------|
| 1 off | Adaptor        | 1 off | 1.0m length of flue |
| 1 off | Renovation kit | 1 off | Vertical terminal   |
| 1 off | Locking band   |       |                     |

**or**

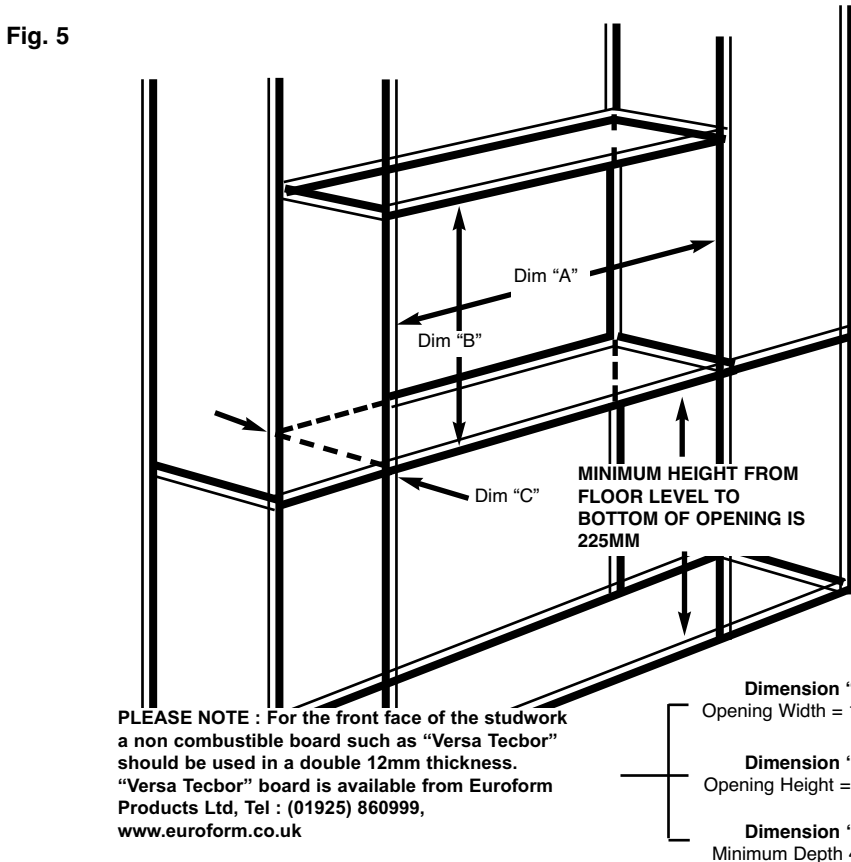
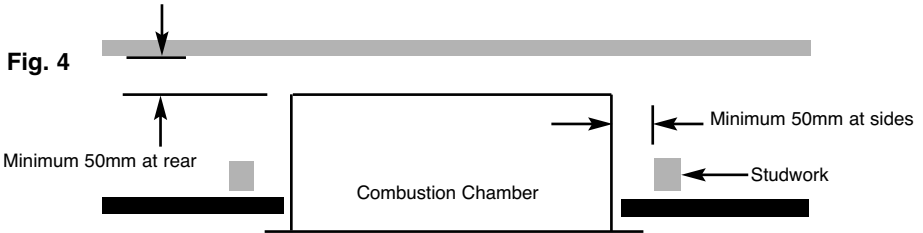
##### **Pack 2 of 2 - Vertical Flue Kit**

- |       |         |       |                   |
|-------|---------|-------|-------------------|
| 1 off | Adaptor | 1 off | Vertical terminal |
|-------|---------|-------|-------------------|

In addition, all flue lengths, roof flashing, clamps and accessories as required by the individual flue system design should be purchased as required from the manufacturer, contact details shown on the bottom of page 13.

## 2.2 PREPARATION OF THE COMBUSTION CHAMBER OPENING (INTO STUDED WALL)

All combustible parts of the studwork must be set at the distances as shown below in Fig. 4 & 5.

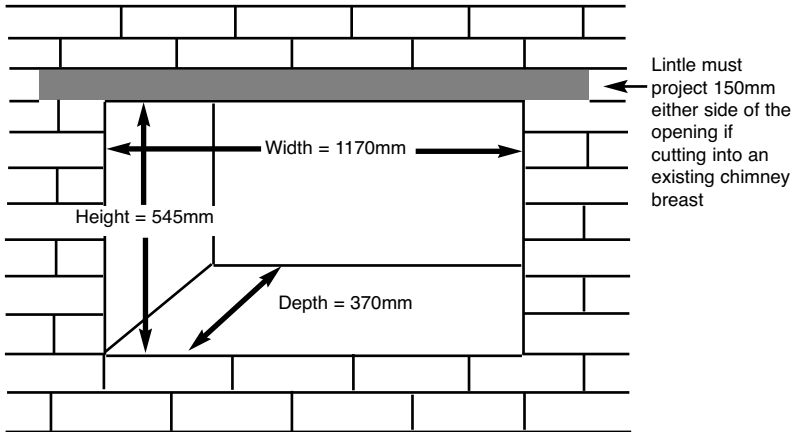




### 2.3 PREPARATION OF THE COMBUSTION CHAMBER OPENING (INTO EXISTING CHIMNEY BREAST)

An opening should be constructed to the following dimensions in the existing chimney breast. See fig. 6 below

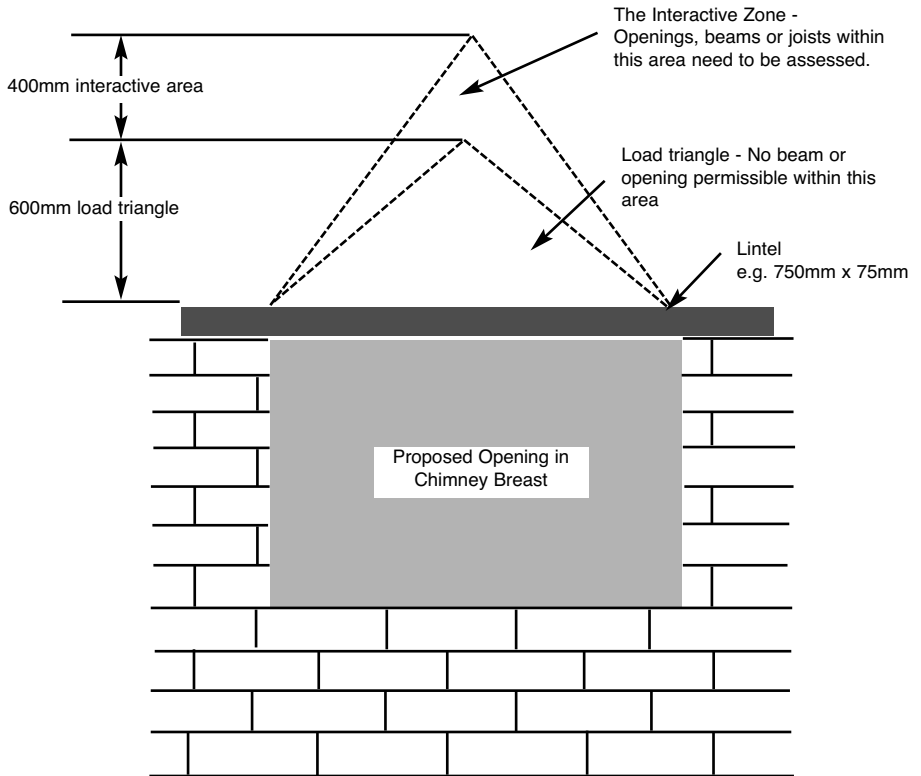
Fig. 6



**PLEASE NOTE :** The opening size as detailed above will require reducing in size to the product aperture and finishing in a high temperature plaster finish as detailed in section 2.14

**NOTE :** Please ensure that suitable cut outs in the sides and front face of the chimney breast are implemented for fixing of the flue pipe, and for future servicing.

**Fig. 7**



The opening needs to be sufficient to accommodate the combustion chamber. To support the wall above the opening, a suitable lintel must be inserted across the top of the opening. The lintel could be either pre-cast concrete or steel - Catnic CN52 or CN 46 could be used, depending upon the inner wall thickness. Before proceeding with the installation of the fire, an assessment of the area immediately above the fire is required, see Fig. 7 above. If there is no existing openings within either triangle, proceed with forming the opening. However, if opening or beams occur within either triangle, then you should seek specialist advice from a structural engineer or consider relocating the proposed position of the firebox.

**NOTE : It is recommended that suitable cut outs in the sides and front face of the chimney breast are implemented for fixing of the flue pipe, and for future servicing.**

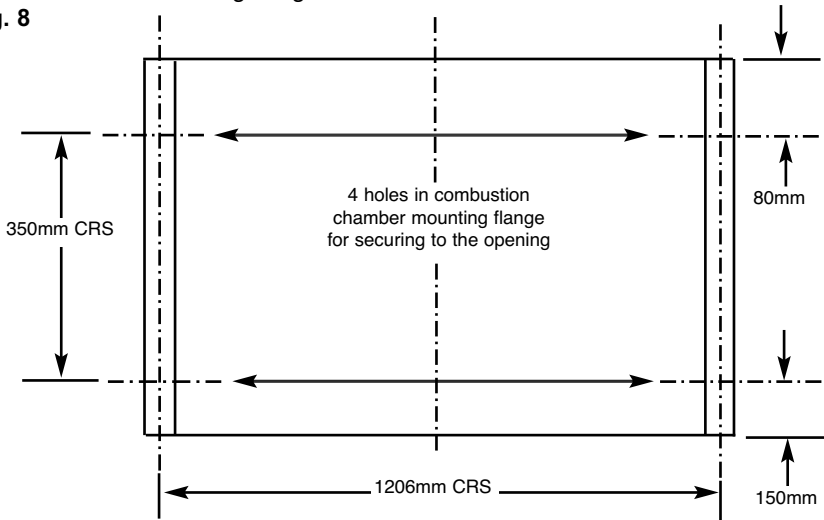
The appliance must be sited on a non combustible base. The appliance can be placed onto a combustible material providing a heatproof board such as superlux of minimum 12mm thickness or similar is placed under it.

**IMPORTANT :** Any air supply to the fireplace opening must be sealed off

## 2.4 SECURING THE COMBUSTION CHAMBER TO THE OPENING

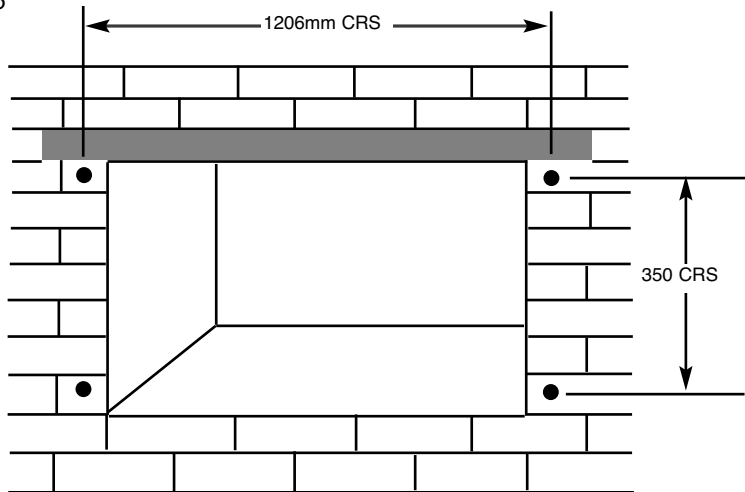
- a) The combustion chamber must be secured to the opening via the four off screw and rawlplugs provided. Fig. 8 below shows the hole centres in the mounting flanges of the combustion chamber.

Fig. 8



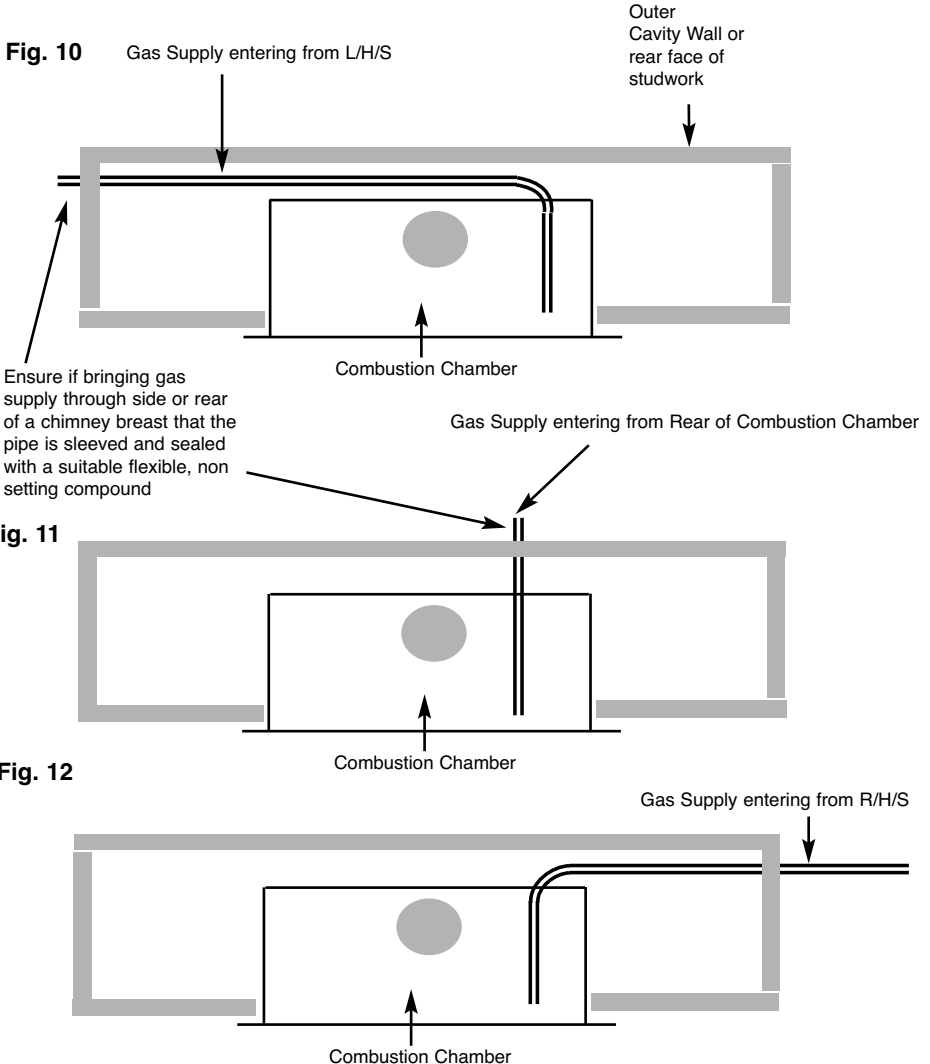
- b) DO NOT SECURE THE COMBUSTION CHAMBER INTO THE OPENING AT THIS POINT AS ACCESS WILL STILL BE REQUIRED TO RUN THE GAS SUPPLY PIPEWORK AS DETAILED IN SECTION 2.5

Fig. 9



## 2.5 INSTALLATION OF THE GAS SUPPLY (INTO STUDDED WALL OR EXISTING CHIMNEY BREAST)

Before installing the combustion chamber, decide from which side or if a rear connection to the gas supply is required. Plan the pipe run to enter from the rear or below the firebox from the left, right or rear and connect to the inlet elbow. See Fig. 10, 11 & 12 below. The gas connection is located at the front right hand side of the fire. **Note : Before breaking into the gas supply a gas tightness test should be carried out to establish that the existing pipework is sound.**



## **2.6 SPECIFYING THE FLUE SYSTEM & ASSOCIATED COMPONENTS**

This product comes with the optional of 3 methods of flueing :-

Decide upon the method of flue that is most suitable for the property in which you are installing the product, from the following options :-

### **2.6.1 Balanced Flue in Horizontal Configuration**

This flueing method uses a 0.5 metre vertical pipe starter pipe section, then utilises a 90 degree elbow and a terminal section to provide a horizontal pipe from 324mm (minimum) up to 469mm (maximum). Additional flue duct can then be purchased to allow installation up to a maximum wall thickness of 1554mm. The flue can be installed to terminate directly out the wall behind the appliance or at the L/H side or R/H side by rotating the elbow section. If the terminal is fitted below 2m from ground level, a terminal guard must be fitted in England & Wales. BFM Europe supply a suitable guard in the Horizontal Flue Kit. See section 2.7

### **2.6.2 Balanced Flue in Vertical Configuration**

This flueing method utilises a rigid interlocking balanced flue duct to enable a vertical balanced flue system to be used. All components required are supplied within the flue kit with the exception of the lengths of co-axial pipe which is dependent upon the individual installation. This method is most suited when a false chimney breast is being constructed due to no chimney / insufficient depth and an outside wall is not available. See section 2.8 / 2.9

### **2.6.3 Balanced Flue Utilising Existing Chimney**

This flueing method uses a 4" / 100mm flexible flue liner fitted into an existing chimney breast, with a specially designed flue termination fitted to the top of the chimney. All components required are supplied within the flue kit with the exception of the 4" / 100mm flexible flue liner, which is dependent upon the individual installation. Please ensure any flexible flue liner used is rated to T400. This method is most suited when an existing chimney breast is available that is in good condition and has sufficient depth to accept the product. See section 2.10

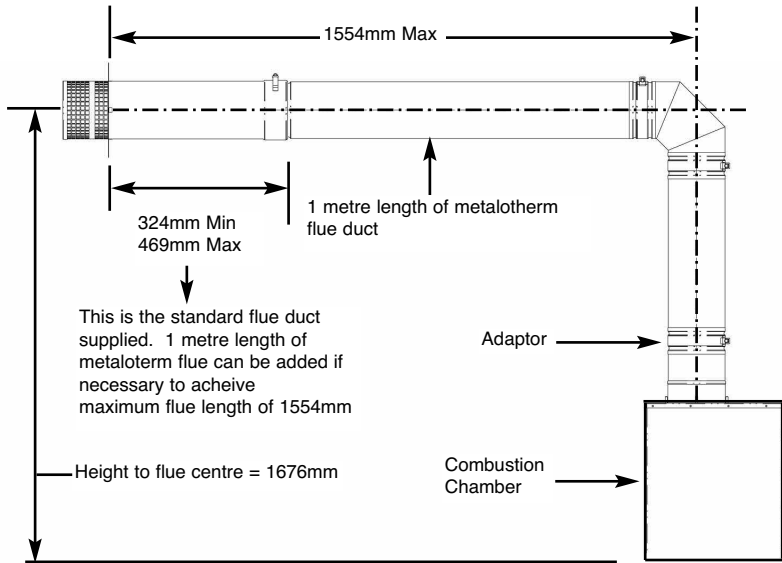
If you require to purchase any additional flue components, please contact the UK distributor for Metaloterm products, contact details as below :-

H Docherty Ltd  
Unit 15 &16 Colthrop Business Park  
Colthrop Lane  
Thatcham  
Berkshire  
RG19 4NB  
Tel : 0845 6031715      Fax : 01635 201737

## 2.7 BALANCED FLUE IN HORIZONTAL CONFIGURATION

2.7.1 Horizontal balanced flue configuration and components identified as shown below in Fig. 13

Fig. 13



**PLEASE NOTE : THE FLUE TERMINAL SHOULD BE FITTED WITH THE WELDED JOINT LINE AT THE BOTTOM, FACING THE GROUND**

## **2.7 BALANCED FLUE IN HORIZONTAL CONFIGURATION (CONTINUED)**

- 2.7.2 Mark the position of the centre of the flue on the inner wall. (See Fig. 13 on previous page for position).
- 2.7.3 Cut hole for outer flue pipe. There are two possible methods to achieve this, either core drill or via hammer and chisel.
- 2.7.4 To core drill, proceed as follows :-
- 2.7.5 Drill a pilot hole through the wall, in position as specified in Fig 13 on previous page.
- 2.7.6 Using a 6" core drill, drill the flue hole.
- 2.7.7 To Hammer and chisel, proceed as follows :-
- 2.7.8 Mark the position of the centre of the flue pipe as specified in Fig 13.
- 2.7.9 Mark the position of the hole around this point.
- 2.7.10 Chisel out the area as marked on the wall.
- 2.7.11 We then recommend that a cardboard cylinder is placed around the flue pipe and inserted in the chiselled out hole whilst making good. A wall plate is provided on the flue duct to seal the terminal around the flue pipe opening and make good.

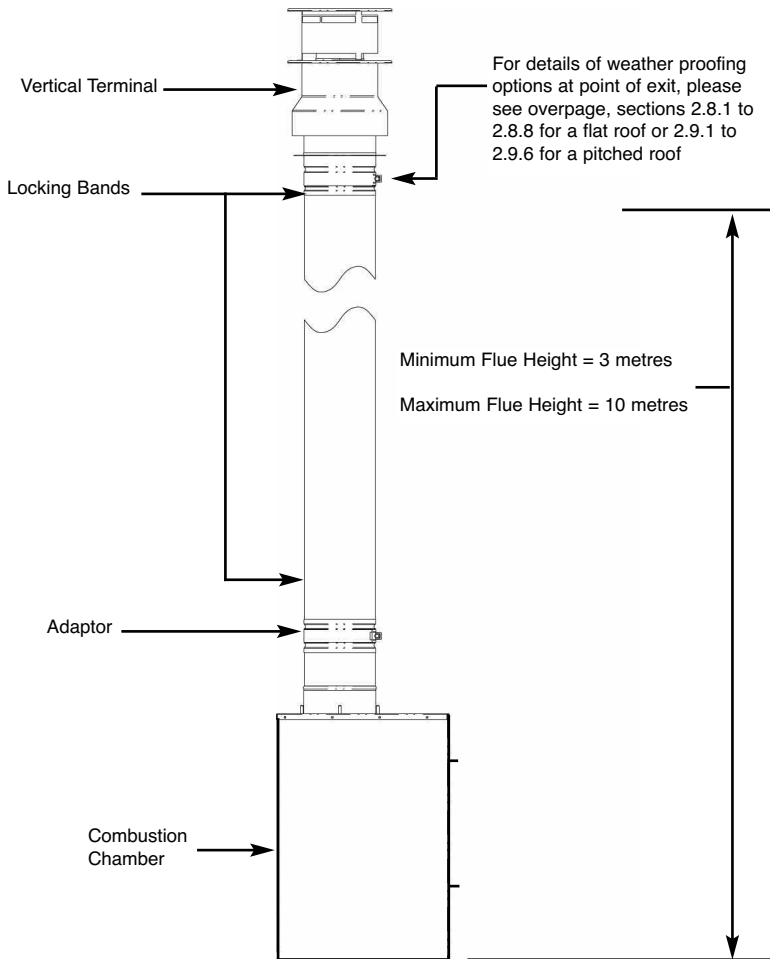
Please ensure all joints are taped with suitable high temperature tape when assembling the flue pipe sections together.

**NOTE :- If the appliance is to be installed into a building under construction, it is recommended that a non-corrosive metal tube of 6" diameter be inserted into the position of the hole as specified on page 13.**

## 2.8 BALANCED FLUE IN VERTICAL CONFIGURATION

2.8.1 Vertical flue configuration and components identified as shown below in Fig. 14

**Fig. 14**





## 2.8 BALANCED FLUE IN VERTICAL CONFIGURATION (FLAT ROOF)

2.8.2 Determine the position of the flue run within the property and the termination position is correct in accordance with BS 5440. Ensure that clearances to combustible surfaces (50mm minimum) are sufficient where the flue run may come within close contact of joists etc.

2.8.3 For a flat roof installation the following components will need to be ordered from Metaloterm :-

USMPG10	Mounting plate
USKB10	Locking band
US100-10/50-10/25-10	Concentric flue - quantity required dependent upon flue height required
USDP10	Flat roof flashing
USSR10	Storm collar

2.8.4 To install the flue system therefore, make hole in roof, install the mounting plate (USMPG10) underneath the roof and secure with screws. (See Fig. 13 below)

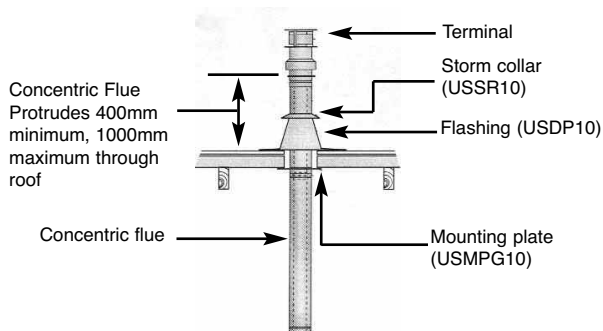
2.8.5 Place a locking band (USKB10) in the mounting plate (USMPG10) Put the concentric flue US100-10/50-10/25-10 through the mounting plate and locking band until it protrudes by 400mm min, 1000mm max through the roof. Fix the flat roof flashing (USDP10) over the flue and fix it to the flat roof. See Fig. 15 below. Please ensure all joints are taped with suitable high temperature tape when assembling the flue pipe sections together.

2.8.6 Seal the opening between the flue and flashing with silicone rubber and a storm collar (USSR10). See Fig. 15 below

2.8.7 Install the terminal (contained within the terminal kit requested at point of order from BFM Europe Ltd.) with a locking band and fix with 3 nuts.

2.8.8 Finish the roof covering over the flashing and weatherproof. Refer to section 3.3 to fit the correct restrictor plate to the fire.

Fig. 15



## 2.9 BALANCED FLUE IN VERTICAL CONFIGURATION (PITCHED ROOF)

2.9.1 Determine the position of the flue run within the property and the termination position is correct in accordance with BS 5440. Ensure that clearances to combustible surfaces (50mm minimum) are sufficient where the flue run may come within close contact of joists etc.

2.9.2 For a pitched roof installation the following components will need to be ordered from Metaloterm :-

USCP10	Cover plates (pair)
USKB10	Locking band
US100-10/50-10/25-10	Concentric flue - quantity required dependent upon flue height required
or	
USDH10	Slope roof flashing
USLS10	Lead slope roof flashing
USSR10	Storm collar
USDQ10	Roof support

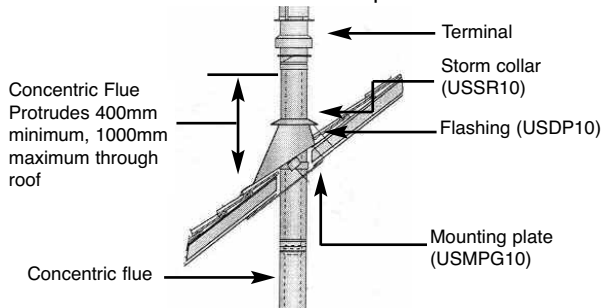
2.9.3 To install the flue system therefore, make hole in roof, install the pair of cover plates (USCP10) underneath the roof, put the concentric flue US100-10/50-10/25-10 through the mounting plate and locking band until it protrudes by 400mm min, 1000mm max through the roof. Centre the flue and secure with the roof support (USDQ10) and screws. (See Fig. 16 below) Please ensure all joints are taped with suitable high temperature tape when assembling the flue pipe sections together.

2.9.4 Put the slope roof flashing USDH10 (or in the case of a tiled roof the lead flashing USLS10) over the flue and make a weather proof finish. Seal the opening flue and flashing with the silicone rubber and the storm collar (USSR10).

2.9.5 Install the terminal (contained within the terminal kit requested at point of order from BFM Europe Ltd.) with a locking band and fix with 3 nuts.

2.9.6 Finish the roof covering over the flashing and weatherproof. Refer to section 3.3 to fit the correct restrictor plate to the fire.

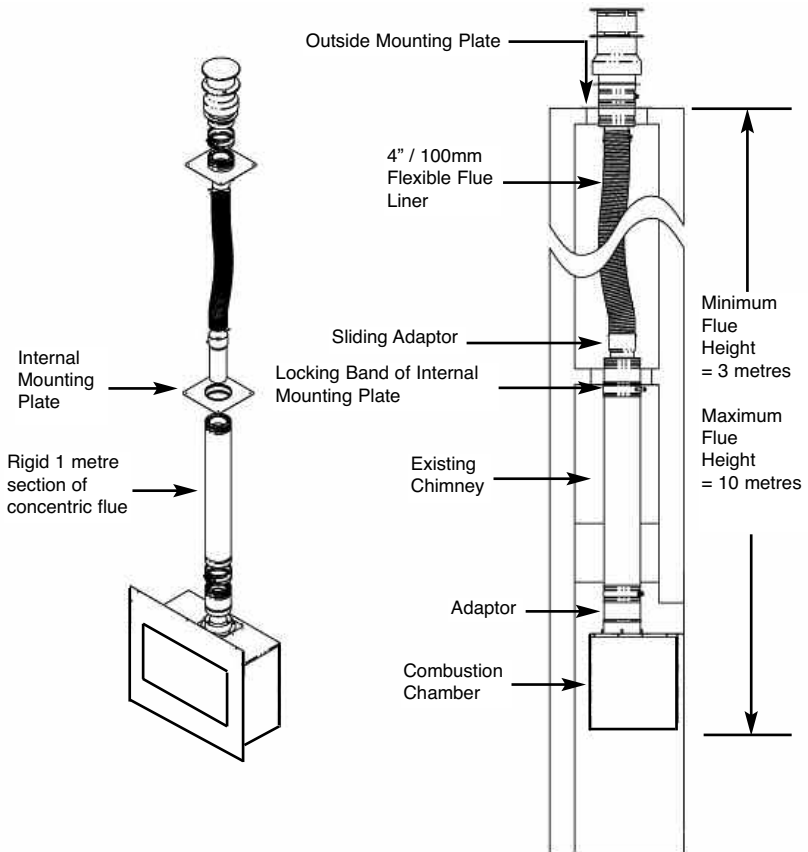
**Fig. 16**



## 2.10 BALANCED FLUE UTILISING EXISTING CHIMNEY

Vertical flue configuration and components identified as shown below in Fig. 17 for installation into an existing chimney.

Fig. 17



**NOTE :** The existing chimney must have a minimum cross-sectional area of  $22,500\text{mm}^2$  to provide sufficient air flow to fit the chimney conversion kit.

## **2.10 BALANCED FLUE UTILISING EXISTING CHIMNEY (CONTINUED)**

- 2.10.1 Check the soundness of the chimney to ensure that there are no leaks or remedial work required. Sweep the chimney if necessary.
- 2.10.2 Feed the 4" / 100mm flue liner through the chimney.
- 2.10.3 Attach the sliding adaptor to the bottom of the flexible liner and secure with the 2 off screws provided. (See Fig. 17 on previous page)
- 2.10.4 At the top of the chimney, attach the outside mounting plate with a hose clip to the flexible liner and secure with 2 off screws (See Fig. 17 on previous page).
- 2.10.5 Fasten the outside mounting plate securely with stainless steel screws and weatherproof as necessary.
- 2.10.6 Fix the terminal in position with a locking band and 3 off bolts. The sliding adaptor should now protrude 100mm below the bottom of the chimney opening.(See Fig. 17 on previous page).
- 2.10.7 Attach the internal mounting plate to the bottom part of the chimney and seal with suitable high temperature sealant.
- 2.10.8 Install the product and fit with a minimum 1 metre rigid section of Metaloterm concentric flue (as supplied with the existing chimney flue kit by BFM Europe).
- 2.10.9 Finally tighten the locking band of the internal mounting plate. (See Fig. 17 on previous page).
- 2.10.10 Refer to section 3.3 to fit the correct restrictor plate to the fire. Fitting of the correct restrictor plate is mandatory otherwise performance issues with the product will be found.

**NOTE :** The concentric flue must extend a minimum of 100mm into the existing chimney (past the internal mounting plate and please ensure all joints are taped with suitable high temperature tape when assembling the flue pipe sections together.

## 2.11

### MAKING THE ELECTRICAL CONNECTION.

**WARNING :** THIS APPLIANCE MUST BE EARTHED AND SHOULD BE PREFERABLY CONNECTED VIA A 3 AMP FIXED FUSED SPUR WITH A MINIMUM CONTACT SEPARATION OF 3MM.

IT MAY HOWEVER BE CONNECTED TO A 3 PIN PLUG TO BS 5733, THAT IS FITTED WITH A 3 AMP FUSE TO BS 1362.

- a) The product is supplied with a mains cable and 3 pin plug fitted. The mains cable will exit the combustion chamber from the rear left hand side (viewed from the front), through the grommet.
- b) Plug the mains cable supplied into a suitable socket in close proximity to the appliance or remove the plug and wire into a fixed fused spur.

## 2.12 REMOVING / RE-FITTING THE GLASS PANEL

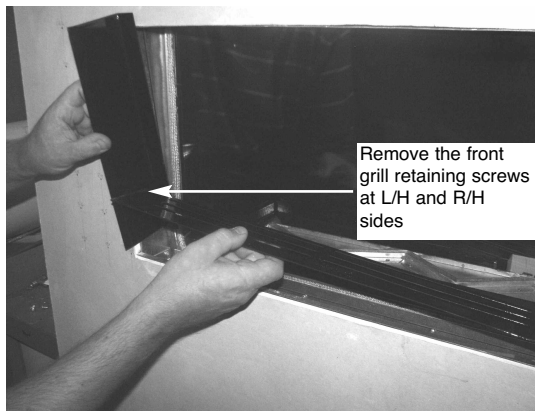
- a) To remove the glass frame, the glass clamp as supplied in the loose items pack will be required. Secure the clamp to the glass panel as shown below in Fig. 18

Fig. 18



- b) Remove the front grill by removing the 2 off retaining screws from the upturned tabs, 1 off at each end of the trim. Remove the side trims by simply lifting clear (they are retained by magnets). See Fig. 19 below.

Fig. 19

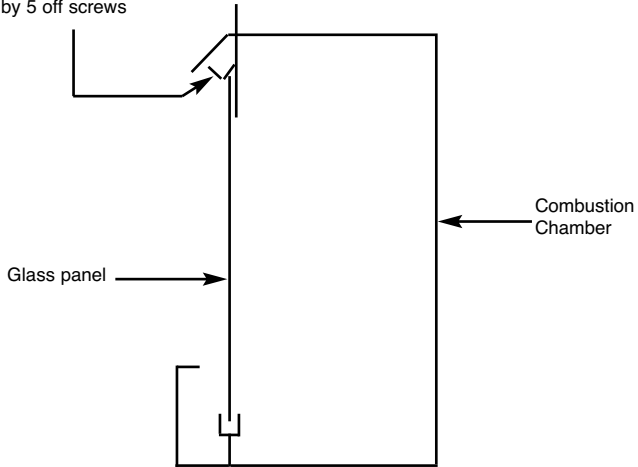


**NOTE :** Always ensure that a consistent seal between the combustion chamber and the glass frame is achieved when replacing the glass panel.

- c) Remove the 5 off securing screws and glass assembly retaining bracket that are located on the top underside face of the combustion chamber behind the canopy. See Fig. 20 below.

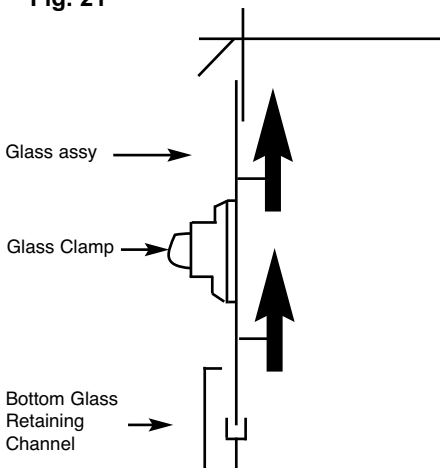
**Fig. 20**

Glass Assembly  
Retaining  
Bracket, secured  
by 5 off screws

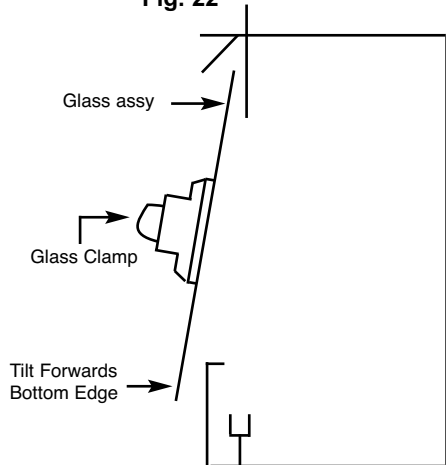


- c) Lift the glass assembly vertically to release from the bottom retaining channel and then tilt forwards as shown below in Fig. 21 / 22 to release.

**Fig. 21**



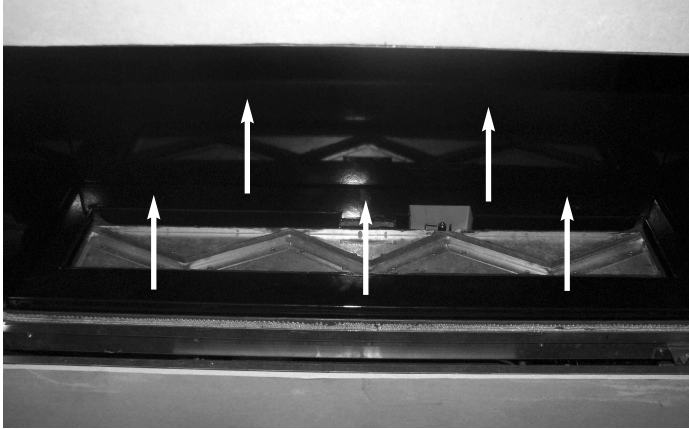
**Fig. 22**



## 2.13 REMOVING THE BURNER ASSEMBLY

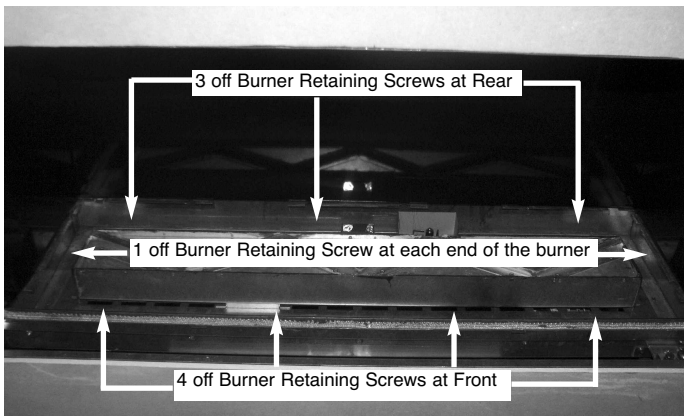
- a) Lift the burner tray cover vertically clear as shown below in Fig. 23 and store in a safe place.

**Fig. 23**



- b) This will allow access to the 9 off burner retaining screws, 4 off at the front of the burner, 3 off at the rear and one at each end as shown below in Fig. 24

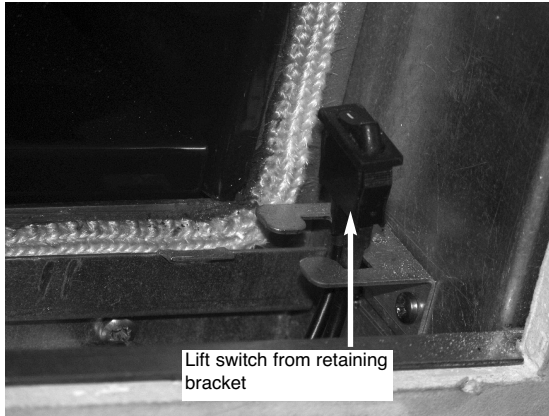
**Fig. 24**





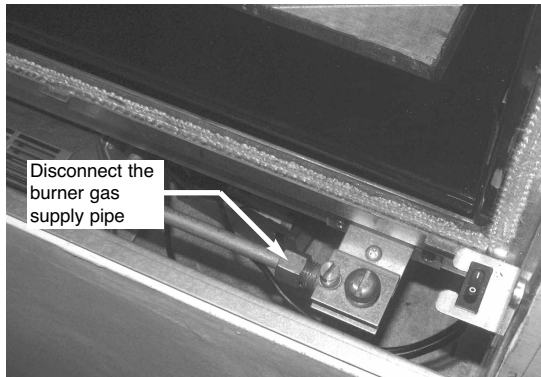
- c) With the 6 off burner screws removed, remove the isolation switch from it's retaining bracket at the front right hand side. This is achieved by lifting the switch clear from the bracket as shown below in Fig. 25

**Fig. 25**



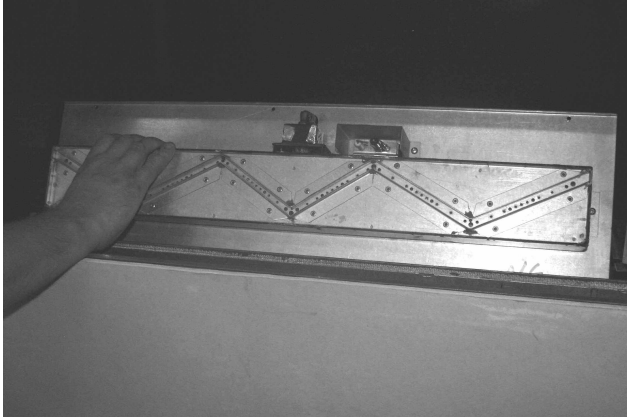
- d) Disconnect the burner gas supply pipe from the inlet elbow at the front right hand side by unscrewing the nut as shown below in Fig. 26

**Fig. 26**



- e) The burner can then be lifted, tilted forwards and removed from the combustion chamber as shown below in Fig. 27

**Fig. 27**

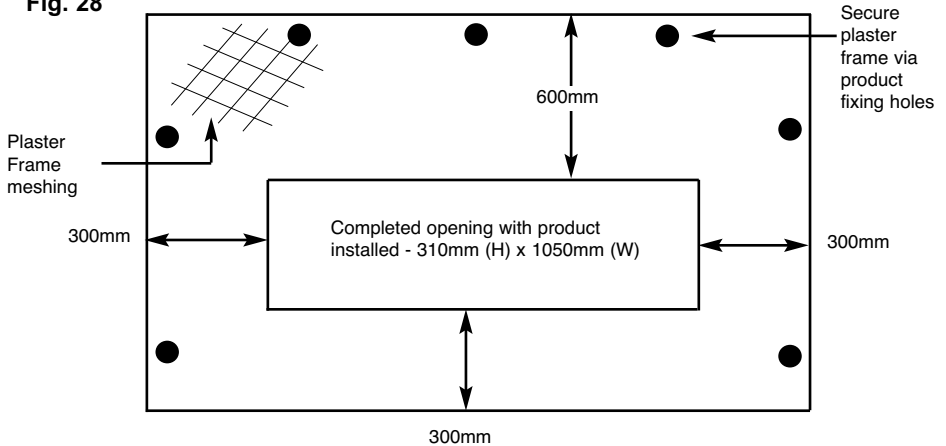


- f) Make the gas connection to the inlet elbow as prepared in section 2.5  
Before making the final gas connection, thoroughly purge the gas supply pipework to remove all foreign matter, otherwise serious damage may be caused to the gas control valve on the fire.  
**Failure to purge the gas supply will invalidate the guarantee.**
- g) Replace the burner unit in reverse order and re-connect the gas supply pipe.
- h) Replace the isolation switch into it's retaining bracket in reverse order, taking care not to damage the wiring.
- i) Remove the pressure test point screw from the inlet elbow and fit a manometer.
- j) Turn on the main gas supply and carry out a gas tightness test.
- k) Turn on the electrical supply to the appliance via the fixed fused spur or plug.
- l) Finish the surface covering below the opening as shown in section 2.14
- m) Fit the ceramics as shown in section 3.1A/B, replace the burner tray cover, glass assembly and glass assembly securing bracket / 5 off screws. Replace the side trims which are retained by magnets and the front grill, then proceed to section 3.2 (lighting the appliance).

## 2.14 FINISHING OF THE PRODUCT APERTURE / FITTING THE PLASTERING FRAME

- a) The area below around the appliance will require a high temperature plaster finish around the appliance due to the high heat output level of the product, see Fig. 28. A plastering frame is supplied with the product to assist in obtaining this finished surface. To prevent plaster cracking and discolouration, finish the 600mm area above and the 300mm area at the side and below with a high temperature plaster finish as follows :-

Fig. 28



- b) The high temperature plaster should be applied over a heat proof screed to the manufacturers instructions (see below for manufacturers contact details) and left to dry for a minimum of 3 days.
- c) Supplier's contact details for heat proof screed & plaster are as follows :-

Vitcas Ltd.  
8 Bonville Road  
Brislington  
Bristol  
BS4 5NZ  
Tel : 0117 911 7895  
www.vitcas.com  
info@vitcas.com

or The Greener Company  
The Old Canteen  
Rosemount Works  
Huddersfield Road  
Elland  
HX5 0EE  
Tel : 01925 750290  
www.thegreenercompany.com

## SECTION 3 INSTALLATION OF FIRE

### 3.1 A FITTING THE FUEL-BED LOGSET

**IF FITTING THE PRODUCT WITH THE PEBBLE FUELBED, PLEASE PROCEED TO SECTION 3.1B**

Check there are the following logs in the ceramic set :- 2 x log "1", 1 x log "2", 1 x log "3", 1 x log "4", 1 x log "5", 1 x log "6", 2 x log "7" - Total = 9 logs

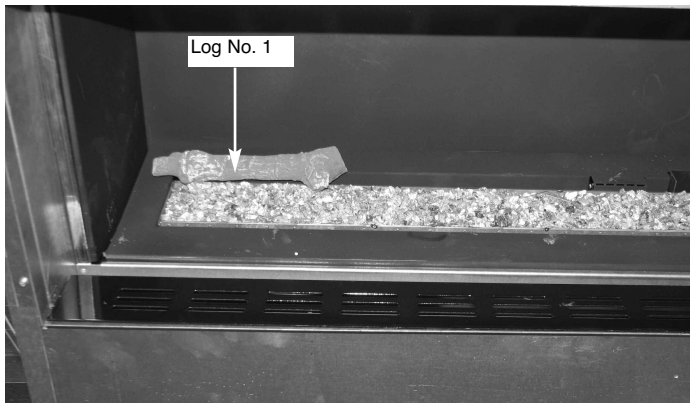
- a) The vermiculite material should then be first layed around the burner tray as shown below in Fig. 29, resulting in an even layer.

**Fig. 29**



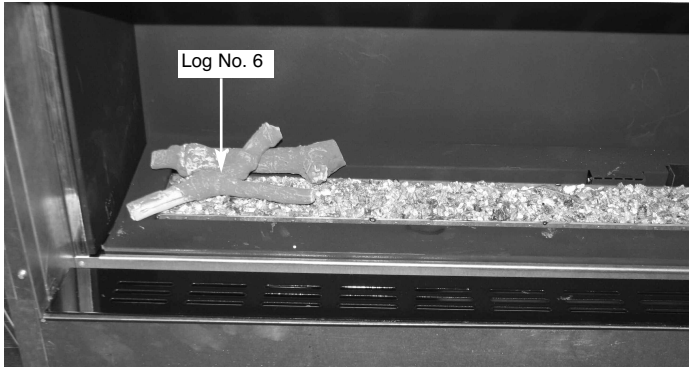
- b) Place Log "1" at the left hand side of the burner tray fitting the holes in the bottom face of the log onto the 2 off location pegs as shown below in Fig. 30

**Fig. 30**



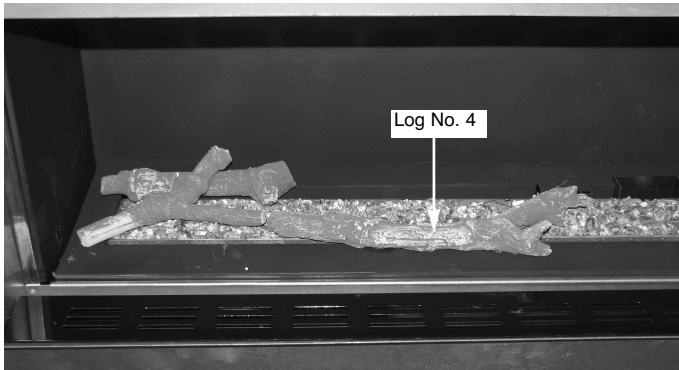
- c) Place Log “6” at the left hand side of the burner tray fitting the hole in the bottom face of the log onto the single location peg as shown below in Fig. 31

**Fig. 31**



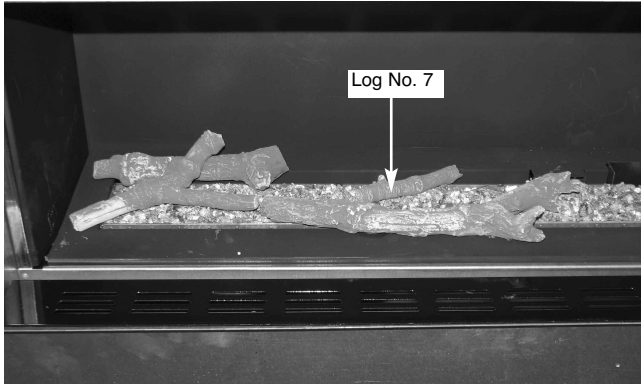
- d) Place Log “4” at the centre of the burner tray fitting the holes in the bottom face of the log onto the twin location pegs as shown below in Fig. 32

**Fig. 32**



- d) Place Log “7” at the centre of the burner tray fitting the hole in the bottom face of the log onto the 1 off location pegs as shown below in Fig. 33

**Fig. 33**



- e) Place Log “2” at the right hand centre side of the burner tray locating on the peg as shown below in Fig. 34

**Fig. 34**



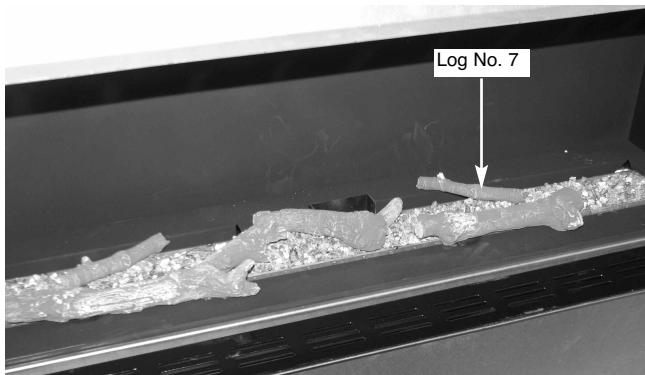
- f) Place Log “1” at the right hand centre side of the burner tray, locating on the twin locating pegs as shown below in Fig. 35

**Fig. 35**



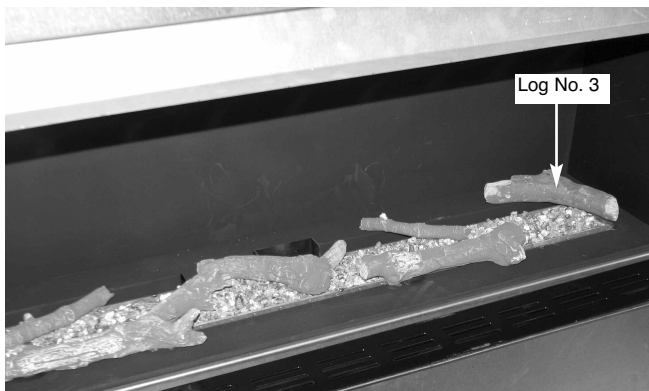
- g) Place Log “7” to the right hand side of the burner tray on the locating peg as shown below in Fig. 36

**Fig. 36**



- h) Place Log "3" at the right hand side of the burner tray on the single locating peg as shown below in Fig. 37

**Fig. 37**



- i) Place Log "5" at the right hand side of the burner tray as shown below in Fig. 38, resting on log 3.

**Fig. 38**





- i) If required, fit the embaglow material over the flame ports. To do this, separate into short strands and place randomly over the flame porting area as shown below in Fig. 39. **This material is only supplied to improve flame aesthetics and is optional to install.**

Fig. 39



- j) Refit the glass panel as described in section 2.12, then light the appliance as described as in section 3.2

**IMPORTANT NOTE : PLEASE ENSURE THAT WHEN COMMISSIONING THE FIRE THE FLAME PATTERN IS EVEN ACROSS THE WIDTH OF THE BURNER. IF AN UNEVEN FLAME PATTERN IS FOUND THEN RELAY THE QUANTITY VERMICULITE TO ACHIEVE AN EVEN FLAME PATTERN.**

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

**This appliance does not contain any component manufactured from asbestos or asbestos related products.**

### 3.1 B FITTING THE FUEL-BED PEBBLES

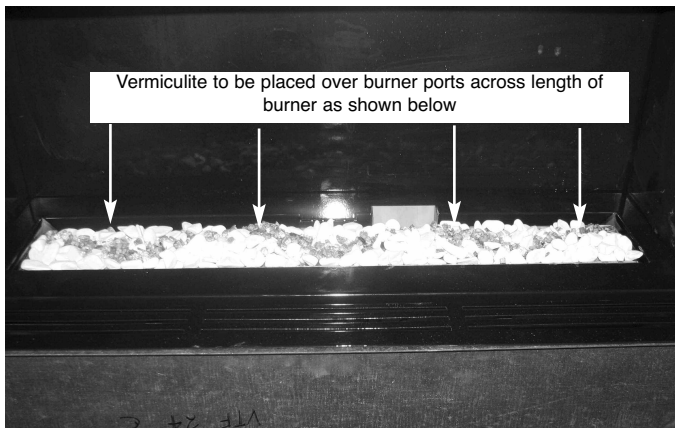
- a) Fit the pebbles to the burner tray as shown below in Fig. 40, do not fill the flame ports in the burner with pebbles.

Fig. 40



- b) Fit the vermiculite material into the burner ports as shown below in Fig. 41. **This material must be fitted in an even layer to ensure correct operation of the fire.**

Fig. 41



- c) If required, fit the glow fibre material over the flame ports. To do this, separate into short strands and place randomly over the flame porting area as shown on previous page in Fig. 39. **This material is only supplied to improve flame aesthetics and is optional to install.**
- d) Refit the glass assembly as described in section 2.14, then light the appliance as described as in section 3.2

## 3.2 LIGHTING THE APPLIANCE

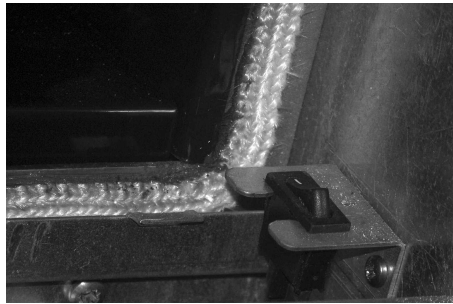
**IMPORTANT** : IF THE BURNER IS EXTINGUISHED FOR ANY REASON YOU MUST ENSURE THAT YOU WAIT A FULL FIVE MINUTES BEFORE ATTEMPTING TO RE-LIGHT THE FIRE.

The BFM Fires Carmello HE is controlled by the remote handset supplied with the fire. Ensure the 9V battery as supplied in the loose items pack has been fitted to the handset before attempting to light it. There are 3 modes of operation of the product, “MANUAL mode”, “TEMPERATURE mode” and “TIMER mode”.

### 3.2.1 Operation of the Fire in “MANUAL” mode

- a) Locate the ON/OFF switch on the appliance, it is situated at the right hand side in front of the glass panel. Ensure that the on / off switch on the valve is in the “ON” (1) position as shown below in Fig. 42

**Fig. 42**



- b) The remote handset is now used to control all functions of the fire. To light the fire, press the “UP” arrow and and “OFF” button simultateously. as shown on Fig. 45 below. You will hear a click and the fire begins a 30 second ignition process. The pilot and main burner will light. The appliance is now in “MANUAL mode” which will be shown via the “MAN” graphic on the display of the handset as shown below in Fig. 43

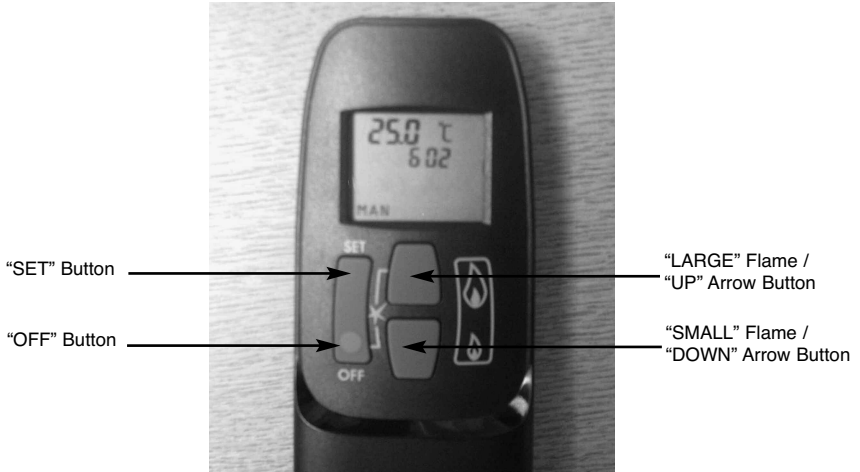
**Fig. 43**

Manual Graphic  
on Handset Display



- c) With the product in “MANUAL” mode the fire can now be switched between HIGH rate heat input and LOW rate heat input by pressing the “DOWN” arrow on the handset. To reduce the flame height of the main burner incrementally, press the arrow momentarily. To reduce the heat input directly down to the minimum level, press and hold the “DOWN” arrow on the handset. NOTE : At the lowest point the fire will go to “STANDBY MODE”. In “STANDBY MODE” only the pilot remains lit. See Fig. 44 below

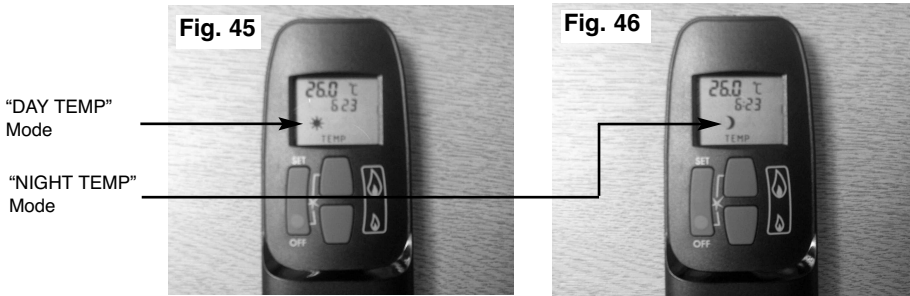
**Fig. 44**



- d) To turn the fire off, press the “OFF” button, this will extinguish all flames including the pilot.

### 3.2.2 Operation of the Fire in “TEMPERATURE” mode

- a) In order to change the mode of operation from “MANUAL” to “TEMPERATURE”, press the “SET” button, the fire will then change to either “DAY TEMP” (Fig. 45) mode or “NIGHT TEMP” mode (Fig 46). To alternate between the 2, press the “SET” button. **The display on the handset will show the current temperature in the room.**



**NOTE :** The “SET” button allows you to alternate between all modes of operation :- “ MANUAL”, “DAY TEMP”, “NIGHT TEMP”, “TIMER” and back to “MANUAL”. Alternatively, pressing either the “UP” or “DOWN” arrow allows the unit to revert to “MANUAL” mode.

- b) Within the “TEMPERATURE” mode there are options for either “DAY TEMP” or “NIGHT TEMP”. These temperatures can be set independently to allow a higher temperature to be maintained at night than during the day, or if setting the same temperature for day and night the fire will compensate for the generally cooler evening temperatures and automatically increase the heat input level accordingly.
- c) To set the temperature, ensure the handset is in “TEMPERATURE” mode and then press the “SET” button until the “TEMP” display flashes then let go. Proceed to set the desired temperature by pressing the “UP” (large flame) or “DOWN” (small flame) arrows as necessary, then press “OFF” to complete the process.
- NOTE :** Minimum temperature is 5°C, Maximum temperature is 30°C, or minimum 41F to maximum 86F when in Fahrenheit mode.
- d) Press the “OFF” button to stop the display flashing or wait to return to “TEMPERATURE” mode. **NOTE :** If you set a temperature below the current room temperature the fire will switch to standby mode (pilot burner only) until the room has cooled to the temperature you have set on the handset display.
- e) If you would like the “NIGHT TEMP” to turn the fire off then decrease the temperature until [----] is displayed.

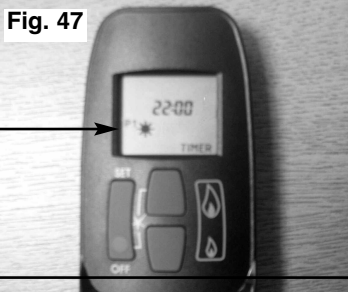
### 3.2.3 Operation of the Fire in “TIMER” mode

- a) In order to change the mode of operation from “MANUAL” to “TIMER”, press the “SET” button, the fire will then alternate between the settings until the “TIMER” mode is displayed.

**NOTE :** The “SET” button allows you to alternate between all modes of operation :- “MANUAL”, “DAY TEMP”, “NIGHT TEMP”, “TIMER” and back to “MANUAL”. Alternatively, pressing either the “UP” or “DOWN” arrow allows the unit to revert to “MANUAL” mode.

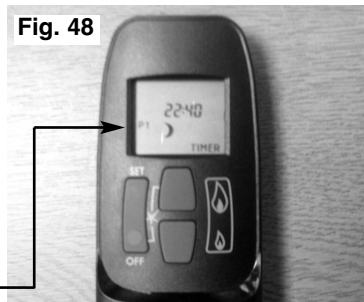
- b) Within the “TIMER” setting mode there are two programmable settings you can make over a 24 hour period, namely P1 and P2. To set the timer, ensure the handset is in “TIMER” mode as detailed in section a) above.
- c) To set the P1 timed start setting, press and hold the “SET” button until the P1 (sun symbol is displayed as per Fig. 47 below) and the time flashes. Set the hour by pressing the “UP” (large flame) and set the minutes (in ten minute increments) by pressing the “DOWN” (small flame) as necessary, then press “OFF” button to complete the process. Repeat for the P1 (moon symbol is displayed as per Fig. 48 below) Set the hour by pressing the “UP” (large flame) and set the minutes (in ten minute increments) by pressing the “DOWN” (small flame) as necessary, then press “OFF” button to complete the process.

P1 with “Sun” symbol illuminated



**Fig. 47**

P1 with “Moon” symbol illuminated



**Fig. 48**

- d) To set the P2 timed setting, press the “SET” button until the “TIMER” mode is displayed. Hold the “SET” button until the display flashes the current time for P1. Press the “SET” button again to scroll past the setting for P1 (sun) and P1 (moon). The time should now be flashing on the handset. Set the hour by pressing the “UP” (large flame) and set the minutes (in ten minute increments) by pressing the “DOWN” (small flame) as necessary, then press “OFF” button to complete the process.

### **3.2.4 Low Battery Signal**

- a) When the battery in the handset needs replacing, "BATT" will be displayed on the handset.
- b) Remove the cover on the rear of the handset and replace the 9V battery as necessary.

### **3.2.5 To Set the Time on the Remote Handset**

- a) Simultaneously press the "UP" (large flame) arrow and "DOWN" (small flame) arrow buttons on the remote handset.
- b) Press the "UP" (large flame) arrow to set the hour and the "DOWN" (small flame) arrow to set the minutes.

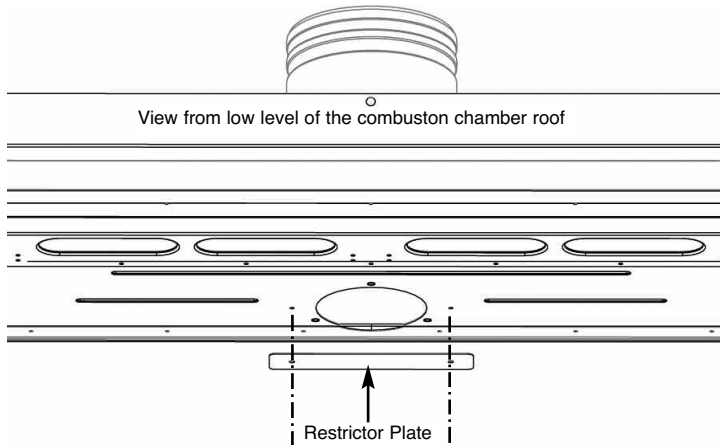
### **3.2.6 To Set the °C / 24 Hour or °F / 12 Hour Clock**

- a) Press and hold the "OFF" and the "DOWN" (small flame) arrow buttons on the handset simultaneously until the display changes from °C to °F and vice versa

### 3.3 REMOVAL / RE-FITTING OF THE RESTRICTOR BAFFLE

- a) If fitting this product in either an existing chimney or with a vertical flue configuration it will be necessary to fit one of the flue restrictor plates supplied. 3 off plates are supplied in the loose items pack, with securing screws. They are embossed with the letters A, B & C. No restrictor is required for horizontal flue applications
- b) For flue heights up to 5 metres, please fit restrictor "A". For flue heights between 5 & 8 metres, please fit restrictor "B" and for flue heights of 8 metres and above, please fit restrictor "C".
- c) To fit the restrictor, look on the underside of the combustion chamber, at the point of the flue exit and use the 2 holes adjacent to the main flue outlet duct to secure the selected restrictor plate as shown below in Fig. 49

**Fig. 49**



- d) THE RESTRICTOR BAFFLE SHOULD ONLY BE FITTED WITH STANDARD FLUE DUCT LENGTHS (UP TO 350MM FROM BACK OF FIRE TO OUTER WALL) AND MUST NOT BE USED WITH EXTENDED FLUE DUCTS.



## **SECTION 4 MAINTENANCE**

### **Servicing Notes**

**Servicing should be carried out annually by a competent person such as a GAS SAFE registered engineer. It is a condition of BFM Fires lifetime guarantee scheme that this is carried out by a competent person in accordance with these servicing notes, and must include a pilot change. The condition of the logs should be checked and if necessary the whole set should be replaced with a genuine replacement set. After any servicing work a gas tightness check must always be carried out. BEFORE ANY SERVICING WORK IS CARRIED OUT ENSURE THE PRODUCT HAS BEEN DISCONNECTED FROM THE ELECTRICITY SUPPLY.**

#### **4.1 Removing the burner assembly from the fire.**

- 4.1.1 Attach the glass panel clamp as shown in section 2.12
- 4.1.2 Remove the side trims and base trim as shown in section 2.12
- 4.1.3 Remove the glass panel retaining bracket by removing the 5 off retaining screws as shown in section 2.12
- 4.1.4 Remove the glass panel as shown in section 2.12
- 4.1.5 Remove the logs and vermiculite from the burner tray.
- 4.1.6 Remove the burner tray cover by lifting clear.
- 4.1.7 Remove the burner retaining screws as shown in section 2.13
- 4.1.8 Remove the on/off switch from it's retaining bracket on the right hand side as shown in section 2.13
- 4.1.9 Isolate the gas supply at the inlet elbow then disconnect the burner inlet pipe as shown in section 2.13
- 4.1.10 Lift the burner and tilt forwards from the combustion chamber to remove, as shown in section 2.13

#### **4.2 Removing the gas control valve from the fire.**

- 4.2.1 Remove the burner from the combustion chamber as described in section 4.1 above.
- 4.2.2 Disconnect the inlet, outlet, pilot pipes and thermocouple connection from the control valve.

4.2.3 Replace in reverse order and carry out a gas test

### **4.3 Removing the ultrasonic receiver.**

4.3.1 Remove the burner from the combustion chamber as described in section 4.1.

4.3.2 Disconnect the control wires from the receiver.

4.3.3 Disconnect the ignition wire.

4.3.4 Re-fit the new receiver and re-fit the control wires to the control valve.

4.3.5 Re-assemble the burner unit to the combustion chamber and carry out a gas tightness test.

### **4.4 Removing the pilot assembly**

4.4.1 Remove the burner from the combustion chamber as described in section 4.1.

4.4.2 Disconnect the pilot supply pipe, ignition wire and thermocouple connection to the gas control valve.

4.4.3 Remove the pilot retaining screws and lift the pilot assembly clear

4.4.4 Re-assemble in reverse order and carry out a gas tightness test.

### **4.5 Removing the convection fan / thermal switch**

4.5.1 Remove the burner from the combustion chamber as described in section 4.1.

4.5.2 Ensure that the electrical supply to the fire is isolated.

4.5.3 Disconnect the wiring to the motor on the convection fan

4.5.4 Remove the retaining screws that hold the convection fan assembly to the base of the combustion chamber.

4.5.5 Disconnect the thermal switch wires.

4.5.6 Lift the convection fan assembly clear if required.

4.5.7 Re-assemble in reverse order.

## 4.6 Replacing the Batteries in the Handset

- 4.6.1 Remove and re-fit the new 9V battery by removing the cover on the back of the handset.

### Parts Shortlist

Gas control valve	B-92200
Thermostatic handset / reciever unit	B-126400
NG Pilot	CV-104530
LPG Pilot	CV-104627
Convection fan assembly	B-128120
Convection fan thermostat	B-128130
Glass panel	B-135970
Complete log set	B-142310
Log 1 only	B-128250
Log 2 only	B-128260
Log 3 only	B-128270
Log 4 only	B-128280
Log 5 only	B-128290
Log 6 only	B-128300
Log 7 only	B-128310
Emberglow	B-120070
Pebble set	B-128320
Vermiculite	CV-107116

## **SECTION FIVE - USER INSTRUCTIONS**

### **5.1 INSTALLATION INFORMATION**

#### **CONDITIONS OF INSTALLATION**

It is the law that all gas appliances are installed only by a competent (e.g. Registered) Installer, in accordance with the installation instructions and the Gas Safety (Installation and Use) Regulations 1998. 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 fire may be fitted below a combustible shelf provided that the shelf is at least 200mm above the top of the appliance and the depth of the shelf does not exceed 150mm. The fire may be installed below combustible shelves which exceed 150mm deep providing that the clearance above the fire is increased by 15mm for each 25mm of additional overhang in excess of 150mm.

If this appliance is fitted directly on to a wall without the use of a fireplace or surround, soft wall coverings such as wallpaper, blown vinyl etc. could be affected by the heat and hot convection air and may discolour or scorch. This should be considered when installing or decorating.

The Model number of this appliance is as stated on the rating plate affixed to the control panel of the fire and the appliance is manufactured by:-

BFM Europe Ltd  
Trentham Lakes  
Stoke on Trent  
ST4 4TJ

## **ABOUT YOUR NEW CARMELLO HE BF (High Efficiency) GAS FIRE**

The BFM Fires Carmello High Efficiency log / pebble effect gas fire incorporates a unique and highly developed fuel bed which gives the realism of a loose log layout combined with realistic flames and glow. The fire has a thermostatically controlled convection air fan to increase the efficiency of the product. The convection fan only operates when the fire is up to temperature and therefore may take 20 to 30 minutes to come on when the fire is operated from cold. The use of durable ceramic material in the construction of the fuelbed 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, 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.

## 5.2 LIGHTING THE APPLIANCE

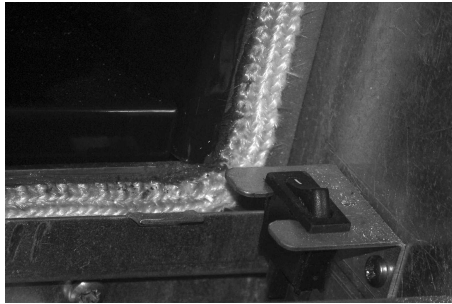
**IMPORTANT** : IF THE BURNER IS EXTINGUISHED FOR ANY REASON YOU MUST ENSURE THAT YOU WAIT A FULL FIVE MINUTES BEFORE ATTEMPTING TO RE-LIGHT THE FIRE.

The BFM Fires Carmello HE is controlled by the remote handset supplied with the fire. Ensure the 9V battery as supplied in the loose items pack has been fitted to the handset before attempting to light it. There are 3 modes of operation of the product, “MANUAL mode”, “TEMPERATURE mode” and “TIMER mode”.

### 5.2.1 Operation of the Fire in “MANUAL” mode

- a) Locate the ON/OFF switch on the appliance, it is situated at the right hand side in front of the glass panel. Ensure that the on / off switch on the valve is in the “ON” (1) position as shown below in Fig.1

**Fig. 1**



- b) The remote handset is now used to control all functions of the fire. To light the fire, press the “UP” arrow and and “OFF” button simultaneously, as shown on Fig. 2 below. You will hear a click and the fire begins a 30 second ignition process. The pilot and main burner will light. The appliance is now in “MANUAL mode” which will be shown via the “MAN” graphic on the display of the handset as shown below in Fig. 2

**Fig. 2**



- c) With the product in “MANUAL” mode the fire can now be switched between HIGH rate heat input and LOW rate heat input by pressing the “DOWN” arrow on the handset. To reduce the flame height of the main burner incrementally, press the arrow momentarily. To reduce the heat input directly down to the minimum level, press and hold the “DOWN” arrow on the handset. NOTE : At the lowest point the fire will go to “STANDBY MODE”. In “STANDBY MODE” only the pilot remains lit. See Fig. 3 below

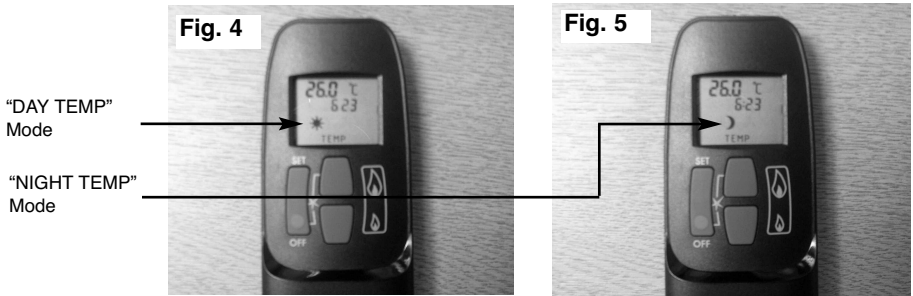
**Fig. 3**



- d) To turn the fire off, press the “OFF” button, this will extinguish all flames including the pilot.

## 5.2.2 Operation of the Fire in “TEMPERATURE” mode

- a) In order to change the mode of operation from “MANUAL” to “TEMPERATURE”, press the “SET” button, the fire will then change to either “DAY TEMP” (Fig. 4) mode or “NIGHT TEMP” mode (Fig 5). To alternate between the 2, press the “SET” button. **The display on the handset will show the current temperature in the room.**



**NOTE :** The “SET” button allows you to alternate between all modes of operation :- “MANUAL”, “DAY TEMP”, “NIGHT TEMP”, “TIMER” and back to “MANUAL”. Alternatively, pressing either the “UP” or “DOWN” arrow allows the unit to revert to “MANUAL” mode.

- b) Within the “TEMPERATURE” mode there are options for either “DAY TEMP” or “NIGHT TEMP”. These temperatures can be set independently to allow a higher temperature to be maintained at night than during the day, or if setting the same temperature for day and night the fire will compensate for the generally cooler evening temperatures and automatically increase the heat input level accordingly.
- c) To set the temperature, ensure the handset is in “TEMPERATURE” mode and then press the “SET” button until the “TEMP” display flashes then let go. Proceed to set the desired temperature by pressing the “UP” (large flame) or “DOWN” (small flame) arrows as necessary, then press “OFF” to complete the process.
- NOTE :** Minimum temperature is 5°C, Maximum temperature is 30°C, or minimum 41F to maximum 86F when in Fahrenheit mode.
- d) Press the “OFF” button to stop the display flashing or wait to return to “TEMPERATURE” mode. **NOTE :** If you set a temperature below the current room temperature the fire will switch to standby mode (pilot burner only) until the room has cooled to the temperature you have set on the handset display.
- e) If you would like the “NIGHT TEMP” to turn the fire off then decrease the temperature until [----] is displayed.



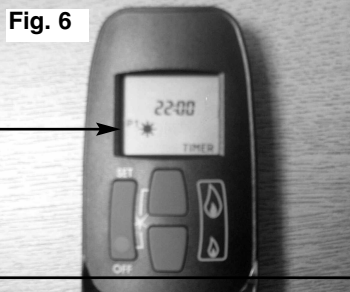
### 5.2.3 Operation of the Fire in “TIMER” mode

- a) In order to change the mode of operation from “MANUAL” to “TIMER”, press the “SET” button, the fire will then alternate between the settings until the “TIMER” mode is displayed.

**NOTE :** The “SET” button allows you to alternate between all modes of operation :- “MANUAL”, “DAY TEMP”, “NIGHT TEMP”, “TIMER” and back to “MANUAL”. Alternatively, pressing either the “UP” or “DOWN” arrow allows the unit to revert to “MANUAL” mode.

- b) Within the “TIMER” setting mode there are two programmable settings you can make over a 24 hour period, namely P1 and P2. To set the timer, ensure the handset is in “TIMER” mode as detailed in section a) above.
- c) To set the P1 timed start setting, press and hold the “SET” button until the P1 (sun symbol is displayed as per Fig. 6 below) and the time flashes. Set the hour by pressing the “UP” (large flame) and set the minutes (in ten minute increments) by pressing the “DOWN” (small flame) as necessary, then press “OFF” button to complete the process. Repeat for the P1 (moon symbol is displayed as per Fig. 7 below) Set the hour by pressing the “UP” (large flame) and set the minutes (in ten minute increments) by pressing the “DOWN” (small flame) as necessary, then press “OFF” button to complete the process.

P1 with “Sun” symbol illuminated



**Fig. 6**

P1 with “Moon” symbol illuminated



**Fig. 7**

- d) To set the P2 timed setting, press the “SET” button until the “TIMER” mode is displayed. Hold the “SET” button until the display flashes the current time for P1. Press the “SET” button again to scroll past the setting for P1 (sun) and P1 (moon). The time should now be flashing on the handset. Set the hour by pressing the “UP” (large flame) and set the minutes (in ten minute increments) by pressing the “DOWN” (small flame) as necessary, then press “OFF” button to complete the process.

## 5.3 IMPORTANT SAFETY INFORMATION

### WARNING

**This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.**

**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 GAS SAFE registered engineer

**THE FIRE MUST NOT BE OPERATED WITH THE GLASS CRACKED, BROKEN OR REMOVED.**

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 logs or pebbles must be used and only complete and genuine replacement sets must be used.

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.**

## 5.4 CLEANING - WARNING

Before attempting any cleaning operation ensure that the fire has been allowed to fully cool.

### CLEANING THE ENAMELLED METAL PARTS

These enamelled parts should only be cleaned using a clean, damp cloth. The trim is best cleaned by removing it from the fire and placing it face up on a flat surface. **Abrasive cleaners, chemical cleaning agents or any type of polish must never be used as damage to the finish may result.**

### CLEANING THE FUEL BED

We do not recommend cleaning of logs 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 your dealer or telephoning BFM Fires on the number stated on the rear cover of this book. Logs or pebbles must only be replaced with a complete and genuine replacement set and the fire must never be run with the wrong number or damaged logs or pebbles. The fuelbed must be carefully re-assembled as stated in the following section.

### CLEANING THE GLASS PANEL

To clean the glass panel, please remove it from the product as described overpage on pages 52-53. Use a clean damp cloth and ceramic glass cleaner to remove any stains or deposits from the glass panel. Do not use scouring pads as this may scratch the surface finish of the glass panel.

**PLEASE NOTE** :- The glass will require cleaning periodically. Condensation produced by the products of combustion will create marks on the inside face of the glass panel.

## CLEANING - REMOVING / REPLACING THE GLASS PANEL

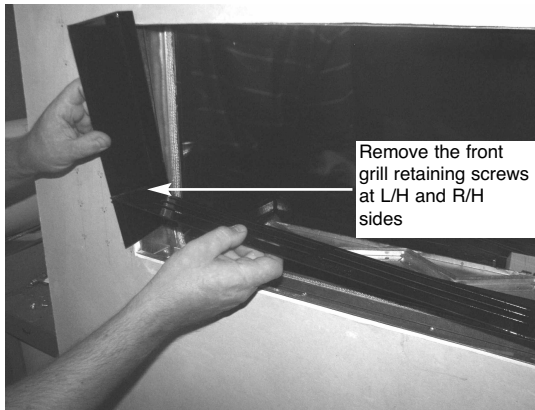
- a) To remove the glass frame, the glass clamp as supplied in the loose items pack will be required. Secure the clamp to the glass panel as shown below in Fig. 8

Fig. 8



- b) Remove the front grill by removing the 2 off retaining screws from the upturned tabs, 1 off at each end of the trim. Remove the side trims by simply lifting clear (they are retained by magnets). See Fig. 9 below.

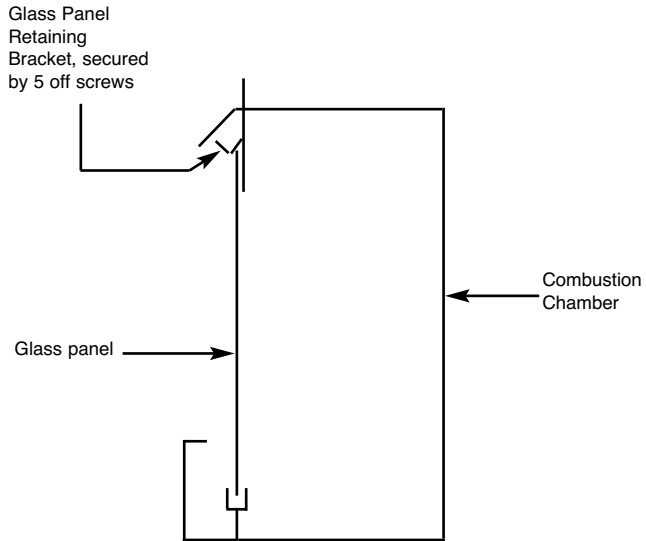
Fig. 9



**NOTE :** Always ensure that a consistent seal between the combustion chamber and the glass frame is achieved when replacing the glass panel.

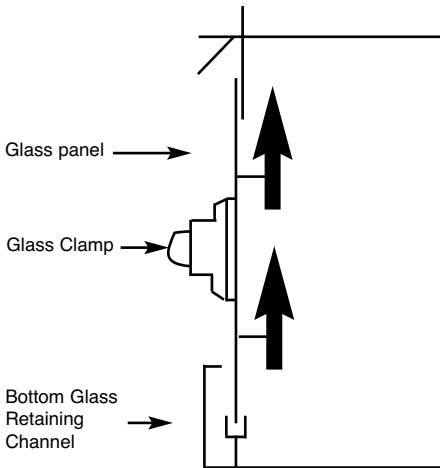
- c) Remove the 5 off securing screws and glass panel retaining bracket that are located on the top underside face of the combustion chamber behind the canopy. See Fig. 10 below.

**Fig. 10**

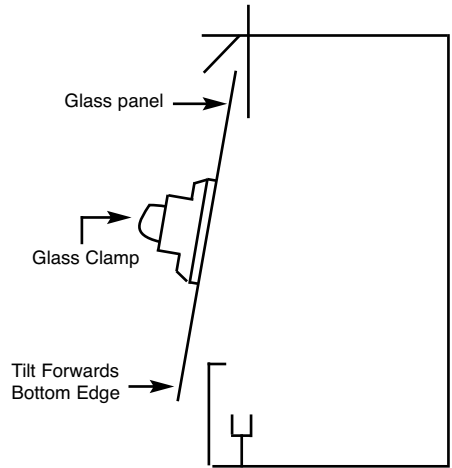


- c) Lift the glass panel vertically to release from the bottom retaining channel and then tilt forwards as shown below in Fig. 12 / 12 to release.

**Fig. 11**



**Fig. 12**



## 5.5 A REMOVAL AND REPLACING THE FUEL-BED LOGSET

**IF FITTING THE PRODUCT WITH THE PEBBLE FUELBED, PLEASE PROCEED TO SECTION 3.1B. REMOVE GLASS PANEL AS DETAILED IN PAGE 52-33 BEFORE PROCEEDING.**

Check there are the following logs in the ceramic set :- 2 x log "1", 1 x log "2", 1 x log "3", 1 x log "4", 1 x log "5", 1 x log "6", 2 x log "7" - Total = 9 logs

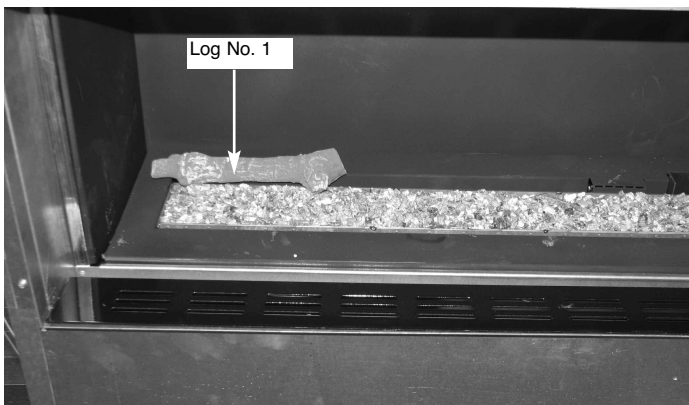
- a) The vermiculite material should then be first layed around the burner tray as shown below in Fig. 13, resulting in an even layer.

**Fig. 13**



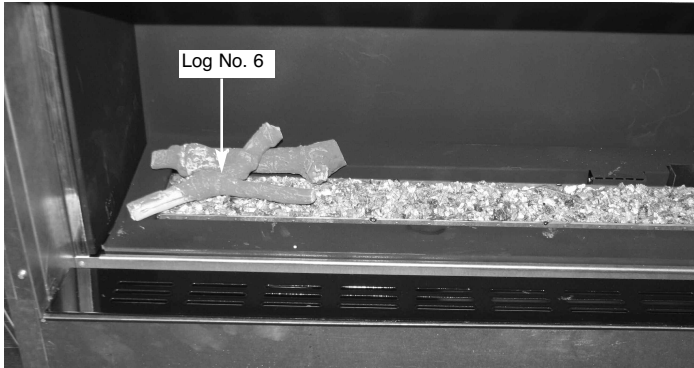
- b) Place Log "1" at the left hand side of the burner tray fitting the holes in the bottom face of the log onto the 2 off location pegs as shown below in Fig. 14

**Fig. 14**



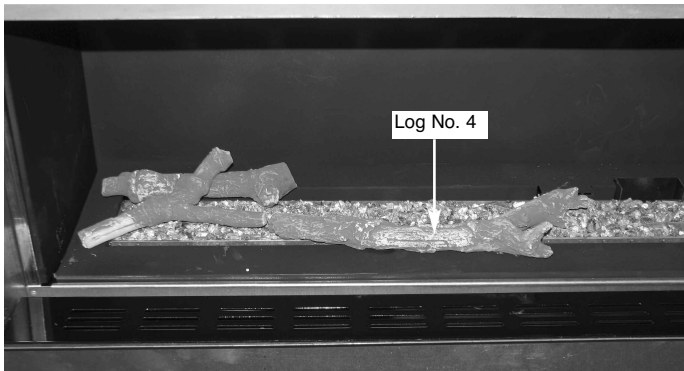
- c) Place Log “6” at the left hand side of the burner tray fitting the hole in the bottom face of the log onto the single location peg as shown below in Fig. 15

**Fig. 15**



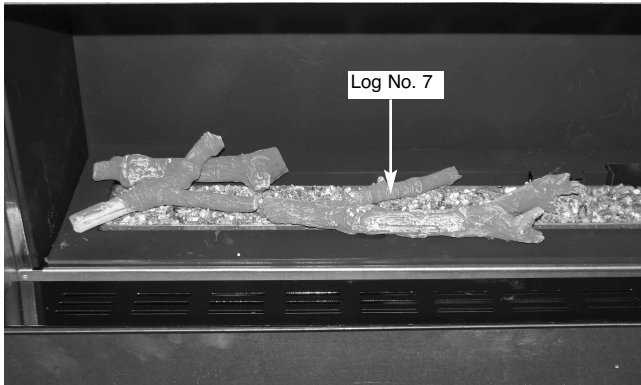
- d) Place Log “4” at the centre of the burner tray fitting the holes in the bottom face of the log onto the twin location pegs as shown below in Fig. 16

**Fig. 16**



- d) Place Log "7" at the centre of the burner tray fitting the hole in the bottom face of the log onto the 1 off location pegs as shown below in Fig. 17

**Fig. 17**



- e) Place Log "2" at the right hand centre side of the burner tray locating on the peg as shown below in Fig. 18

**Fig. 18**





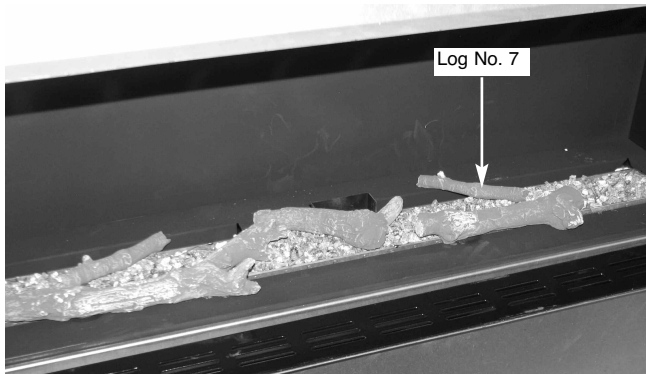
- f) Place Log “1” at the right hand centre side of the burner tray, locating on the twin locating pegs as shown below in Fig. 19

**Fig. 19**



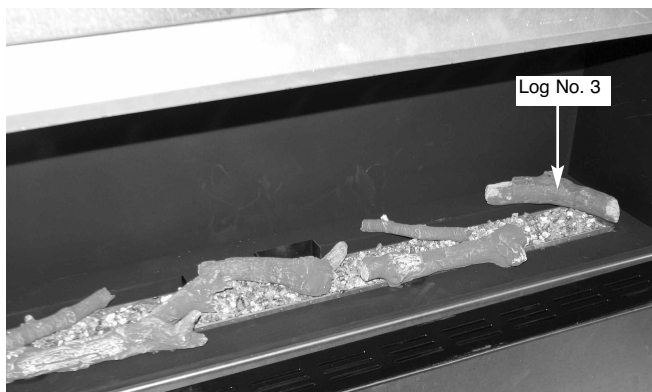
- g) Place Log “7” to the right hand side of the burner tray on the locating peg as shown below in Fig. 20

**Fig. 20**



- h) Place Log "3" at the right hand side of the burner tray on the single locating peg as shown below in Fig. 21

**Fig. 21**



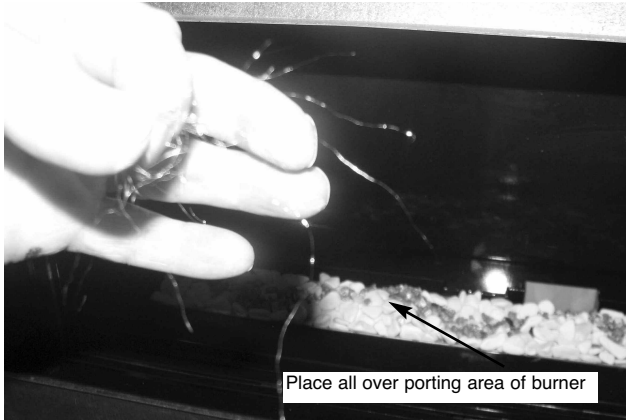
- i) Place Log "5" at the right hand side of the burner tray as shown below in Fig. 22, resting on log 3.

**Fig. 22**



- i) If required, fit the embaglow material over the flame ports. To do this, seperate into short strands and place randomly over the flame porting area as shown below in Fig. 23. **This material is only supplied to improve flame aesthetics and is optional to install.**

**Fig. 23**



- j) Refit the glass panel as described in section 2.14, then light the appliance as described as in section 3.2

**IMPORTANT NOTE : PLEASE ENSURE THAT WHEN COMMISSIONING THE FIRE THE FLAME PATTERN IS EVEN ACROSS THE WIDTH OF THE BURNER. IF AN UNEVEN FLAME PATTERN IS FOUND THEN RELAY THE QUANTITY VERMICULITE TO ACHEIVE AN EVEN FLAME PATTERN.**

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

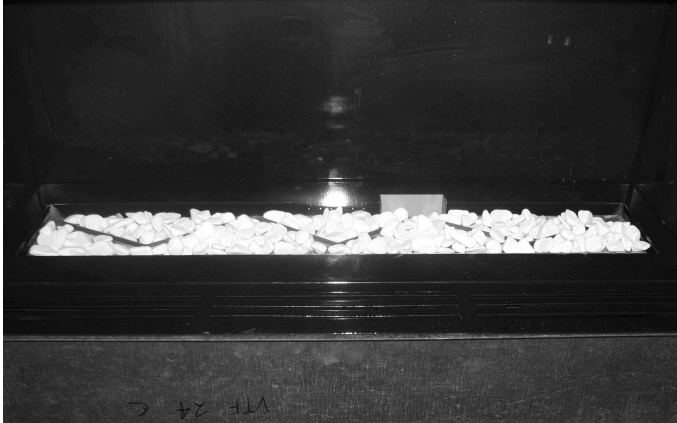
**This appliance does not contain any component manufactured from asbestos or asbestos related products.**

## 5.5 B REMOVAL & RE-FITTING THE FUEL-BED PEBBLES

Remove the glass panel as shown in on pages 51-52 before attempting to remove or replace the logs.

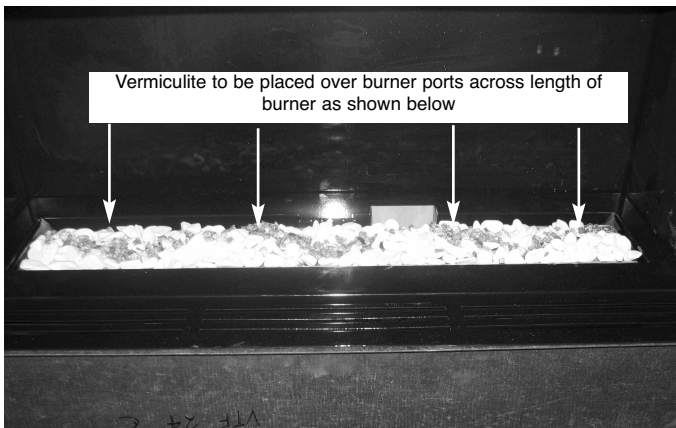
- a) Fit the pebbles to the burner tray as shown below in Fig. 24, do not fill the flame ports in the burner with pebbles.

Fig. 24



- b) Fit the vermiculite material into the burner ports as shown below in Fig. 25. **This material must be fitted in an even layer to ensure correct operation of the fire.**

Fig. 25



- c) If required, fit the glow fibre material over the flame ports. To do this, separate into short strands and place randomly over the flame porting area as shown on previous page in Fig. 17. **This material is only supplied to improve flame aesthetics and is optional to install.**

- d) Refit the glass panel as described on pages 52-53, then light the appliance as described as in section 5.2

### **User Replaceable Parts**

Glass panel	B-135970
Complete log set	B-142310
Log 1 only	B-128250
Log 2 only	B-128260
Log 3 only	B-128270
Log 4 only	B-128280
Log 5 only	B-128290
Log 6 only	B-128300
Log 7 only	B-128310
Emberglow	B-120070
Pebble set	B-128320
Vermiculite	CV-107116

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

**Part No. B-142300**  
**Issue 3**

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