



# Installation Instructions Kemlan Power Flue Horizon Gas Fireplaces



# Installation Instructions Kemplan Power Flue Horizon Gas Fireplaces

## Power Flue approved for the following models:

### SUITABLE GAS BURNER OPTION

SINGLE SIDED MODELS	
700 Low Line	700 Mk2 Pebble 700 Mk2 Coal 700 Ironbark Log Mk4
850 Low Line	800 Mk2 Pebble 800 Mk2 Coal 850 Ironbark Mk4
1100 Low Line	1000 Mk2 Pebble 1000 Mk2 Coal 850 Ironbark Log Mk4
CANTILEVER	
700 Cantilever	700 Mk2 Pebble 700 Mk2 Coal 700 Ironbark Log Mk4
1100 Cantilever	1000 Mk2 Pebble 1000 Mk2 Coal 850 Ironbark Log Mk4
DOUBLE SIDED MODELS	
700 Low Line	700 Mk2 Pebble 700 Mk2 Coal
850 Low line	800 Mk2 Pebble 800 Mk2 Coal
1100 Low line	1000 Mk2 Coal 1000 Mk2 Pebble

## Model Type 2: Power Flue Decorative Gas Fireplace

**DATA PLATE:** Refer to data plate for information in respect to gas pressure, consumption and gas type, Natural or LPG.

Data Plate is located under the gas burner and is accessed by lifting front access panel or removing base plate.

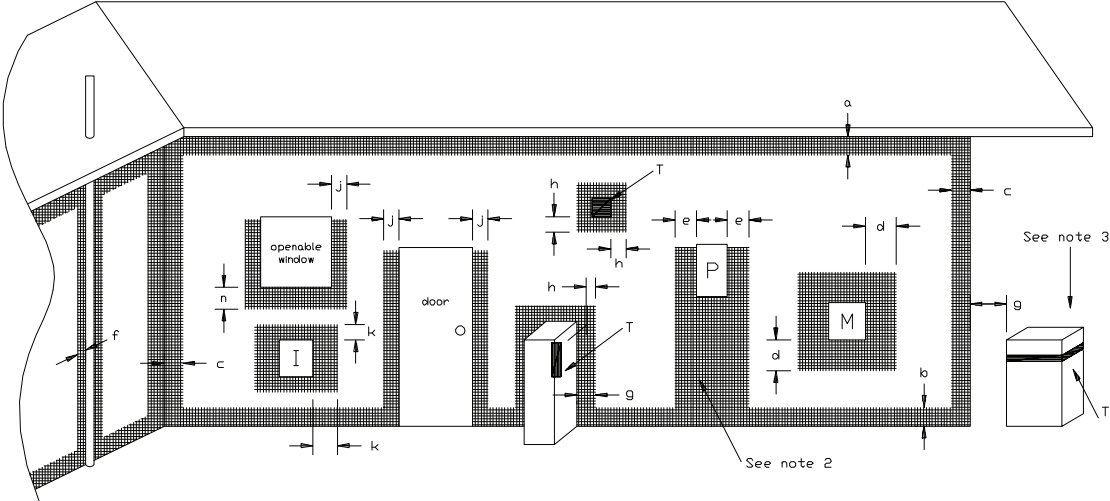
## Location Requirements

Power flue systems utilise a fan assisted draft to ensure products of combustion are exited through a flue terminal either horizontally or vertically terminated.

The following A.G.A location requirements for flues are to be observed when installing a powered flue system.

SEE NEXT PAGE FOR LOCATION REQUIREMENTS

## Location Requirements



T = Flue terminal  
 I = Mechanical air inlet  
 M = Gas meter  
 P = Electricity meter or fuse box  
 Shading indicates prohibited areas for flue terminals

- a - Below eaves, balconies or other projections: MIN. CLEARANCE (mm)  
     Appliances up to 50 MJ/h input ..... 300  
     Appliances over 50 MJ/h input ..... 500
- b - From the ground or above a balcony ..... 300
- c - From a return wall or external corner ..... 500
- d - From a gas meter (M) ..... 1000
- e - From an electricity meter or fuse box (P) ..... 500
- f - From a drain or soil pipe ..... 150
- g - Horizontally from any building structure (unless appliance approved  
     for closer installation) or obstruction facing a terminal ..... 500
- h - From any other flue terminal, cowl, or combustion air intake ..... 500
- j - Horizontally from an openable window, door, non-mechanical air  
     inlet, or any other opening into a building, with the exception of  
     sub-floor ventilation:  
     Appliances up to 150 MJ/h input ..... 500  
     Appliances over 150 MJ/h input ..... 1500
- k - From a mechanical air inlet, including a spa blower ..... 1500
- n - Vertically below an openable window, non-mechanical air inlet  
     or any other opening into a building, with the exception of sub-floor ventilation ..... See table below

CLEARANCES 'n' (mm)			
Space heaters	All other appliances		
Up to 50 MJ/h input	UP to 50 MJ/h input	Over 50 MJ/h & up to 150 MJ/h	Over 150 MJ/h input
150	500	1000	1500

- NOTES:
1. All distances are measured vertically or horizontally along the wall to a point in line with the nearest part of the terminal.
  2. Prohibited area below electricity meter or fuse box extends to ground level.
  3. See clause 5.13.6.6 for restrictions on a flue terminal under a roofed area.
  4. See Appendix J, Figure J1(a) and J2(a) for clearances required from a flue terminal to a LP Gas cylinder. A flue terminal is considered to be a source of ignition.

MINIMUM CLEARANCES REQUIRED FOR BALANCED FLUE TERMINALS  
 OR THE FLUE TERMINALS OF OUTDOOR APPLIANCES

## Before Installation

The Horizon powered flue system shall be installed by authorized personnel in accordance with the manufacturer's installation instructions, local gas fitting regulations, municipal building codes, electrical wiring regulations, and any other statutory regulations. Contact your local building authorities about restrictions and installation inspections that may be required. If in doubt contact your local dealer or Kemlan's Head office.

### IMPORTANT AUSTRALIAN CODES:

- Australian Standards AS 5601 Gas Installation
- Australian Standards AS 3000 Electrical

## Important Safety Notes

- Comply with all instructions in manual including clearances to combustible material.
- Do not operate without fully assembling all components.
- All open gas fires require ventilation in the room.
- Do not connect to any other air distribution duct or system.
- When using an internal fan system an A.G.A approved cowl is required at flue terminal.
- Air movement of systems- A decorative gas log fire must not be installed where the operation of any ventilation system, fan or air blower could in any circumstances cause the air pressure to be less than atmospheric at the appliance.
- Do not block or restrict chimney. The power flue system operates on pressure switches opening a valve for gas to flow. If flue is blocked the system will cut out.
- After installing appliance check that the flue draws well with smoke pellet.
- Kemlan recommends that all gas fires be serviced every year.
- All gas units must be fitted by a licensed gas fitter.
- It is the responsibility of the gas fitter to follow the regulations set out in the Gas Code that dictate the procedures to follow when installing a gas appliance, particularly regarding gas pipe sizing and checking of pressures. (see page 10)

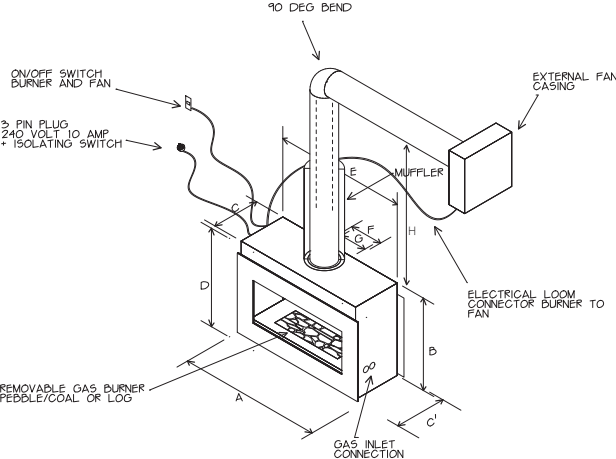
## Installation

- 1 Access must always be available to the fan system for servicing. If installing the internal fan system an access panel of 400mm x 400mm needs to be installed with a clearance of 100mm over the top of fan to lift out.
- 2 The power flue Horizon system is supplied with all required electrical fittings. Work needs to be undertaken by a licensed electrician if extending wiring. Wiring requires clearance of minimum 100mm to flues and fireplace body due to heat. See Wiring diagram page. Wiring must be positively secured away from heat source.
- 3 An isolation switch needs to be provided if connecting within fireplace framework.
- 4 Build frame to specifications provided.
- 5 Unit located on 10mm fiber cement sheeting. Sheeting requires 5 x 50mm holes drilled for air access to gas burner.
- 6 Unit, flues, fan and muffler to be installed prior to plastering. Muffler is installed prior to fan to eliminate fan noise. The muffler is attached to spigot by a 150mm reducer.
- 7 Gas line run to desired position prior to plastering.
- 8 A minimum height of 150mm from floor needs to be available for use of front fascia on firebox.
- 9 Clearance of 75mm above horizontally run flue. 50mm to vertical flue.
- 10 Maximum horizontal run of 5m.
- 11 All flue components to be riveted together.
- 12 Ventilation is required under fireplace to allow for sufficient air to gas burner. (Note Elevation drawing)
- 13 Rooms with Gas Open Fires require fresh air vents of 400sq centimetres for each Decorative Gas, Coal Fire.

# Installation Instructions Kemlan Power Flue Horizon Gas Fireplaces

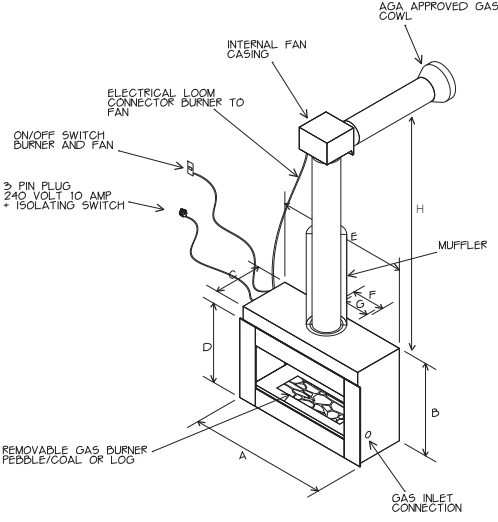
## Measurement and Specifications of Fan Power Flue

### EXTERNAL FAN DOUBLE SIDED - SIDE EXIT



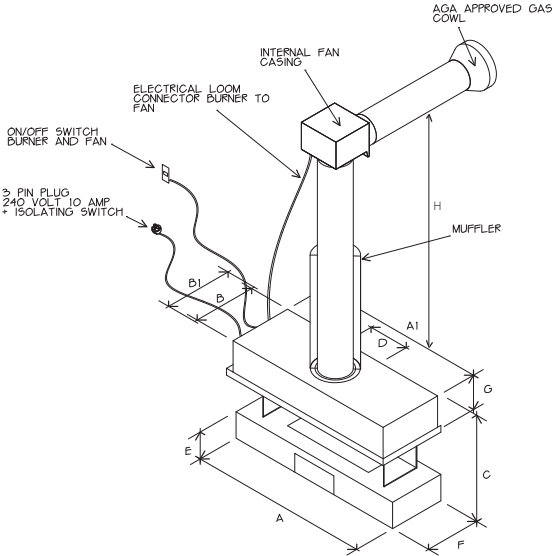
DOUBLE SIDED	A	B	C	C'	D	E	F	G	H
700 LOW LINE	1006	585	450	482	670	1000	300	250	1210
850 LOW LINE	1150	585	450	482	770	1095	300	250	1210
1100 LOW LINE	1400	585	450	482	770	1358	300	250	1210

### INTERNAL FAN SINGLE SIDED - REAR EXIT



SINGLE SIDED	A	B	C	D	E	F	G	H
700 LOW LINE	1006	670	365	585	1000	228	176	1010
850 LOW LINE	1150	770	405	585	1095	274	225	1010
1100 LOW LINE	1400	770	405	585	1358	274	225	1010

### INTERNAL FAN CANTILEVER - REAR EXIT

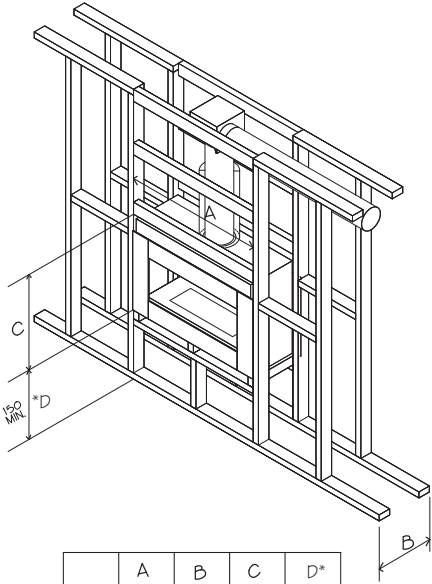


SINGLE SIDED	A	A1	B	B1	C	D	E	F	G	H
CANTILEVER 700	1190	1266	440	478	455	225	177	405	336	1010
CANTILEVER 1100	1424	1500	440	478	455	225	177	405	336	1010

# Installation Instructions Kelman Power Flue Horizon Gas Fireplaces

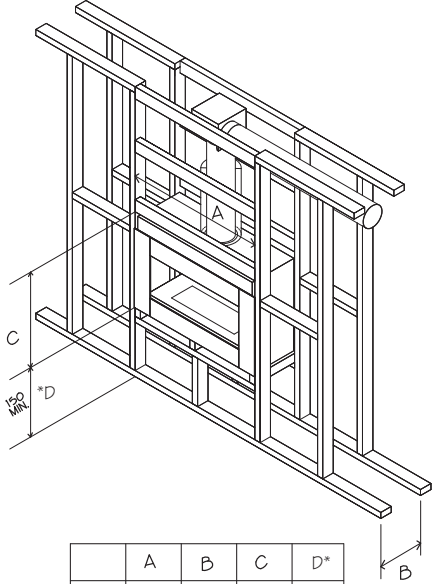
## Framing Dimensions

DOUBLE SIDED



	A	B	C	D*
700	1056	482	750	320
850	1145	482	845	220
1100	1408	482	845	220

SINGLE SIDED

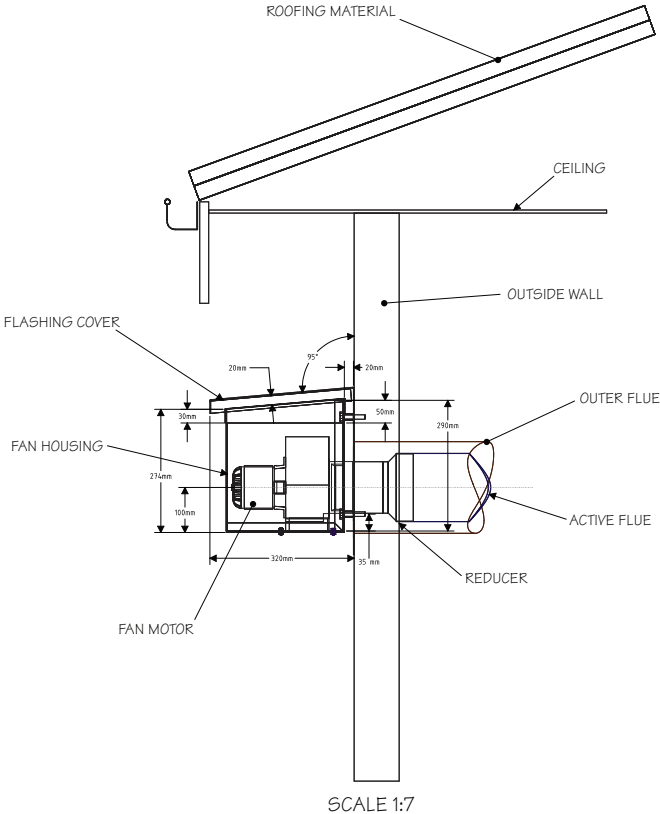


	A	B	C	D*
700	1056	395	750	320
850	1145	435	845	220
1100	1408	435	845	220

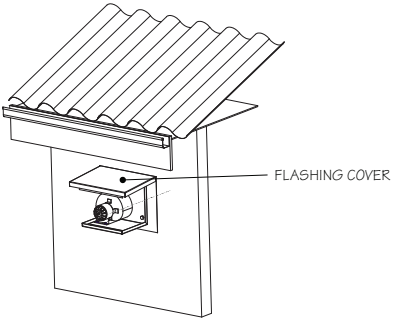
\*MAX HEIGHT  
BASED ON 2.4M CEILING

## Kelman Powered Flue External Fan Details

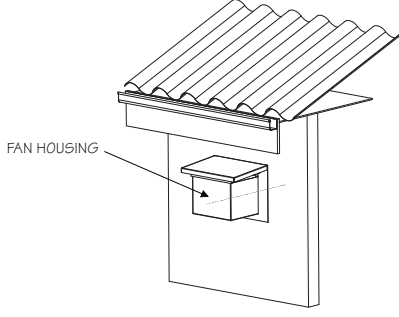
WALL MOUNTED



SCALE 1:7



SCALE 1:20



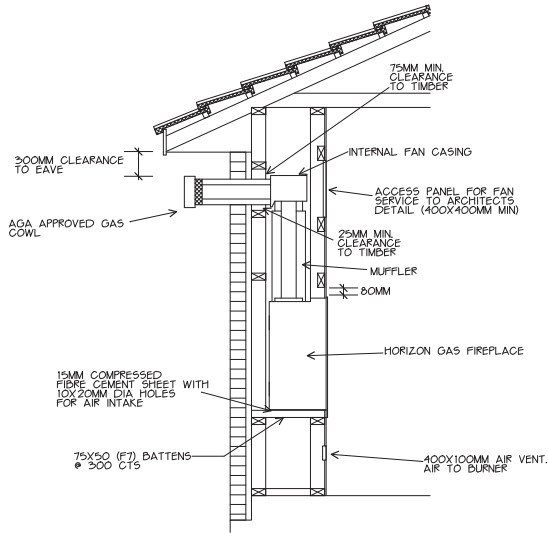
SCALE 1:20



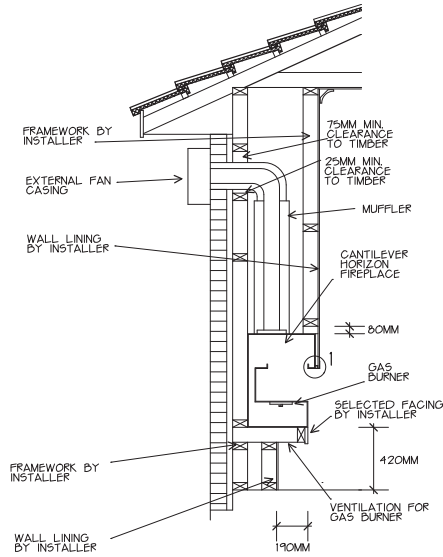
# Installation Instructions Kemplan Power Flue Horizon Gas Fireplaces

## Section of Fan Power Flue

INTERNAL - REAR EXIT

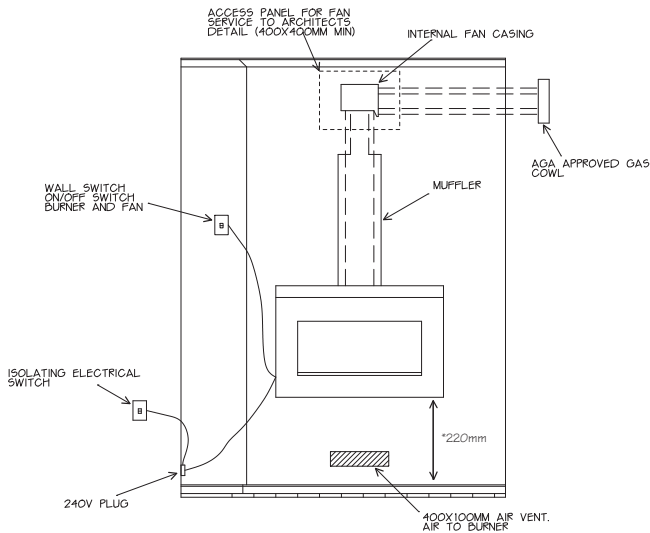


EXTERNAL - REAR EXIT



## Elevation of Fan Power Flue

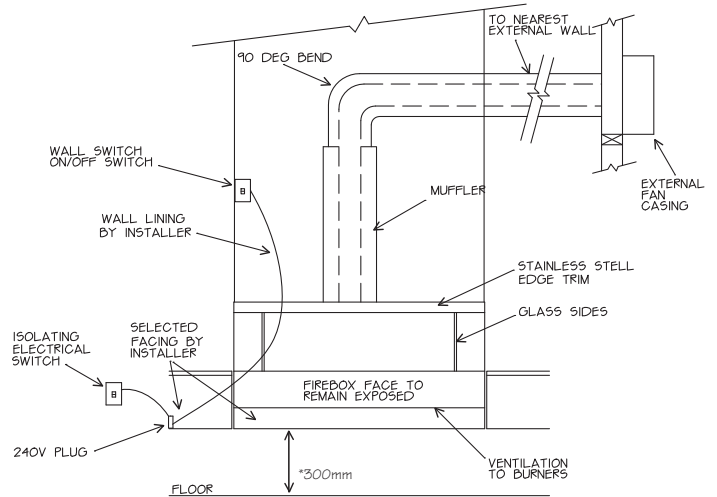
INTERNAL FAN - SIDE EXIT



SINGLE SIDED ELEVATION

\*MAX HEIGHT 220MM BASED ON 2.4M CEILING

EXTERNAL FAN - SIDE EXIT



CANTILEVER ELEVATION

\*MAX HEIGHT 300MM BASED ON 2.4M CEILING

## Gas Installation

- 1 Check unit is suitable for intended gas supply.
- 2 Note position on gas appliance on drawing specification on right hand side of appliance.
- 3 A gas cock has to be fitted prior to gas burner to allow unit to be removed for servicing.
- 4 If material has been installed around firebox and access panel below is not accessible the top plate can be removed to gain access by removing four screws and lifting out top plate.
- 5 Connection is half inch BSP fitting. Cut and debur both ends of pipe. Fit end to gas supply point and turn on for approximately 5 seconds to clear dirt and grit out of pipe. Connect into gas valve.
- 6 Turn on the gas and check all connections for leaks using approved method for testing. Fix any leaks.

## Adjusting Pressure, Pilot and Low Fire

- 1 All settings are set to operate at nominal pressure (see data plate). Test points to measure inlet and outlet pressure are located on gas valve. Unscrew brass screw on test point pressure nipples and attach manometer and read pressures with unit running. Adjust pressure to data plate requirements.
- 2 Check low fire if adjusted correctly.
- 3 Note: Failure to set pressures correctly will void warranty on the unit.

## Lighting Instructions

Power flue systems are provided with 240 volt electronic ignition systems.

An on/off wall switch is supplied and fitted with unit. The fireplace is switched on from wall switch and fan is initially activated. Power is then sent to valve to light pilot and main burner will then ignite from pilot.

Burner is turned off by turning off wall switch. Power flue system does not have a high low switch burner switch.

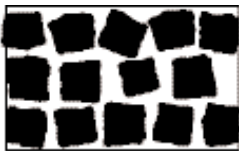
## Laying the fire - Coal & Pebble

- Evenly spread a bag of Vermiculite into the burner tray. Tray should be completely filled to the top with Vermiculite to a depth of approximately 45mm.
- Unpack the coals/pebbles contained in a clear plastic bag and lay a row of coals/pebbles on the vermiculite along the back of the burner tray leaving approximately 12-15mm between them.
- Leave spaces at the edges to allow free flow of gas.
- Place a further row of coals/pebbles directly in front of the first row but staggered so that the second row of coals are behind the gaps of the first row leaving approximately 12-15mm between the rows of each coal/pebble.
- Lay further rows of staggered coals/pebbles depending on the size of the basket grate.
- Once the bottom layer is completed, build up 2-3 tiers of coals in a honeycomb pattern to form an elongated pyramid.
- Lay the coals/pebbles so that some irregularity to the pile through which the flames may lick, is created.
- Your aim is to build “windows” into the fire through which the radiant effect may show but at the same time, not leaving such large gaps between the coals/pebbles that excessive air may enter and “damp down” the red glow.
- After the fire has been alight for 15 minutes, you may wish to add the odd coal/pebble or even relay the fire completely. Allow to cool before touching the coals/pebbles.
- Experience will enable you to obtain a pleasing appearance with suitable heat output, but please bear in mind that it is important to maintain the general pattern described above and indicated in illustrations.

SEE NEXT PAGE FOR COAL & PEBBLE DIAGRAMS



### Laying the fire - Coal & Pebble



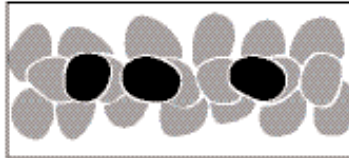
MARK 2 COALS 440 / 500 - 390 X 240



MARK 2 COALS 600 - 460 X 260



MARK 2 COALS 700 - 580 X 260



MARK 2 PEBBLES 700 - 580 X 260



MARK 2 COALS 700/800 - 600 X 155



MARK 2 PEBBLES 700/800 - 600 X 155

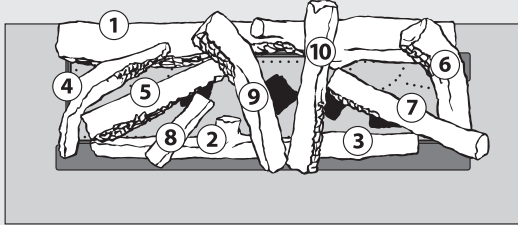


MARK 2 COALS 1000 - 992 X 155



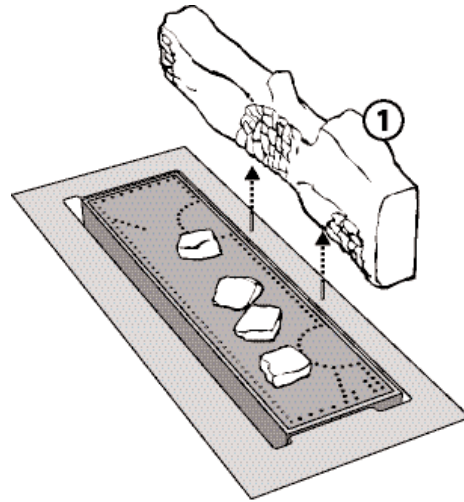
MARK 2 PEBBLES 1000 - 922 X 135

## Laying the fire - 850 Ceramic Log

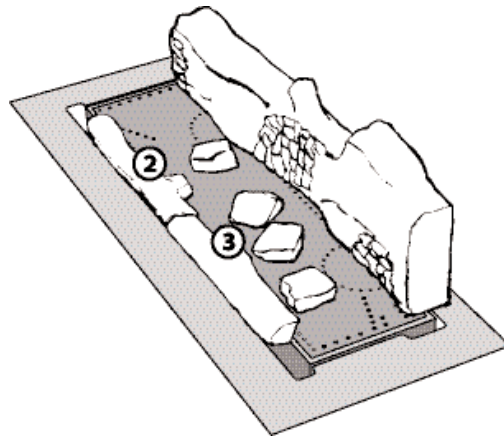


### POSITIONING OF ALL LOGS

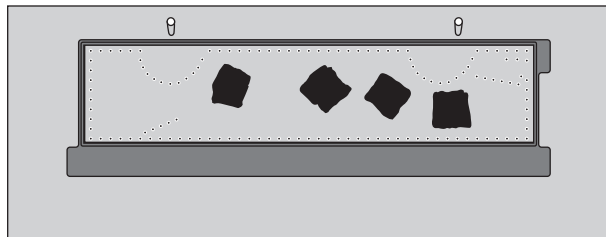
- It is important to follow the log recommended positioning.
- Log NO. 6, 10, 9 and 4 must be pinned to rear log with pins provided.
- Not doing so can adversely effect the operation of the appliance.
- This diagram shows the recommended log positions, when viewed from above.



**2. LOCATE LOG NO. 1:** This is the largest log that is positioned at the rear of the grate. Two locating pins are positioned at the rear of the burner. The large log has two holes on the underside to position in place.



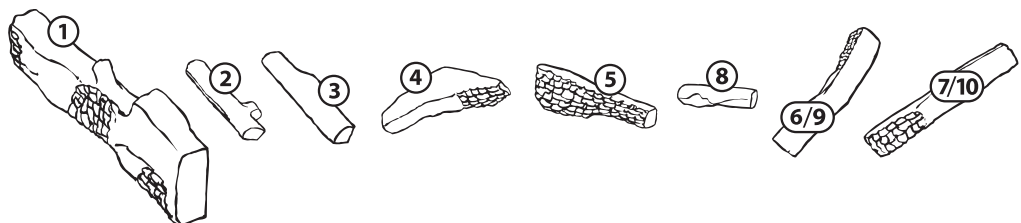
**3. LOCATE LOG NO'S 2 & 3:** Two front log NO'S. 2 & 3 are supplied to fit into the space between the metal frame and the ceramic base. These logs do not cover the front burner ports but are designed to deflect the front flame back into the fire.



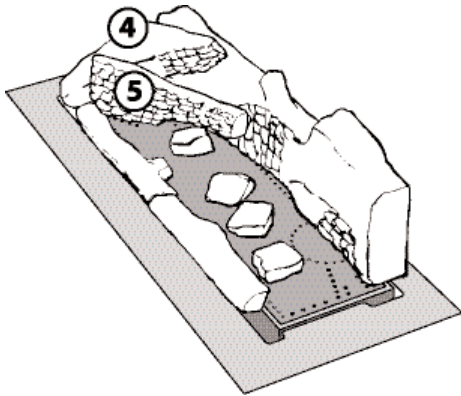
**1. LOCATE 4 CERAMIC COALS:** Four ceramic coals are supplied with the burner base. These coals must be laid in the position indicated on the drawing with the taller coals on the ends and smaller coals in-between.

### LOGS

Only use logs supplied by the manufacturer as other logs may effect combustion performance.

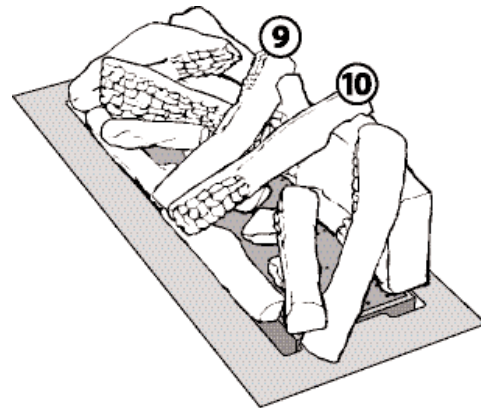


## Laying the fire - 850 Ceramic Log



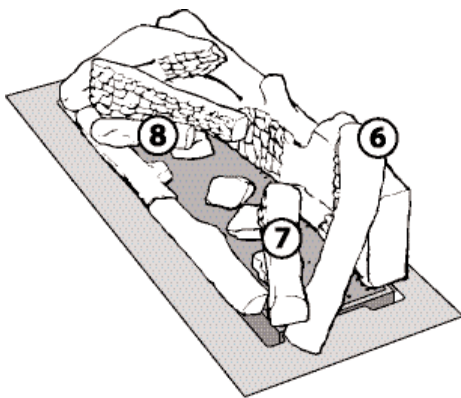
**4. LOCATE LOG NO. 4.** Place it on the left side of the rear log. Charred end facing inwards.

**LOCATE LOG NO. 5.** This log is placed with the thinner edge on the smaller coal. The charred effect is facing towards the front of the burner. The whole log is positioned on the burner base.



**6. LOCATE LOG NO. 9.** This log is placed on the rear log in the centre of the burner. Charred effect facing toward the left of the burner. The front rests on logs 2 & 3 on the join.

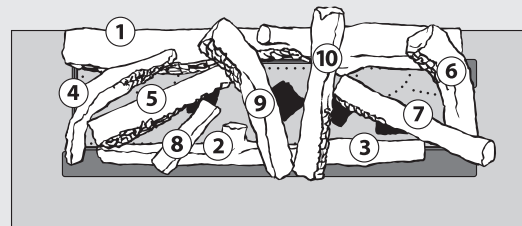
**LOCATE LOG NO. 10.** This log is located on the rear log in the position where the log reduces in height. The charred end is located on the front log 3 with the charred effect facing toward the right hand side.



**5. LOCATE LOG NO. 6.** Place this log on the right hand side of the burner on the rear log in front of the pilot. Charred end facing inwards. The left hand side of the log is positioned between the metal uprights on the side of the grate.

**LOCATE LOG NO. 7.** The charred effect of the log is positioned on the smaller coal in the centre of the burner on the right hand side.

**LOCATE LOG NO. 8.** This smaller log is placed on the top of log NO. 2 and rests on the left hand coal in the centre of the burner.

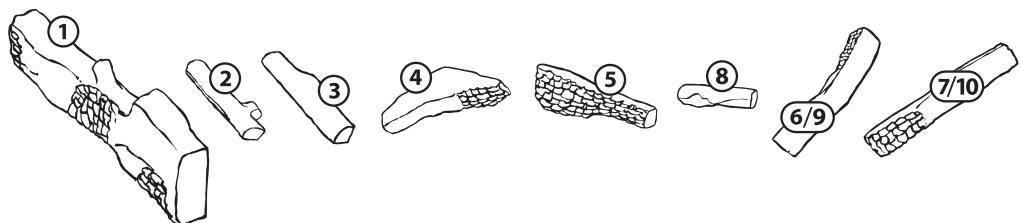


### POSITIONING OF ALL LOGS

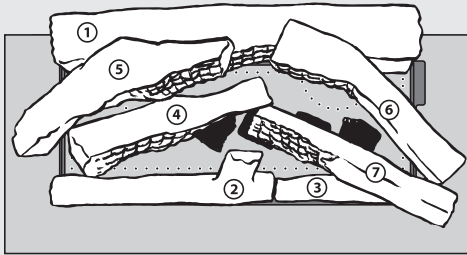
- It is important to follow the log recommended positioning.
- Log NO. 6, 10, 9 and 4 must be pinned to rear log with pins provided.
- Not doing so can adversely effect the operation of the appliance.
- This diagram shows the recommended log positions, when viewed from above.

### LOGS

Only use logs supplied by the manufacturer as other logs may effect combustion performance.

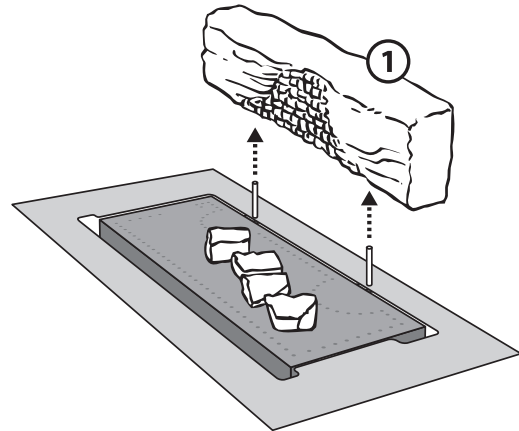


## Laying the fire - 700 Ceramic Log

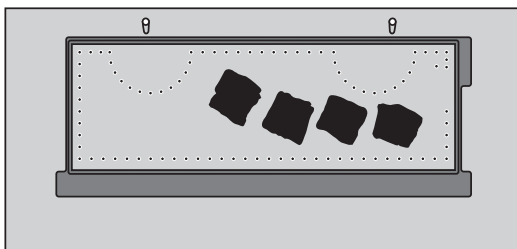


### POSITIONING OF ALL LOGS

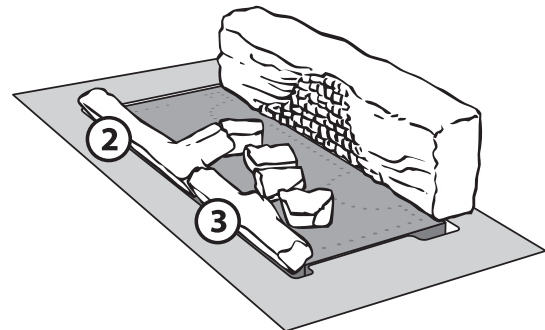
- It is important to follow the log recommended positioning.
- Not doing so can adversely effect the operation of the appliance.
- This diagram shows the recommended log positions, when viewed from above.



2. LOCATE LOG NO. 1: This is the largest log that is positioned at the rear of the grate. Two locating pins are positioned at the rear of the burner. The large log has two holes on the underside to position in place.



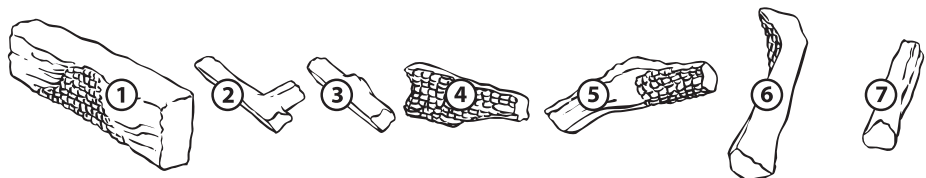
1. LOCATE 4 CERAMIC COALS: Four ceramic coals are supplied with the burner base. These coals must be laid in the position indicated on the drawing with the taller coals on the ends and smaller coals in-between.



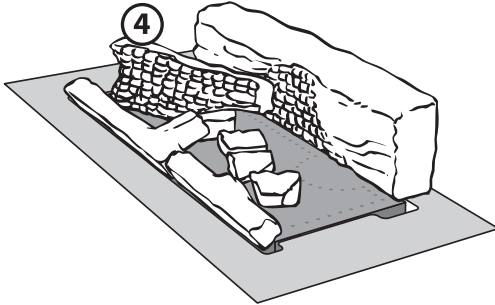
3. LOCATE LOG NO'S 2 & 3: Two front log no's. 2 and 3 are supplied to fit into the space between the metal frame and the ceramic base. These logs do not cover the front burner ports but are designed to deflect the front flame back into the fire.

### LOGS

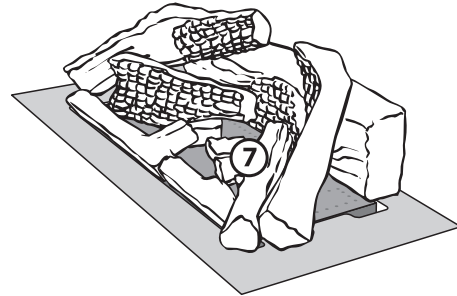
Only use logs supplied by the manufacturer as other logs may effect combustion performance.



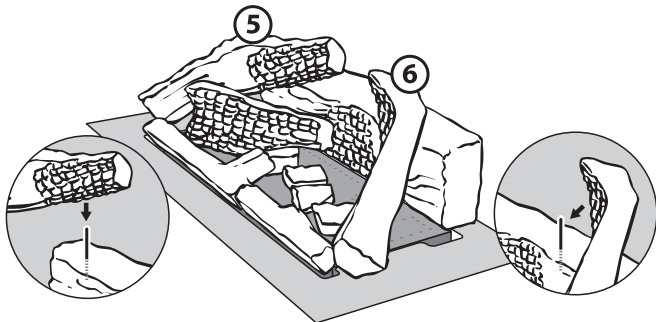
## Laying the fire - 700 Ceramic Log



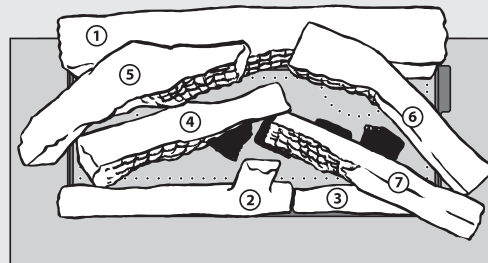
4. LOCATE LOG NO. 4. This log is placed with the thinner edge on the smaller coal. The charred effect is facing towards the front of the burner. The whole log is positioned on the burner base.



6. LOCATE LOG NO. 7: The charred effect of the log is positioned on the smaller coal in the centre of the burner on the right hand side. The right hand side of the log is positioned between the front metal upright on the side.



5. LOCATE LOG NO'S 5 & 6. Log no. 5 is positioned onto the larger rear log on the left hand side. The charred effect faces inwards and the bark effect on the outside. The left hand side of the log is positioned between the metal uprights on the side of the grate. Log no. 6 is positioned in the same manner but on the right hand side of the burner with the right hand side of the logs positioned between the metal uprights of the grate. Two pins are provided to firmly position these two logs onto the large rear log (no. 1).

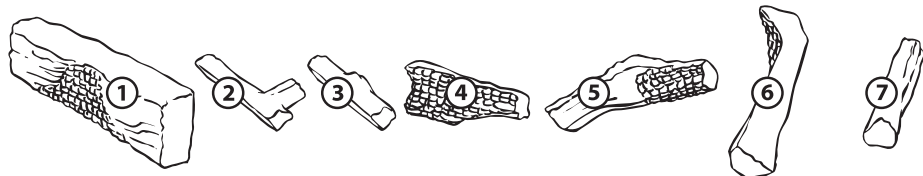


### POSITIONING OF ALL LOGS

- It is important to follow the log recommended positioning.
- Not doing so can adversely effect the operation of the appliance.
- This diagram shows the recommended log positions, when viewed from above.

### LOGS

Only use logs supplied by the manufacturer as other logs may effect combustion performance.



### Commissioning Procedure

Installed correctly the burner should not emit any fumes into the room. The following procedure should be undertaken to test that the unit is operating correctly.

1 After unit has been operating for a short period a smoke match, smoke tube, carbon dioxide analyser or similar should be directed at the top opening of the unit.

2 This procedure should be undertaken with the following conditions in the room:

- Open or closed windows
- Operation of extraction/exhaust fans, range hoods etc
- Operation of other gas appliances
- Operation of optional appliance fan at any speed.

3 Should any spillage be detected the cause must be rectified before allowing commissioning of unit.

### User Instructions

I. **WARNING NOTE:** Properly installed and operated this appliance will not leak gases. Persistent fume emission must not be tolerated. If fume emission does exist, then the following immediate action should be taken.

A Open doors and windows to ventilate room.

B Turn the fire off.

C Check for flue blockage and clear if necessary.

D Do not attempt to relight the burner until the cause of the emission has been identified and rectified. Should assistance be required contact nearest agent.

E The gas burner is designed to work in a Kemlan Horizon electronic power flue ignition system. Working correctly there will be no spillage. Unit should cut out if not enough draw to ensure proper functioning.

2 Initially the Kemlan coal fire may burn with a slightly blue flame. After approximately 20 minutes the fire will settle down and burn with a yellow flame.

3 As with all gas fires your gas coal/pebble or log fire should be regularly serviced. We recommend once each year. Contact your for an authorized person to follow has been set out in attached leaflet.

4 **PLEASE NOTE:** Only logs provided by Kemlan should be used with this appliance.

5 **DO NOT** place articles on or against this appliance.

**DO NOT** use or store flammable materials near this appliance.

**DO NOT** spray aerosols in the vicinity of this appliance whilst it is in operation.

Primarily a decorative appliance not certified as a space heater.

6 The appliance is a live fuel effect product designed to operate with luminous flames and may exhibit slight carbon deposition.

### Warranty

Provided the appliance has been correctly installed according to instructions, Kemlan guarantee the cost of replacing parts and the labour in connection therewith for a period of 12 months from the date of installation.

For further information contact Kemlan Australia

Head Office: 59 Pineapple St Zillmere QLD 4034 Telephone 07 3263 8488 Facsimile 07 3263 6452 [www.kemlan.com](http://www.kemlan.com)





