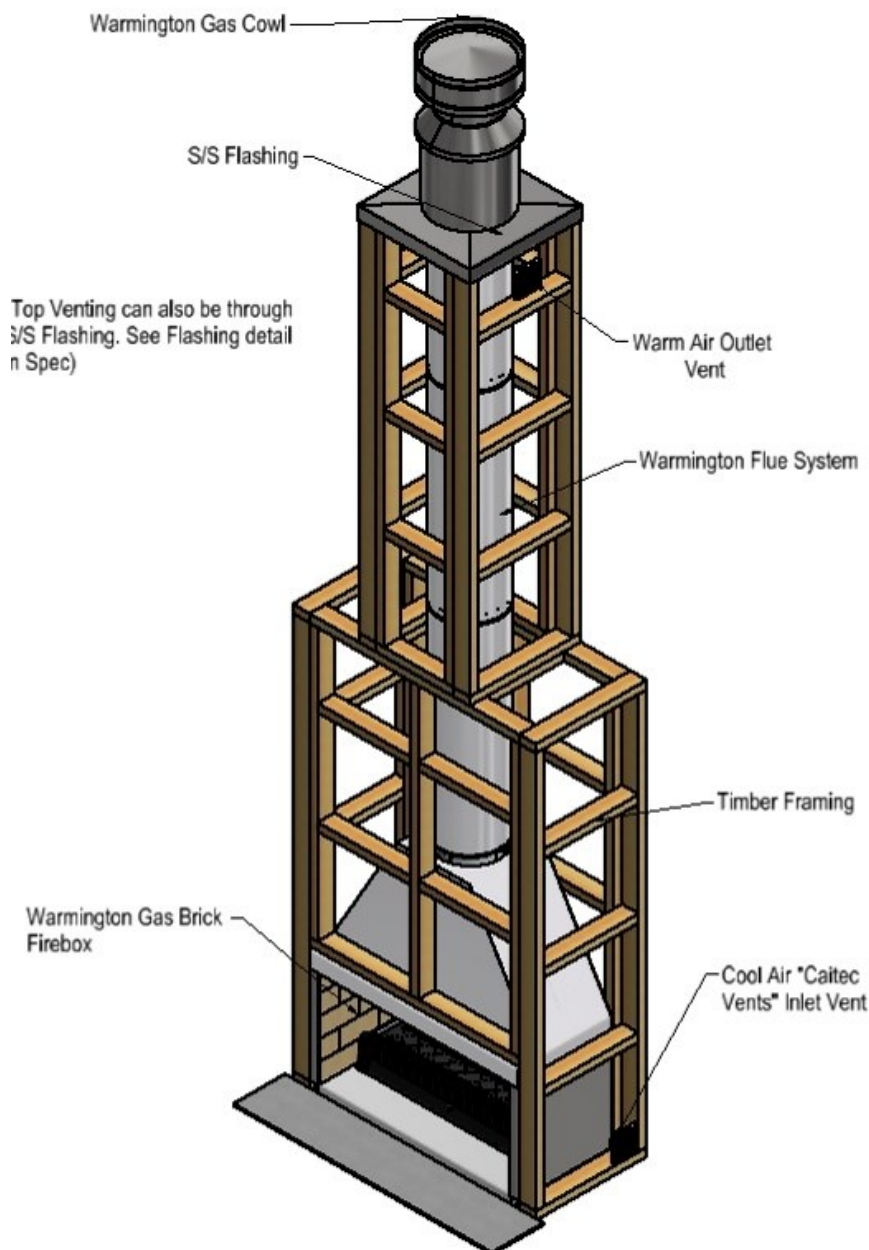


# Bricklined Fire - Gas 780-900-1100-1250-1500

## OPEN BRICKLINED FIRE - GAS SPECIFICATIONS



### Related documents

**Fire and flue system installation, and instructions to comply with NZS 5601.1:2013, 3645.1(Int):2010, 3645.2(Int):2010, 5266:2014, 2918:2001.**

**The fireplace is constructed and tested to comply with NZS 4558(int):2013 "Decorative gas log and other fuel effect appliances".**

Keep these instructions for further reference. Ensure that you have the correct and current installation details for the Warmington fireplace.

### Installation

The Warmington unit is to be installed by a certified Warmington installer or an approved NZHHA installation technician.

See [www.homeheat.co.nz/members](http://www.homeheat.co.nz/members) for a certified NZHHA SFAIT Installer in your area.

A licenced certified gas fitter and licenced electrician are required to run power and gas supplies as required to the unit and any commissioning as part of the installation process. The heater must be installed according to these instructions and in compliance with all relevant building, gas fitting, electrical and other statutory regulations.

### **IMPORTANT**

Read all the instructions carefully before commencing the Installation. Failure to follow these instructions may result in a fire hazard and void the warranty

Due to continued product improvement, Warmington Ltd reserves the right to change product specifications without prior notification.

## POINTS TO CONSIDER PRIOR TO INSTALLATION

Location of the Fire. Open Fires are better located at one end of a room or area, as they project the heat away from their opening .

### Venting to the Cavity.

This air is to allow the Cavity to Vent the Warm Air. This Warm Air helps keep the Fire and Flue System from getting to Cold . If the Flue and Fire get to Cold the System may soot often and require cleaning. Each Fire has different ways of venting the cavity .

### The Topography of the Land .

The slope and position of the Land in relation to the Home has a bearing on how the wind will interact with the Fire and Flue System. Care needs to be taken to ensure that the Flue Termination is in the correct position to maximise performance .

### The Prevailing Wind.

Care needs to be taken to ensure that the Flue Termination is in the correct position as wind and gusts that hits the Flue and Cowl System may overcome the Cowl and draft back down the Flue into the Home. This can be a combination of down draft and high pressure.

### Hearth and Plinth:

The height of the Hearth off the Floor. The Finishing that is to be used on the hearth is to be allowed for at the design stage.

### Positioning of the Flue System:

There is a maximum distance that an Offset Flue can be Installed. Reference to relevant standards.

### Flue and Fire Clearance:

To be maintained to the Manufactures Instructions.

### Pressure Differential, Venting & External Air into the Building :

All fires need air to burn and draw correctly, Kitchen Fans, Air Conditioning units, High Wind Zones, Naturally forming Draft spaces, can all have an effect on the pressure difference from inside the building to the outside. A lower pressure in the building may induce a draft down the flue system and back into the building causing the fire to smoke or spill into the building. **Care needs to be taken at the design and installation stage to adequately vent the building, or some mechanical system to ensure that there is always a neutral or positive pressure at the fireplace and a negative pressure at the flue outlet.** This will ensure that the draft in the flue system is always to the outside.

“CAITEC AIR” the limits and requirements. See details in these Spec's, on [www.warmington.co.nz](http://www.warmington.co.nz) or contact your local Agent.

## INSTALLATION ORDER OF OPERATIONS

### Prior to Construction and Installation

### Important Notes:

1. **Consult a licenced certified gas fitter for correct gas installation.**
2. Install to current standards.
3. Install to manufacture's specifications.
4. All New Installations require a permit.
5. Allow for gas supply to heat cell at R.H. rear, and power supply to L.H. rear if required (check product).
6. For special requirements concerning materials (Timber Mantle and Surrounds) within close proximity of Warmington products, please contact your local Warmington Technical Consultant .
- 7.

### Stage 1: Frame Construction Procedure by Builder.

1. Mark out Flue Centre.
2. Mark out Heat Cell Clearance requirements.
3. Build Timber Framing to Heat Cell Clearances and Chimney Chase Clearance requirements.
4. Ensure that the front face of Heat Cell Clearance alcove is left open and unframed to enable Installation of the Firebox. The Chimney Chase is left unlined for Installation of the Flue.
5. Construct Plinth only, to required height. \*

### Stage 2: Install Procedure by Certified “Warmington Installer”only.

1. Fit Fire to Plinth.(Ensure Gas Supply Line is fed through R.H. Side of Firebox.)
2. Fit Flue System.
3. Fit Cowl and Flashing System.
4. Fit Vents to Heat Cell Alcove and Chimney Chase, to cool the Heat Cell and ensure efficiency of CAITEC Technology.
5. Clean and touch paint up on the fires and cover if necessary.

### Stage 3: Finishing Procedure by Builder.

1. Construct Hearth to required thickness. \*
2. Finish Framing of Heat Cell Alcove.
3. Close in Heat Cell Alcove and Chimney Chase.
4. Finish Heat Cell Alcove and Hearth to customer's requirements (e.g. paint / tiles).
5. \* **Note: Certified Installer can install Hearth and Plinth.**

### Maintenance.

Visually Inspect Fireplace and Flue System.  
Ensure that Firebox is operated according to the Manufacture's Instructions.

## WARMINGTON FIREBOX DIMENSION

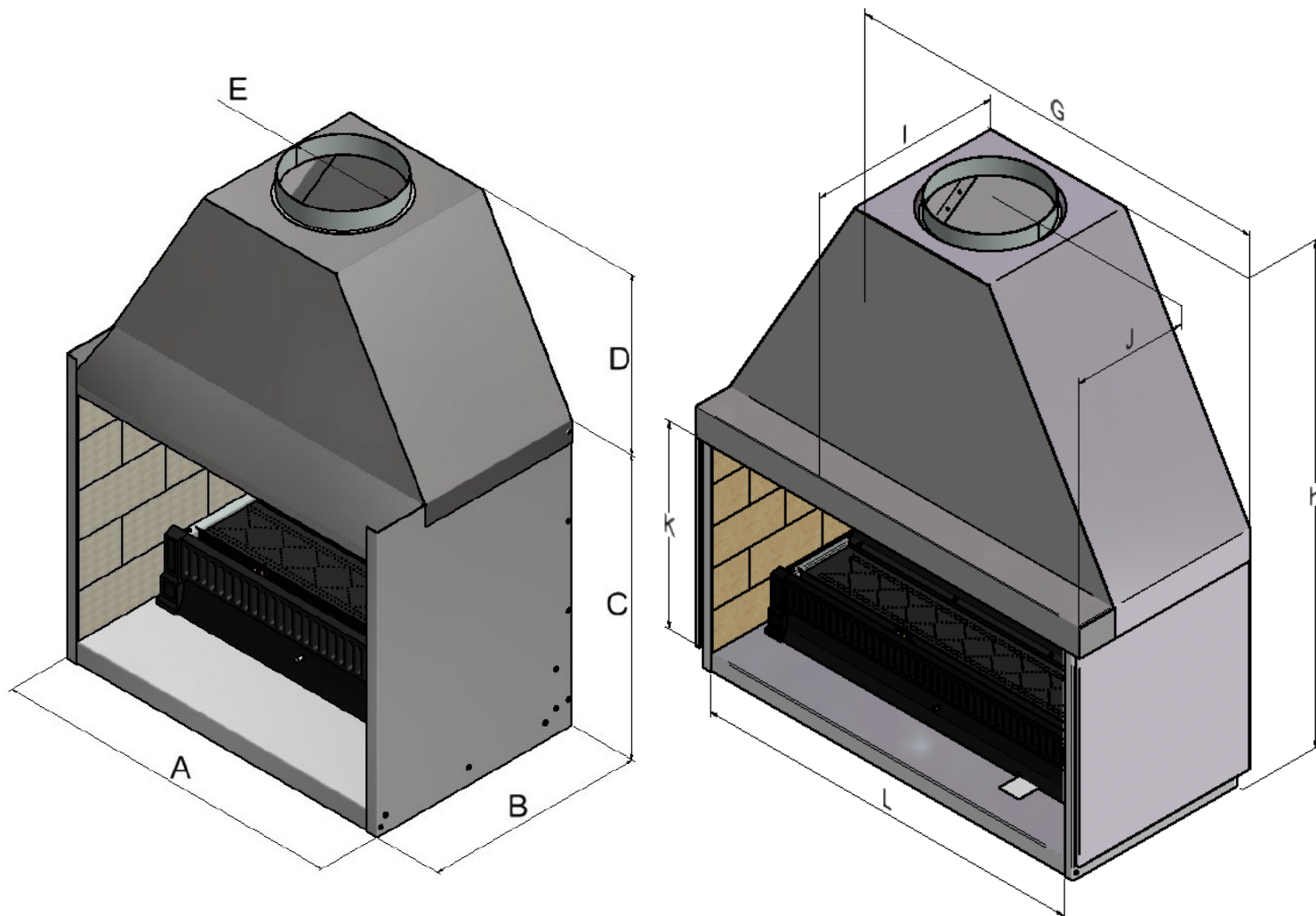
Firebox		BFG 780	BFG 900	BFG 1100	BFG 1250	BFG 1500
Firebox Width	A	824	939	1169	1399	1514
Firebox Depth	B	517	517	517	517	517
Firebox Height	C	700	700	700	700	700
Adaptor Height	D	414	470	670	825	925
Flue	E	250	300	300	350	350
Flue Liner	F	300	350	350	400	400
Insulation Kit Width	G	872	987	1215	1447	1562
Insulation Kit Height	H	1135	1191	1391	1546	1646
Insulation Kit Depth	I	538	538	538	538	538
Centre of Flue	J	322	322	322	322	322
Opening Height	K	568	568	568	568	568
Opening Width	L	771	886	1116	1346	1461

## FIREBOX HEAT CELL CABINET

Minimum Flue Height	
Flue Height	3600
Measured From Top of Firebox	H + 3600

### Note:

DO NOT FRAME OUT TO THESE DIMENSIONS CHECK HEAT CELL ALCOVE ON PAGE 5 & 6.



## IMPORTANT NOTES:

### GAS SPECIFICATIONS

Tested to current gas standards

NOTE : All Test Pressures are tested by a Independent Test Lab

\* Inlet Pressure not to exceed 4.0KPa

MODLE	BFG 780	BFG 900	BFG 1100	BFG 1250	BFG 1500
<b>LPG</b>					
Nominal Pressure kPa	2.75 kPa	2.75 kPa	2.75 kPa	2.75 kPa	2.75 kPa
Nominal Injector Size mm	2 X 1.2mm	2 X 1.3mm	2 X 1.4mm	4 X 1.1mm	4 X 1.2mm
Burner Pressure High kPa	2.5	2.5	2.5	2.5 kPa	2.5 kPa
Burner Pressure Low kPa	0.75	0.75	0.75	0.75 kPa	0.75 kPa
MJ/h	38	42	50	60	70
Flame Effect Output Only	Effect	Effect	Effect	Effect	Effect
Supply Pipe Size dia—min	3/8"	1/2"	1/2"	1/2"	1/2"
<b>Natural Gas</b>					
Nominal Pressure kPa	1.5 kPa	1.5 kPa	1.5 kPa	1.5 kPa	1.5 kPa
Nominal Injector Size mm	2 X 2mm	2 X 2.2mm	2 X 2.4mm	4 X 1.8mm	4 X 2.0mm
Burner Pressure High kPa	1	1	1	0.85 Kpa	0.5 kPa
Burner Pressure Low kPa	0.3	0.3	0.3	0.2 kPa	0.15 kPa
MJ/h	41	48	60	63	62
Flame Effect Output Only	Effect	Effect	Effect	Effect	Effect
Supply Pipe Size dia—min	1/2"	1/2"	1/2"	1/2"	1/2"
Lab. Test No	GL 900	GL 834	GL 876	GL 973	GL 973
Lab. Test Dates	26/02/10	26/06/09	24/12/09	30/04/2011	30/04/2011
ESS Declaration No:	1149520106	1149720106	1149820106		

### HEARTH & PLINTH CONSTRUCTION DETAILS

#### Note: Hearth and Plinth Construction

Plinth to be offset above hearth by the hearth finishing (e.g. tiles/granite/solid plaster etc.)

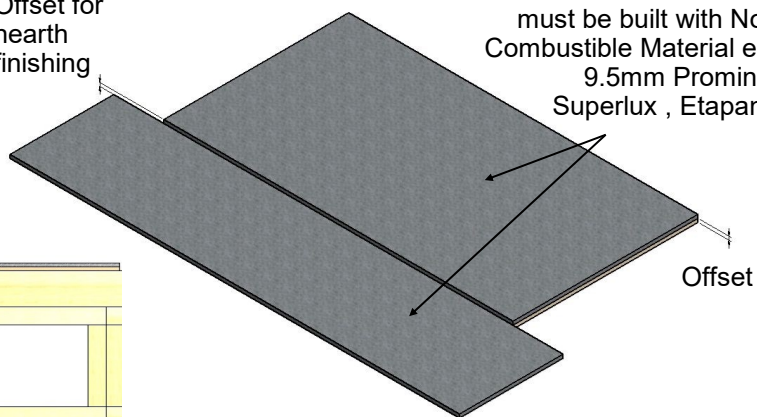
Raised hearth & plinth with cantilever hearth must be adequately supported to take the weight in accordance with the NZ Building Codes.

Offset for  
hearth  
finishing

\* Hearth & Plinth Material must be built with Non Combustible Material eg. 9.5mm Promina, Superlux , Etapan .

Offset

This is a Raised & cantilevered  
Hearth. See Spec for detail.



\*Note: If Solid Plastering the Heat Cell Structure, it is recommended to use a Fibreglass Mesh with a Latex Based Plaster to minimise the chance of the Solid Plaster cracking. (See your Solid Plasterer for correct materials and applications).

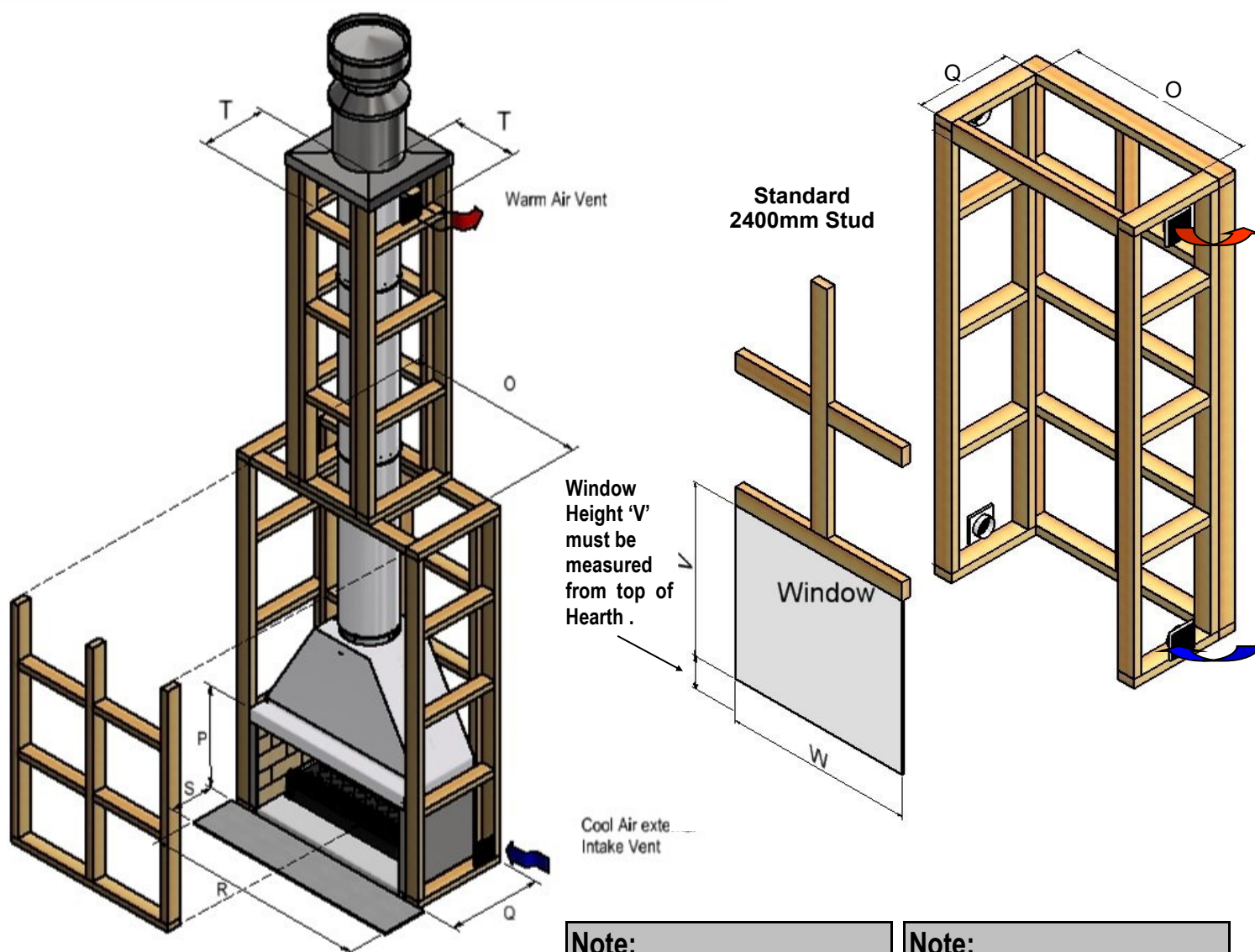
Visit the Warmington Web Site for “Hebel” instruction (PDF Download) [www.warmington.co.nz](http://www.warmington.co.nz)

## TIMBER FRAMING & TRIM OUT DETAILS

Firebox		BFG 780	BFG 900	BFG 1100	BFG 1250	BFG 1500
Heat Cell Clearance Width	O	875	990	1217	1450	1565
Firebox Overall Height	P	700	700	700	700	700
Heat Cell Clearance Depth	Q	547	547	547	547	547
Hearth Width	R	1180	1300	1500	1750	1900
Hearth Projection	S	300	300	300	300	300
Chimney Chase Clearance	T	400	450	450	500	500
Window Height	V	725	725	725	725	725
Window Width	W	875	990	1217	1450	1565

### MINIMUM HEAT CELL ALCOVE CLEARANCES & FRAME OUT

### COMMON ALCOVE FRAMED OUT TO 2.4 m HEIGHT



#### Note:

Front framing to be constructed after firebox is installed.

#### Note:

Centre Line of Flue is 'NOT' in Centre of Alcove.

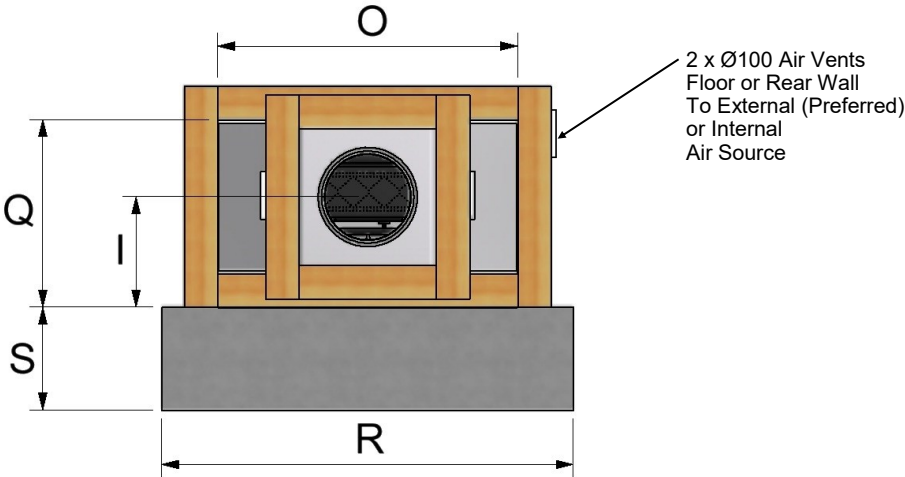
#### Note:

All Framing Dimensions are Internal Only

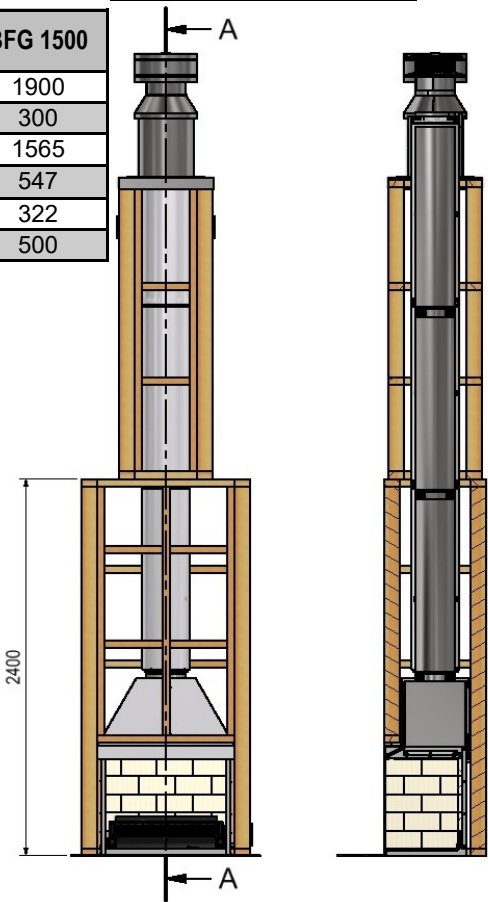


**TIMBER : PLAN, FRONT ELEVATION & CROSS SECTION**

Firebox		BFG 780	BFG 900	BFG 1100	BFG 1250	BFG 1500
Hearth Width	R	1180	1300	1500	1750	1900
Hearth Projection	S	300	300	300	300	300
Alcove Width	O	875	990	1217	1450	1565
Alcove Depth	Q	547	547	547	547	547
Centre of Flue	I	322	322	322	322	322
Chimney Chase Clearance	T	400	450	450	500	500

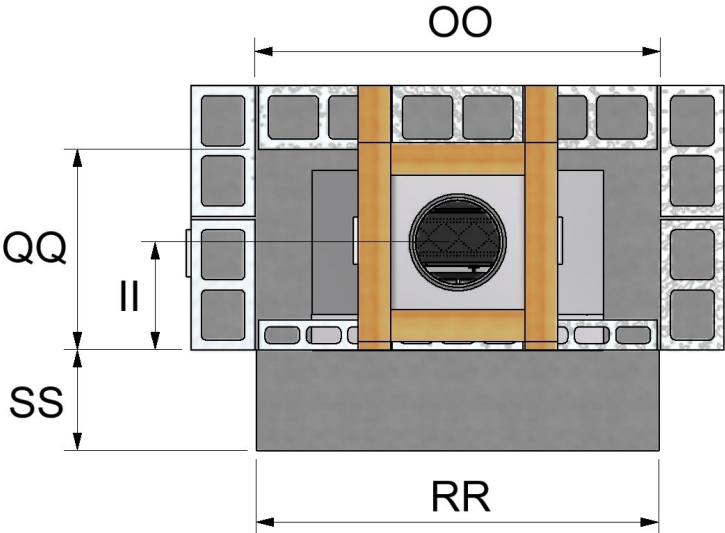


**Note:**  
Centre Line of Flue is 'NOT'  
in Centre of Alcove

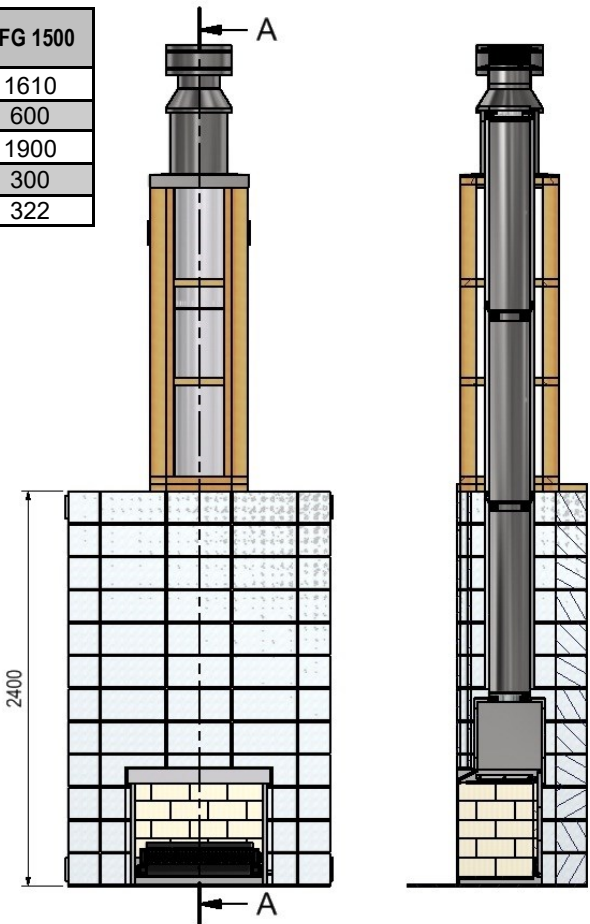


**BLOCK: PLAN, FRONT ELEVATION & CROSS SECTION**

Firebox		BFG 780	BFG 900	BFG 1100	BFG 1250	BFG 1500
Plinth Width	OO	1210	1210	1610	1610	1610
Plinth Depth	QQ	600	600	600	600	600
Hearth Width	RR	1180	1300	1500	1750	1900
Hearth Projection	SS	300	300	300	300	300
Centre of Flue	II	322	322	322	322	322



**Note:**  
Centre Line of Flue is  
'NOT' in Centre of Alcove



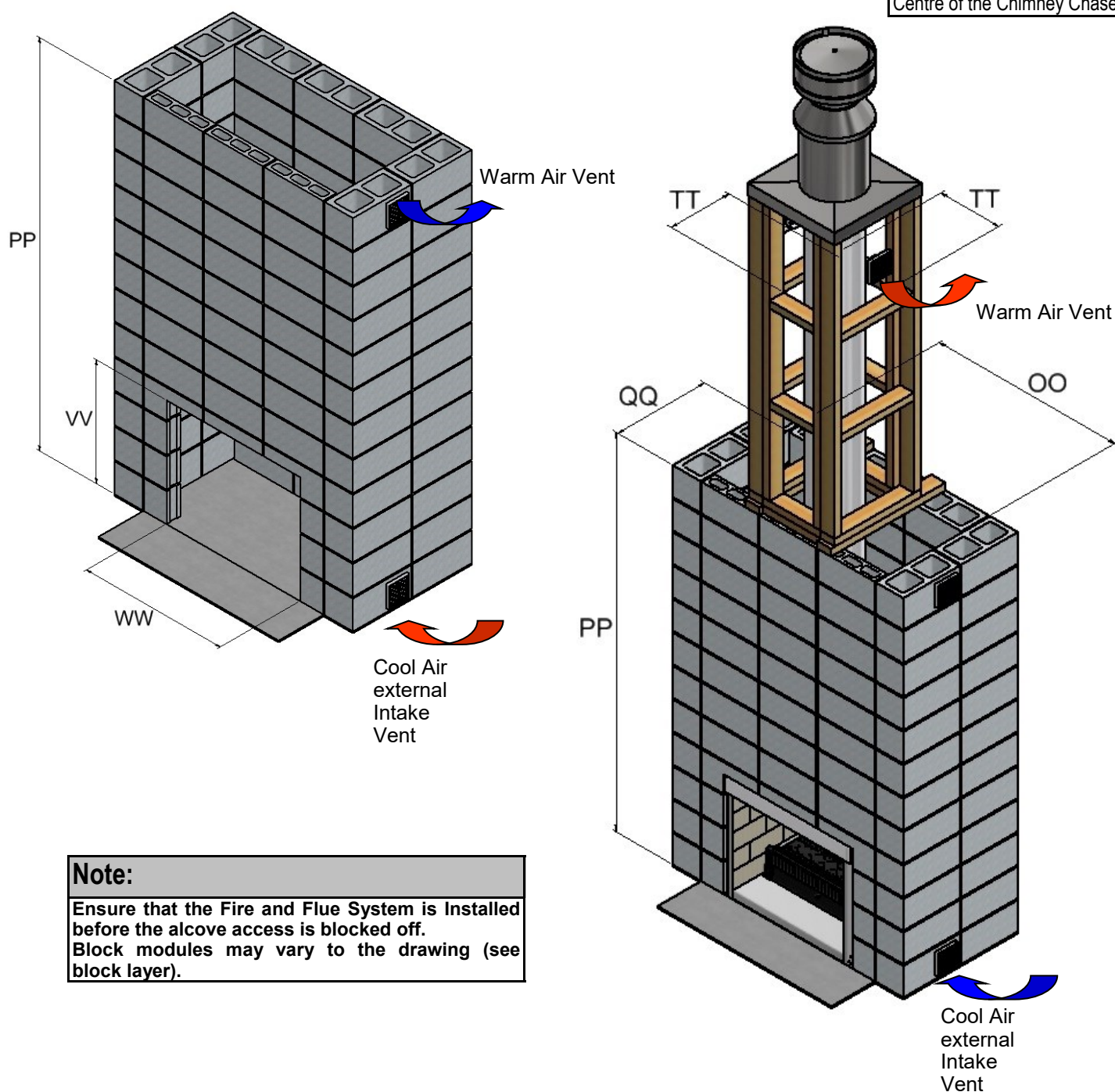
## BLOCK ALCOVE & TRIM OUT DETAILS

Firebox		BFG 780	BFG 900	BFG 1100	BFG 1250	BFG 1500
Heat cell Clearance Width	<b>OO</b>	1210	1210	1610	1610	1610
Alcove Clearance Height	<b>PP</b>	2400	2400	2400	2400	2400
Alcove Clearance Depth	<b>QQ</b>	600	600	600	600	600
Window Height	<b>VV</b>	717	717	717	717	717
Window Width	<b>WW</b>	892	1007	1235	1467	1582
Chimney Chase Clearance	<b>TT</b>	400	450	450	500	500

## MINIMUM HEAT CELL BLOCK ALCOVE CLEARANCES

### Note:

Centre Line of Flue is 'NOT' in Centre of the Chimney Chase



### Note:

Ensure that the Fire and Flue System is Installed before the alcove access is blocked off. Block modules may vary to the drawing (see block layer).

## FLUE DETAILS DIMENSIONS

Flue details	No:	BFG 780	BFG 900	BFG 1100	BFG 1250	BFG 1500
Gas Cowl	1	250	300	300	350	350
Flue Diameter	3	250	300	300	350	350
Liner Diameter	3	300	350	350	400	400
Spacer	3	250/300	300/350	300/350	350/400	350/400
Bottom Spacer	1	250/300	300/350	300/350	350/400	350/400

Minimum Flue Height	
Flue Height	3600
Measured From Top of Adaptor	B + 3600

### NOTE:

Ensure that a Standard Tested Warmington Flue System is used on Warmington Fires.

## FLUE SYSTEM INSTALLATION GUIDE

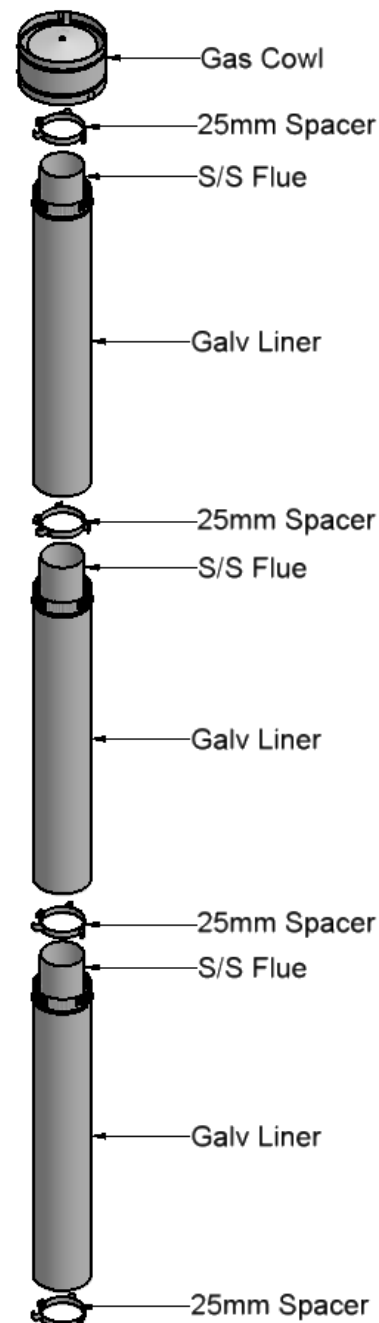
This is a general installation guide only – Contact a “NZHHA Installer” or Gas Fitter for Installation Advice.

1. Install the first length of flue pipe with the crimped end down, inside the Adaptor collar, ensure that the flue pipe is sealed into the collar with exhaust sealant. Rivet the flue in 3 places around the Adaptor collar. Place a bottom spacer around the flue pipe approximately 150mm above the adaptor collar. Secure in position by tightening the screw and nut.
2. Install the second length of flue pipe with the crimped end down and fit by riveting in at least 3 places around the flue pipe joint. Ensure that the flue is sealed into position with sealant.
3. Install the first section of flue pipe liner with the Crimped end up, over the flue pipe and over the spacer that is fixed to the flue pipe. This spacer will keep the liner concentric about the flue pipe.
4. Position flue spacer at the flue pipe joint for every length of “Flue pipe” and “Liner”. Repeat the Steps from 1 – 4 to the installed required height of the flue system. The flue system is to comply with the current standards.

- a “the flue pipe shall extend not less than 4.6m above the top of the floor protector.”
- b “the minimum height of the flue system within 3 m distance from the highest point of the roof shall be 600mm above that point.”
- c “the minimum height of the flue system further than 3 m from the highest point of the roof shall be 1000mm above the roof penetration.”
- d “no part of any building lies in or above a circular area described by a horizontal radius of 3 m about the flue system exit.”

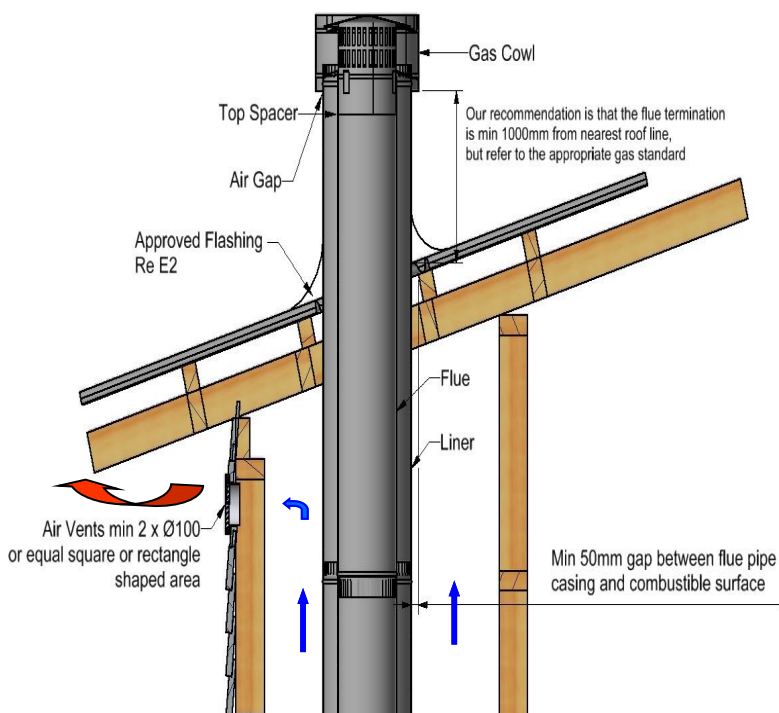
## IF FLASHING CONE NEEDED

1. **NOTE:** The last length of flue pipe needs to extend past the liner so that when the “top spider” and the “Flashing cone” are fitted, that the “flashing cone” and the “flue pipe” are **flush**, or that the “flue pipe” is **5mm lower** than the “Flashing cone”.
2. Fit the “Top Spider” into position, ensure that the legs of the spider are fitted inside the liner and that the spider is positioned hard down onto the liner and tighten with the screw and nut.
3. Place the “Flashing cone” over the “flue pipe” and press hard down onto the “Top Spider”. (Note that the “Flue pipe” and the “Flashing Cone” are either flush or the “Flue pipe” is 5mm Lower than the “Flashing cone”.) Ensure that the “Flashing cone” is clear for the venting from the “Liner” and the “flue pipe”.
4. Fit the “Cowl” to the top of the flue pipe. The “Cowl”, “Flashing cone”, and the “Flue pipe” can be secured to each other with the uses of a stainless steel self tapping screw. This will allow the “Cowl” to be removed for cleaning.
5. Flue system may require Bird Proofing due to the installation and locations, discuss this with your installer for the best advice.
6. If the Flue system is installed into a “Chimney Chase”, allow for air vent as close to the top of the chase as practical, or allow venting through the “Chimney Chase Flashing”. A “Venting Flashing cone” and a 25mm gap around the Liner with a “Venting Flashing Cone-Spider” can be used. Ref : to Figures .....in this specification.

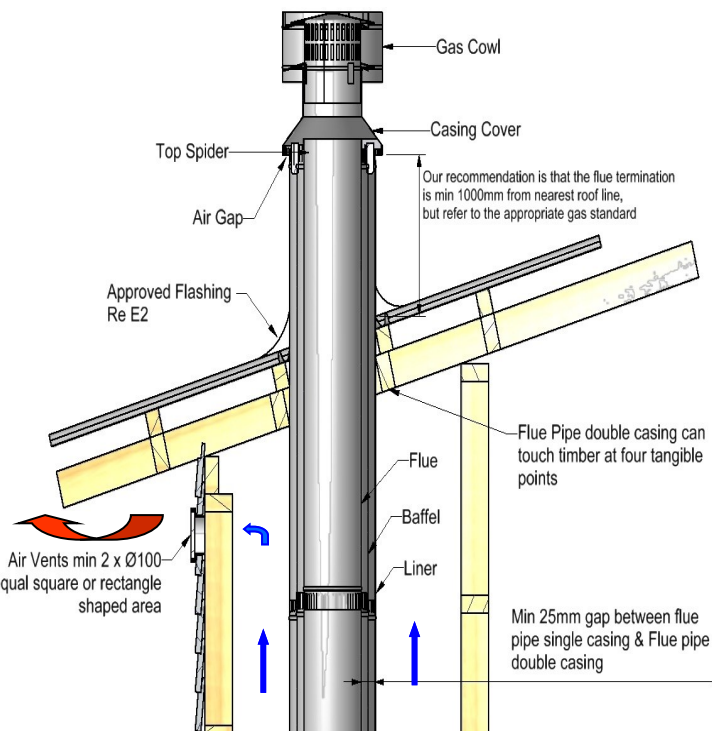




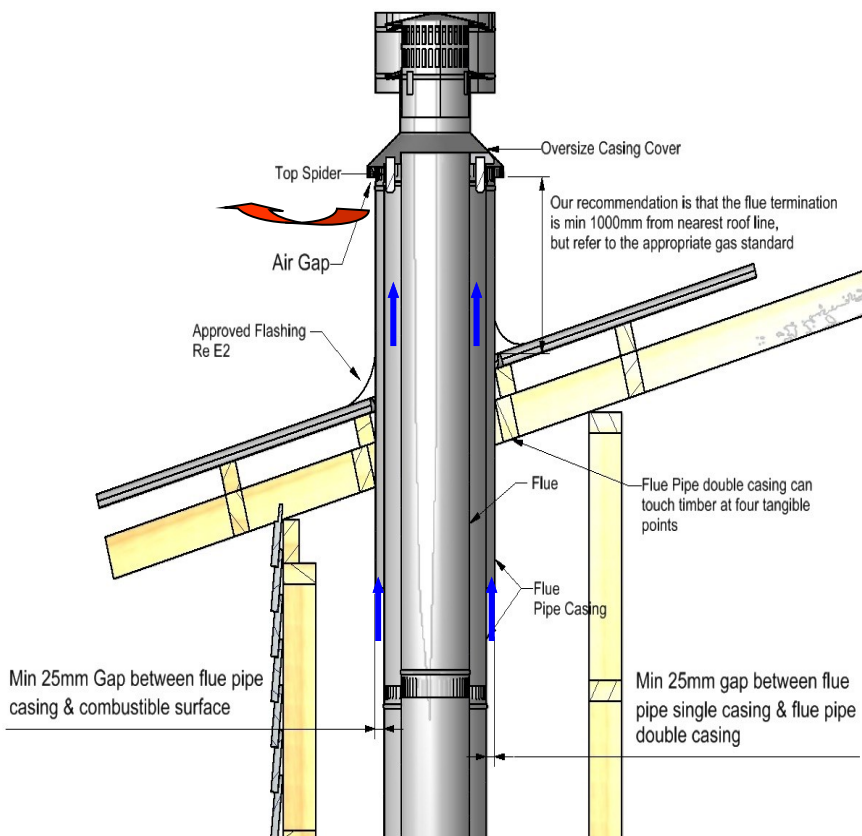
## FLUE PENETRATION vented through alcove (single-lined flue system)



## FLUE PENETRATION vented through alcove (double-lined flue system)



## FLUE PENETRATION Vented through Top Flashing



### Note:

External requirements  
Refer to relevant standards.

Install flue system to relevant standards.

When using a rubber or bitumen flashing (butynol, bectite) an additional flue pipe baffle is required.

All external air vents & ceiling penetrations must be bird proofed with permanently fixed screens.

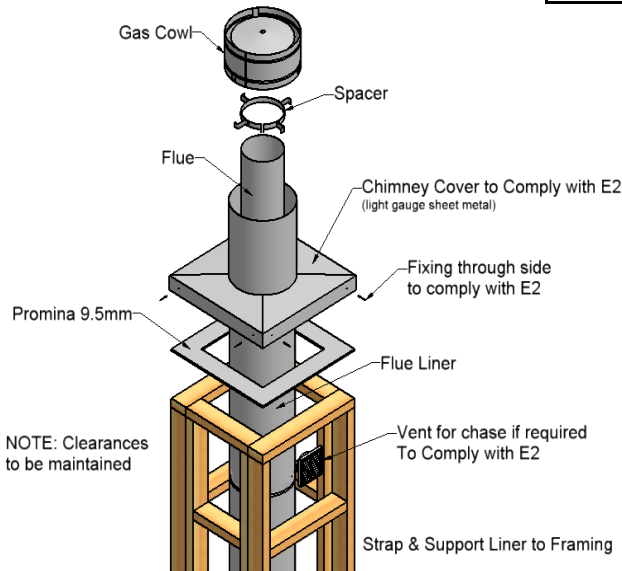
All flashing to comply with E2.

All external air vents and ceiling penetrations are to be vermin and rodent proof.

Test Report Number	Date of Report
04/1039	20 <sup>th</sup> July 2004
04/1040	20 <sup>th</sup> July 2004
04/1041	20 <sup>th</sup> July 2004

## CHIMNEY CHASE FLASHING DETAILS FOR SETTING ADD GAS COWL HEIGHT

### General Chimney Chase Flashing Lay Out

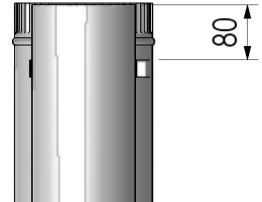


### Note:

Flashing spigot height is determined by the insulation that is fitted under the flashing, see details at bottom of page.

### STEP 1

Flues are to be set flush to the same height, Spacer set at approx 80mm low.

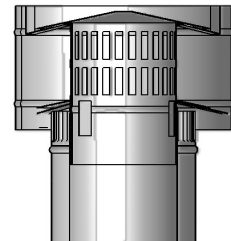


### SETTING COWL TO FLUE

ADD Gas Cowl is to be set as shown and is in accordance with Foley's Industries LTD.

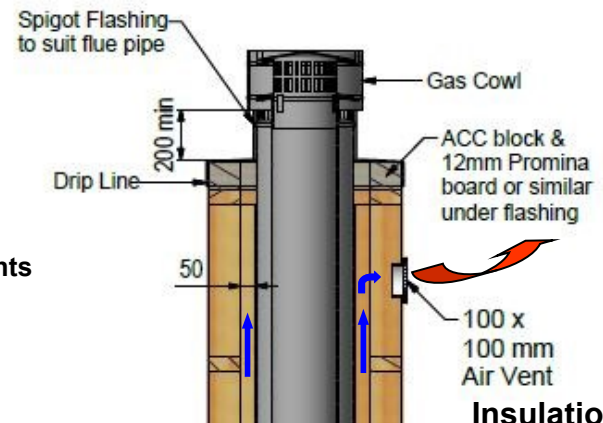
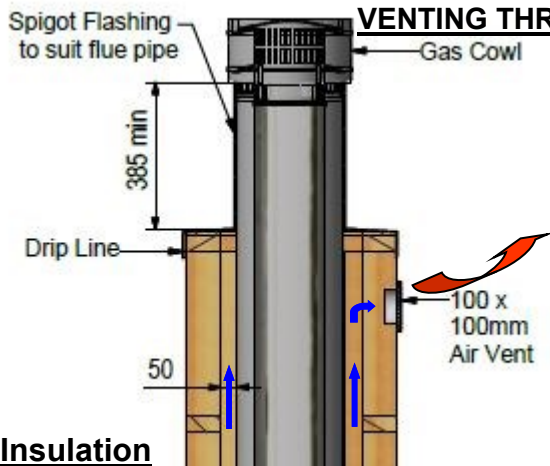
### STEP 2

ADD Gas Cowl slides inside the flue, sitting on the swage, leaving a 10mm Air gap from cowl to liner, screw to secure



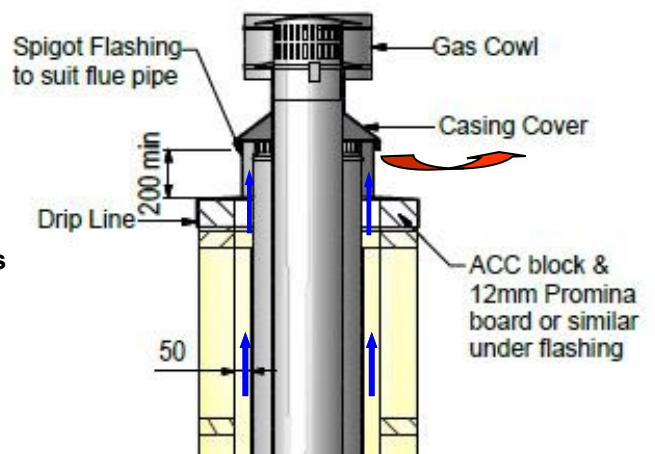
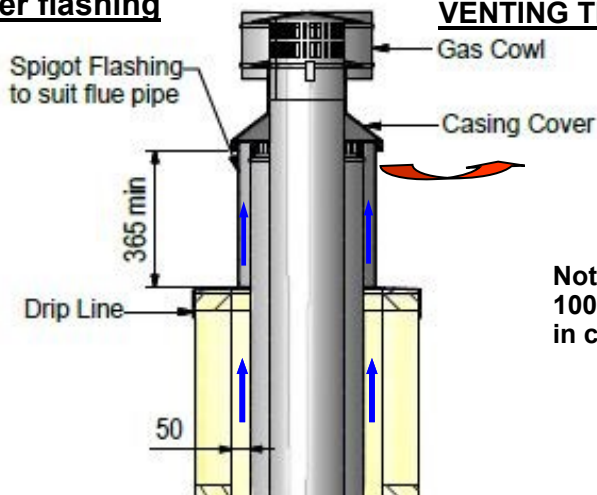
## CHIMNEY CHASE FLASHING AND AIR VENTILATION OPTIONS:

### VENTING THROUGH CHIMNEY CHASE



### No Insulation under flashing

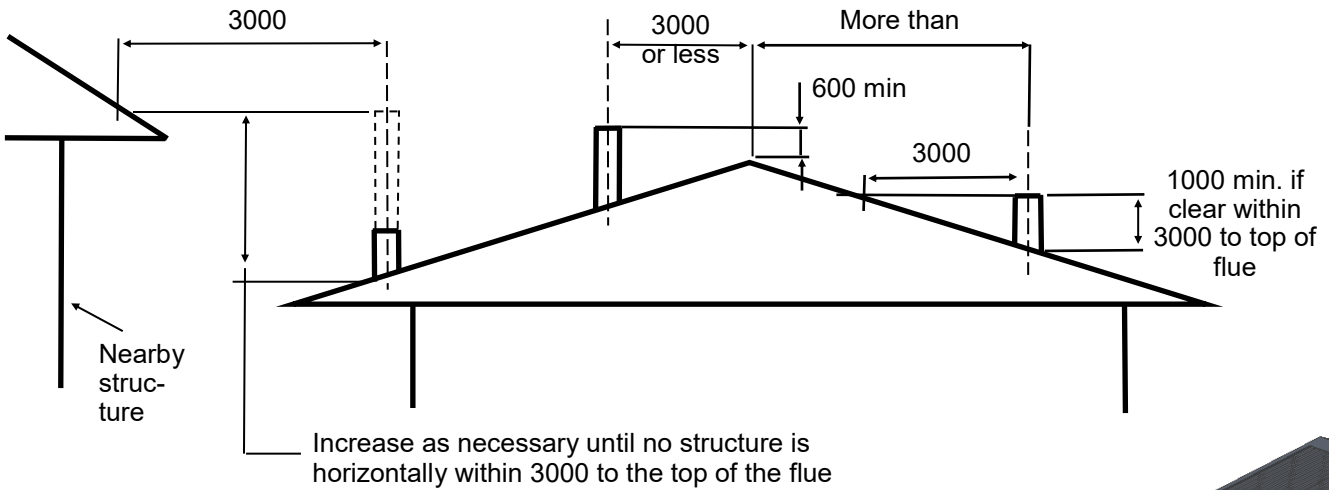
### VENTING THROUGH FLASHING



### Insulation under flashing

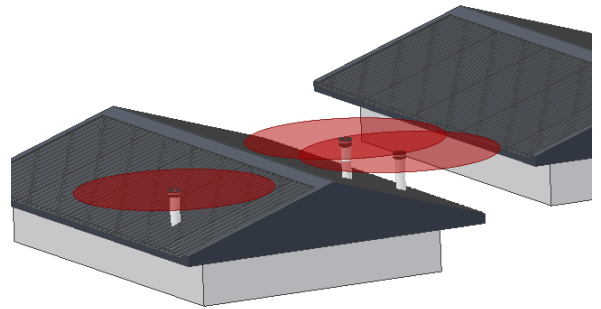
## FLUE HEIGHT MINIMUM DETAILS

- The minimum height of the flue system within 3m distance from the highest point of the roof shall be minimum 600mm above that point
- The minimum height of the flue system further than 3m from the highest point of the roof shall be 1000mm or more above the roof penetration
- The flue exit must be clear of any surrounding buildings by a horizontal radius of at least 3m



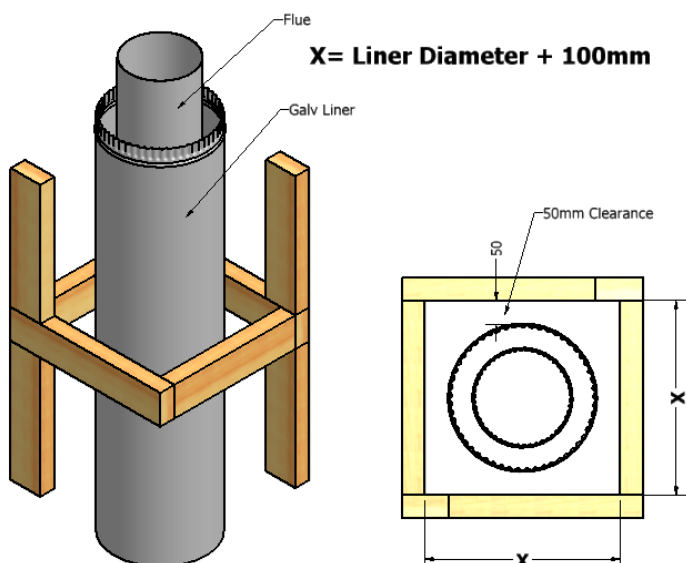
The flue exit is to comply to AS/NZS 2918:2001.

## 3D View

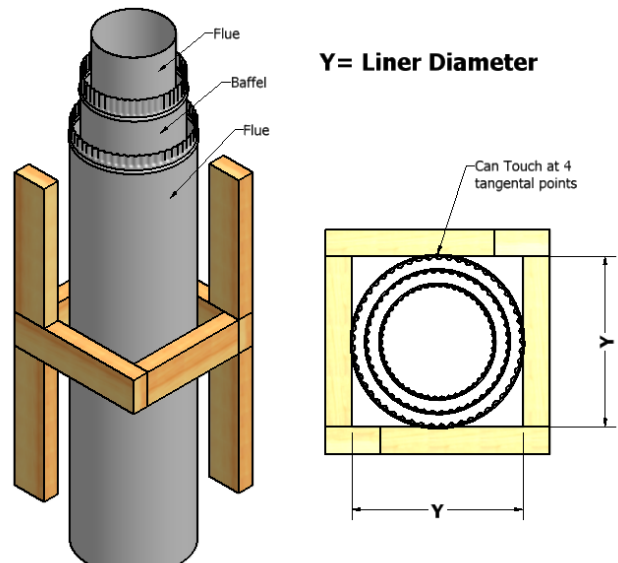


## FRAME OUT AND TRIM OUT DETAILS FOR CHIMNEY CHASE

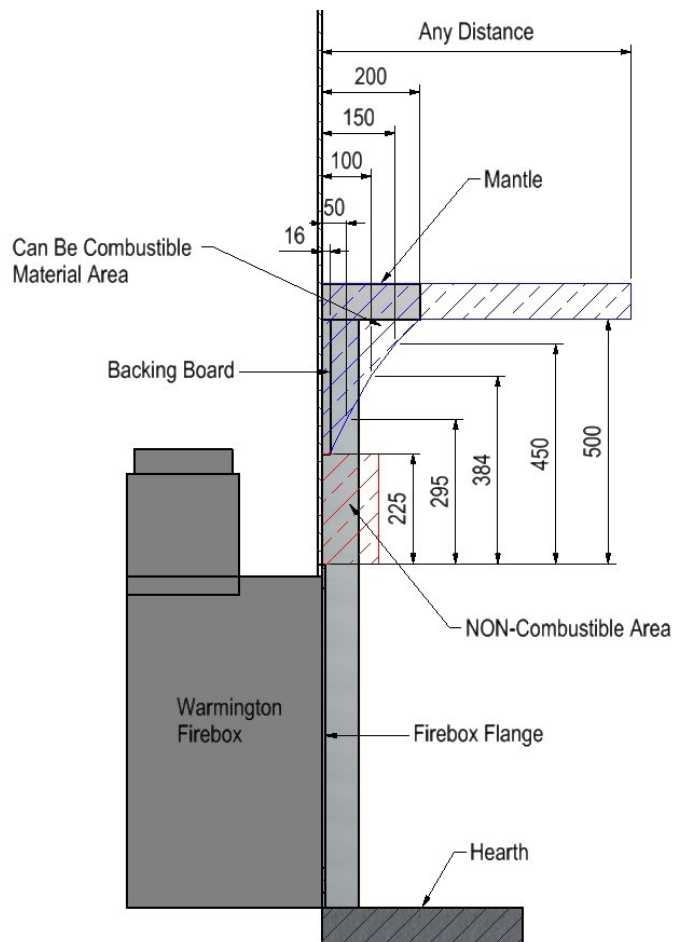
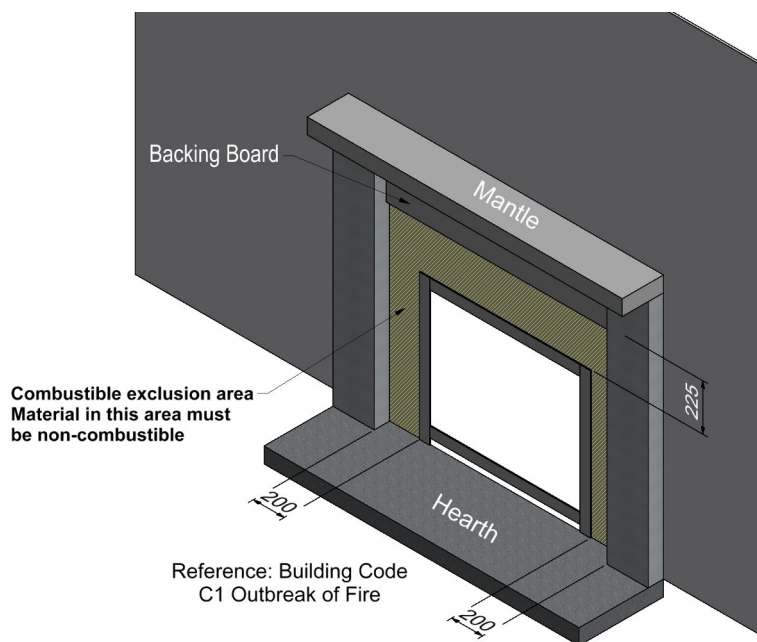
Option X – Single Lined Flue System



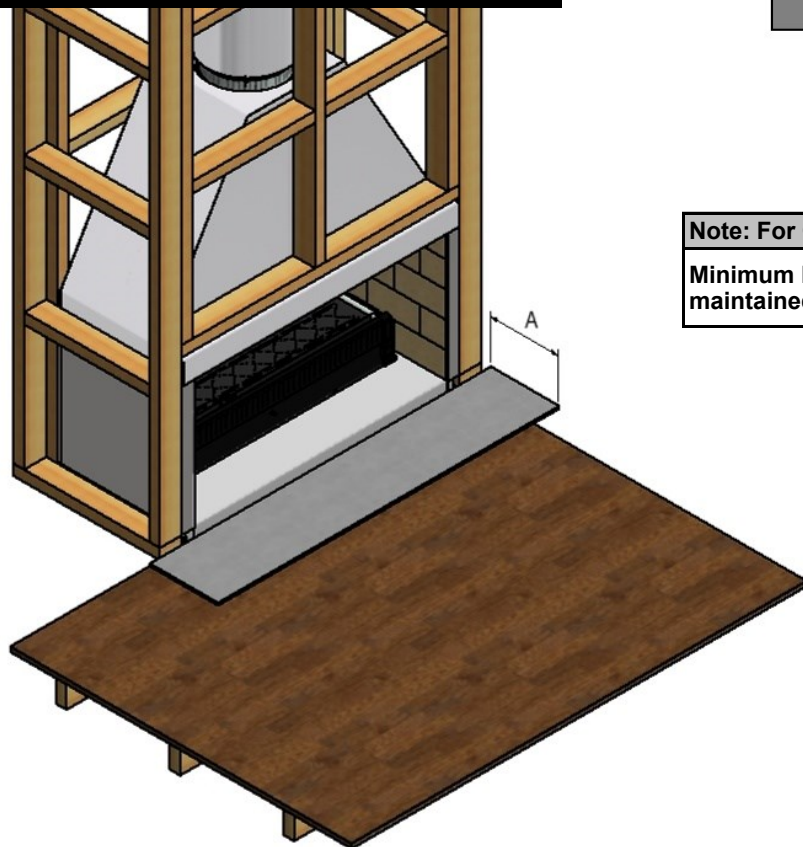
Option Y – Double Lined Flue System



## COMBUSTIBLE MANTLE CLEARANCES



## RAISED HEARTH CLEARANCES



### Note: For Combustible Floors

Minimum Hearth of 300mm (A) must be maintained at any given height.



## TO THE INSTALLER / GAS FITTER and ELECTRICIAN

### NOTES:

- Service annually or more if required.
- Custom built to clients requirements to relevant and current standards.
- The appliance and flue system must be installed in accordance with the relevant and current standards and the appropriate building codes.
- The appliance and flue system must be tested in accordance with the relevant and current standards and the appropriate building codes.

**FLUED GAS APPLIANCES:** All Gas Fires requiring Warmington Flue Systems shall be Installed to the requirements of the current standards and shall be appropriately designed and constructed to permit safe and effective use. This Appliance must be flued to the outside atmosphere. All Warmington Fires must be Installed with a **minimum of 3.6m** of Approved **Warmington Gas Flue and Liners** .

**GAS TYPE:** All Gas Fires shall operate safely on the Gas Type specified on the Appliance and shall comply with the requirements of The Gas Act 1992.

**APPLIANCE SAFETY:** Any Gas Fire Appliance shall comply with the safety requirements of the current standards or any one of the Standards listed or referred to in "related documents" of this Standard .

**ELECTRICAL REQUIREMENTS:** All Gas Fire Appliances Installed with Mains Supplied Electrical components for associated use with these Appliances, must comply with The Electricity Regulations 1993.

**ELECTRONIC CONTROL SYSTEMS:** Any Gas Fire Appliance Installed with Manual or Programmable Electronic Control System shall be tested and/or approved by a Recognised Person or Authority.

**SEISMIC RESTRAINTS:** All Fires used for Domestic and Commercial Purposes shall be firmly secured (unless defined as portable or mobile) to prevent dislodgement from their point of fixture or Installation during Seismic Activity. Such Restraint must be of a reasonable expectation.

**GAS CONNECTION :** A Gas Certificate must be obtained for the Installation and Commissioning of this Appliance and Flue System .

Check that the Gas Type Specified on the Data Plate is correct for the available supply (LPG or NG).

A Copper Gas supply capable of supplying the correct MJ/h, should be brought into the rear of the Installation Cavity through the hole provided . A Flare Nut is provided on the Burner for Gas Connection to the Appliance.

## COMMISSIONING AND TESTING OF FIREPLACE

(To be carried out by Gasfitter)

**Read all the instructions before commissioning. Install coals and logs and burner before commission.**

Light appliance and check HIGH/LOW settings. Check operation of appliance and adjust to suit.

Adjust control valve setting if required. After a period of running (30min Plus) check the setting of the pilot and adjust if required. See Spec's for details.

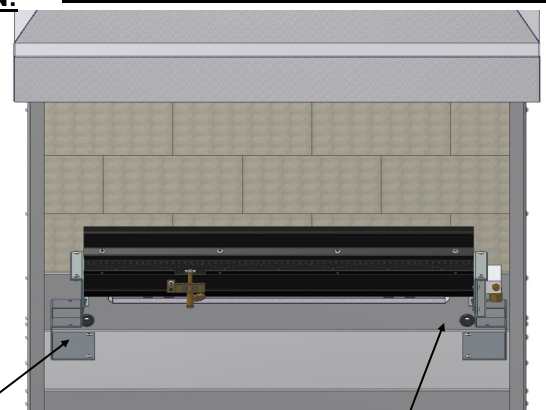
Extinguish appliance, remove test equipment and secure test nipple. Check for Gas Leaks.

Note\* The Control Valves are factory set and should not require adjustment.

### GAS FITTER TO CARRY OUT STANDARD TESTING FOR COMMISSION:

- Spill test taken at top of opening with smoke or smoke match.
- Leak testing appliance and joints.
- Correct operation of the burner and coal and log lay out.
- Test gas pressures high and low. drop test on supply line.
- 5 second light time across burner, Other testing that may be required.
- Ventilation requirements to the standards.
- Clean and or touch up paint of fire box and burner
- Hand over to Client, tests and comply to relevant standards

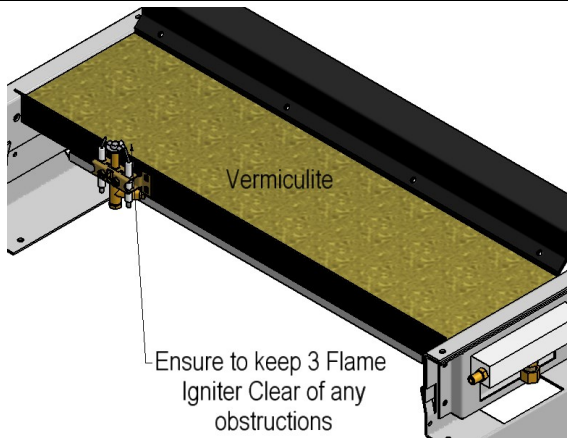
### FITMENT OF BURNER



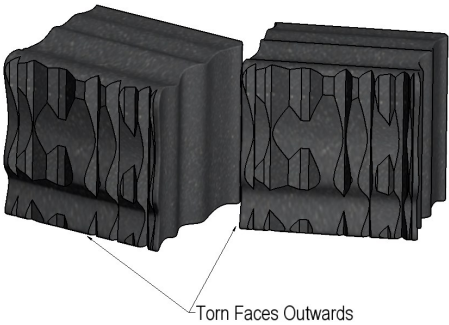
Burner may be Secured To the Firebox (Optional)

Gas Supply Pipe Into Fire, by Gasfitter . See Spec's for Pipe Size.

## VERMICULITE (COARSE) (To be set by Gasfitter)



General Coal orientation for optimum effect.



### APPLYING THE VERMICULITE: (Coarse - must be larger than the burner plates holes so not to block them).

Apply with care a thin layer of Vermiculite over the Burner, just enough to cover the Burner Tray only .

NOTE: If the burner flame is uneven, the Vermiculite may need to be changed or sifted to remove the smaller pieces that can block the burners holes. The smaller pieces can ,cause uneven burn and the unit to run dirty.

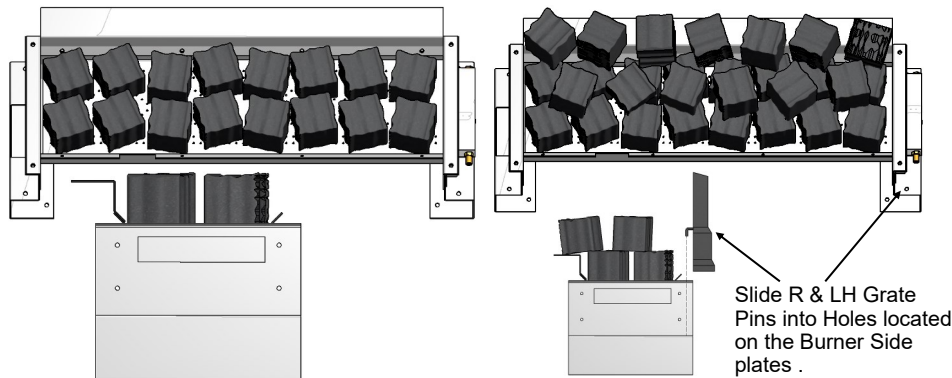
## COALS AND LOGS (To be set by Gasfitter)

Gloves should be worn when handling Ceramic Fibre Coals & Logs: care needs to be taken when handling Coals & Logs , Due to the Carbon on the Coals can stain the surroundings.

### HELPFUL HINTS : When Hot use Metal Tongs.

Apply a thin layer of Vermiculite over the Burner , just enough to cover the Burner Tray only as shown above.

**1: Bottom Row:** Assemble 2 Bottom Rows of Coals onto the Vermiculite Base. **2: Top Row:** Assemble 2 Top Rows of Coals onto the Bottom Row.



### 1: Bottom Row

### 2: Top Row

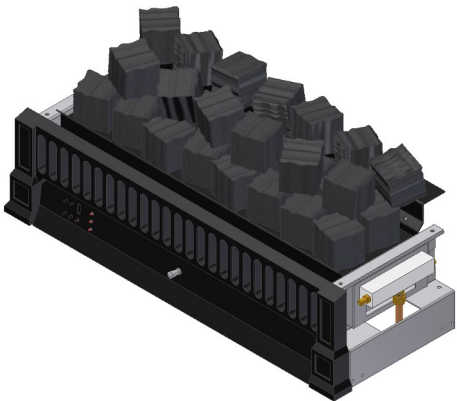
Each Coal randomly positioned with the Torn (roughest) Face Outward . **Ensure Coal positioning does not directly block the 3 Flame Pilot.**

Model SG780 Shown: Total number of coals will vary per model.

The placement of the Coals & Logs may vary to make an even Flame pattern.

Logs and Twigs may be scattered to achieve best Visual Effic .

Fit Burner Grate by sliding R & L Side Metal Pins on Grate, into Holes Located on Burner Side Plates, as shown below.



Model	Number of Coals per Row		Number of Rows		Total Coals
	Bottom	Top	Bottom	Top	Total
BFG 700	6	5	2	2	22
BFG 780	8	6	2	2	28
BFG 900	10	9	2	2	38
BFG 1100	11	10	2	2	42
BFG 1250	16	14	2	2	60
BFG 1500	19	16	2	2	70

## OPERATION OF YOUR WARMINGTON GAS CONVECTION FIRE (SG ONLY)

***Your Fire must be Installed and Tested by a suitably qualified Gasfitter prior to use.***

### **To light:**

Lower the control-cover by pulling it outwards.

Depress the Ignition Switch and hold in the '**PILOT**' position for 3-5 seconds. (This may take some time for the Gas to come through to the Pilot-3 Flame).

Strike the Igniter by turning to the '**STAR**' position, maintaining the Switch in a Depressed State; (repeat steps 2 & 3 if necessary)

Once the Pilot Flame is lit, hold this position for 3-5 seconds , release from the Depressed State before setting the Flame Control to Full, it may take 3-5 seconds for the Burner to light.

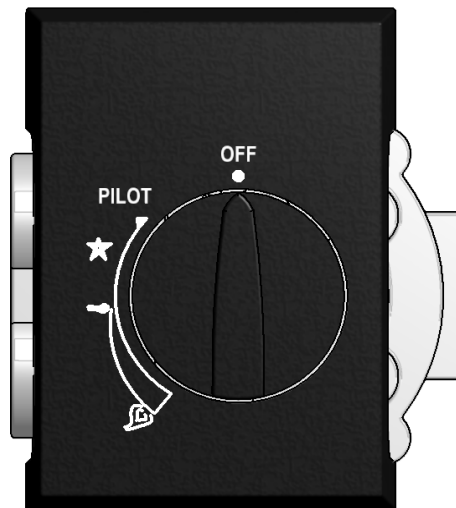
Once the Flame Bed is established, set the Flame Control to the desired level & close cover.

### **To shut down:**

Open control cover by pulling it outwards.

Turn control switch to '**PILOT**'. Flame bed will extinguish.

Pilot light may be left running or extinguished by switching to '**OFF**' before closing the cover.



## ADJUSTMENT OF HI-LOW PRESSURE

(SG ONLY)

(Only to be Adjusted by Gasfitter)

### Adjustment of High & Low Settings Must be Carried out by a Certified Gas Fitter Only.

Note\* Control Valves are Factory Set but may require adjustment onsite.

Turn Appliance Off & Remove Front Plastic Cover on Igniter , Pull Cover to Slide off.

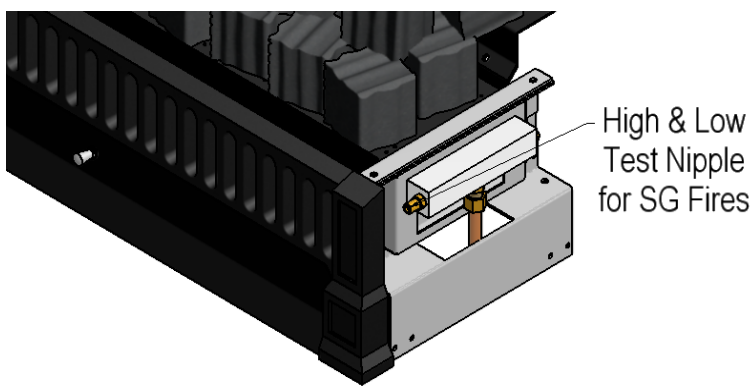
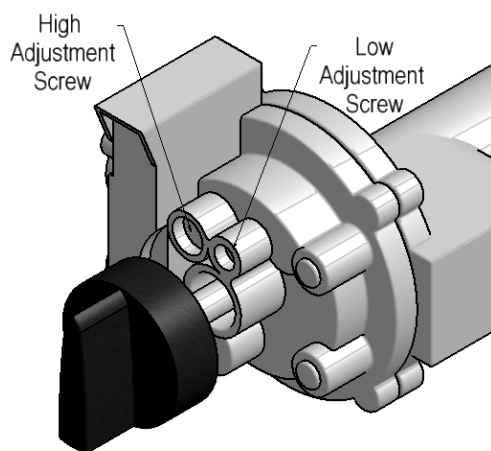
Unscrew Test Nipple on the Burner Manifold & fit the Test Gauge Securely - See Diagram.

\* To Set the High: Light the Burner & turn to High - Then Adjust the High Screw to the Desired Pressure. See Spec's.

\* To Set the Low: Light the Burner & turn to Low - Then Adjust the Low Screw to the Desired Pressure. See Spec's.

Extinguish Appliance, remove Test Equipment and Secure Test Nipple.

\* Check Valve & Burner for Correct Operation & check Fire for Gas Leaks.



Note : Location of the Test Nipple - may vary from Model to Model

## ADJUSTMENT OF THE PILOT - 3 FLAME

(BOTH SG & EG)

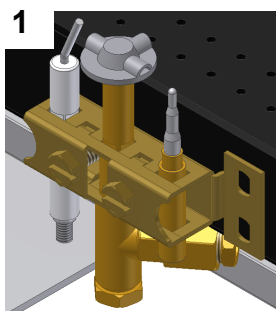
(Only to be Adjusted by Gasfitter)

**Note:** When the Base screw is removed, gas will leak from the out let, ensure that the pilot is not adjusted or the screw is removed when the fire is burning.

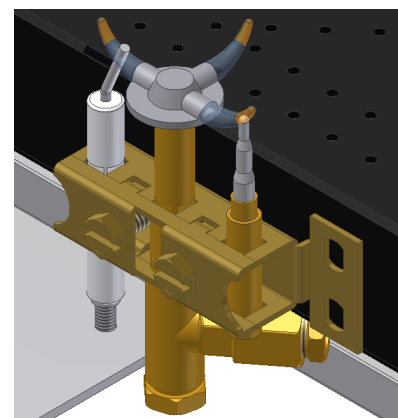
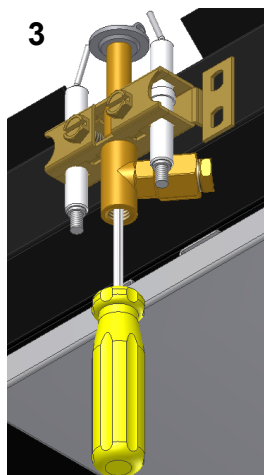
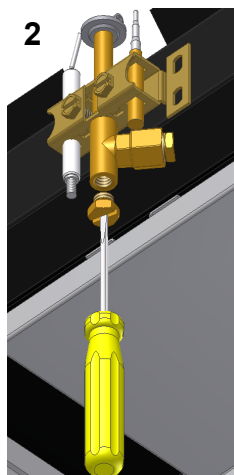
- Adjustment of Pilot - 3 Flame : Unscrew Base Screw as shown in Diagram 2 .
- Insert a Screw Driver as shown in Diagram 3 and adjust the Adjustment Screw up inside the 3 Flame Pilot to adjust the Flame Height.
- The Flame must always be passing over the Electrodes &/or File Tube on either side.
- Replace the Base screw and check for leaks.

### Note: to Gasfitters

The 3 flame pilot may need adjustment after a period of running time on set up as the increase in heat in the fire will induce a higher draft in the fire, and may pull in flame away from the File Tube causing the fire to shut down.



3 Flame Pilot in Assembled State



Correct Operation of 3 Flame Pilot



## POINTS OF SAFETY - To the Customer /Homeowner

Your Warmington Gas Decorative Fire operates on the principle of dual radiant and convected heat. Therefore it is important to observe the following precautions associated with any heating appliance or open fire.

- Do not cover or restrict the fireplace upper or lower vents in any way as this may result in a build-up of hazardous gases within the room.
- The fire is not intended for the drying of clothing, bedding etc.
- Avoid installing this appliance in high traffic areas, strong draughts or near drapes or furniture.
- The use of an approved fireguard is recommended for the protection of young children.
- Avoid using aerosols when the appliance is operating.
- Avoid anyone leaning against or lying directly in front of the fire while operating.
- Do not place anything objects into or against the gas fire at any stage.
- The fire may release a small amount of smoke on its first start up which may take 1or 2 hours to dissipate . This is part of the curing process so ensure there is adequate ventilation within the room.
- Always use a registered Gas Fitter or Electrician for installing and maintenance work
- Always use certified gas cylinders that have been tested and are safe to use.
- Never modify your gas appliance or its settings from those specified by the manufacturer.

**APPLIANCE SAFETY** Any gas fire appliance shall comply with the safety requirements of the current standards listed under "Related documents" in this specification.

**ELECTRONIC CONTROL SYSTEMS** Any gas fire appliance fitted with manual or programmable electronic control systems shall be tested and/or approved by a recognised person or authority.

**SEISMIC RESTRAINTS** All gas fires used for domestic and commercial purposes shall be firmly secured (unless defined as portable or mobile) to prevent dislodgement from their point of fixture or installation during seismic activity.

## WHAT DO YOU DO IF YOU SMELL GAS

Open windows and doors

Do not light any gas appliance

Do not use any electrical appliance or switches

Do not use the telephone in your home

Leave the building; shut off the domestic gas supply valve (beside your meter)

Call your gas supplier/gas fitter or the Fire Service for further advice.

**MAINTENANCE: All burner setting, Coals placement, Vermiculite is to be checked and set in accordance with this specification by the service person/Gasfitter**

*\*Lighting your gas fire using electronic or remote ignition systems may vary as per manufacturer instructions*

Warmington Industries recommend annual servicing of your gas fire by an approved Warmington dealer Gas Fitter.

External surfaces should be dusted with a damp, lint-free cloth when the fire is cold.

Warmington Industries provide 12 months warranty from the date of purchase, for domestic or commercial installations.

### **This Warranty Covers:**

Replacement Parts and Labour for Gas Control Components due to Manufacturing Defects Only.

Repair or Replacement of the Burner or Firebox Components due to Manufacturing Defects Only.

Warranty cover will be considered void if the product is subject to incorrect installation, failure to operate the appliance in accordance with the supplied instructions and specifications or is subject to damage or misuse beyond the expected conditions of normal use.

All installations and servicing must be carried out by and approved Warmington dealer or Gasfitter.

## EG ON/OFF ONLY ( SIT840 valve)

- Light appliance and check the pressure to the hi kPa value in the table for maximum output.

**NOTE: Any alterations to pressure is to be carried out by a Certified Gasfitter**

- If adjustments are necessary, remove the dust cap on the control valve. The pressure adjustment screw is on the front side of the gas control valve (shown in Diagram **B** in this specification) and is **factory** set.

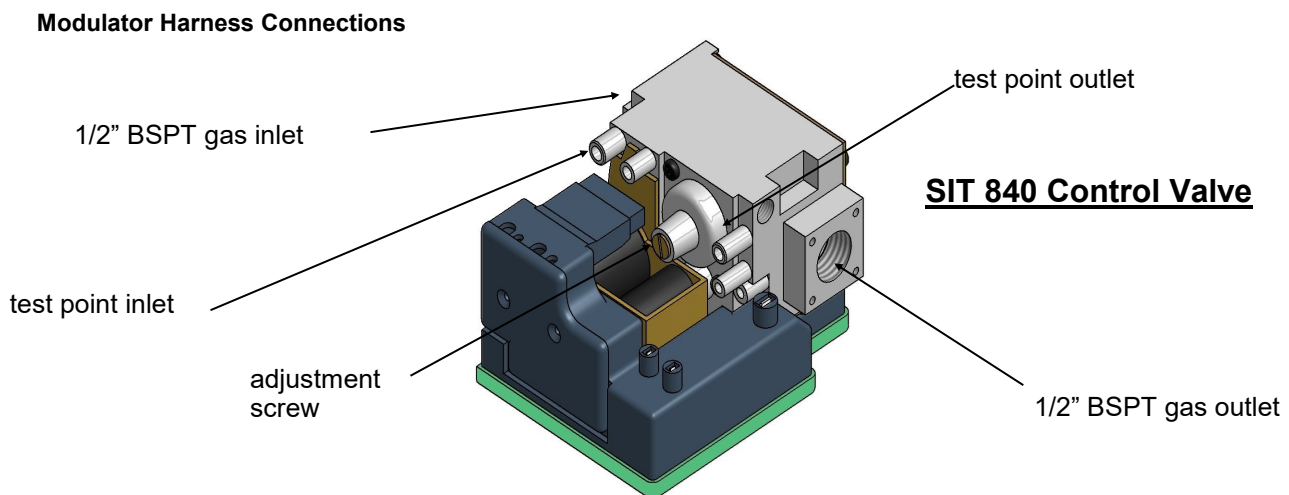
**WARNING:** Ensure that the dust cap is replaced after adjustment.

**Pressure Setting:** Turn the burner on with the switch and wait for full ignition. Using a standard screwdriver, screw the adjusting screw clockwise to increase the outlet pressure, or screw counter clockwise to decrease the pressure to the desired settings.

**Set the pressure to the hi kPa value in the table for maximum output.**

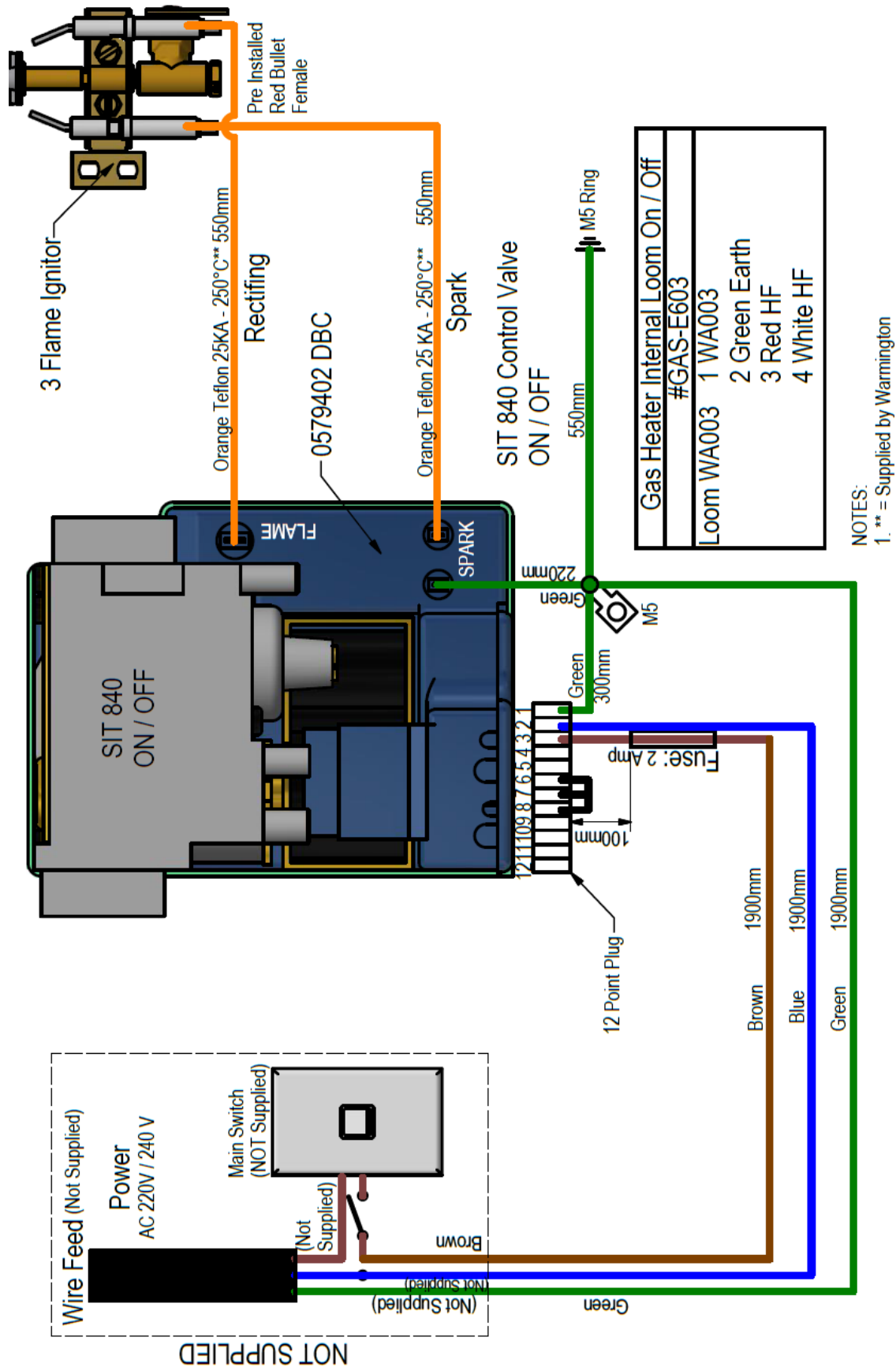
**The burner will operate any pressure between the hi and the low pressures.**

## DIAGRAM B (SHOWING CONTROL VALVE WITH TEST POINTS AND ADJUSTING SCREW)



- After checking the pressure, turn the unit off, remove manometer from the test point and tighten the test point screw. Ensure to check for gas leaks.
- Turn the appliance on and off a few times to check ignition.
- When satisfied that the appliance is working correctly, fit the front panel assembly back to the gas burner.
- **NOTE :** Ensure you peel the Protective Plastic Coating from any stainless steel components if fitted.
- All burner aerations are Factory Preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your Local Service Contact.
- It may take approximately 2 hours of operation for the coals/Llgs or river rocks to achieve their full flame pattern and glow.
- During the initial burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until these dissipate.

# ON/OFF SWITCH (SIT 840) - WIRING DIAGRAM



## EG HI/LOW (SIT 843 valve)

- Light appliance and check the pressure to the hi kPa value in the table for maximum output.

**NOTE : Any alterations to pressure is to be carried out by a Certified Gas Fitter.**

- If adjustments are necessary, remove the dust cap on the control valve. The pressure adjustment screw is on the front side of the gas control valve (shown in Diagram B in this specification) and is factory set.

**WARNING:** Ensure that the dust cap is replaced after adjustment.

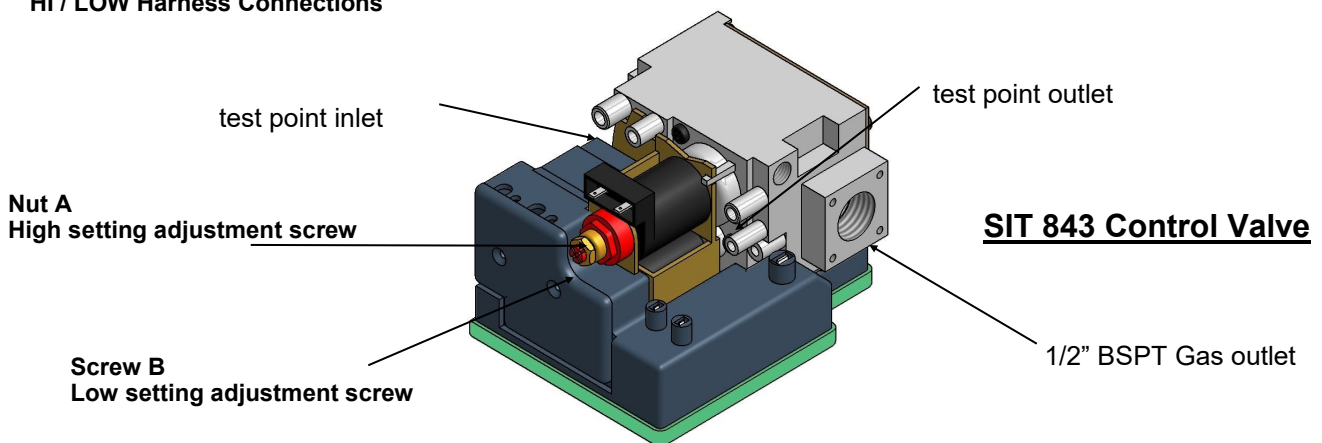
**Pressure Setting:** Turn the burner on with the switch and wait for full ignition. Using a standard screw driver, screw the adjusting screw clockwise to increase the outlet pressure, or screw counter clockwise to decrease the pressure to the desired settings.

**Set the pressure to the hi kPa value in the table for maximum output.**

**The burner will operate any pressure between the hi and the low pressures.**

### DIAGRAM B ( SHOWING CONTROL VALVE WITH TEST POINTS AND ADJUSTING SCREW )

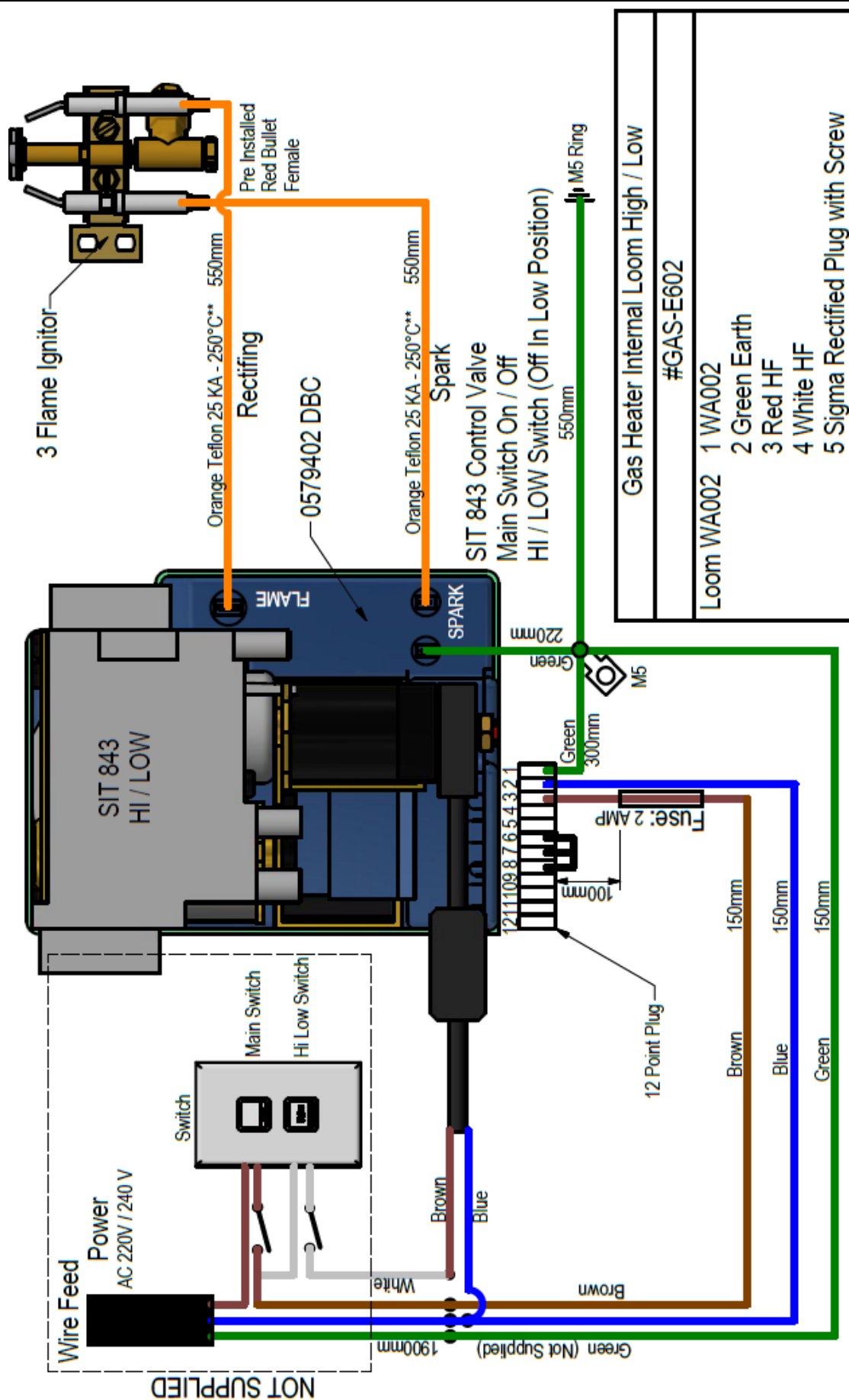
#### HI / LOW Harness Connections



- After checking the pressure, turn the unit off, remove manometer from the test point and tighten the test point screw. Ensure to check for gas leaks.
- Ensure power is off & reconnect Modulator Harness Connection in the Main Harness. See Diagram B above.
- Turn the appliance on and off a few times to check ignition.
- When satisfied that the appliance is working correctly, fit the front panel assembly back to the gas burner.
- NOTE : Ensure you peel the Protective Plastic Coating from any stainless steel components if fitted.
- All burner Aerations are factory preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your Local Service Contact.
- It may take approximately 2 hours of operation for the coals/logs or river rocks to achieve their full flame pattern and glow.
- During the initial burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until fumes dissipate.



## HIGH/LOW SWITCH (SIT 843) - WIRING DIAGRAM

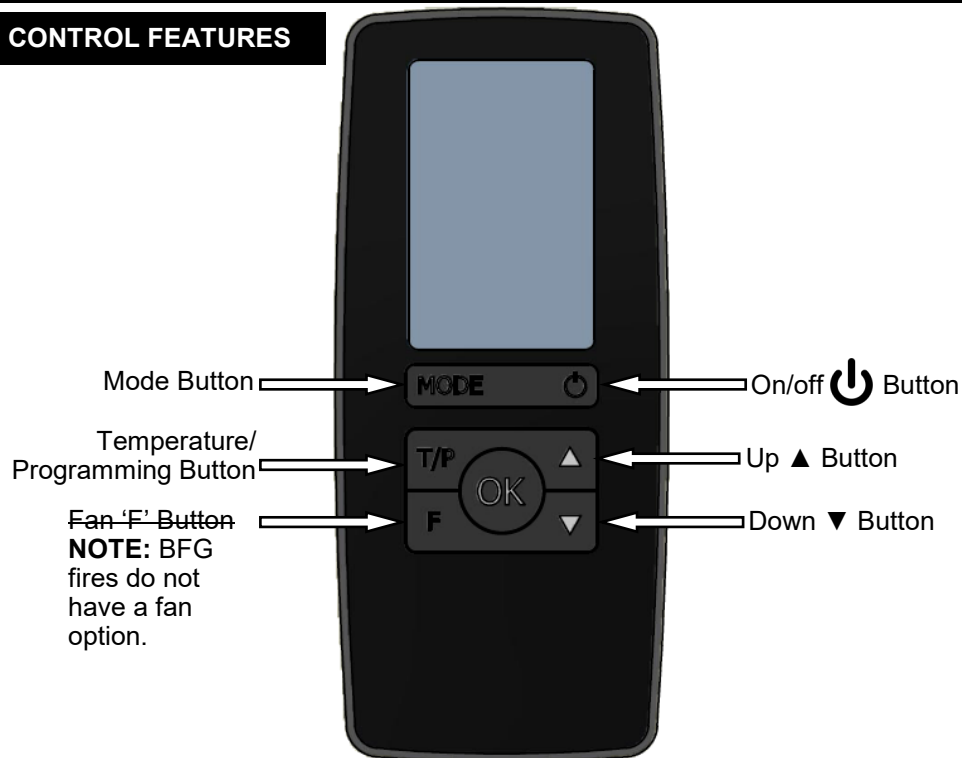


NOTES:

1. \*\* = Supplied by Warrington

## OPERATION OF YOUR REMOTE CONTROLLED EG GAS BURNER (SIT 845 valve)

### REMOTE CONTROL FEATURES



Press and release the  button to turn the remote on and off.

### SETTING THE DAY OF THE WEEK AND TIME

With the remote off, press and hold the 'T/P' button for 2 seconds or longer to initiate programming the time. The Time, Hour setting and AM/PM will flash.

**Setting the hour function:** Press and release the ▲ or ▼ button to increase or decrease the hour setting by 1 hour. Please ensure that AM/PM is set correctly. Press 'OK' to accept. The minute digits will begin to flash.

**Setting the minute function:** Press and release, the ▲ or ▼ button to increase or decrease the minute setting by 1 minute. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the minute setting by 1 minute every 0.5 seconds. Press 'OK' to accept. The days of the week will begin to flash.

**Setting the day of the week function:** Press and release the ▲ or ▼ button to change the day of the week to the following or previous day. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds. Press 'OK' to complete setting. The time and day of the week is now set.

### USING THE VARIOUS MODES

While the remote is switched on, pressing and releasing the MODE button will cycle between all available modes. These are:

Manual Mode→Auto Mode→Flame Mode→Manual Mode

#### Manual mode

Manual mode does not require that the time and day of the week to be set. Press the ▲ or ▼ button to increase or decrease the temperature as desired.

#### Automatic mode

The automatic mode allows the temperature to be regulated according to a programmed level and time. At any time, the temperature may be adjusted up or down. However, whenever the remote changes to a new time period, the temperature will be set automatically according to that period's setting.

## Flame Mode

In Flame mode the flame level is selected as required, and remains at the selected level. A change in the temperature will not change the flame level. Press the ▲ or ▼ button to increase or decrease the Flame level desired.

## Programming for Auto Mode

Each day of the week can be programmed individually for 4 periods P1, P2, P3 and P4, making a total of 28 programmed periods. Alternatively, a weekday program can be set, so the same program is used for Monday-Friday. Similarly, a weekend program can be set for Saturday-Sunday. The entire week can also have the same program. Alternatively, a weekday or weekend program can be set with individual programs for the remaining days.

The suggested period settings for each day/s are:

Period 1 - morning

Period 2 - daytime

Period 3 - evening

Period 4 - night-time

### Entering programming mode:

With the remote off, Press and hold the 'T/P' button for 2 seconds or longer then release, followed by another press and release of the 'T/P' button. If successful, the LCD will display 'Pd' at the top, and the word PROG at the bottom. The time at which the remote is currently set, and MO will flash.

Select which day/s to program. You must choose which day/s of the week you wish to program. Press and release the ▲ or ▼ button to change the day of the week to the following or previous day. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds. The order that you can scroll through the days is as follows:

MO→TU→WE→TH→FR→ 'MO TU WE TH FR' → SA → SU → 'SU SA' → 'MO TU WE TH FR SA SU'

To accept the selected day/s of the week press 'OK'.

First period's start time. The display will indicate 'P1' on the top. The Hour and AM/PM settings will now flash.

### To set the P1 starting time:

Press and release the ▲ or ▼ button to increase or decrease the hour setting. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the hour setting by 1 hour every 0.5 seconds. Please ensure that AM/PM is set correctly. Press 'OK' to accept. The Minute setting will now flash.

### Adjust the minute setting:

Press and release the ▲ or ▼ buttons to increase or decrease the minute setting. Press 'OK' to accept. Setting the temperature. The Set Temperature setting will now flash.

### Adjust the desired set temperature:

Press and release the ▲ or ▼ button to increase or decrease the temperature setting by 1 °C. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the temperature setting by 1°C every 0.5 seconds. Press 'OK' to accept. Period 1 is now set for the day/s of the week that you have chosen. The LCD will display 'P2' to indicate that Period 2 can now be set for the same day/s of the week. Repeat the programming process for periods 2, 3 and 4. After program 4 is set, press 'OK' and the program for the selected day/s will be set. Repeat the programming process for any other periods/days that are required.

## Restore factory default settings

With the remote off, press the following sequence of buttons: 'F', 'T/P', 'T/P' again, ▼. If done correctly, the icon 'rE' will be indicated on the LCD.

## Teaching RF remote ID code to control unit

**CAUTION:** The remote has already been programmed with a unique code. Do not attempt to teach the RF Remote ID code unless instructed by the manufacturer. With the remote off, press the following sequence of buttons: 'F', 'T/P', 'T/P' again, ▲. The LCD display will show 'LC' (Learn Code) for 2 seconds then return to the normal OFF state display. During this time a special code will be transmitted by the RF Remote to the Control Unit, causing the Control Unit to learn its ID.

## APP OPERATION

The app can be used both on iOS and Android devices they can be downloaded here:

Apple Store: <https://apps.apple.com/jm/app/intelligy-thermostat-mkii/id1327577138>

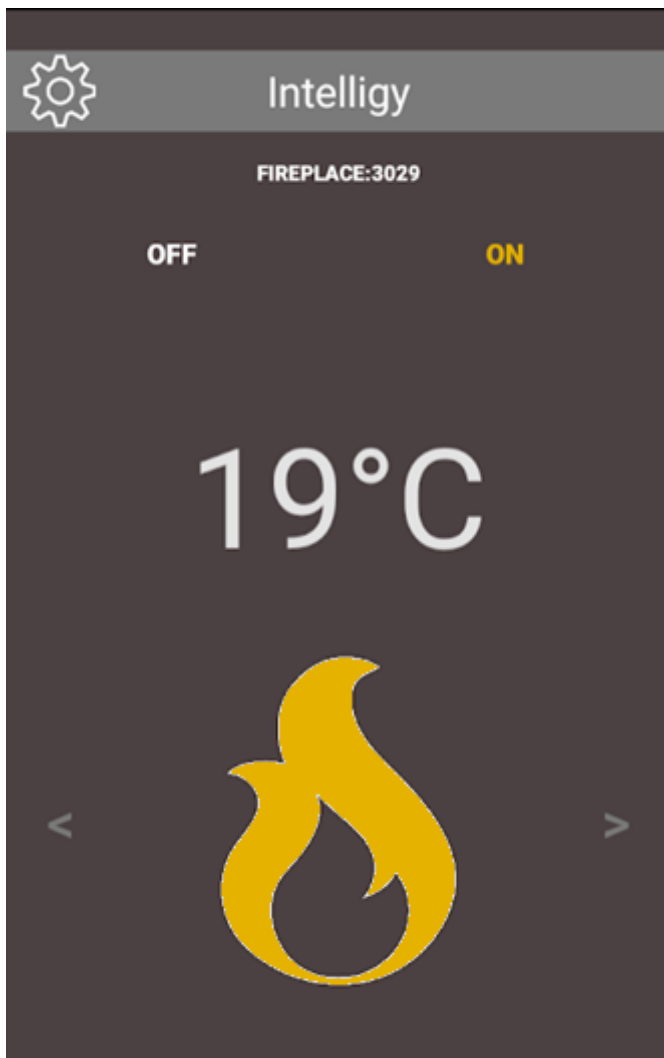
Google Play Store: <https://play.google.com/store/apps/details?id=com.millec.intelligythermostatmkii>

For instructions on how to push the appliance to your Wi-Fi, please go to the Warmington website and find details located under the 'Downloads' tab for your fireplace model.

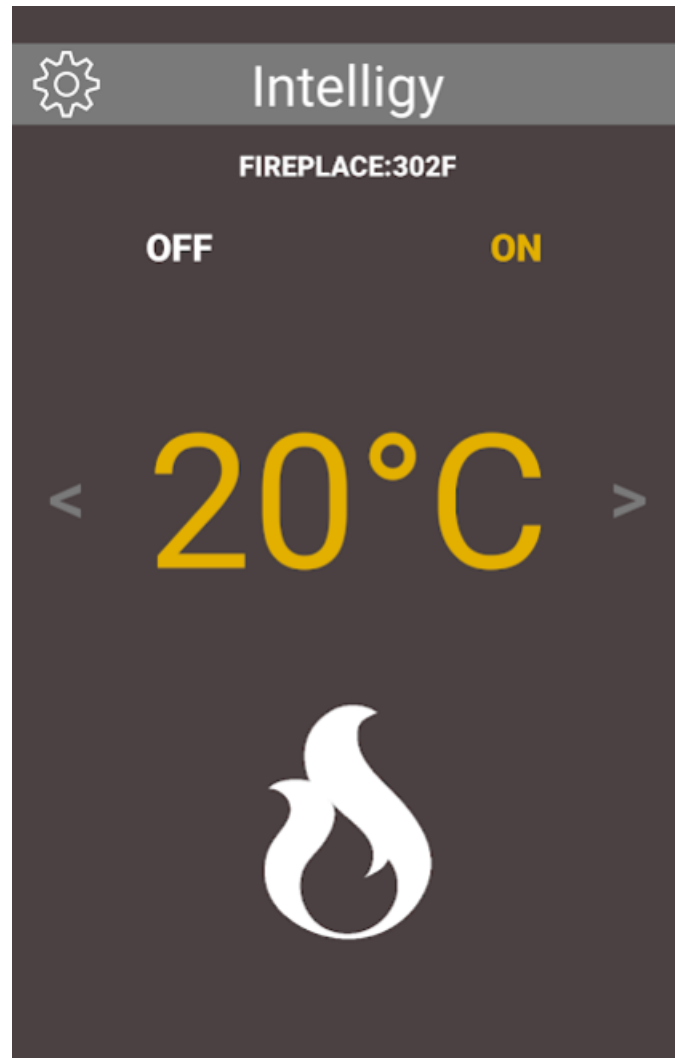
The app has both manual control and automatic controls.

In manual control you can adjust the flame height by touching the < and > symbols next to the flame icon.

In automatic control you can adjust the desired room temperature by touching the < and > symbols next to the temperature.



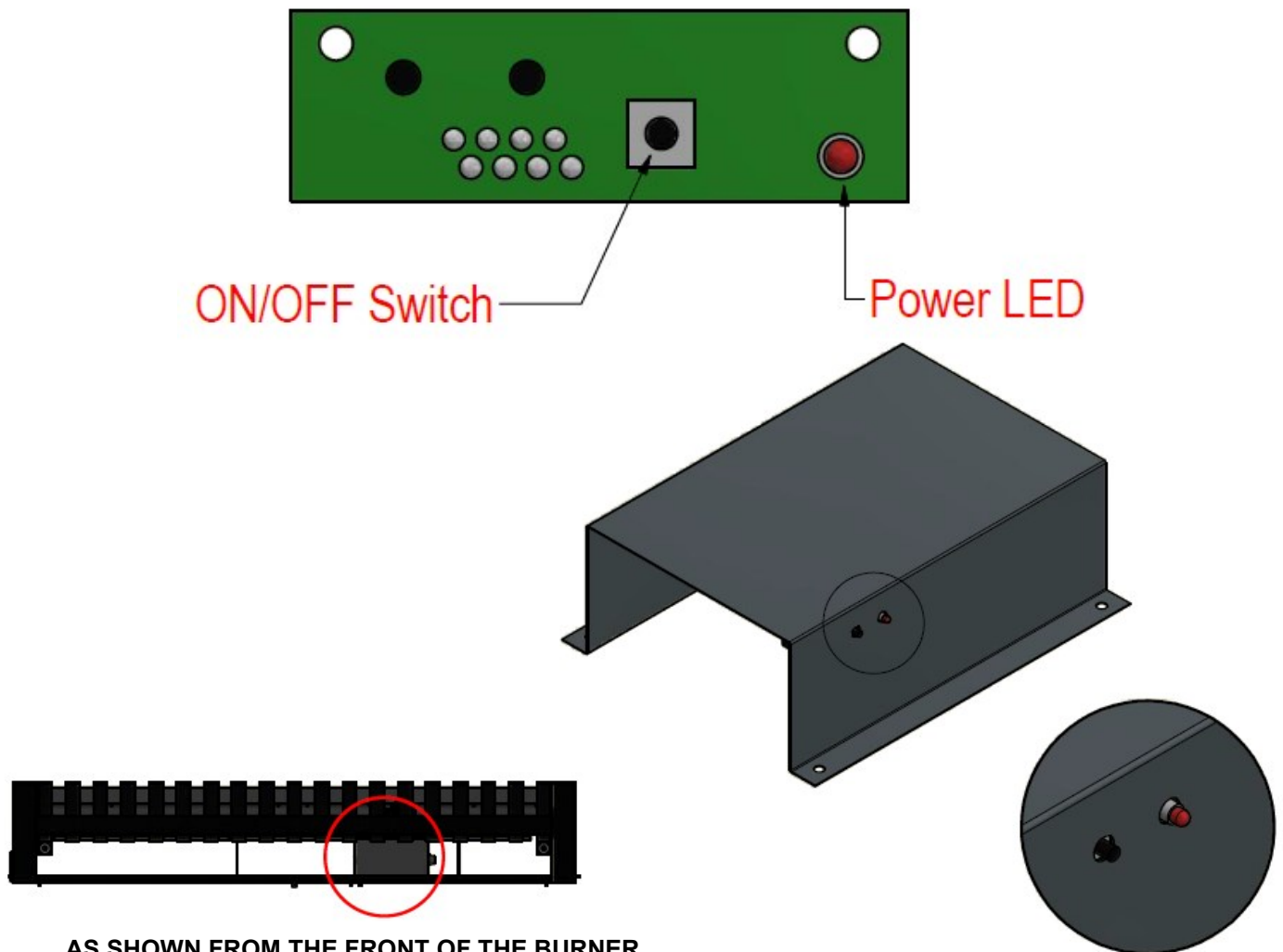
Manual



Automatic



# MANUAL ON/OFF SWITCH



The switch is located behind the grate on the control valve heat shield as shown above.

Press and release the power button. This will start the electronic spark and the power LED will be on permanently. The pilot will ignite first and once this is on, it will ignite the main burner. Pressing and releasing the power button again will switch off the appliance.

When the appliance is turned on, the gas fire will be set to medium flame setting.

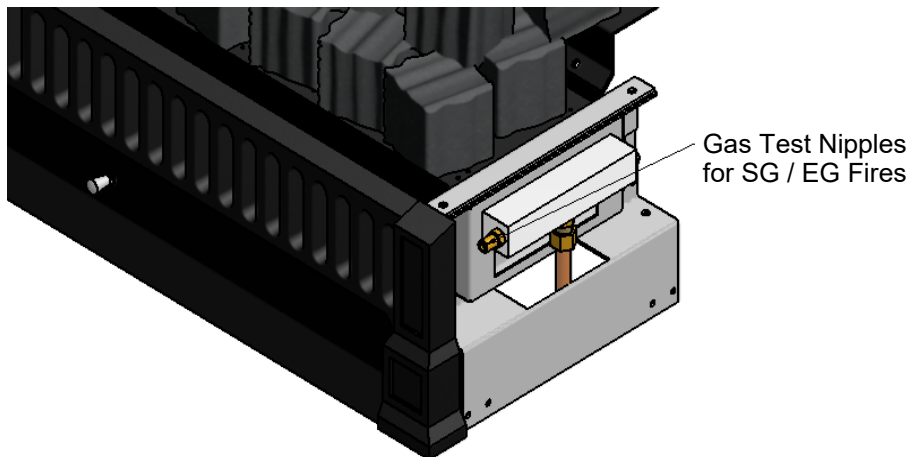
If the gas fails to light, the appliance will go into lock out mode. To start the appliance again turn appliance off and wait 3 minutes before turning it on.

Please note that the power button is for use when the remote controller is lost or damaged and can't be used. This controller can not adjust flame height, hence is supplied for emergency use, if remote and phone App is not able to be used.

## PROCEDURE FOR THE TEST AND COMISSIONING OF YOUR DECORATIVE FIRE.

### Ensure Gas Supply and the Power Supply (caution 240V) to the Unit.

- Refer to Data Plate on this Specification for settings. The Data Plate is attached to the under carriage of the Burner.
- Remove Front Grate.
- Loosen the Jet Test point and attach manometer (Digital is preferred). The Test Point is on the Right Hand Side of the Gas Burner, as Shown Below.



Note : Location of the Test Nipple - may vary from Model to Model

- Light Appliance, adjust to High Flame setting and check pressure, adjust to Low Flame and check pressure.

### **NOTE : If setting the Pressure is required it is to be carried out by a Certified Gas Fitter.**

- If adjustments are necessary, remove the cap . The Pressure Adjustment Screw and Nut are on the Front Side of the Gas Control Valve (shown in Diagram **B** in this specification) and are **Factory** set.

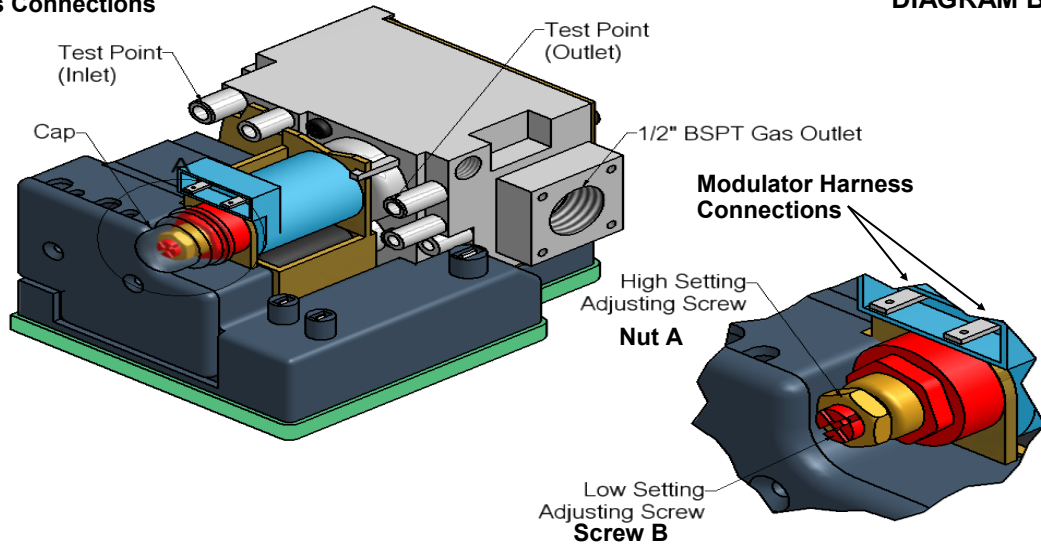
**High Pressure Setting:** Set the modulator to Maximum Condition. Screw in **Nut A** to Increase the Outlet Pressure then screw Nut A out to Decrease the Pressure to the desired settings . Use 10mm spanner.

**Low Pressure Setting:** Turn Off the Power to the Modulator (by disconnecting the Modulator Harness connection at the Valve - See Wiring.) and, keep Nut A stationary . Use a screwdriver to screw in **Screw B** to Increase the Pressure and Screw it Out to Decrease the Pressure . Carefully replace the Modulator Plastic Cap .

**WARNING:** To ensure the Correct Operation of the Modulator it is necessary that the Plastic Cap is returned to its original location.

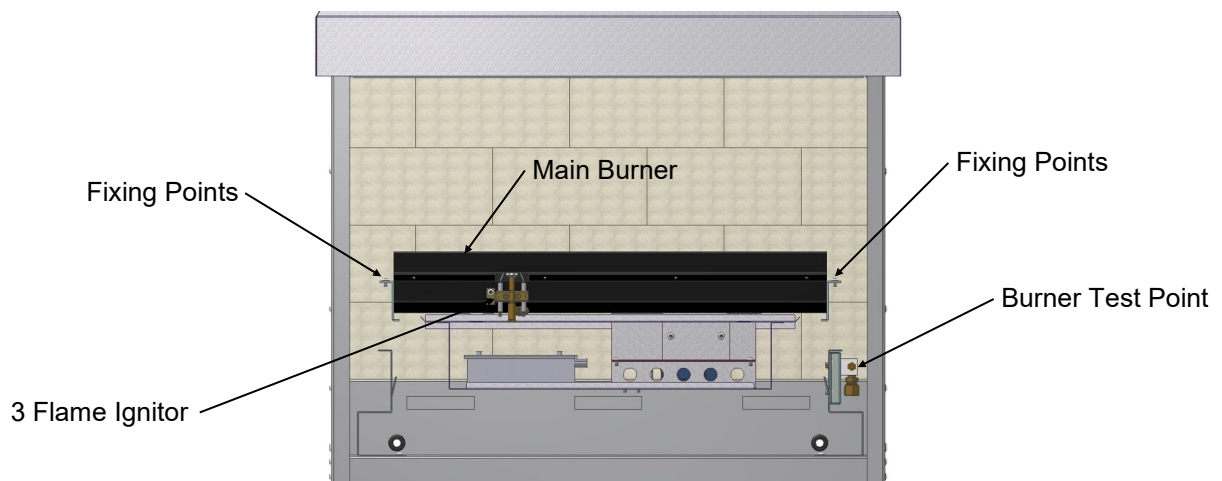
**DIAGRAM B ( SHOWING CONTROL VALVE WITH TEST POINTS AND ADJUSTING SCREW )**

**Modulator Harness Connections**

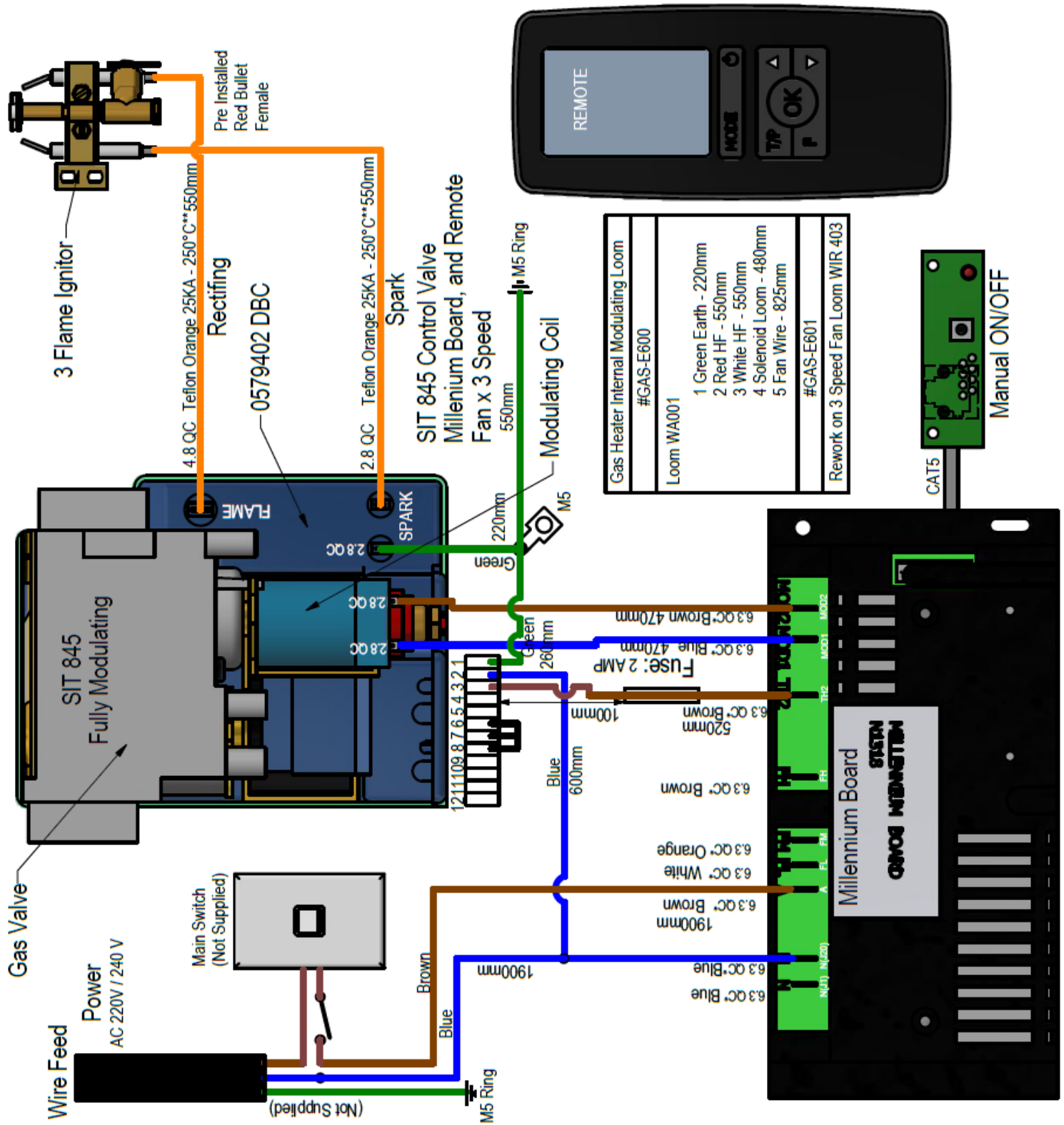


**DIAGRAM B**

- After checking the pressure, turn the unit off, remove Manometer from the Test Point and Tighten the Test Point Screw. Ensure to check for gas leaks.
- Ensure Power is Off & Reconnect Modulator Harness Connection in the Main Harness. See Diagram B Above .
- Turn the Appliance On and Off a few times to check ignition.
- When you are satisfied that the Appliance is working correctly , fit the Front Panel Assembly back to the Gas Burner.
- NOTE : Ensure you peel the Protective Plastic Coating from any Stainless Steel components if fitted.
- All Burner Aerations are Factory Preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your Local Service Contact as listed.
- It may take approximately 2 hours of operation for the coals/Logs or river rocks to achieve their full flame pattern and glow.
- During the Initial Burning in period, some smoke and smell may be experienced , the appliance should be run on the high position in a well ventilated room until these dissipate .



## FULLY MODULATING (SIT 845) - WIRING DIAGRAM



## GENERAL NOTES

### NOTES:

- These installation and operating instructions should be kept in a safe place. Should you require another copy, download from the **Warmington** website [www.warmington.co.nz](http://www.warmington.co.nz).
- Warranty - for full details on product warranties, contact your local Authorised Warmington Retailer.
- Correct installation, operation and maintenance must be maintained to comply with the **Warmington** Warranty.
- The appliance and flue system must be installed in accordance with relevant standards and the appropriate building codes.
- This appliance must be serviced annually and any service operation must be carried out by a qualified service person.

### WARNINGS:

- **WARNING; ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED A BREACH OF NZ STANDARDS.**
- **WARNING; DO NOT USE OR STORE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILST IN OPERATION.**
- **WARNING; DO NOT PLACE FLAMMABLE MATERIALS ON OR AGAINST THIS APPLIANCE.**
- **CAUTION:** THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.
- **CAUTION:** ALL SERVICING MUST BE CARRIED OUT BY AN AUTHORISED SERVICE TECHNICIAN.
- **CAUTION:** MAKE SURE THE USE OF CORRECT FUEL TYPE WITH THIS APPLIANCE.

**NOTE: Keep a copy of these instructions for operating and maintenance guidelines.**



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