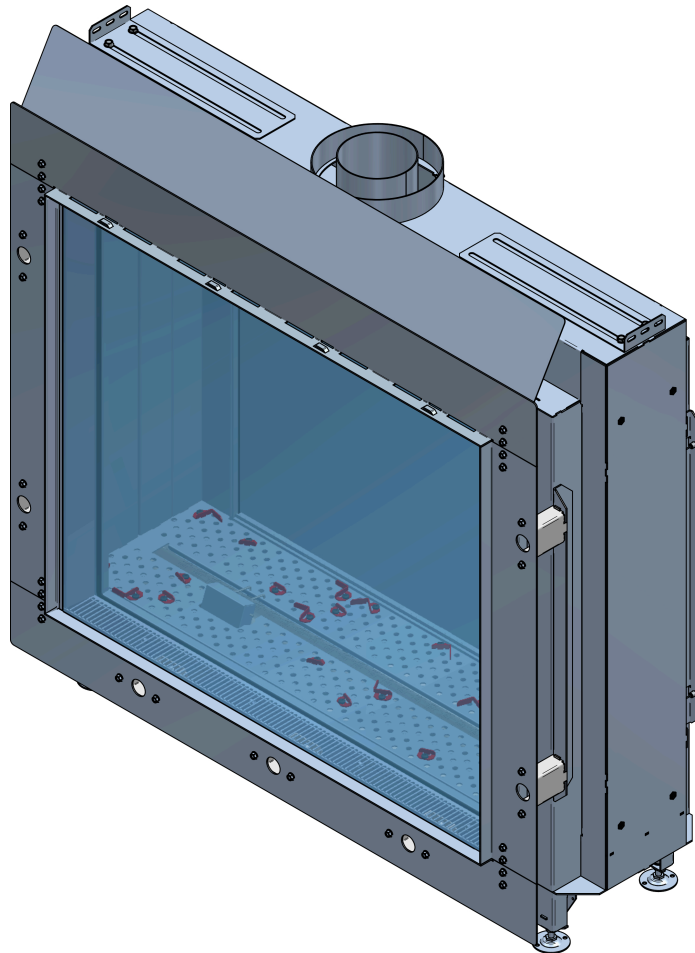


Aerion Range

Quadro 800 Range

INSTALLATION, OPERATING AND MAINTENANCE MANUAL



NOTICE: DO NOT DISCARD THIS MANUAL

Important Installation, User and Maintenance instructions included. Please read this manual before installing and using this space heater. Leave this manual with the owner. This space heater is approved for Natural Gas and Universal LPG usage.

Version 3.2 13/12/22

PAUL AGNEW

DESIGNS

TABLE OF CONTENTS

Model designation and Compliance Certificate detail.....	3
Safety Warnings.....	4-5
Listing and Code Approvals and Contact for your heater.....	6
Product Dimensions.....	7
Convection Heat.....	9
Vent location and sizes.....	10
Unit TV clearances & combustible mantle.....	11
Control panel.....	12
Control panel & Vent Positions.....	13
Timber Cladding material.....	14
Clearances timber & metal frames.....	15-21
Technical data summary.....	22
Installation check list.....	23-24
Installation Instruction	
Removal of control hatch from the transit bracket.....	25-26
Gas connection and gas (leakage) tightness check.....	26
Heater location.....	27
Installation of the control hatch.....	27-28
Spacer fitment to maintain clearances.....	29-30
Timber (minor) framing details Model G800.....	31
Regulatory Locations minimum clearances required for flue terminals.....	32
Flue components and Installation.....	33-36
Installer Information	
Control detail.....	37-39
Outer and Inner glass removal and fitment.....	40-44
Fuel bed (media) arrangement.....	45-48
Main burner check.....	49
Burner pressure check.....	49-51
Servicing	
Servicing only to be carried out by an authorised person.....	51
Troubleshooting flow chart.....	53-57
Cleaning the Log media.....	58
G800 Product Specifications and copy of data label.....	59
Remote Control Instructions	
How to use your heater.....	60-64
Error code listings.....	65
Cleaning and Maintenance	
General and Recommendations.....	66

THIS MANUAL COVERS THE FOLLOWING MODELS

G800 GF (Quadro Eight Hundred)
G800 T (Quadro Tunnel)

COMPLIANCE CERTIFICATE



DO NOT operate this appliance before reading the instruction manual.

DO NOT place articles on or against this appliance.

DO NOT store chemicals or flammable materials, or spray aerosols near this appliance.

DO NOT operate with panels, covers or guards removed from this appliance.

DO NOT connect an LP gas cylinder located indoors.

Don't risk your appliance warranty.

Only a licensed person will give you a Compliance Certificate, showing that the work complies with all the relevant standards.

Only a licensed person will have insurance protecting their workmanship for 6 years.

You **MUST** use a licensed person to install this appliance who **MUST** give you your Compliance Certificate to ensure the manufacturer's appliance warranty will be honoured.

SAFETY WARNINGS

Please read this manual before installing and using the (appliance) heater.

1. What to do if you smell gas
 - Do not try to light the appliance
 - Extinguish any active flame
 - If possible, turn off the main gas supply to the house
 - Open any windows or doors nearby
 - Do not touch any electrical switches near the appliance
 - Do not use your telephone near the appliance
 - Do not use your telephone near the appliance
 - Contact your gas provider (not in the vicinity of the appliance) and follow their instructions
 - If you cannot reach the gas provider, call the fire department

INSTALLATION AND USAGE WARNINGS

- Only a licenced plumbing practitioner will provide you with a Certificate of Compliance demonstrating that the work carried out is compliant with all the relevant standards and the purchaser will need to obtain the Certificate of Compliance in order to redeem any warranty claims.
- Installation / maintenance of this appliance is only to be carried out by an authorised person (appropriately registered or licenced plumbing practitioner) and in accordance with the manufacturer's instructions, local gas fitting regulations, AS/NZS 5601.1:2013 installation code for gas burning appliances and any other relevant statutory regulations. Failure to follow these instructions could cause a malfunction of the heater which could result in death, and/or serious bodily injury, and/or property damage. Failure to follow these instructions may also void your fire insurance and/or warranty.
- Keep curtains, clothes, furniture, perfume and other flammable materials at least 900 mm from any glass opening of the heater. The manufacturer takes no responsibility if curtain clearance is less than 900 mm and not restrained.
- Living Fire gas space heaters have a toughened glass safety guard fitted. This guard is fitted to reduce the risk of fire or injury from burns and no part of it should be removed. For protection of young children or the infirm, a secondary guard is required.
- Glass and other surfaces are hot during operation as well as during the cooling down period. Precaution should be taken, and young children must be supervised at all times. Children and adults should be alerted to the hazard of high temperatures and should care to avoid burns or clothing ignition.
- If removed, all glass windows must be put back onto the heater prior to operating the heater. Models with side glass ensure all glass corners abut to maintain the firebox seal.

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.
- Never attempt to burn paper or any other material in the heater.

SAFETY WARNINGS

- A slight smell or smoke may be apparent for the first few hours of use. This is due to the heat resistant paint curing. It is recommended to open windows in the room for the first lighting of the fire. In some instances, a slight discolouration may occur inside the firebox, this is a normal condition and is not covered by warranty.
- Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the sections in this manual for correct procedures, or consult with place of purchase, a licensed plumber, a gas supplier or the appliance distributor.
- Install the heater only in locations that are referred to in the installation instructions. Do not build the heater into walls or enclosures (combustible materials) without the use of stand-off bracket (spacers) supplied with the heater.
- The remote control supplied with your heater allows for the heater to be switched on either manually or automatically. The automatic function has pre-determined times which allow the heater to switch on automatically. Therefore, you **MUST** ensure all combustible materials (curtains, clothes, furniture, perfume and other flammable materials) are at least 900 mm from the front and sides of the heater, irrespective of whether the heater is operated manually or automatically.
- Minimum volume of the room where the heater is installed: 2 M3 per kW (3.6 MJ) total output. A door leading to an open air or a window which can be opened. An extraction hood: 15 M3/h per kW output.
- Gas pipe testing. The heater must be isolated from the gas supply piping system by closing it's individual manual shutoff valve during any pressure testing of the Gas supply piping system at test pressures equal to or less than 3.5 kPa.
- Operating the heater in freezing conditions. Contact LIVING FIRE for advice.
- This heater to be connected to a flue and must exhaust outside of the building. Never flue into another room.
- This heater is for use only with the type of gas indicated on the rating label.
- Your gas heater should be serviced annually by an authorised service person.
- **DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.**
- **DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE.**
- **DO NOT INSTALL OR USE THIS APPLIANCE IN MARINE CRAFT OR MOBILE HOMES.**
- **DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.**
- **DO NOT MODIFY THIS APPLIANCE.**

LISTING AND CODE APPROVALS

These gas appliances (gas space heaters) have been tested in accordance with AS/NZS 5263.0 and AS/NZS 5263.1.3 and have been certified by IAPMO OCEANA for installation and operation as described in this installation, operating manual. These appliances must be installed in accordance with AS/NZS 5601.1.

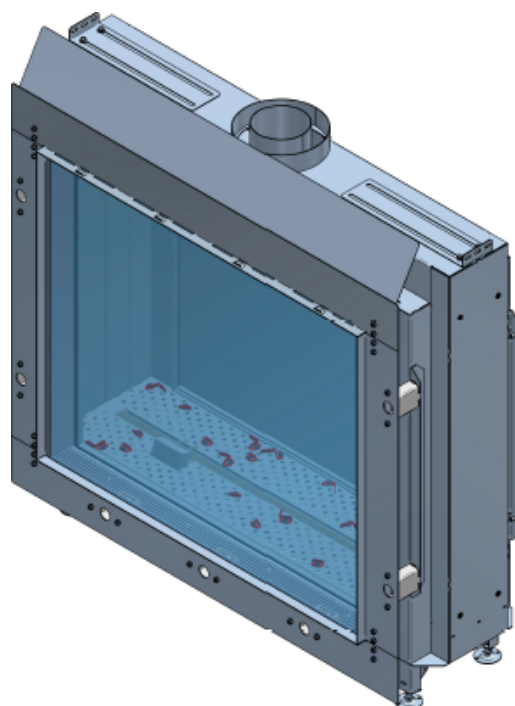
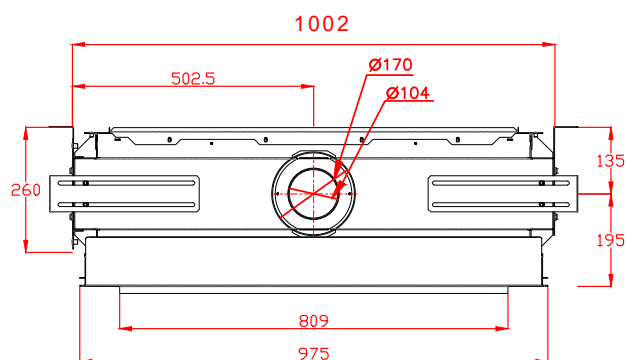
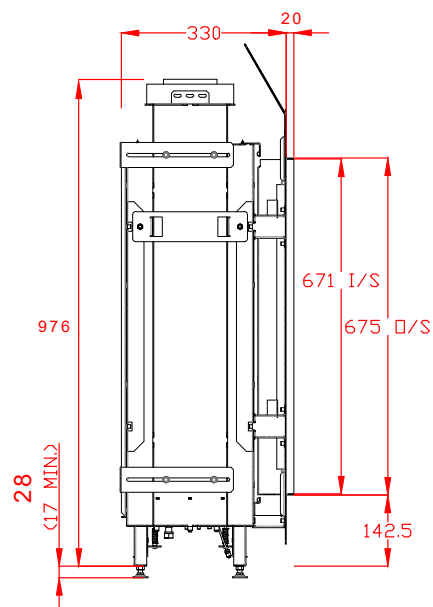
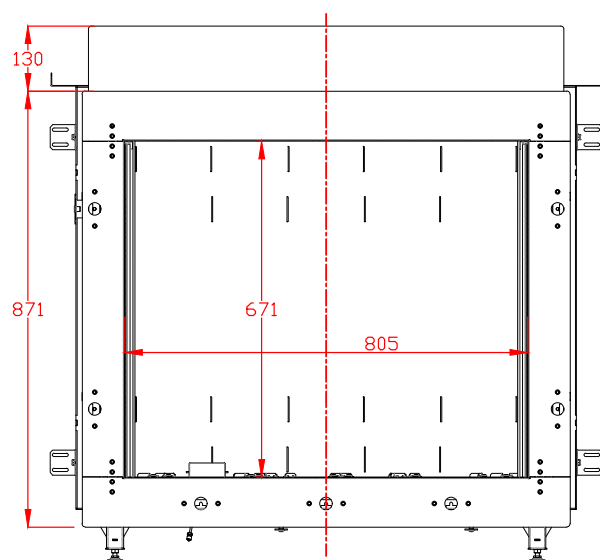
CONTACT DETAIL FOR YOUR HEATER

Living Fire (PAD Paul Agnew Design)
361 Swan Street
Richmond, Victoria 3121
Office: +61 3 99 777 888

PRODUCT DIMENSION: QUADRO 800 GF

APPLIANCE DIMENSIONS

Product Code: G800 GF



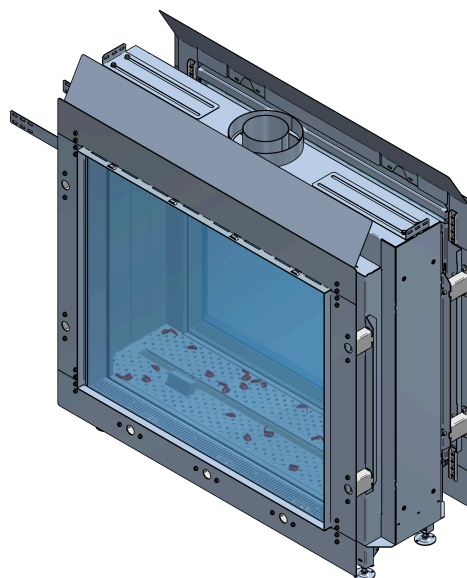
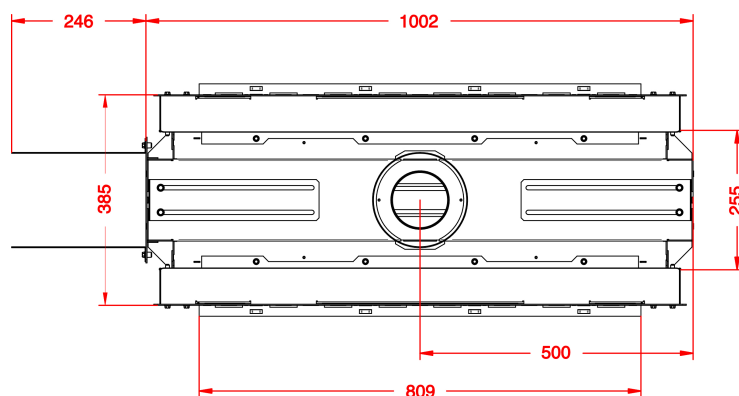
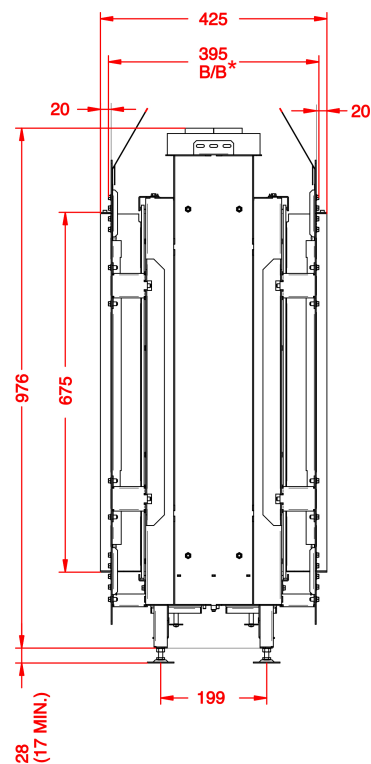
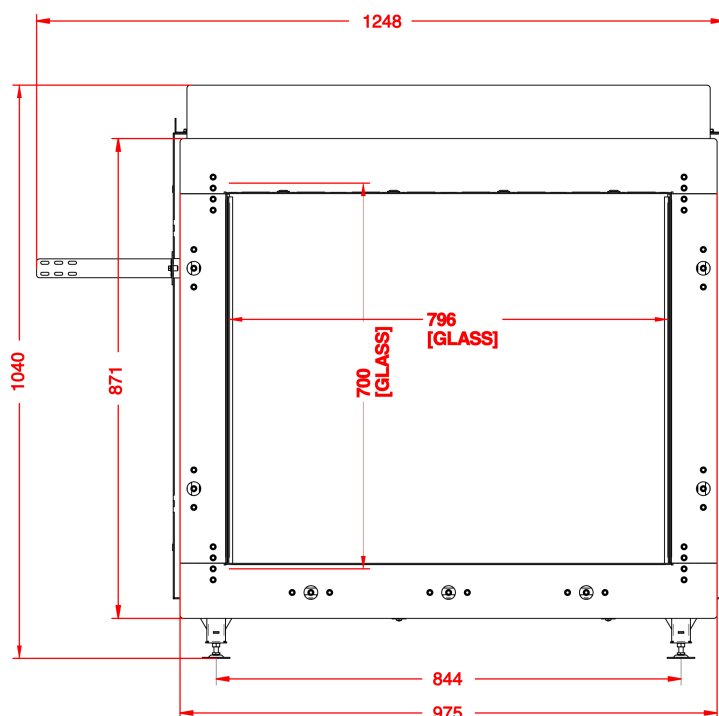
Note:

The lip around unit is 20mm thick.

PRODUCT DIMENSION:QUADRO 800 TUNNEL

APPLIANCE DIMENSIONS

Product Code: G800 T



Note:

395 B/B- Includes the bolt head height of 5mm on both side (Bolt to Bolt)

QUADRO 800 RANGE

CONVECTION HEAT

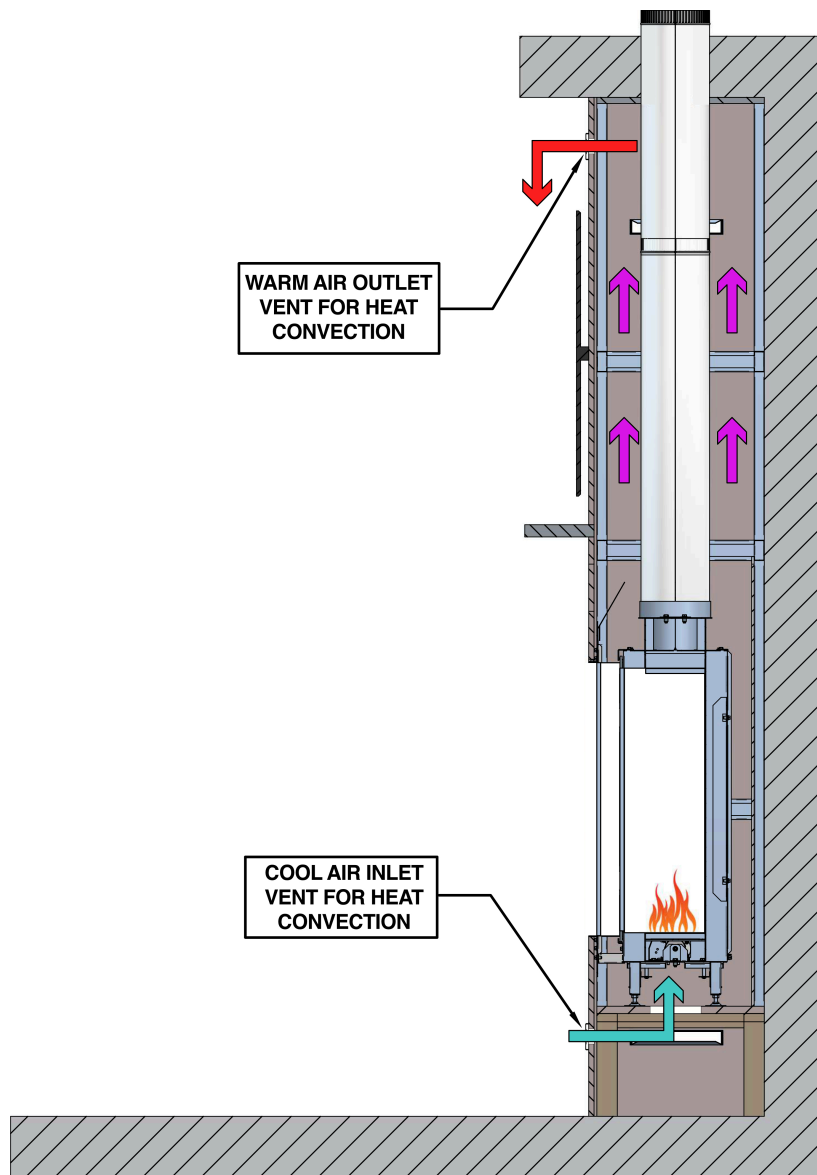


Figure 1.1 (Convection heat through vents)

Overall Design:

- One of the many features of the Paul Agnew Designs gas fireplaces is its use of convective air flow.
- As the air within the enclosing walls, or chase, is warmed by the fireplace it rises and then exits the convection air outlets. The warm air in the chase is then replaced by room air which enters through the room air inlets which are situated at the bottom of the enclosure. As this warm air cool, it falls toward the floor where it's drawn into the inlet and the cycle repeats.
- The room air inlets are part of the fireplace and cannot be blocked.
- As seen in the next page, the outlets may be placed in a number of locations to accommodate different structures/designs. In all cases, the design must allow for free flow air through the chase/ enclosure.

QUADRO 800 RANGE

VENT LOCATIONS AND SIZES

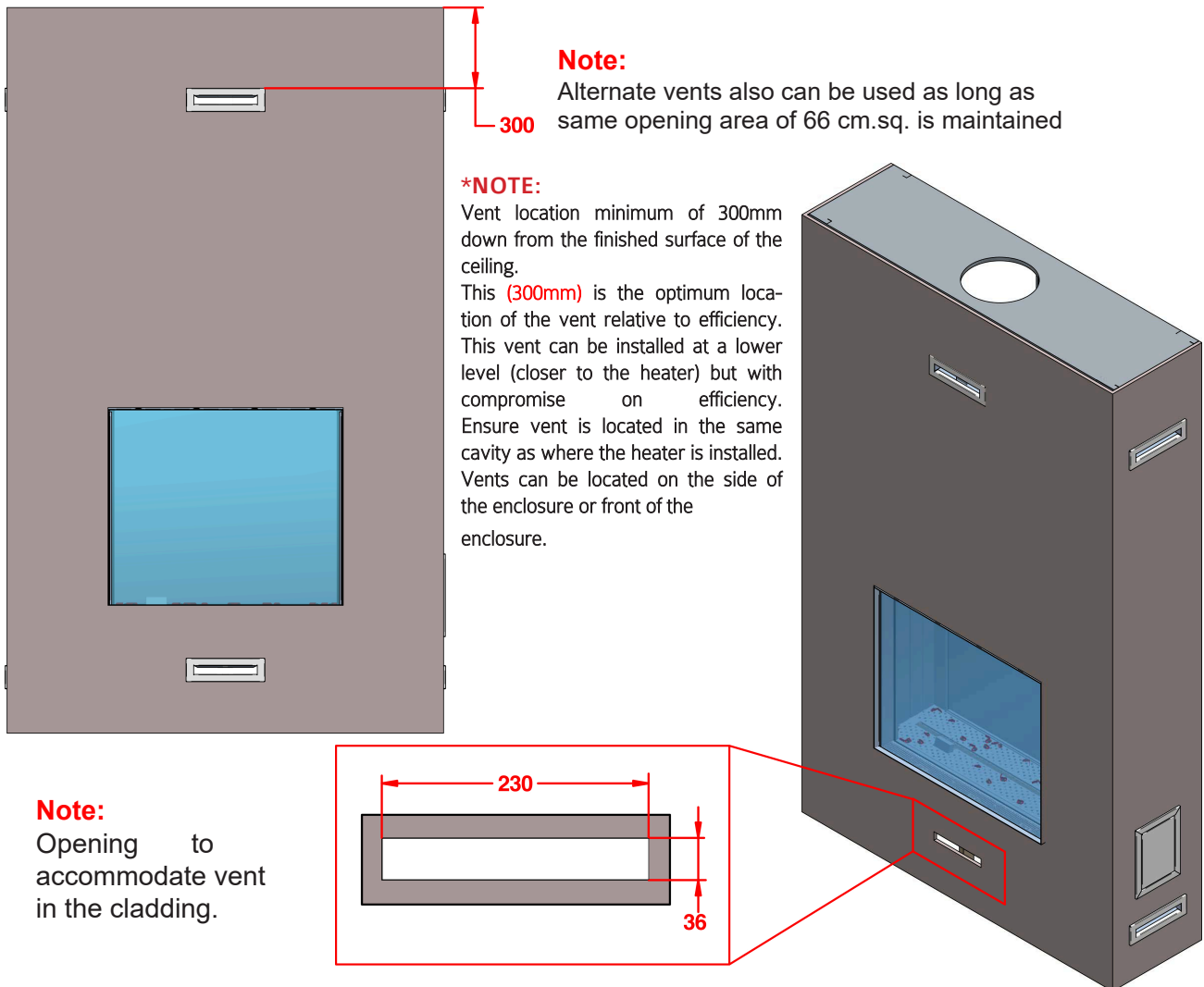


Figure 1.2 (Vents)

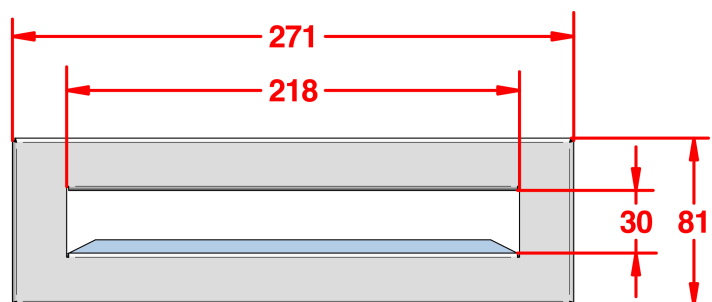


Figure 1.3 (Vent Size)

NOTE:

Standard Vent Size:

271x81mm

Standard Vent Opening:

218x30mm

For Timber/ Steel Frame:

x 4 vents are provided.

The use of the x 4 vents will ensure efficient heat distribution.

* Vent sizes can be customised.

QUADRO 800 RANGE

UNIT TO TV CLEARANCES & COMBUSTIBLE MANTLE

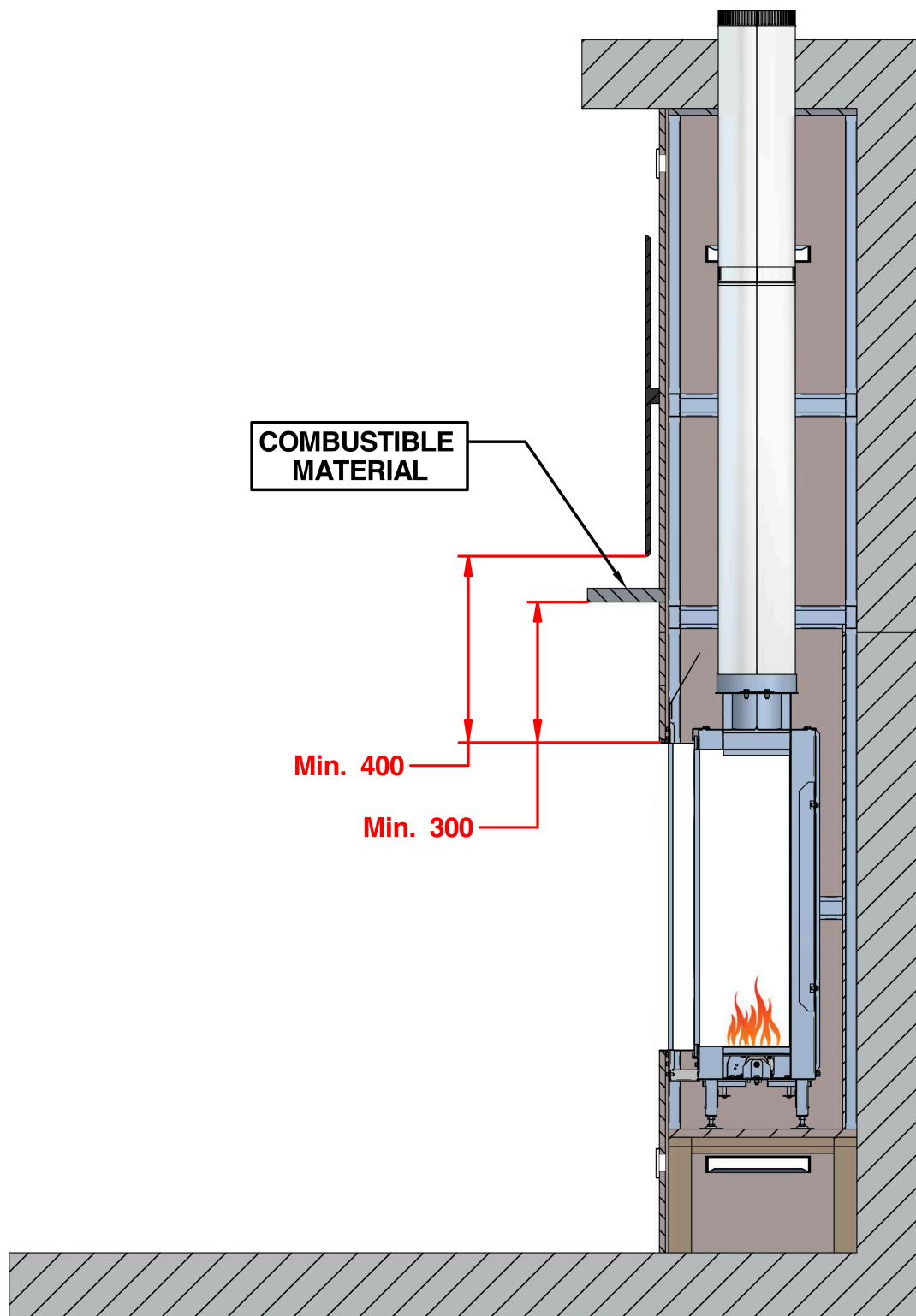


Figure 1.4 (Clearance from Unit to TV)

QUADRO 800 RANGE

CONTROL PANEL

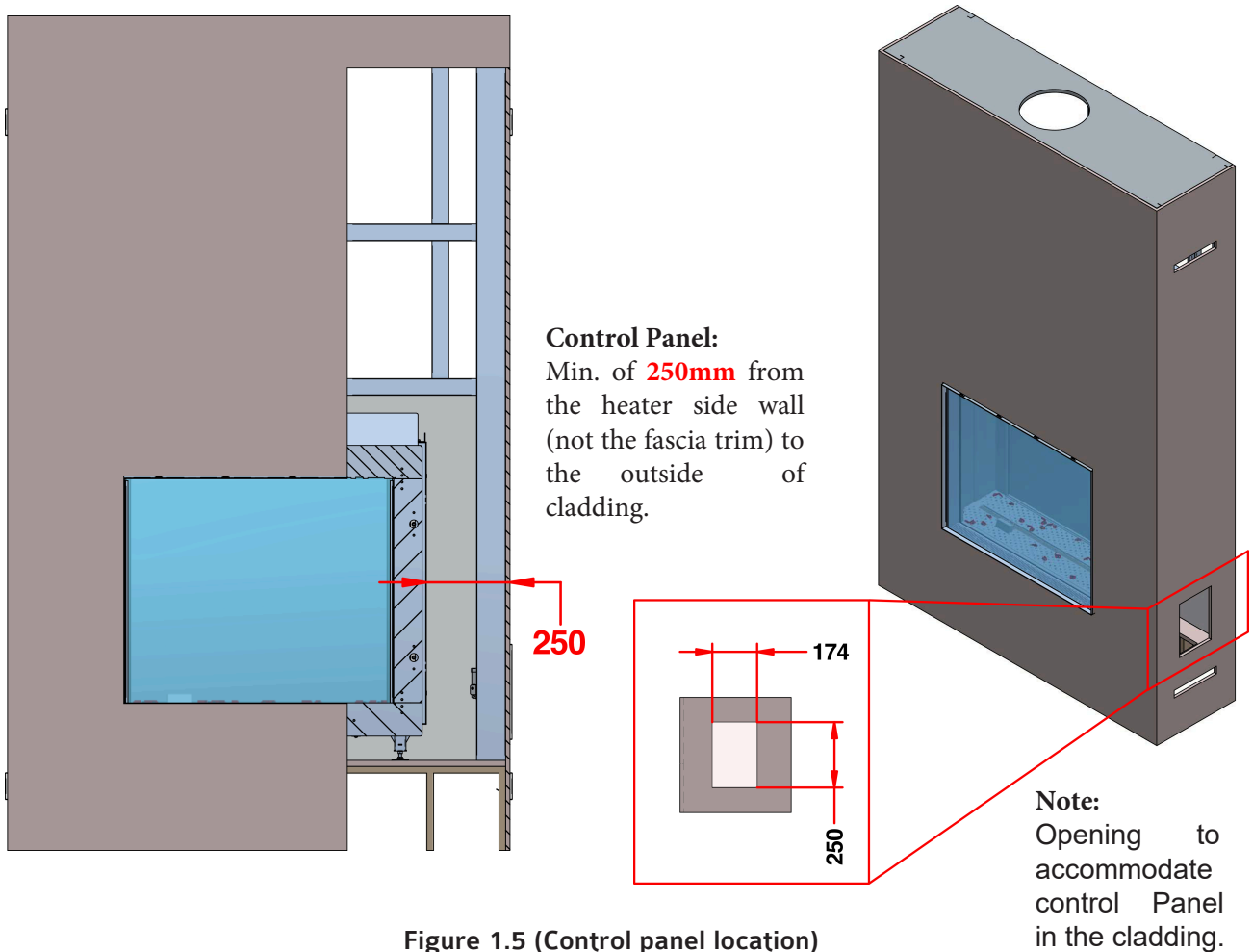


Figure 1.5 (Control panel location)

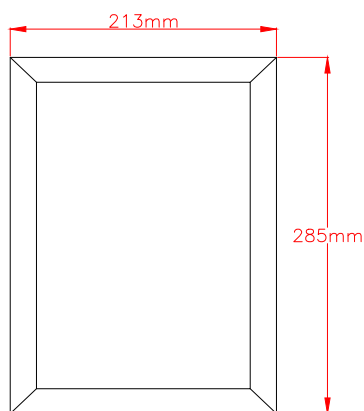


Figure 1.6
(Control Panel external Dimension)

Control Box Installation:

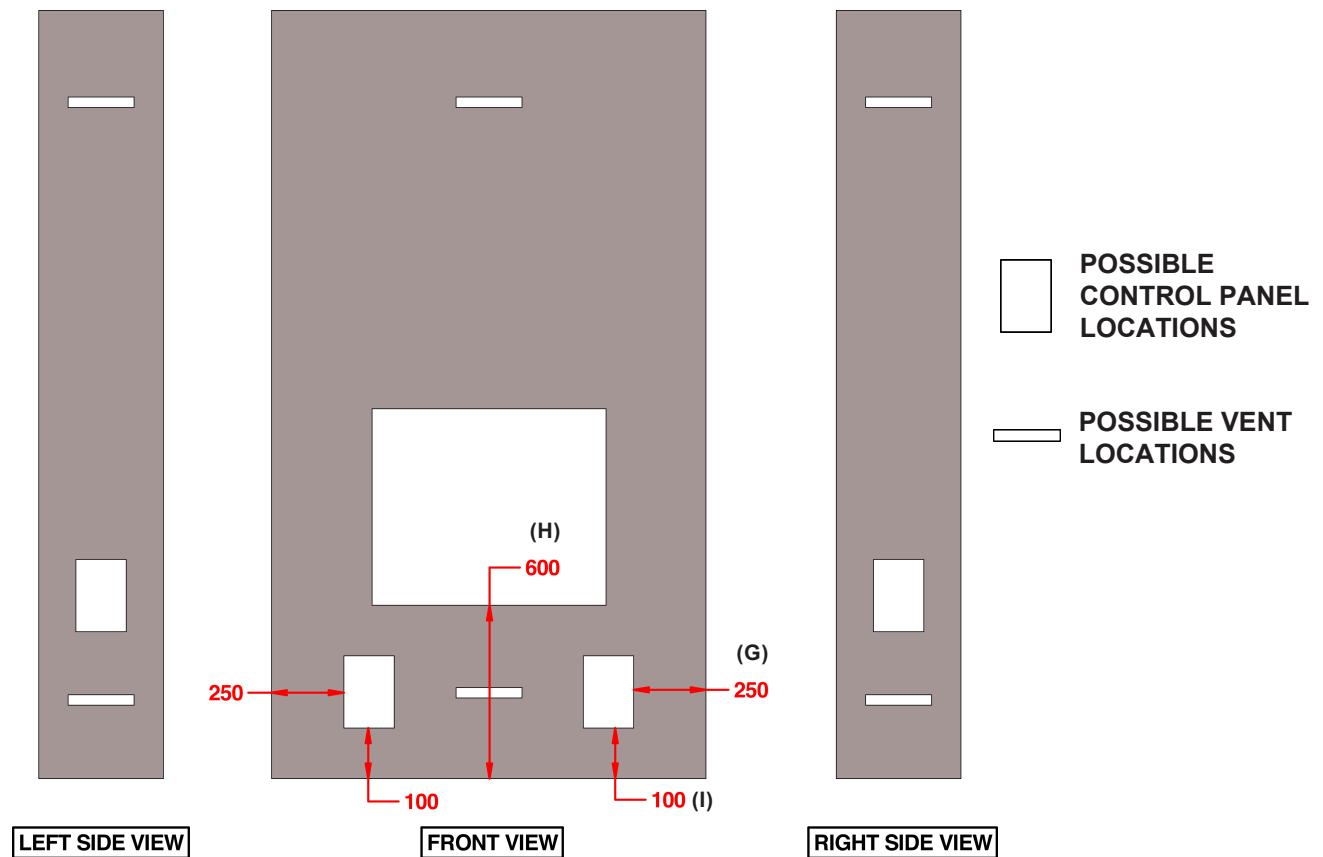
Timber/ Metal Installation:

Heater stands on support legs that sit on framing/floor which provide sufficient clearance for airflow. If unit is mounted on floor, control panel can only be located to the side with the minimum clearance of 250mm to the side. If underneath the unit, base will need to be at a desired height for the unit but also allowing the control box to be located underneath. Please refer to dimensions of each unit.

QUADRO 800 RANGE

CONTROL PANEL & VENT POSITION

POSSIBLE LOCATION OF CONTROL PANEL AND VENTS



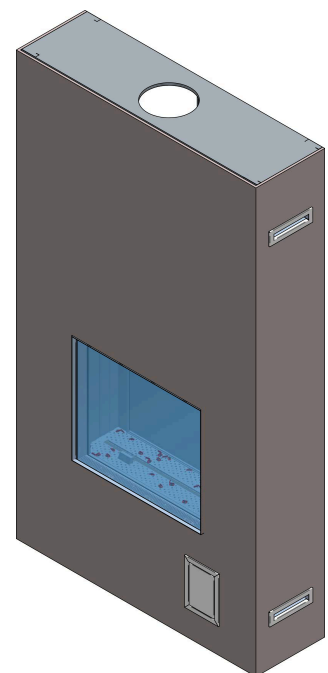
CLEARANCE DETAILS

- G** - Minimum clearance between panel opening to side of the cladding (250mm)
- H** - Minimum height between floor level to Heater front window lip (600mm)
- I** - Minimum clearance between floor level to panel (100mm)

Note:

G, H & I dimension is only applicable if the control panel is installed directly below the appliance.

Please refer Pg.5 if the control panel is installed to the side of the cavity.



QUADRO 800 GLASS FRONTED

TIMBER FRAMING - CLADDING MATERIAL

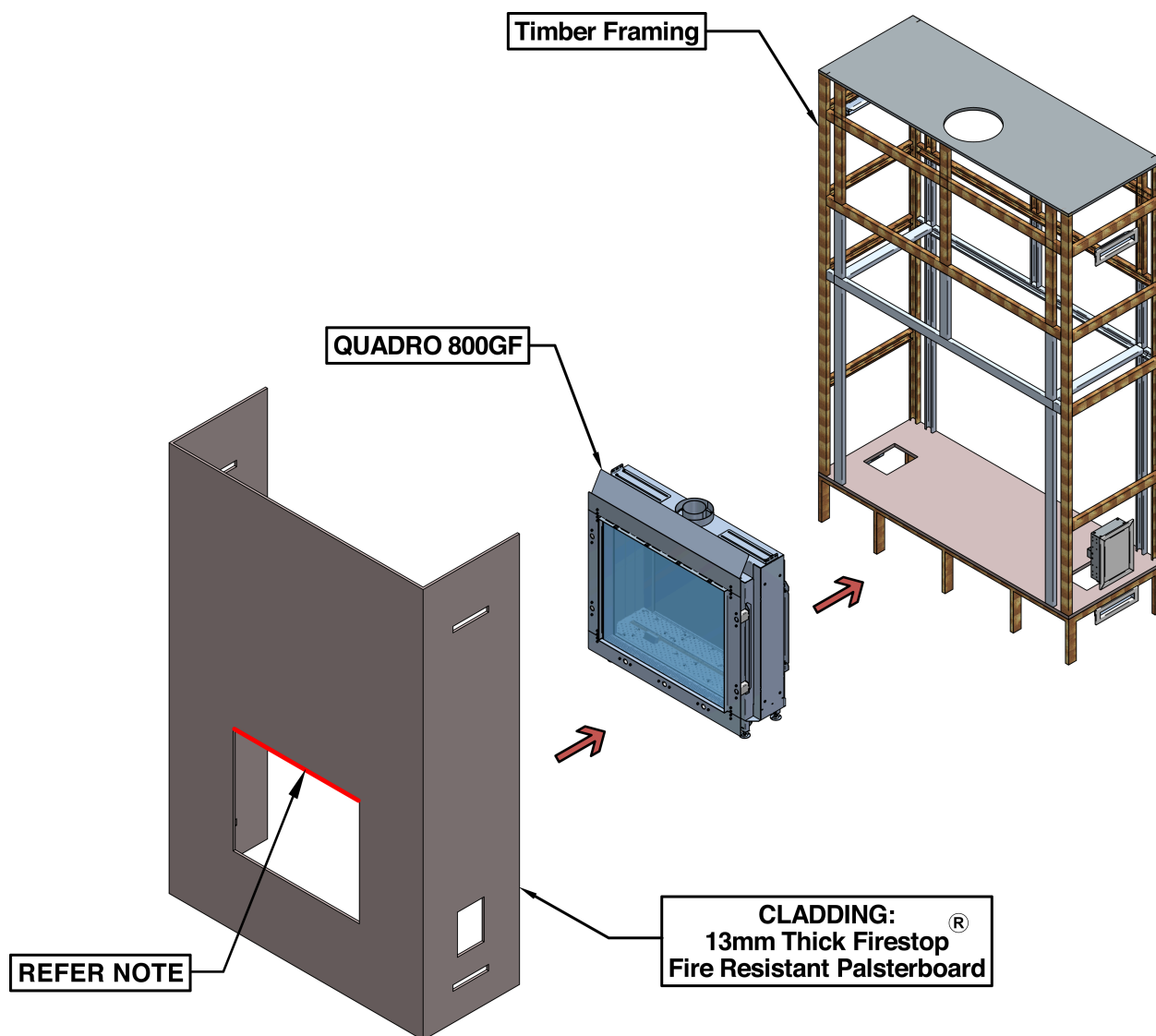


Figure 1.6 (Cladding Material)

Note:

A gap of 5mm needs to be left between the plasterboard and the top part of the firebox.
9mm Villa Board can be used as an alternative approved cladding material.

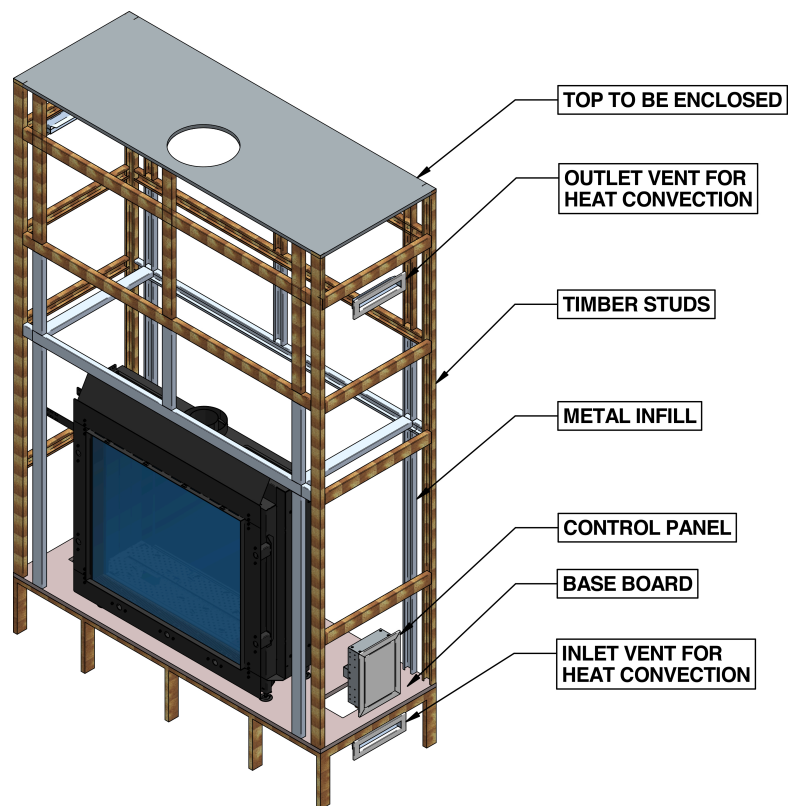
QUADRO 800 GLASS FRONTED

TIMBER FRAME

Timber framing part details which includes control panel (x1), vent (x4), base board, metal infill around heater unit and timber studs.

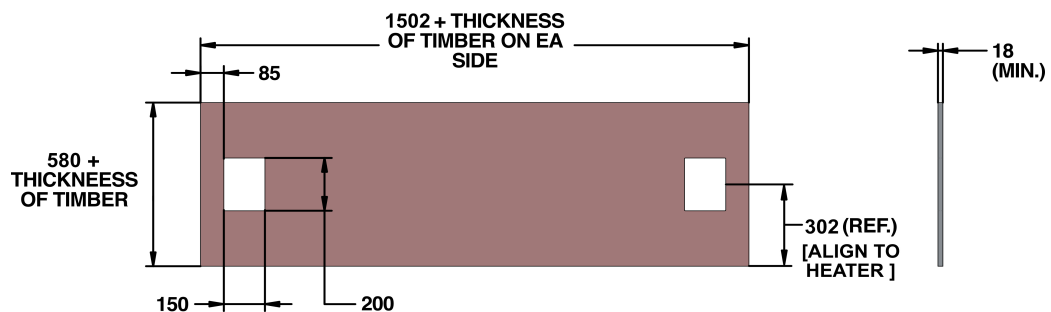
Cladding need to be build around the frame having the heater unit inside the cavity of the timber frame.

Please refer to Pg. 9 for specification to build the timber frame, dimensions specified are of minimum requirements.



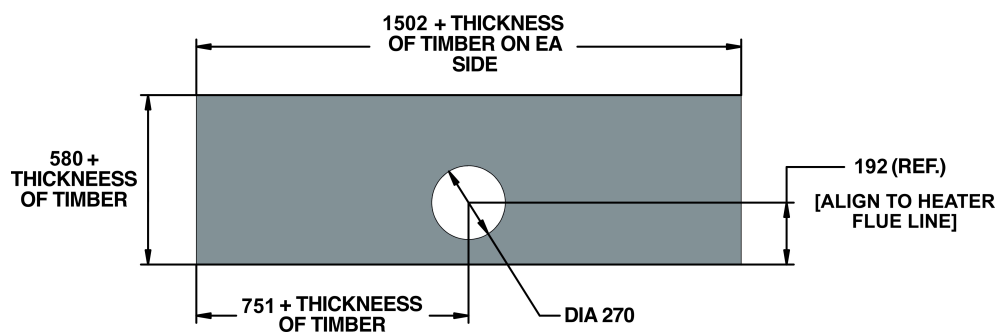
BASE BOARD:

Base board need to have minimum opening of 200x150mm on each side as specified, with minimum thickness of 18mm.



TOP ENCLOSURE:

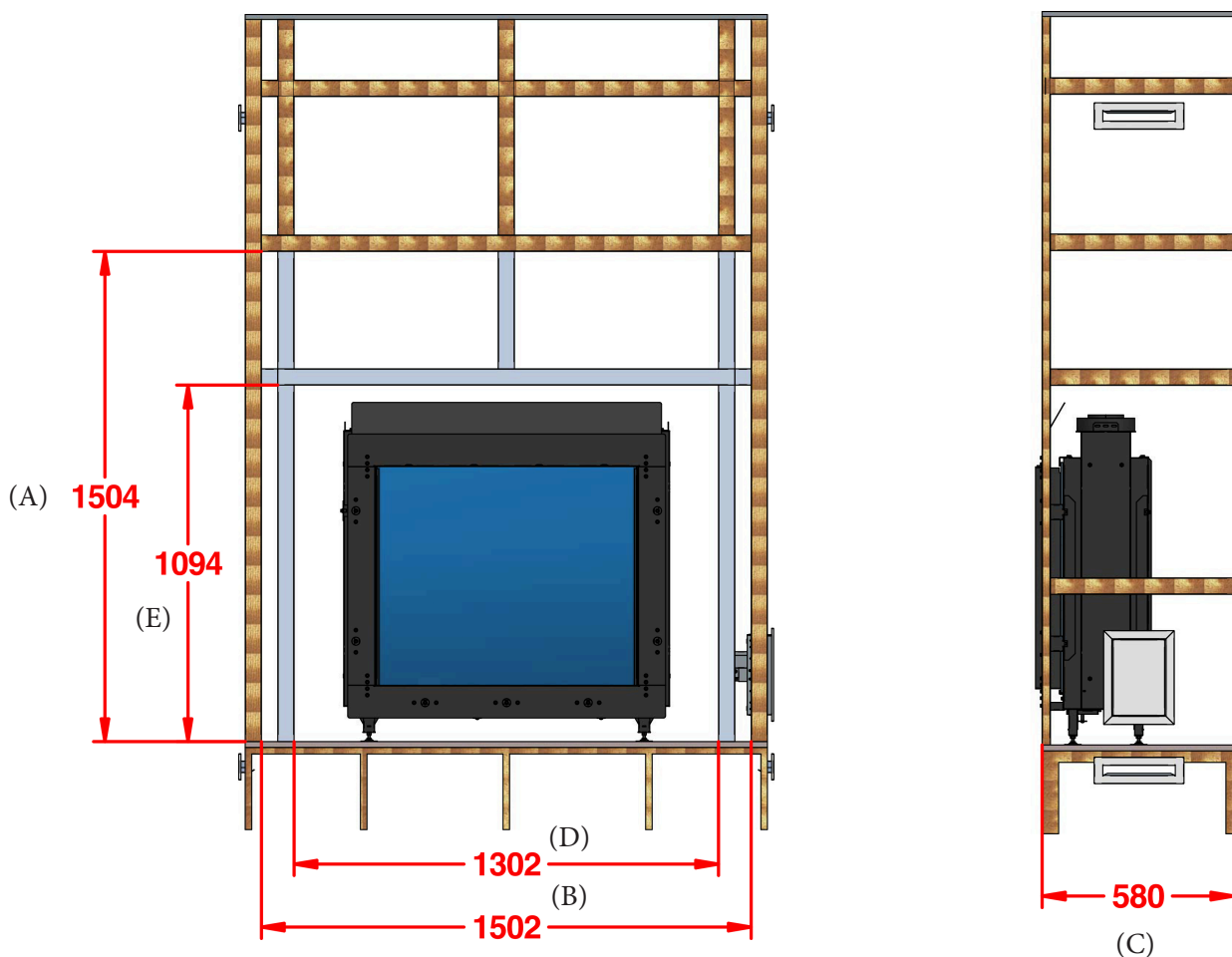
Top enclosure need to have opening of diameter 270mm in alignment for flue line as specified.



QUADRO 800 GLASS FRONTED

TIMBER FRAME

Figure 1.8 (Timber framing)



CLEARANCE TO COMBUSTIBLES

Fireplace Dimensions			Timber Frame			Metal Studs Infills to be in-installed after Unit is in place (Clearance between unit and metal stud infill)		Option for smaller depth clearance: Metal Studs fixed to rear combustible wall. 25mm Steel Battens fixed to combustible wall +6mm Villa Board + 50mm air gap to unit
In mm			Clearance to Combustibles in mm			Installation dimensions in mm		
			Unit Height +500mm top	Unit Width +250mm each side	Unit Depth +250mm to back	Unit Width +150mm either side	Unit Height +90mm top	Unit Depth + 81mm
H	W	D	A	B	C	D	E	C*
1004	1002	330	1504	1502	580	1302	1094	411

Note:

Please refer to Pg. 3 for specifications regarding Vents and pg. 5 for Control Panel specifications.

C* Please refer to Pg. 11 for pictorial representation and specifications.

QUADRO 800 GLASS FRONTED

METAL FRAMING - CLADDING MATERIAL

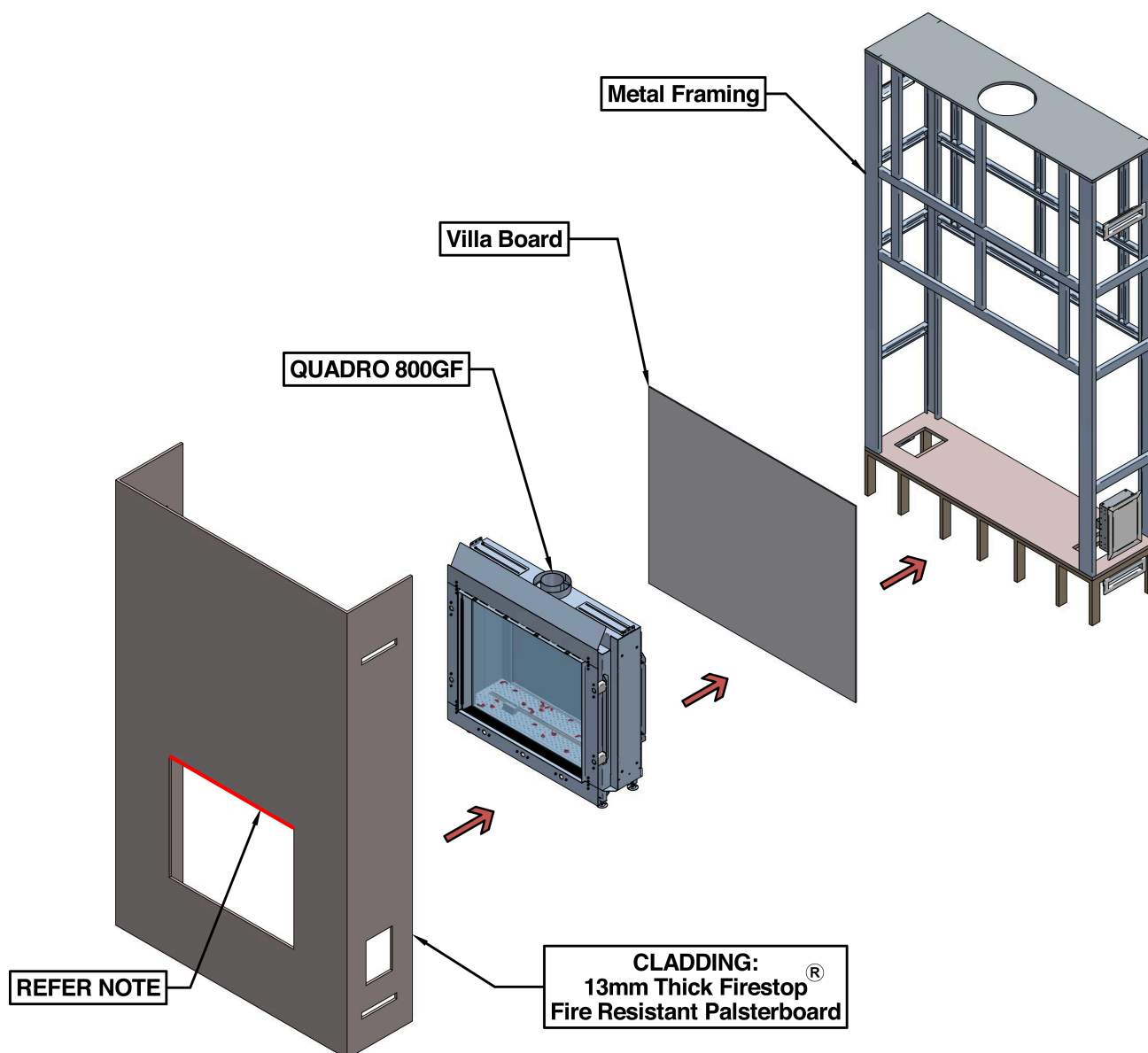


Figure 1.7 (Cladding Material)

Villa Board:

6mm Thick villa board of minimum spec of 1302 x 1094 (ref. only) to be secured to the metal batten rear to heater unit.

Note:

A gap of 5mm needs to be left between the plasterboard and the top part of the firebox.
9mm Villa Board can be used as an alternative approved cladding material.

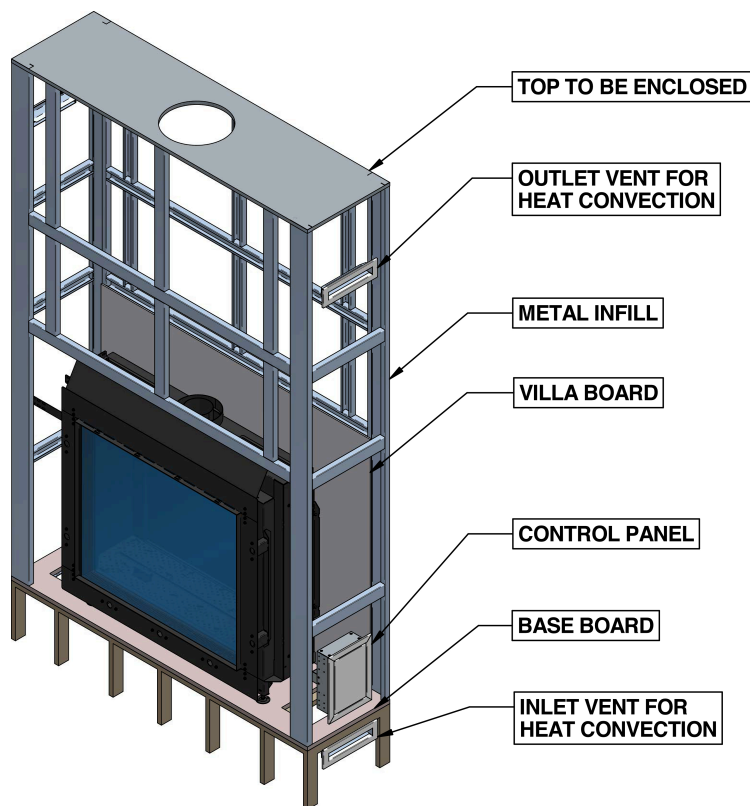
QUADRO 800 GLASS FRONTED

METAL FRAME

Metal framing part details; which includes control panel (x1), vent (x4), base board, villa board to back of the heater unit and metal infills.

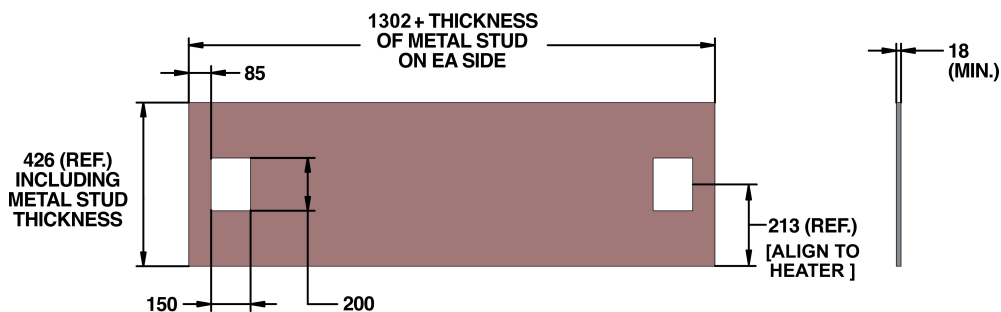
Cladding need to be build around the frame having the heater unit inside the cavity of the metal frame.

Please refer to Pg. 12 for specification to build the metal frame, dimensions specified are of minimum requirements.



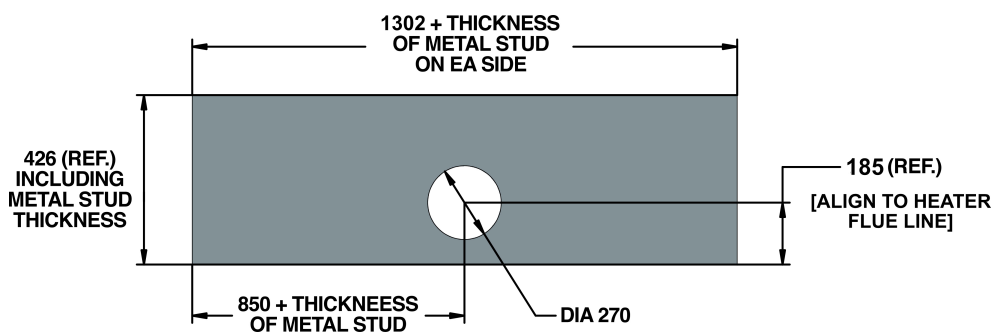
BASE BOARD:

Base board need to have minimum opening of 200x150mm on each side as specified, with minimum thickness of 18mm.



TOP ENCLOSURE:

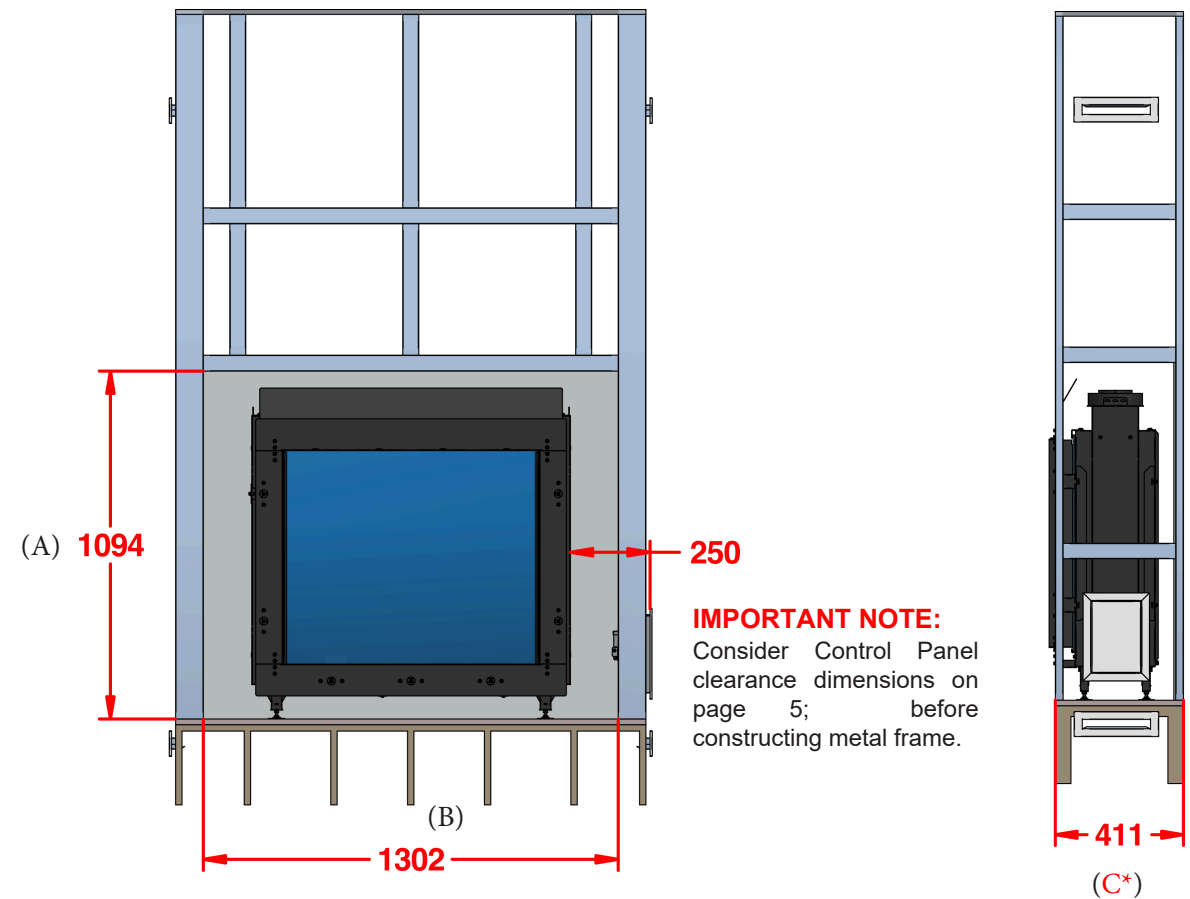
Top enclosure need to have opening of diameter 270mm in alignment for flue line as specified.



QUADRO 800 GLASS FRONTED

METAL FRAME

Figure 1.8 (Metal framing)



CLEARANCE TO COMBUSTIBLES

Fireplace Dimensions			Metal Stud Frame		
In mm			FOR METAL STUD FRAME, UNIT MUST BE IN PLACE		
			Clearance to the inside of the metal stud		
			Unit Height +90mm top	Unit Width +150mm either side to internal side of metal stud	Depth Clearance Metal Studs fixed to rear combustible wall. 25mm Steel Battens fixed to combustible wall +6mm Villa Board +50mm air gap to unit
H	W	D	A	B	C*
1004	1002	330	1094	1302	411

Important:

Unit needs to be in place while building into metal studs. Otherwise the measurements must be bigger. The clearances to combustibles is 500mm to the top of the unit and 250mm on either side.

Note:

Please refer to Pg. 2 for specifications regarding Vents and pg. 4 for Control Panel specifications.

QUADRO 800 TUNNEL

TIMBER FRAME

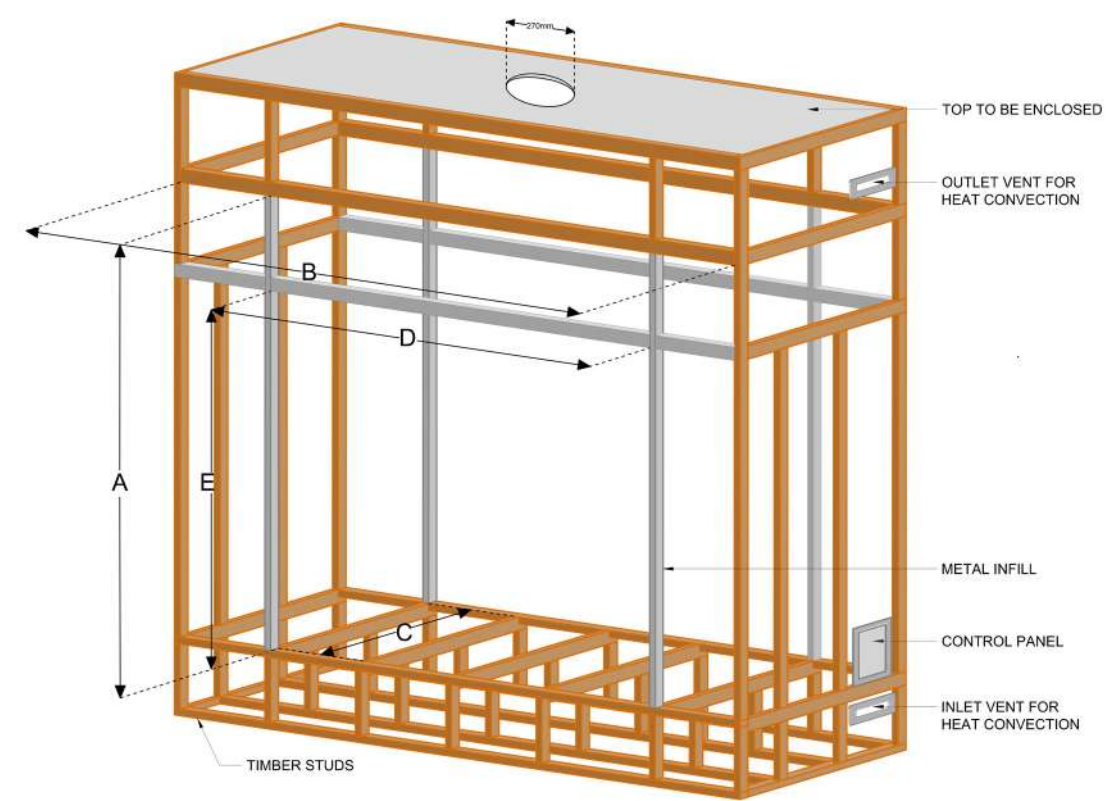


Figure 1.8 (Timber framing)

CLEARANCE TO COMBUSTIBLES

Fireplace Dimensions			Timber Frame			Metal Studs Infills to be installed after Unit is in place (Clearance between unit and metal stud infill)		Option for smaller depth clearance: Metal Studs fixed to rear combustible wall. 25mm Steel Battens fixed to combustible wall +6mm Villa Board + 50mm air gap to unit
In mm			Clearance to Combustibles in mm			Installation dimensions in mm		
			Unit Height +500mm top	Unit Width +250mm each side	Unit Depth +250mm to back	Unit Width +50mm either side	Unit Height +150mm top	Unit Depth + 81mm
H	W	D	A	B	C	D	E	C*
990	1005	385	1490	1505	N/A	1105	1140	466

Note:

Please refer to Pg. 3 for specifications regarding Vents and pg. 5 for Control Panel specifications.

QUADRO 800 TUNNEL

METAL FRAME

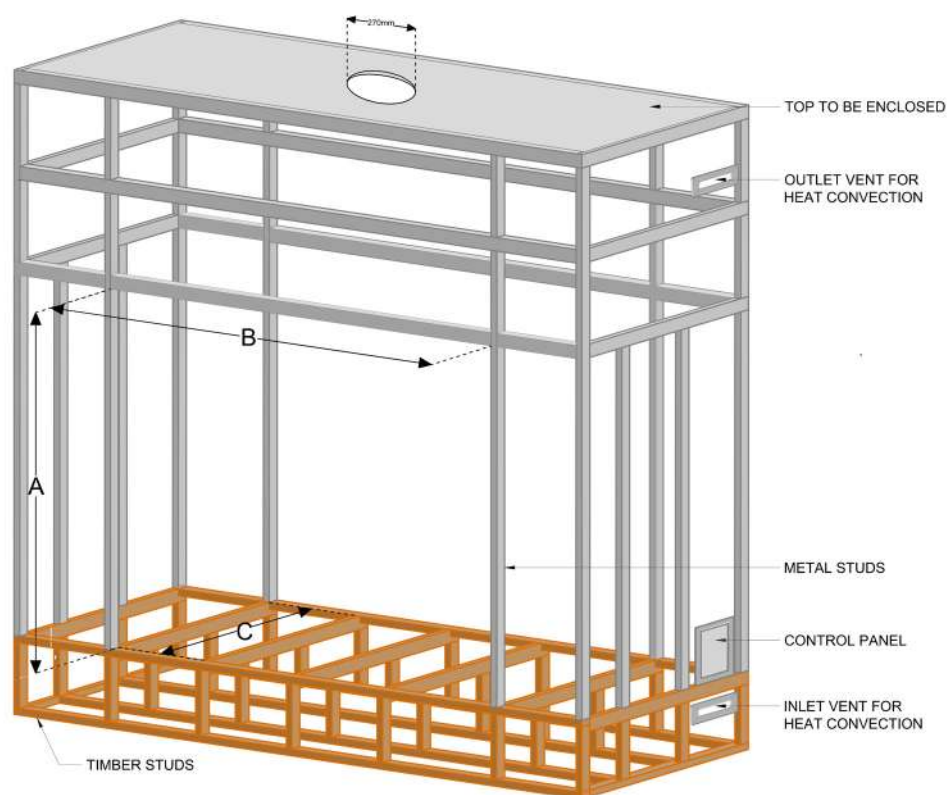


Figure 1.9 (Metal framing)

CLEARANCE TO COMBUSTIBLES

Fireplace Dimensions			Metal Stud Frame		
In mm			FOR METAL STUD FRAME, UNIT MUST BE IN PLACE		
			Clearance to the inside of the metal stud		
			Unit Height +50mm top	Unit Width +150mm either side to internal side of metal stud	Depth Clearance Metal Studs fixed to rear combustible wall. 25mm Steel Battens fixed to combustible wall +6mm Villa Board +50mm air gap to unit
H	W	D	A	B	C
990	1005	385	1040	1305	466

Important:

Unit needs to be in place while building into metal studs. Otherwise the measurements must be bigger.
The clearances to combustibles is 500mm to the top of the unit and 250mm on either side.

Note:

Please refer to Pg. 2 for specifications regarding Vents and pg. 4 for Control Panel specifications.

QUADRO 800 TECHNICAL DATA SUMMARY

MODEL TYPE	QUADRO EIGHT HUNDRED GLASS FRONTED (G800 GF)	
MODEL TYPE	QUADRO EIGHT HUNDRED TUNNEL (G800 T)	
GAS TYPE	NATURAL GAS	UNIVERSAL LPG
MODEL NUMBER	G800	
TYPE NUMBER	AS-4	
GAS CONSUMPTION - HIGH (MJ/HR)	31	28
GAS CONSUMPTION - LOW (MJ/HR)	19	24
BURNER PRESSURE - HIGH (Kpa)	0.7	2.4
BURNER PRESSURE - LOW (Kpa)	0.3	1.8
NUMBER OF BURNERS	1	
LARGE BURNER	1	
SMALL BURNER	NIL	
INJECTOR (BRAY TYPE) MULTIPOINT	1.25	0.55

INSTALLATION CHECK LIST

This page lists the most important checks which are to be undertaken when installing the Living Fire space heater. Please read this manual before installing and using this space heater.

- ☐ **Issue of the Certificate of Compliance.** At concluding the proper installation, the *Authorised Person* must complete the Certificate of Compliance inclusive of the serial number and provide to the end user.
- ☐ **Electrical supply.** An approved 240V AC wall socket in parallel with an isolation switch needs to be provided. The receiver module is powered by the AC adaptor. Four AA 1.5V batteries may be inserted into the receiver for short term usage or in the event of a power outage.
- ☐ **Log media.** When installing the logs ensure to use only the log media supplied with the heater. Always keep the pilot area free from media.
- ☐ **Enclosing the heater.** Only a non-combustible external façade/surrounding of the timber/steel frame should be constructed with USG Boral Firestop 13 mm thick fire-resistant plasterboard. As an alternative, 9 mm Villaboard may be used.
- ☐ **Framing.** The dimensions (clearances) are different between metal and timber framing. Know which material you are using and be observant of the framing requirement refer to pages 8 to 11 this manual.
- ☐ **Ventilation requirements.** The ventilation ducts must be installed into the external façade before commissioning the heater. The heater is provided with four vents each with an opening of 218 mm x 30 mm (each vent is equal to 66cm²). Depending on the location of the control hatch the vents are to be located in the side or in the front of the external façade. Refer pages 13 of this manual.
For efficient heat distribution. The lower vents import cool air into the heater enclosure and initiate the natural convection cycle. As the air within the enclosure is warmed by the heater it rises and exits through the upper vents located below the ceiling. As this warm air cools, it migrates toward the floor where it is drawn into the lower vents and the cycle repeats. The ventilation ducts are part of the heater installation and cannot be blocked. Alternative vents can be used as long as the total open area of 264cm² is maintained. Minimum height of the vent should not be less than 10 mm.
The top of the enclosure to be sealed. Depending on the open area of the enclosure, to capture and utilise the heat coming off the heater, a partition around the heater may need to be constructed observing the clearances to combustibles. The overhead clearance to be not less than 500 mm. The clearance around the outer surface of the flue pipe to maintain a clearance of 50 mm to any material over the first section (900 mm) of flue then maintain a clearance of 25 mm.

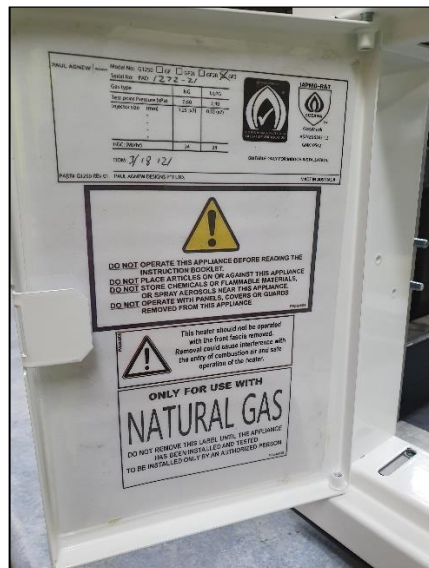
INSTALLATION CHECK LIST

- ☐ **Clearances to combustibles.** Overhead clearance to combustibles is 500 mm. Side clearance to combustibles is 250 mm. Rear clearance to combustibles is 250 mm. Ensure all nominated clearances are complied with. Failure to follow these instructions could cause a malfunction of the heater which could result in death, and/or serious bodily injury, and/or property damage. Failure to follow these instructions may also void your fire insurance and/or warranty. For the clearance detail refer to pages 8 to 11 this manual.
- ☐ Ensure the physical installation is complete including the flue installation before commissioning the heater.
- ☐ **Inner and outer panel finishing trims.** Depending on the model of the heater the inner ceramic panel (closure for the firebox) and the outer toughened glass panel are provided with finishing side frame/s, side trim/s and glazing grill/s. DO NOT discard or lose these components.
- ☐ **Gas pressures.** Ensure the gas leakage (pressure) test is carried out before commissioning the heater. The gas pressure HI flame 0.7 kPa and LO flame 0.3 kPa are factory set but during commissioning MUST be checked with a manometer and confirmed. At the time of setting the HI flame pressure the inlet was set at the minimum pressure of 1.13 kPa. For **LPG** the gas pressure HI flame 2.40 kPa and LO flame 1.80 kPa with a minimum gas inlet of 2.75 kPa.
- ☐ **Models with multiple ceramic/glass panels.** During installation ensure there are no gaps between the side and front panels. If a gap is present the flame will become translucent and may display lifting or floating. The ceramic/glass panels must be placed securely into their receiving channel/clamp and the polished edge surfaces must abut.
- ☐ **Finishing.** On removing or replacing the ceramic/glass panels wear the gloves provided. Ensure the region where the suction pad is applied is cleaned to remove any marks or smears. All surfaces must be cleaned before commissioning the heater.
- ☐ **Transit Packaging.** Removal of transit packaging. Packaging materials are manufactured from recyclable materials. Do not dispose of the packaging materials together with domestic or other wastes. Take them to the material collection points designated by the local authority.
- ☐ **If applying a finished fascia** to the Villa Board / Firestop cladding material maintain a minimum clearance between the cladding surface and the rear of the finished fascia material of 5 mm. This gap between material/s will prevent direct heat transference onto the finished fascia.
The finished fascia material can be any form of stonework marble, granite or other.

If you have any problems carrying out any of the tasks above or if the heater operation is not satisfactory, contact Living Fire on 99 777 888.

INSTALLATION INSTRUCTIONS

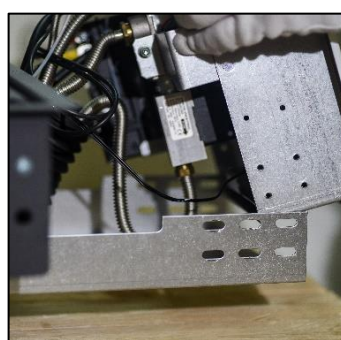
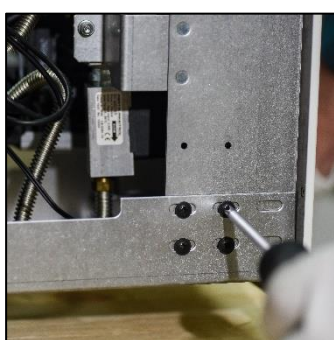
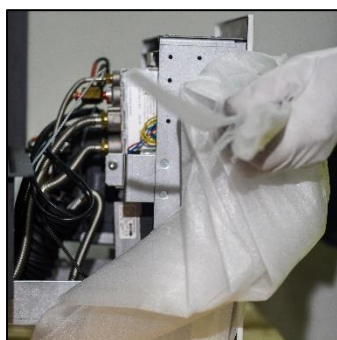
Before commencing installation, confirm that the details on the heater data label correspond to the local distribution conditions, gas type and pressure for which the heater is to be installed. The data label (and other essential labelling) is adhered to the rear of the door of the control hatch.



Removal of control hatch from the transit bracket

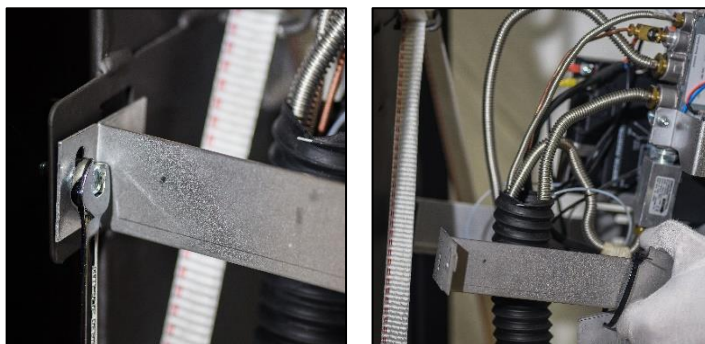
Step 1: Remove the protective material from around the control hatch.

There are four transit screws (each side) securing the control hatch to the transit bracket. With a Phillips head screwdriver remove the 4 screws LH/RH side securing the control hatch to the transit bracket. Before, removing the last screw, support the bottom of the control hatch, remove the last screw, and lay the control hatch on the protective material to protect against damage to the powder coating.



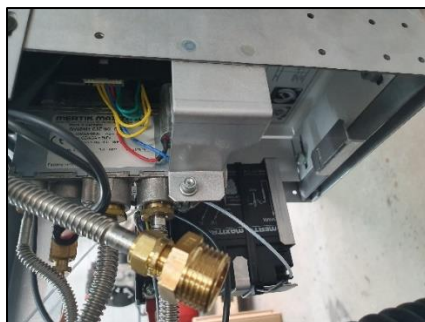
INSTALLATION INSTRUCTIONS

Step 2: There are two bolts on each side securing the transit bracket to the chassis. With a 10 mm spanner or 10 mm nutsert remove the bolts from the bracket and discard.



Ensure that the gas supply and supply pipe is capable of delivering the required volume and pressure of gas and is in accordance with AS/NZS 5601.1.

1.1 Gas connection. This heater has a gas inlet connection of 1/2" **BSP (15mm)** with a flat for spanner engagement. The gas inlet connection is accessible via the control hatch. The length of the flexi-tube terminating with the gas inlet connection is 400 mm. The fitment of a gas isolation valve prior to the gas inlet connection is recommended. Prior to connecting the gas inlet supply ensure the gas line is purged. With the control hatch surround in position and the hatch door removed – secured hatch surround flange onto the front face of the enclosure. The gas inlet connection is accessible below the gas control. Connect the incoming gas supply line onto the 1/2" **BSP (15mm)** fitting whilst engaging a spanner onto the inlet connection flat. When the connection has been made check for gas tightness.



1.2 Gas (leakage) tightness check

With the heater gas valve in the 'OFF' position, check for leakage using a calibrated gas leak detector or by brushing a solution of detergent and water on to the gas connection point, isolation valve and connection at all points of the gas control. Repeat the leakage check with the heater operating. If bubbling is evident (may take up to 30 seconds to appear) this indicates a gas leak is present. If a leak is present disassembling, cleaning, reassembling, and tightening the connection does not rectify the leak you should isolate the gas supply and consult LIVING FIRE for assistance.

WARNING: YOU MUST NEVER USE A NAKED FLAME TO TEST FOR GAS LEAKS.

INSTALLATION INSTRUCTIONS

1.3 Heater location

The heater is room sealed appliance and the appliance stands on appropriate support legs. A hearth is not required for this heater. The heater when installed needs to be ventilated maintaining an opening giving a minimum total free vent area of 264cm². Refer the page 13 this manual.

The heater has adjustable support legs. These legs must be set to the desired height before the flue position is finalised. Do not make any adjustments to the heater, except the leg height. The flue over the first 900 mm must maintain a minimum clearance of **50 mm** between the outer flue surface and any surrounding combustible materials.

The gross weight of the heater is 75 kg. The heater is located within the timber or steel frame and **MUST NOT** be screwed or secured to the frame in any manner. The heater during the heating cycle is to have some flexibility to counter-react to the expansion forces due to heat. If the heater is secured to the surrounding frame, the top of the heater may distort.

Building the enclosure to house the heater

Construct the studwork for the enclosure to the desired clearances. Minimum clearances are nominated refer pages 8 to 11 this manual.

Any combustible material used to construct the enclosure must not be closer than the minimum dimensions nominated refer pages 8 to 11 this manual.

These dimensions **must** be observed or a fire may result. Do not use insulating material (or other) to pack the void around or above the heater. Provide ventilation to the minimum dimensions as referred page 13 this manual.

If applying a finished fascia to the Villa Board / Firestop cladding material maintain a minimum clearance between the cladding surface and the rear of the finished fascia material of 5 mm. This gap between material/s will prevent direct heat transference onto the finished fascia. The finished fascia material can be any form of stonework marble, granite or other.

Installation of the control hatch in the RH/LH side enclosure;

Provide a cut-out for the control hatch in the RH/LH enclosure with dimensions of 175 mm wide x 282 mm high and 150 mm from the base (floor). The 150 mm dimension from the floor is to allow the ventilation duct to be installed beneath the control hatch.

Installation of the control hatch in the RH/LH front enclosure;

If the control hatch is installed in the front enclosure RH/LH side then the control hatch is installed 50 mm from the base (floor) and the ventilation ducts can be installed centre line or, in the RH/LH enclosure as referred pages 8 to 11 this manual.

If the control hatch is installed in the front enclosure RH/LH side the heater supporting feet need to rest on a platform that will allow the control hatch housing to be located beneath the bottom of the window frame. A measurement of 395 mm from the base (floor) to the underside of the bottom window lip must be maintained.

Fitment of the control hatch

The control hatch is in two parts, control hatch surround and control hatch door.

The control hatch enclosure is inclusive of the brackets which secures the gas control and module.

INSTALLATION INSTRUCTIONS

Control hatch enclosure



Provide a cut-out for the control hatch surround in the RH/LH side enclosure with dimensions of 175 mm wide x 282 mm high and 150 mm from the base (floor) or, the front enclosure RH/LH side then the control hatch is installed 50 mm from the base (floor).

Feed the top flange of the control hatch surround through the cut-out and when positioned vertically, secure the top flange to the RH enclosure with the two screws provided.

Fit the control hatch door and secure with the four thumb screws (tighten via 5mm Allan key) provided.

Control hatch door four x captured threads (2 on the base and 1 in the upper section) for thumb screws.



If a shelf is to be fitted above the heater opening, a gap of 300 mm minimum must be maintained between the heater opening and the shelf.

The heater MUST be installed ONLY by an Authorised (licenced/registered plumber) Person. The appliance (heater) shall be installed in accordance with the manufacturer's installation instructions, local gas fitting regulation, municipal building codes, electrical wiring regulations and AS/NZS 5601.1 (Gas installations). **DO NOT INSTALL INTO A FIREPLACE.**

The data label for the heater is located **REAR OF THE CONTROL HATCH DOOR.**

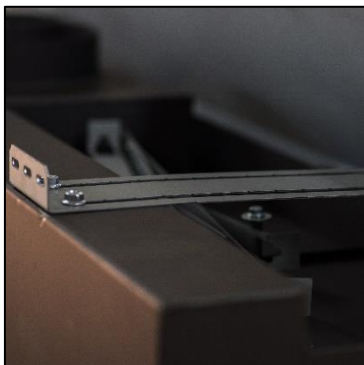
Fitment/adjustment of spacer brackets.

The heater is supplied with stand-off spacers to comply with all clearances required from combustible material. Note the metal framework to maintain a clearance of no less than 50 mm overhead clearance and 150 mm from the sides. The top stand-off spacers maintain a clearance of **500 mm from any overhead material.**

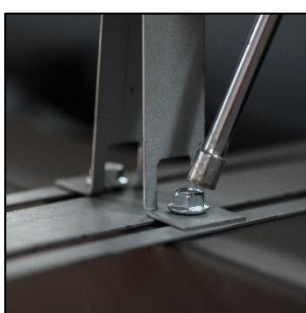
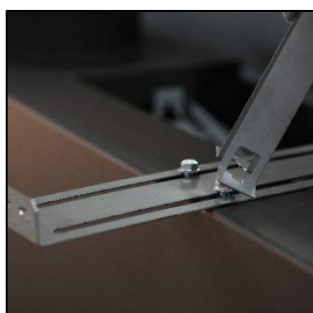
The rear stand-off spacers maintain a clearance of **250 mm from combustible materials.** The side stand-off spacers maintain a clearance of **250 mm from combustible materials.**

INSTALLATION INSTRUCTIONS

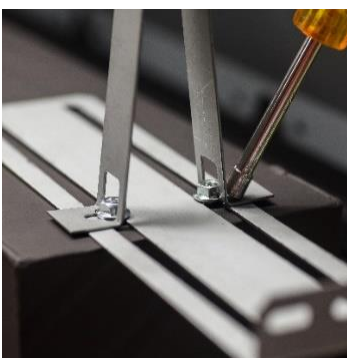
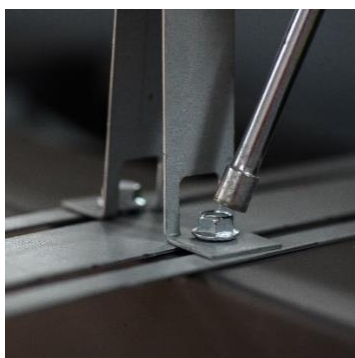
The spacer brackets when adjusted maintains a gap between the carcass of the heater and any surrounding materials. Rear and side spacers are factory fitted (refer below images)



Step 1: The top (x2) spacers are supplied separately. To fit the top spacer/s slacken the two bolts retaining the rear spacers. Adjust the rear spacers to the length to maintain the desired clearance i.e., 250 mm or 50 mm. The 250 mm measurement is for clearance to **combustible** materials. The 50 mm clearance is for **non-combustible** materials in accordance with a 50 mm clearance from the rear of the appliance + USG Boral Firestop 13 mm thick fire-resistant plasterboard 13 mm + 25 mm steel batten before any combustible wall/stud. Refer pages 8 to 11 this manual.



Step 2: With the top spacer in the vertical position insert the bottom flange of the top spacer onto the slackened off bolt head and tighten. Repeat so there are 2 x rear spacers and 2 x top spacers in position.



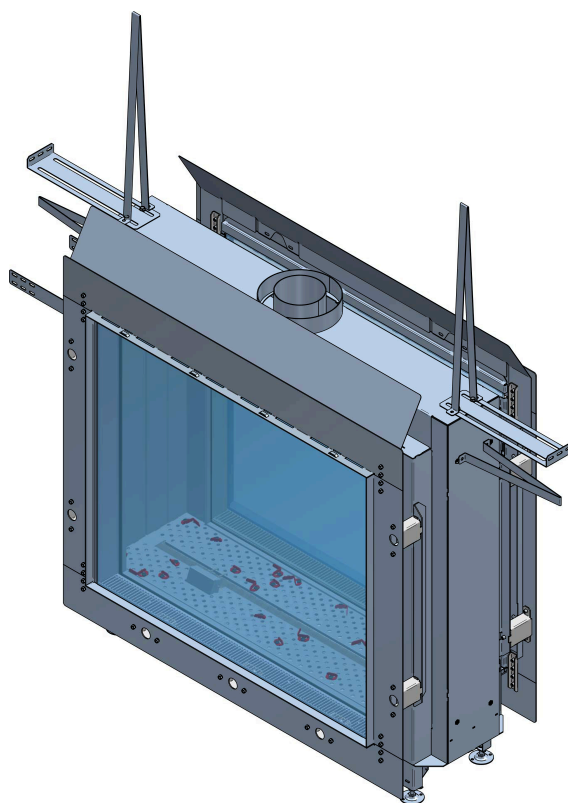
INSTALLATION INSTRUCTIONS

Step 3: To adjust the side spacer/s slacken the two bolts retaining the side spacers. Adjust the side spacers to the length to maintain the desired clearance 250 mm.



PLEASE NOTE the rear stand-off spacers are factory fitted (unadjusted) but the top and side stand-off spacers **MUST** be attached to the heater before proceeding with the installation. For fitment details refer to below detail note image below is for reference only. For the specified clearances **refer page 8 to 11** this manual.

The top spacer/s maintain 500 mm clearance from overhead material.



Built-in construction

Construct a studwork fireplace to the desired sizes, minimum sizes are shown in the **Specification** sheet supplied as an extension to this manual.

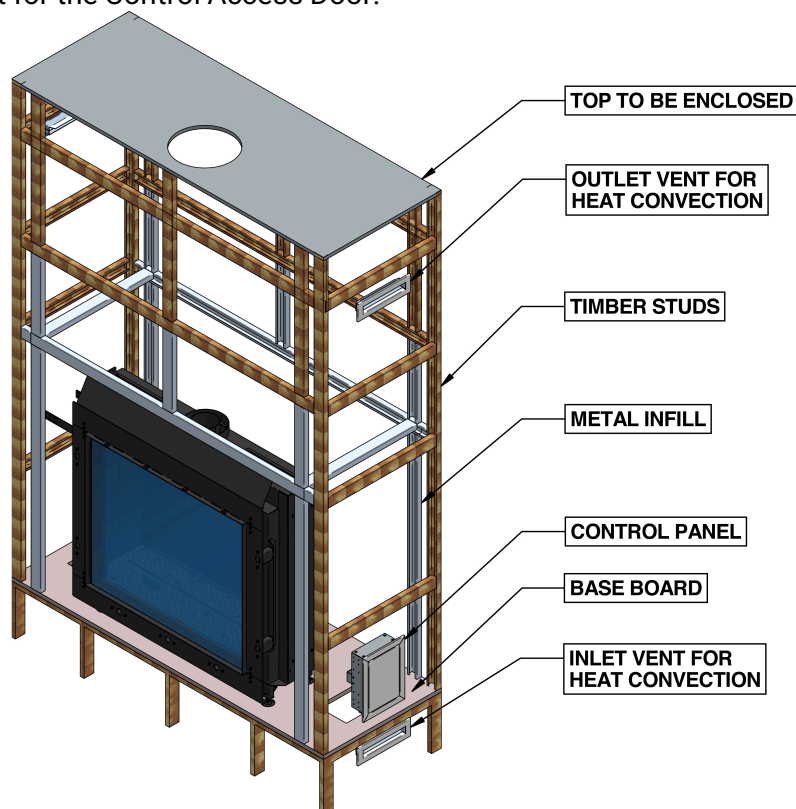
Any combustible material used to construct the Fireplace must not be closer than the minimum dimensions quoted in this manual.

These dimensions must be observed even if the framework will be protected by non-combustible material.

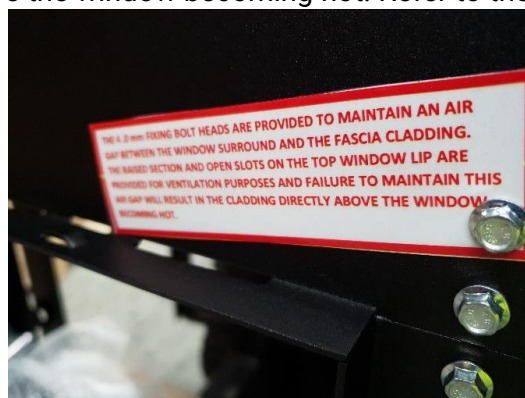
Do not use insulation material (or other) to pack the void around or above the appliance.

Provide ventilation from the fireplace to the minimum nominated page 13 this manual.

Provide a cut-out for the Control Access Door.



Note the 4.0 mm fixing bolt heads are provided to maintain an air gap between the window surround and the fascia cladding. The raised section and open slots on the top window frame lip are provided for ventilation purposes and failure to maintain this air gap will result in the cladding directly above the window becoming hot. Refer to the image below.



REGULATORY LOCATIONS

REGULATORY COWL LOCATIONS

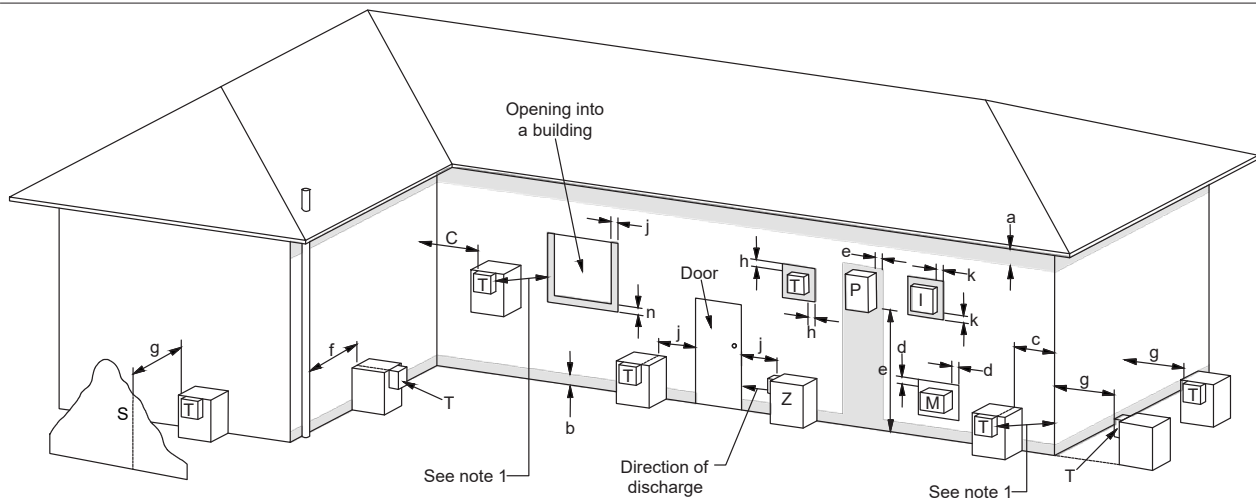


Figure 2.0 (Location of flue terminals of balanced flue, room-sealed, fan-assisted or outdoor appliances)

Ref.	Item	Minimum clearances mm	
		Natural draught	Fan assisted
a	Below eaves, balconies and other projections:		
	For appliances up to 50MJ/h input	300	200
	For appliances over 50MJ/h input	500	300
b	From the ground, above a balcony or other surface*	300	300
c	From a return wall or external cober*	500	300
d	From a gas meter (M) (see Note 5) (see Clause 5.11.5.9 for vent terminal location of regulator) (see Table 6.7 for New Zealand requirements)	1000	1000
e	From an electricity meter or fuse box (P)• (see Note 5)	500	500
f	From a drain pipe or soil pipe	150	75
g	Horizontally from any building structure* or obstruction facing a terminal	500	500
h	From any other flue terminal, cowl, or combustion air intake*	500	300
j	Horizontally from an openable window, door, non-mechanical air inlet, or any other opening inot a building with exception of sub-floor ventilation:		
	Appliances up to 150 MJ/h input*	500	300
	Appliances over 150 MJ/h input up to 200 MJ/h input*	1500	300
	Appliances over 200 MJ/h input up to 250 MJ/h input*	1500	500
	Appliances over 250 MJ/h input*	1500	1500
k	All fan-assisted appliances, in the direction of discharge	-	1500
n	From a mechanical air inlet, including a spa blower	1500	1500
	Vertically below an openable window, non-mechanical air inlet, or any other opening inot a building with the exception of sub-floor ventilation:		
	For space heaters up to 50 MJ/h input	150	150
	For other appliances up to 50 MJ/h input	500	500
	For appliances over 50 MJ/h input and up to 150MJ/h input	1000	1000
	For appliances over 150 Mj/h input	1500	1500

Legend:

I = Mechanical air inlet
 M = Gas meter
 P = Electricity meter or fuse box
 S = Structure
 T = Flue terminal
 Z = Fan-assisted appliance only
 Shading indicates prohibited area for flue terminals

Notes:

- 1) Where dimensions c, j, k cannot be achieved an equivalent horizontal distance measured diagonally from the nearest discharge point of the terminal to the opening may be deemed by the Technical Regulator to comply.
- 2) See Clause 6.9.4 for restrictions on a flue terminal under a covered area.
- 3) See Figure J3 (from AS/NZS 5601) for minimum clearances required from a flue terminal to an LPG Gas cylinder. A flue terminal is considered to be a source of ignition.
- 4) For minimum clearances not addressed above acceptance should be obtained from the Technical Regulator.
- 5) Minimum clearances d and e also apply to any combustion air intake openings of appliances.

* Unless appliance is certified for closer installation
 • Prohibited area below electricity meter or fuse box extends to ground level

Built-in construction

The heater MUST be installed ONLY by an Authorised (licenced/registered plumber) Person.

This heater shall be installed in accordance with the manufacturer's installation instructions, local gas fitting regulations, municipal building codes and AS/NZS 5601.1 (Gas Installations).

DO NOT INSTALL INTO A FIREPLACE

This heater is supplied with stand-off brackets to ensure adequate spacing from surroundings are observed; after installation do not remove. Please dispose of packaging accordingly. Keep away from children. Before connecting the heater, check whether the local connection conditions (type of gas) are compatible with the heater settings. The connection specifications for the heater are on the data label located rear of the control hatch door.

Warning:

Fire hazard is an extreme if clearance requirements to combustible materials are not adhered to.

Clearances. For the required minimum clearances refer to pages 8 to 11 this manual. Ensure the minimum clearances to combustible materials are maintained during installation, including adequate space for proper operation and servicing of the heater. It is the responsibility of the end user to check the installation clearances of any electrical appliances that may be mounted above the heater. Minimum ceiling height of 2.0m above top of heater.

Fluing to atmosphere.

The coaxial flue terminal can be utilized for both a horizontal and a vertical flue installation. The system is based on a concentric flue system which utilises an inner flue of 104 mm diameter and an outer flue of 170 mm diameter. These concentric flues terminate outside of the property.

The heaters in this manual are balanced flue units that use a co-axial venting flue system. The outer vent conducts fresh air (outside air) into the heater's firebox for the combustion process and the inner vent expels the (products of combustion) exhaust gases outside. This fluing system can be operated vertically terminating through the roof or horizontally through a side wall.

The flue must be fitted with a clearance around the outer surface of the flue pipe to maintain a clearance of 50 mm to any material over the first section (900 mm) of flue then maintain a clearance of 25 mm after the first 900 mm of flue pipe.

- The terminal will keep the combustion gases and the fresh air for combustion separate. It is important that the terminal is not blocked. A suitable guard may be required if the terminal is located at a "low level" (usually when the terminal is within 2.0m of floor level). The appliance must not be fitted against a rear wall constructed from a combustible material – a gap of 250 mm must be maintained from the rear of the heater carcass and the rear combustible wall – this will be determined by fitting the rear stand-offs. If the appliance is located within a combustible construction then the construction must have adequate ventilation. The minimum total vent area is 264cm².
- Only the flue components listed below are approved for use when installing the PAD series Gas Space Heaters.
- For every 305 mm of horizontal flue run, the flue must rise 6.5 mm toward the termination. The flue should never run downward.
- When ever flue passes through a wall, an approved heat shield maintaining the prescribed clearances must be used.

Built-in construction

Flue Components for Installing PAD series Gas Space Heaters. Manufacturer: DuraVent

Flue component	Part Number
Termination cap	46DVA-VCH
900 mm flue length	46DVA-36
600 mm flue length	46DVA-24
300 mm flue length	46DVA-12
150 mm flue length	46DVA-06
90° elbow	46DVA-E90
45° elbow	46DVA-445

The flue is coaxial with the first flue duct section inserted into the heater spigot with this spigot measuring 104mm (exhaust outlet) and 174 mm (fresh air inlet). All flue lengths are capable of being inserted into the heater spigot

The first flue duct section inserted into the heater spigot with measurements of O.D. 102 mm x 170 mm.



The “socket” end of the flue duct measures O.D. 111 mm x 164 mm.



Line up the locking ends on the male / female flue sections and insert the male end of the flue into the female end. Twist to lock. If securing the joints with rivet/s or screw/s do not penetrate the inner wall of the flue pipe.

Built-in construction

90° elbow



45° bend



Elbows and bends create resistance within the venting configuration, and they must be included when determining the minimum and maximum fluing lengths. There must be an absolute minimum vertical rise of 600 mm before any elbow but preferably a vertical rise of 900 mm is recommended. Maintain the maximum length of straight flue between elbows or bends.

The use of a 90° elbow is equal to 0.5 metres in flue length and the 45° bend is equal to 0.25 metres in flue length i.e., if one 90° elbow is used then the total maximum flue length is reduced to 5.5 metres.

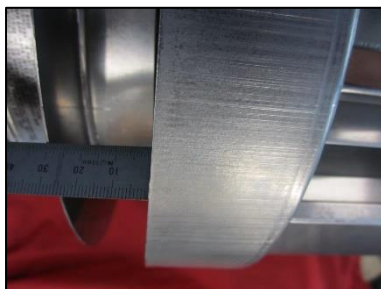
No more than two (2) 90° elbows or four (4) 45° bends can be used in the flue configuration.

Termination cap. The same basic termination (cowl) cap is used for both vertical and horizontal installations.

For the vertical installation the terminal is fitted with a wind guard. For horizontal installation the terminal is not fitted with a wind guard.



For both vertical and horizontal installations the termination cap is supplied with a fixed collar located 30 mm down from the hood. Note: **THIS TERMINAL MUST ALWAYS VENT DIRECTLY TO OUTDOORS.**



Built-in construction

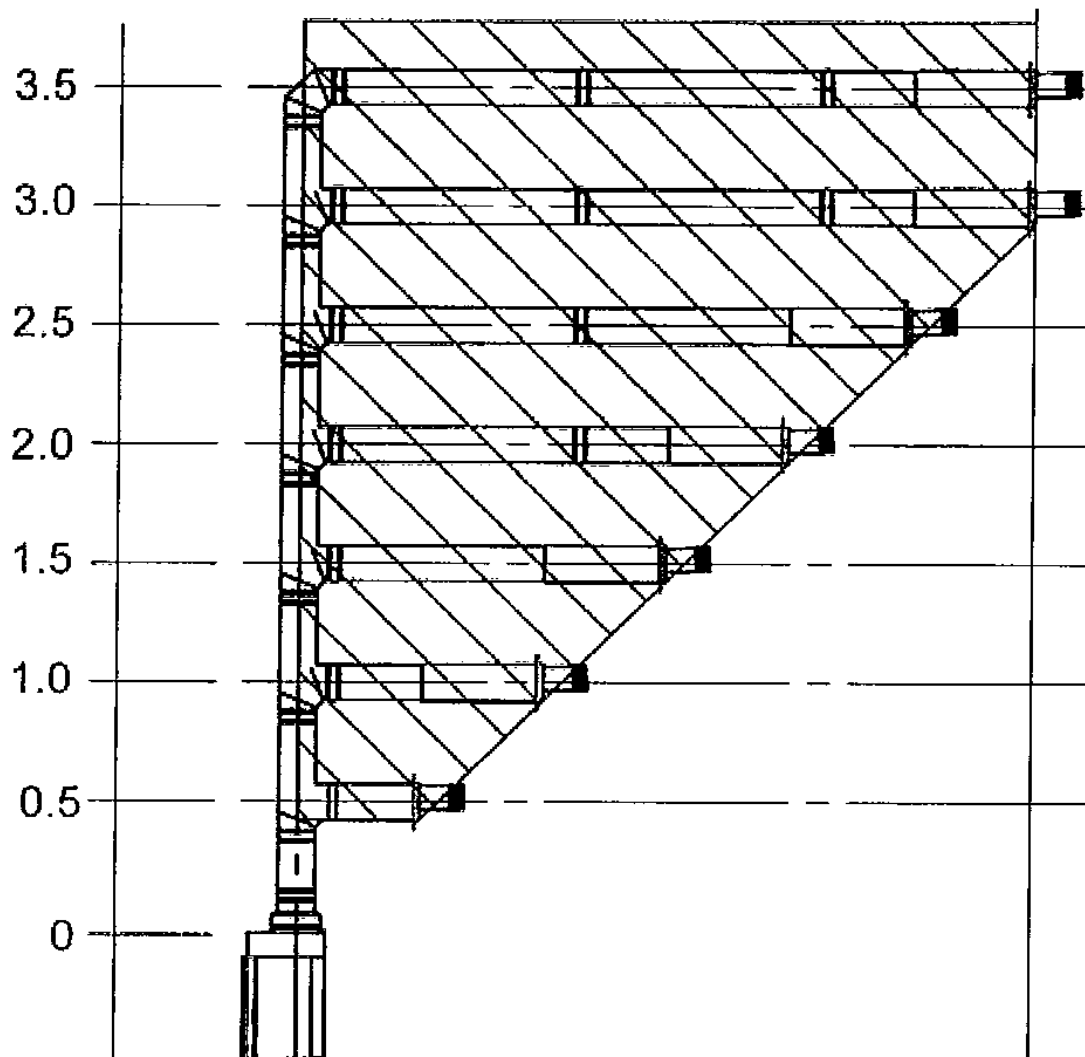
Termination heights for terminal (cowls) above the roof line refer AS/NZS 5601.1:2013.

Flue Length Calculations

Maximum permissible run (H) – 6.0m

Maximum permissible run (H + V) <6.0m

V (metres)



H (metres)

INSTALLER INFORMATION

INSTALLING THE CONTROLS

Motor Installation

This procedure is to be followed for the installation of the Motor Unit, which must be fitted to use all remote control options, except the Fully Electronic Ignition System which has the motor built in.

Remove the retaining screw, (Figure 1) and by using the blade of a small screwdriver, pry off the



Figure 1

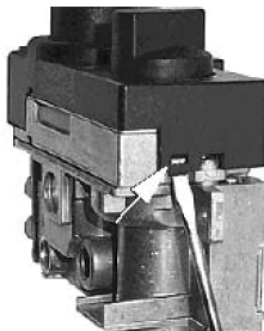


Figure 2



Figure 3

cover (opposite end of the cover to the screw) (Figure 2).

Turn the geared knob fully counter clockwise to the end stop position. Place the motor unit into position as shown in Figure 3. The motor should fit into location and sit in

place with the gear mating with the teeth of the geared knob.

Replace the Plastic cover and replace the retaining screw (without the metal sleeve around the screw), this retains both the cover and the motor.

The Control valve is now ready to be fitted with

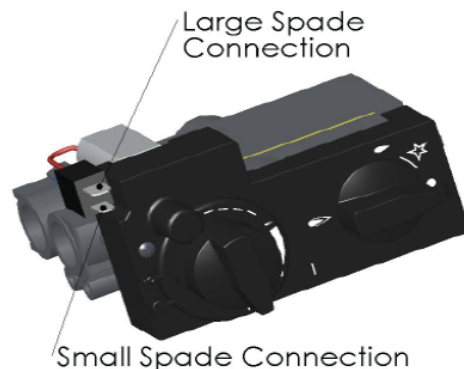
the simple up/down control system.

Simple Version Up and Lower control only

This requires no external electrical power to op-



erate. The receiver unit has a unit that has only one lead. This lead has two plugs (of different



sizes), these will plug into the two spade plugs on the front of the Gas Control unit.

Install the batteries into the receiver and the handset, these will be 4 x 1,5V AA alkaline and 9V PP3 alkaline respectively.

This Receiver/Handset works using sound waves, and as such no direct line of sight is required between the two items. Provided that the distance between the receiver and handset is less than 10m, the system will work.

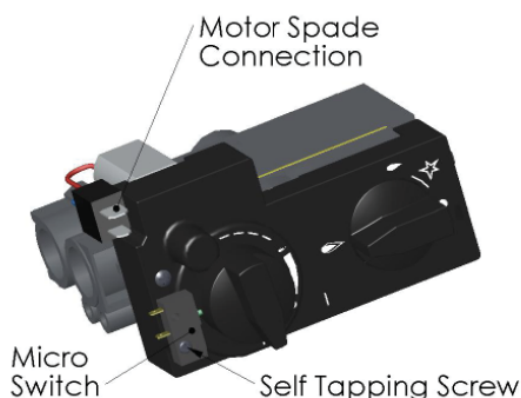
The receiver unit can be hidden away under or behind the stove, ensure that the receiver is located in an area that has a temperature below 60°C, and that the customer knows where the

INSTALLER INFORMATION CONTD.

receiver is for future battery replacement.
Check the system.

Micro Switch Installation

This procedure is to be followed for the installation of the Micro Switch required for the "Climate



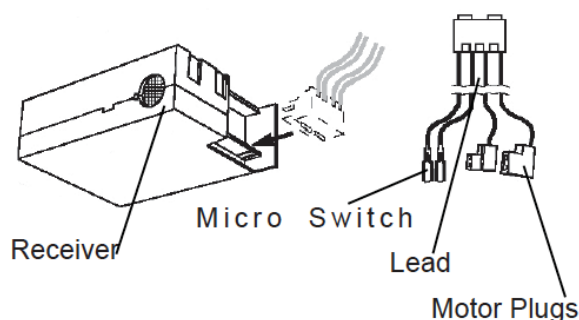
Control System", the micro switch not being required for the "Simple" version.

The Micro Switch fits onto the Plastic Cover of the valve, sitting on a location lug moulded into the cover a self tapping screw is provided to fix the switch in location.

Assuming the motor has already been fitted, as shown above, the Control valve is now ready to be fitted with the Climate Control System .

Climate Control System

This requires no external electrical power to



operate. The receiver unit has a unit that has only one lead. This lead has four plugs (two larger plugs of different sizes and two plugs the same size). The two larger plugs fit onto the two spade plugs on the top of the Gas Control unit, the orientation of these plugs is important. The two smaller plugs fit on to the small spade connectors on the side of the control unit.

Install the batteries into the receiver and the handset; these will be 4 x 1,5V AA alkaline and 9V PP3 alkaline respectively.

This Receiver/Handset works using sound waves, and as such no direct line of sight is required between the two items. Provided that the distance between the receiver and handset is less than 10m, the system will work.

The receiver unit can be hidden away under or behind the stove, ensure that the receiver is located in an area that has a temperature below 60°C, and that the customer knows where the receiver is for future battery replacement.

Check the system.

Electronic Ignition System

This requires no external electrical power to operate. The receiver unit has a unit that has only one lead. This lead has one single plug. This plug fits into the connector block on the front of the Gas Control unit, the orientation of this plug is important. Install the batteries into the receiver and the handset; these will be 4 x 1,5V AA alkaline and 9V PP3 alkaline respectively. This Receiver/Handset works radio frequency, and as such no direct line of sight is required between the two items. Provided that the distance between the receiver and handset is less than 10m, the system will work.

The RF remote is preset to a unique code that, if necessary, can be easily changed in the remote

INSTALLER INFORMATION CONTD.

handset. A four position DIP switch enables any of 16 pre-selected codes. Pressing the switch on the receiver activates the new code. Ensure the receiver unit is located in an area that has a temperature below 60°C.



OUTER GLASS INSTALLATION

The outer glass panel is supplied and protected in bubble wrap. For the GF model there is one piece of outer toughened glass panel and one piece of inner Robax ceramic panel (dimensions of 700 x 796 mm x 4 mm thick) provided. For the T model there are two pieces of outer toughened glass panels and two pieces of inner Robax ceramic panel. Wearing the gloves provided remove the glass from the bubble wrap and locate in a safe place. Do not touch the glass with bare hands. Clean the front glass before installation. The glass suction pad and the gloves are located in the accessory carton.



OUTER GLASS INSTALLATION

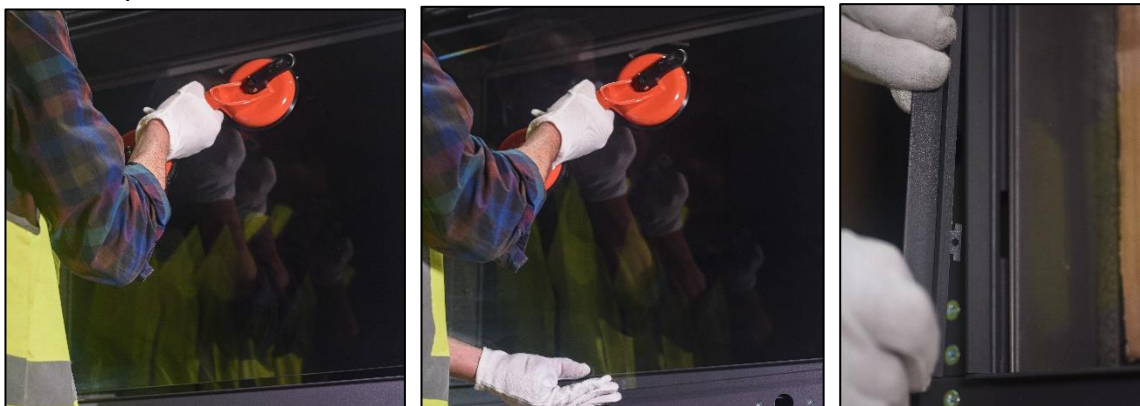
Step 1: Removing outer side trim. Grip the trim and apply an upward motion to disengage the securing tabs from the slots in the inner trim. When the tabs are clear of the slots, remove the outer trim both sides.



Step 2: Remove the outer glass panel from the bubble wrap. Lay the glass down horizontally on the supporting surface and apply the glass suction pad (provided) to the centre of the glass and engage.



Step 3: With the glass in the horizontal position. With one hand holding the glass pad and the other hand gripping the centre edge of the glass. Lift and proceed to locate onto the heater front. With the glass supported and with an upward motion feed the top edge of the glass under the top front fascia. When located fully into the top inner fascia swing the bottom of the glass into the bottom fascia and when in alignment, locate into the bottom supporting channel. Replace the outer side trim in reverse order.



REMOVAL OF OUTER GLASS PANEL

Remove the **outer** front glass.

Step 1: Wearing the gloves provided apply the glass suction pad (provided) to the centre of the glass and engage.

Step 2: Removing outer side trim. Grip the trim and apply an upward motion to disengage the securing tabs from the slots in the inner trim. When the tabs are clear of the slots, remove the outer trim both sides.



Step 3: With one hand holding the glass pad, with an upward motion lift the top of the glass until engaging with the top of the inner fascia. The bottom of the glass is now clear of the bottom supporting channel. Swing the bottom of the glass outward with one hand holding the glass pad and the other hand gripping the bottom centre edge of the glass.



Step 4: Lay the glass down on a protected surface and retain with the outer trims. lower front.
Note do not discard the outer trims with the packaging.

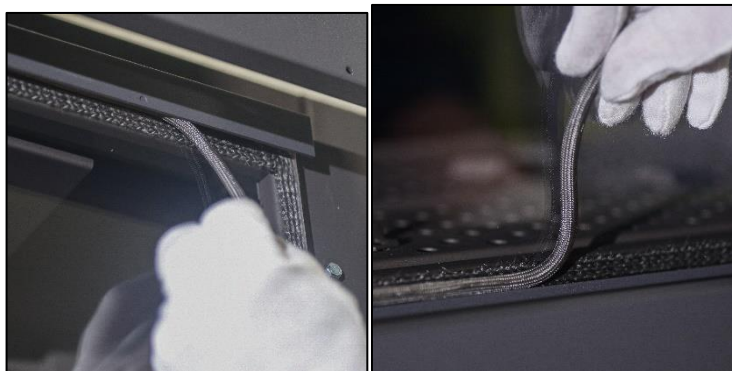
REMOVAL OF INNER GLASS PANEL

Remove the **inner** front glass panel.

Step 1: Remove the lower front grill which is located between the outer/inner glasses.

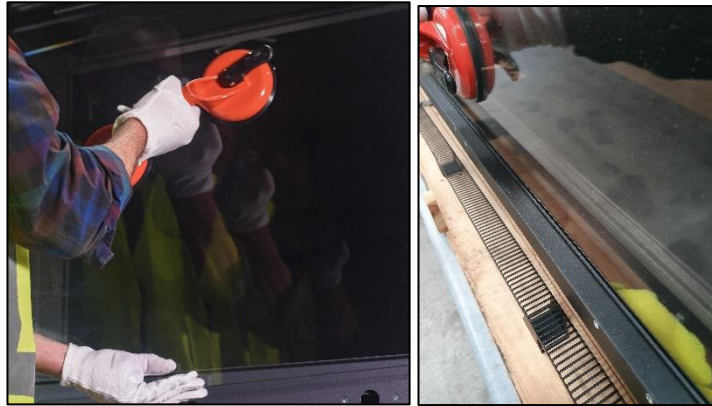


Step 2: The inner glass is secured into the top glass clamp and inner bottom supporting channel by rope seal. Grip the RH edge of the rope and apply downward motion to remove the rope from the top glass clamp. Repeat the same with the bottom supporting channel rope with an upward motion.



Apply the glass suction pad (provided) to the centre of the glass and engage. To protect the edge of the glass insert a couple of soft cloths into the cavity before removing the glass panel. With the glass supported and with an upward motion lift the top edge of the glass upward into the top front fascia. When located fully into the top inner fascia swing the bottom of the glass outward and downward and rest in the cavity vacant after the removal of the lower front grill. Remove the glass and retain in a safe place. Replace in reverse order. Note ensure the glass sealing rope is fully engaged into the channel.

REMOVAL OF INNER GLASS PANEL



Step 3:

Apply the glass suction pad (provided) to the centre of the glass and engage. To protect the edge of the glass insert a couple of soft cloths into the cavity before removing the glass panel.

With the glass supported and with an upward motion lift the top edge of the glass upward into the top front fascia. When located fully into the top inner fascia swing the bottom of the glass outward and downward and rest in the cavity vacant after the removal of the lower front grill.

Remove the glass and retain in a safe place. Replace in reverse order. Note ensure the glass sealing rope is fully engaged into the channel and ensure the surface where the suction pad was applied is cleaned to remove any marks or smears.

FUEL BED ARRANGEMENTS

When arranging the Media onto the grate, it is important that the pilot area is kept clear and that no media enters the Pilot shield. The pilot area includes the pilot shield and the top of the burner to the first slot inside the fence of the pilot shield.

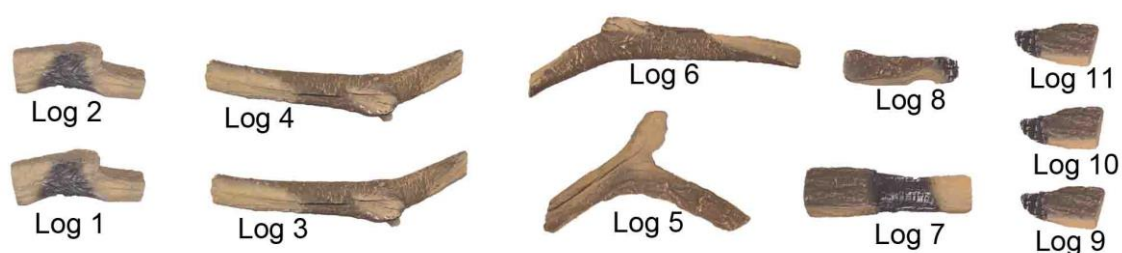
When commissioning or servicing the Appliance, Cross Lighting must be checked to ensure smooth lighting of the main burner from the Pilot Flame and smooth lighting of the effect burners from the main Burner.

Only the media supplied by Living Fire may be used in this appliance and when any replacement media is needed, the media should be sourced from Living Fire.

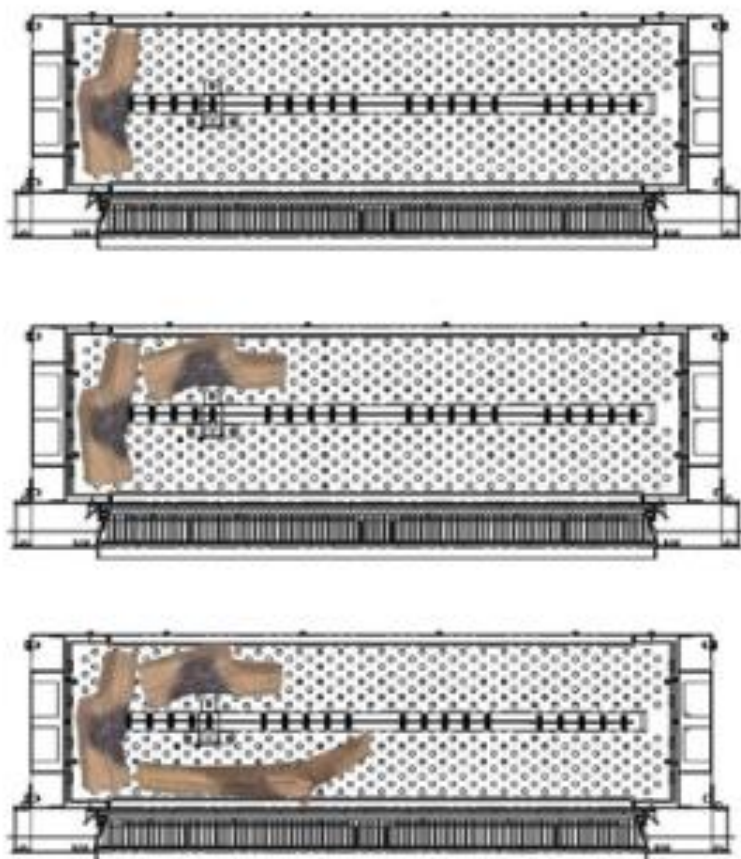
Stops and positioners are supplied on the grate to fix and hold the Logs in the correct location.

Fuel bed Layout G800

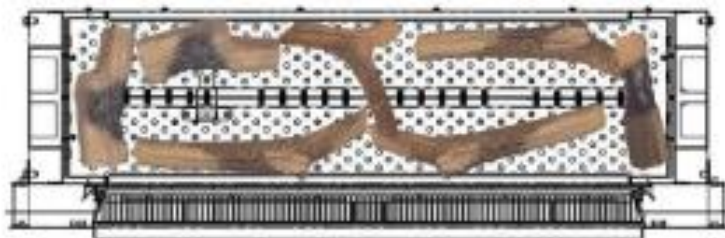
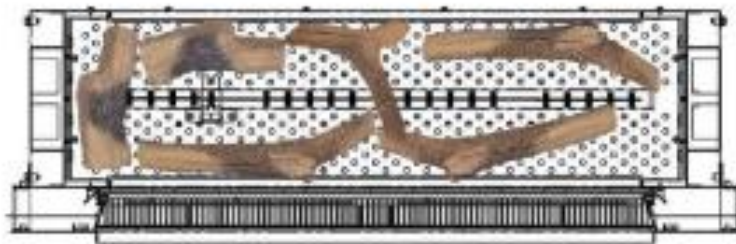
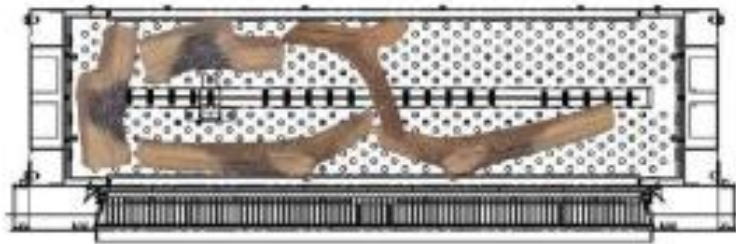
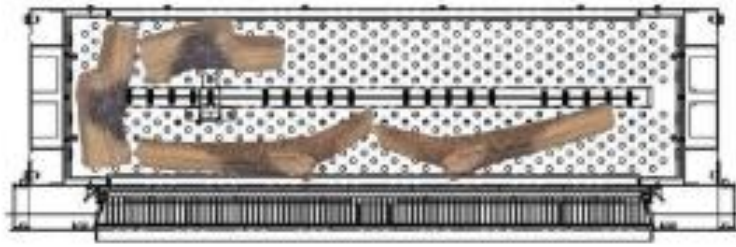
Log identification



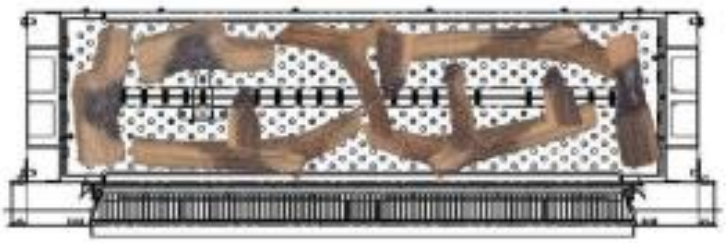
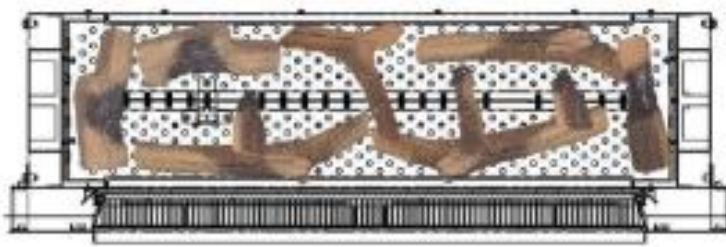
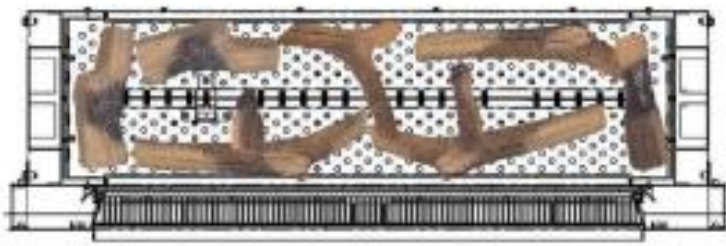
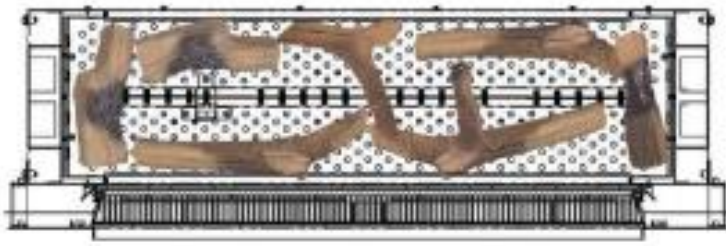
Place logs as shown below



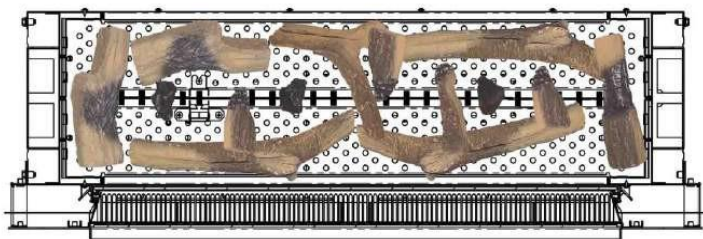
FUEL BED ARRANGEMENTS



FUEL BED ARRANGEMENTS

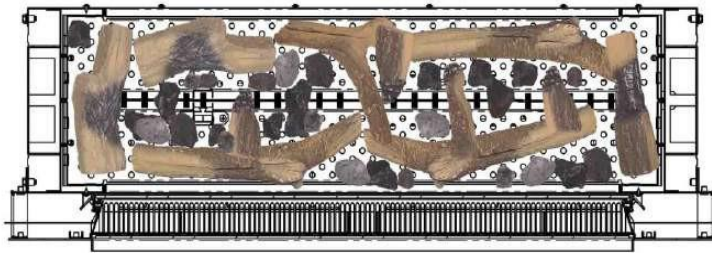


Place 5 embers on top of the Burner Tubes as shown below



FUEL BED ARRANGEMENTS

Evenly place the remaining Embers around the Grate area, but avoiding the Burner tubes, as shown below.



Finally, check that the Pilot is clear, with no Embers or debris in the Pilot area, and that the Pilot smoothly cross lights to the main burner.

MAIN BURNER CHECK

1. Ignite the pilot light as described in the User Instructions
2. Turn on the main burner as described in the User Instructions
3. Check that the pilot smoothly cross-lights to the main burner and that the main burner and pilot stay alight
4. Check the operation of the second "effect" burner as described in the User Instructions
5. Extinguish the appliance fully

Pressure check

Always check the inlet pressure and burner pressure.

Apparatus and tools needed to check the outlet gas valve gas pressures.

- 1 x Pressure manometer digital
- Flat (4 mm wide) bladed screw driver for adjusting * PTP
- Flat (2 mm wide) bladed screw driver for access to HI fire out (burner) pressure adjustment
- 4 mm Allen key for access to LO fire pressure adjustment

Pressure check with gas valve installed in the control hatch.

The Mertik GV 60 gas valve and receiver/ignition module are located in the control hatch. The GV 60 gas valve is secured into the control hatch housing via (a) a male tab inserted into a slot in the bottom mounting bracket and (b) a threaded rod with a head to accept a 4 mm Allen key ($\varnothing$ rear of gas valve) secured into a mounted bracket.



(a)



(b)

MAIN BURNER CHECK

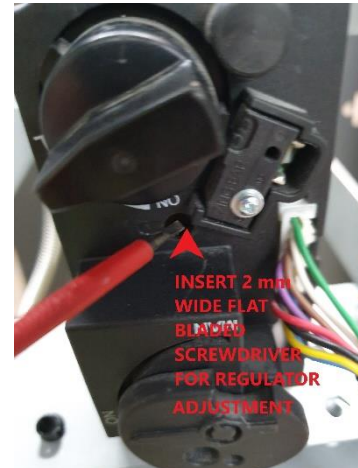


The pressure test points for the inlet and outlet (burner) pressure measurements are located at the top of the gas valve casing.

Loosen the screw counter clockwise on the outlet pressure test point on the gas valve and connect a manometer to the * PTP – refer above marked with the red arrow.

* PTP = pressure test point.

Inlet pressure test point.



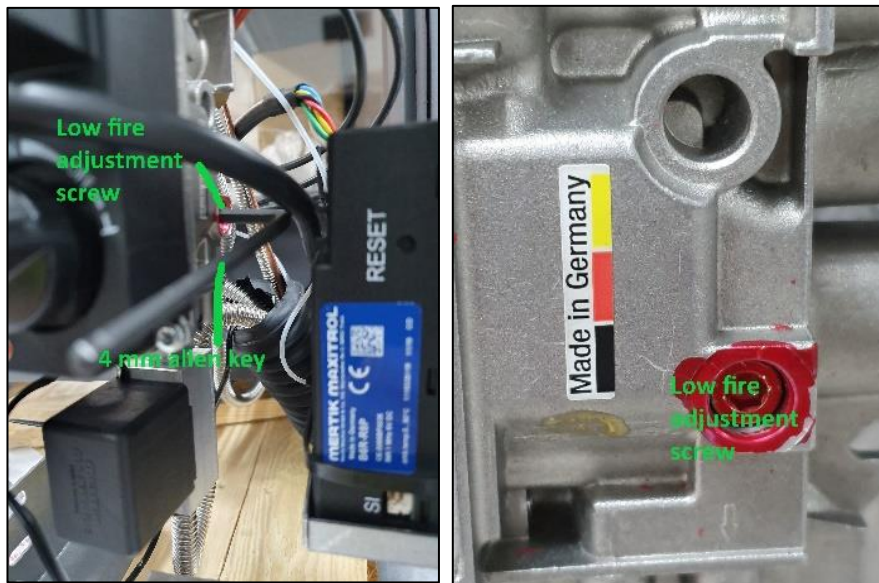
Access to HI fire regulator screw. If the pressure is more/less than the nominated pressure kPa adjust the regulator. Access to regulator refer below. Remove the plastic plug covering the regulator adjustment screw.

Insert the 2 mm wide flat bladed screwdriver and adjust the regulator **clockwise to increase and counter-clockwise to decrease** the pressure. Note if the regulator had been over adjusted it may take a few (10-12) rotations for the desired pressure to register.

Replace the plastic plug in reverse order.

With the full fire burner set turn the heater down to the low fire setting. If the pressure is more/less than the pressure kPa highlighted on page 12 of this manual adjust the regulator. Access to regulator refer below. The regulator adjustment for low fire is located below the pressure test points identified by the red paint. Insert the 4 mm Allen key and adjust the **regulator counter clockwise to increase the pressure and clockwise to decrease** the pressure. Note this is opposite in rotation to the high fire adjustment. The regulator injector is factory set and is fully (clockwise) closed.

MAIN BURNER CHECK



When the pressure register's 0.3 kPa turn to high fire and check the high fire has not deviated from 0.7 kPa. Disconnect the manometer from the inlet pressure point and tighten the screw. After checking the pressures and removing the manometers, the screws in the Pressure Test points must be closed, and the system must be checked for gas-tightness.

AFTER THE HEATER HAS BEEN INSTALLED AND COMMISSIONED.

- Ignite the burner and ensure smooth cross-lighting from the pilot
- Ensure the flame is stable
- Ensure no flame abnormalities such as lifting or floating
- Turn the burner from high to low and return to high. Flame ignition and reduction to low should be smooth
- Ensure the flue is working effectively
- Instruct the end user in the operation of the heater before leaving

If any abnormalities are evident and the heater cannot be adjusted to perform correctly contact Living Fire. Contact details page 6 of the manual.

SERVICING

DO NOT MODIFY THIS APPLIANCE

Service only to be carried out by an authorised person.

Turn the appliance OFF and isolate the gas supply. Ensure the appliance is fully cold before attempting to start servicing the appliance. No liability can be accepted by Living Fire for injury caused by burning or scolding by a hot appliance.

A suggested procedure for servicing is listed below.

- A. Lay out dust sheet on flooring, mask off any special fireplace materials.
- B. Remove Outer Glazing Panel
- C. Remove Bottom Window Trim
- D. Remove Inner Window Panel
- E. Carefully remove the Ceramic components (including Embers) or Gravels
- F. Use a Vacuum cleaner to clean the top of the burners and grate
- G. Remove Grate
- H. Using a vacuum cleaner, fully clean both Burner Top.
- I. Use the vacuum cleaner and a soft brush to clean the pilot assembly and Injectors.
Never modify or bend the Thermocouple
- J. Turn on the gas supply and check for leaks, check the burners and Pilot for good condition and operation
- K. Replace Grate
- L. Replace the Fire bed arrangements
- M. Replace Window Assemblies and Trims
- N. Check the flue system and terminal, making sure that the terminal vent is fully clear
- O. Light the appliance and test setting pressures
- P. Check the safe operation of the appliance.

TROUBLESHOOTING FLOW CHART

FUNCTION				POSSIBLE CAUSE	REMEDY
A. Press the ON button to start ignition sequence. Beep will occur each second.	No			Transmitter batteries low.	Replace transmitter batteries. Quality alkaline recommended.
				Receiver batteries low.	Test the batteries, replace if necessary. Quality 1.5V AA alkaline recommended. Note: Do NOT connect an AC adapter when using receiver batteries.
Yes ↓				Check that transmitter and receiver are synchronised.	Reset system, see the installation manual or the label on the receiver. One long beep indicates the wiring is incorrect or the code learning sequence has failed.
				Transmitter distance is limited.	Straighten the antenna.
					Replace the receiver.
				Defective AC adapter.	Replace the AC adapter.
				Damaged wiring.	Inspect/test all wiring and connections.
B. Magnet unit is energized thus producing an obvious latching sound.	No	No beep		Impulse magnet not operating properly.	Replace gas valve.
	No	3 short beeps		Receiver batteries low.	Test the batteries, replace if necessary. Quality 1.5V AA alkaline recommended.
	No	1 long beep		8-wire cable is off or not operating properly.	Confirm proper operation of the 8-wire cable.
				SW-cable disconnected.	Confirm proper connection/operation of the SW-cable.
				Motor not operating properly.	Replace gas valve.
Yes ↓					
(continued)					

TROUBLESHOOTING FLOW CHART

FUNCTION			POSSIBLE CAUSE	REMEDY
C. Spark will occur each second.	No		Ignition components not operating properly.	Check connection between ignition cable and ignitor rod.
				Check ignitor rod spark gap.
				Check ignitor rod.
				Check ignition cable for damage.
				Increase distance between ignition cable and all metal parts.
	No		Ignition sequence stops, no pilot flame. No reaction to remote control command.	Reset system, see the installation manual or the label on the receiver.
				Do not coil the ignition cable.
				Shorten the ignition cable, if possible.
	No		Ignition sequence stops, no pilot flame. Transmitter command is possible.	Test the batteries, replace if necessary. Quality 1.5V AA alkaline recommended.
Yes				
D. Pilot lit.	No		TC- and SW-cable reversed.	Check cable connection between receiver and interrupter block.
			Magnet unit not operating properly.	Replace gas valve.
			Short between interrupter and SW cable.	Check interrupter block connection.
			No gas (magnet unit drops after 30 second audible count.)	Check gas supply.
			Spark not lighting the pilot.	Check spark is crossing pilot orifice.
			Cracked ignitor rod (spark heard but not seen)	Ensure that ignitor rod does not move within ceramic shield. Check that ignition wire is not defective.
E. Sparkling stops after pilot is lit.	No		Short between interrupter block and TC-cable.	Check connection to interrupter block.
			Electronic measuring amplifier defective.	Replace the receiver.
Yes				

TROUBLESHOOTING FLOW CHART

FUNCTION			POSSIBLE CAUSE	REMEDY
F. Motor turns to main gas and pilot stays lit.	No		Resistance in thermocouple circuit too high.	Check thermocouple circuit.
	Magnet unit drops (audible sound)		Not enough heat on thermocouple.	Check position of pilot to thermocouple. Check the stability and intensity of pilot flame. Ensure that the pilot flame is properly adjusted. Possible cold start. Wait one minute and retry.
			Low voltage from thermocouple.	Replace thermocouple. Do not tighten hand tight plus 1/4 turn maximum.
			No gas (magnet unit drops after 30 second audible count.)	Check gas supply.
	No		Broken receiver.	Ensure powered/unpowered receiver allows manual operation.
	No		Ignition sequence stops. No reaction to remote control comand.	Reset system, see the installation manual or the label on the receiver. Don not coil the ignition
Yes				
G. Main burner is lit.	No		Manual knob is in the 'MAN' position.	Turn the control knob to "ON" position, a positive latch is required.
				Confirm correct gas pressure, increase pilot flame if

TROUBLESHOOTING FLOW CHART

FUNCTION			POSSIBLE CAUSE	REMEDY
H. Main burner stays lit.	No	System 'drops out'- all flames immediately go out	Too much draft at pilot flame (poor flame impingement of primary thermocouple)	Check flue installation.
			Pilot assembly out of order.	Inspect pilot assembly for correct operation and thermocouple impingement.
	No	System goes to pilot flame only.	6 hours of no motor movement.	In Manual/Temperature/Timer modes the valve turns down to pilot only if the flame height does not change for a 6 hour period. In Temperature/Timer modes if the ambient room temperature changes, the flame height will adjust automatically to maintain the set temperature and the fire will continue to function normally. The valve will turn to pilot flame if the set temperature and the ambient temperature remain the same over a 6 hour period.
Yes				
I. Magnet unit drops while motor turns. Receiver makes 3 beeps.	Yes		Receiver batteries low.	Test the batteries, replace if necessary. Quality 1.5V AA alkaline recommended.
			Ensure magnet unit is operating normally.	Test the receiver output to the magnet unit.

TROUBLESHOOTING FLOW CHART

FUNCTION				POSSIBLE CAUSE	REMEDY
J. Flames become thin, blue, wispy then go out.	Yes	→		Exhaust has dark emissions.	Inspect fluing damage and/or incorrect installation.
				Flow of fresh air/and or exhaust is blocked.	Ensure that vent configuration is within the vent chart requirements.
				LP gas being used with NG injector(s)	Check termination for blockage and/or appropriate type. Ensure the gas type is correct for the installed orifices.
No					
K. Flames are very yellow with dark, sooty tips.	Yes	→		The primary air shutter is closed when using LP gas.	When using LP gas the air shutter must be fully open. See conversion instructions.
				Flow of fresh air and/or exhaust is blocked.	Ensure that the flue configuration is within the vent chart requirements.
					Check termination for blockage and/or appropriate type.
No					
L. Flames are very busy and blowing in an abnormal direction.	Yes	→		Air leak in the firebox.	Check unit for leaks at glass corners or at gaskets.
					Check unit for positive relief door seal.
					Check venting for complete integrity.
No					
M. Flames are stable but too small and blue.	Yes	→		Too much primary air.	Reduce the primary air opening until flames have the base and the yellow upper two-thirds.
No					

CLEANING THE CERAMICS

Remove the ceramics in reverse order as detailed in the layout diagram/s.

Gently clean the ceramics in the open air, using a soft brush and a vacuum cleaner. Where necessary replace damaged components only with genuine Living Fire specified parts. Seal any scrap ceramics in plastic bags and dispose at proper refuse sites. When using a vacuum cleaner, it is recommended that one with a HEPA filtering system is used.

Re-fit the Fire bed arrangement, re-seal the appliance and check the safe operation of the appliance.

For customer/technical service contact;

Living Fire (distributors of the Aerion PAD series heaters)

361 Swan Street

Richmond, Victoria 3121

Office: (03) 99 777 888

SPECIFICATIONS

G800 Product Specifications					
Model Name:			PAD G800 GF /T		
Description of Appliance			Direct Vent (Balanced Flue) Gas		
Approval No.			IAPMO GMK10542		
Gas Type			Natural	Propane	ULPG
Gas Input	MJ/hr	High	31	28	28
		Low	19	24	24
Supply Pressure	kPa	Max.	5.00	5.00	5.00
		Min.	1.13	2.75	2.75
Operating Pressure (High)	kPa		0.7	2.40	2.40
Operating Pressure (Low)	kPa		0.3	1.80	1.80
Injector Diameter (Bray type multipul orifice)			1.25 x 7	0.55 x 7	0.55 x 7
Pilot Marking			27	19	19
Gas Connection			1/2" BSP male on inlet tube		
Flue Type			DuraVent O.D. 104 x 170 mm		

PAUL AGNEW DESIGNS
MODEL No: PAD G800 ☐ GF ☐ T
SERIAL No:

Gas type	NG	ULPG
Test point Pressure (kPa)	0.70	2.40
Injector size (mm)	1.25 (x7)	0.55 (x7)
HGC (MJ/hr)	31	28

DOM: / /

DO NOT REMOVE

AUSTRALIA AND NEW ZEALAND GAS SAFETY CERTIFICATION

IAPMO-R&T

AS/NZS 5263.1.3
GMK10542

SUITABLE ONLY FOR INDOOR INSTALLATION.

Part #G800 rev 01 PAUL AGNEW DESIGNS PTY LTD.
MANUFACTURED IN AUSTRALIA.

REMOTE CONTROL INSTRUCTIONS

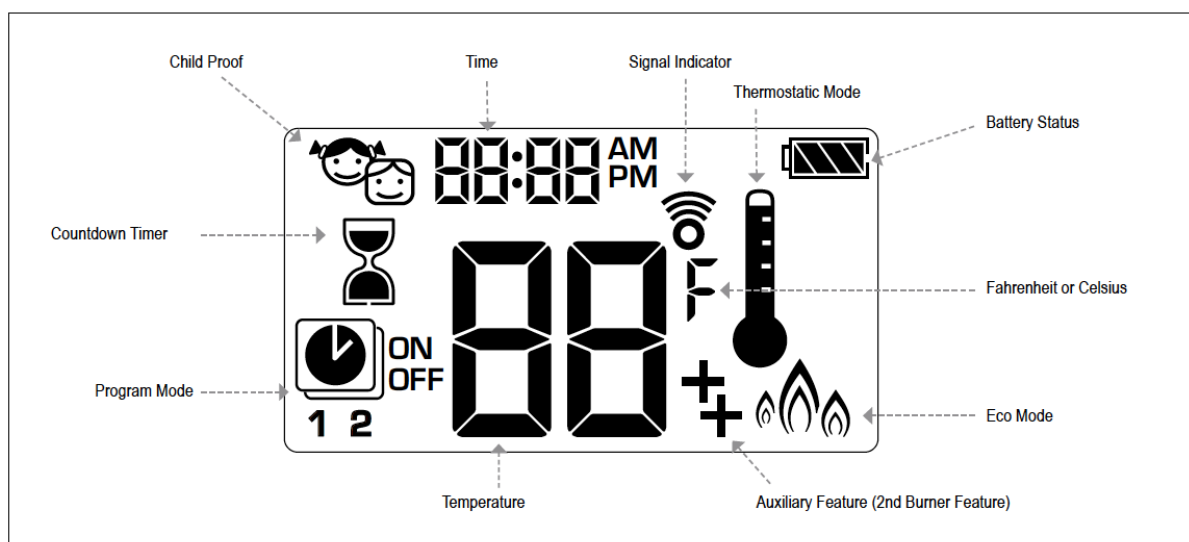
This is a one button ignition to activate press



HOW TO USE YOUR APPLIANCE 2. OPERATING YOUR APPLIANCE



8-SYMBOL OPERATION



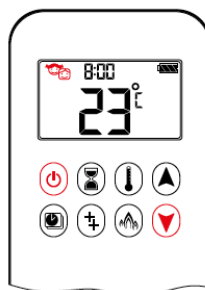
SETTING FAHRENHEIT OR CELSIUS



To change between °C and °F, press and buttons simultaneously.

NOTE: Choosing °F results in a 12 hour clock. Choosing °C results in a 24 hour clock.

CHILD PROOF



ON:
To activate press and buttons simultaneously. displayed and the handset is rendered inoperable, except for the OFF function.

OFF:
To deactivate press and buttons simultaneously. disappears.

SETTING THE TIME



1. Press and buttons simultaneously. **Day** flashes.
2. Press or button to select a number to correspond with the day of the week (e.g. 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday).
3. Press and buttons simultaneously. **Hour** flashes.
4. To select hour press or button.
5. Press and buttons simultaneously. **Minutes** flash.
6. To select minutes press or button.
7. To confirm press and buttons simultaneously or wait.

REMOTE CONTROL INSTRUCTIONS

HOW TO USE YOUR APPLIANCE 2. OPERATING YOUR APPLIANCE



MANUAL MODE (HANDSET)

NOTICE

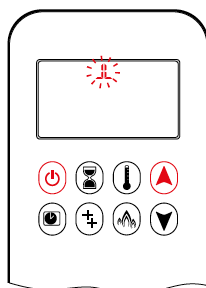
BEFORE OPERATING

1. Make sure MANUAL knob on the GV60 valve is in the **ON**, full counterclockwise position.
2. Place the ON/OFF switch (if equipped) in the **I (ON)** position.

TO TURN ON FIRE

⚠ WARNING

When pilot ignition is confirmed, motor turns automatically to maximum flame height.



- Press button (One Button Ignition) or and button simultaneously (Two Button Ignition) until two short beeps and a blinking series of lines confirms the start sequence has begun; release button(s).
- Main gas flows once pilot ignition is confirmed.
- Handset automatically goes into Manual Mode after main burner ignition.

⚠ WARNING

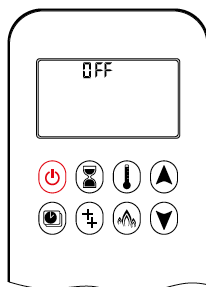
If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions "TO TURN OFF GAS TO APPLIANCE" (see page 10).

STANDBY MODE (PILOT FLAME)

Handset

- Press and hold button to set appliance to pilot flame.

TO TURN OFF FIRE

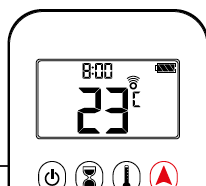


Handset

- Press button to turn OFF.

NOTE: A new ignition is possible after the OFF icon stops flashing.

FLAME HEIGHT ADJUSTMENT

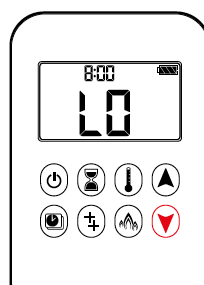


Handset

- To increase flame height press and hold button.
- To decrease flame height or to set appliance to pilot flame, press and hold button.

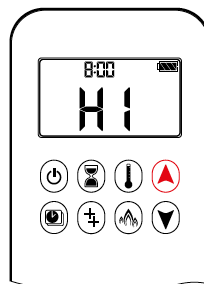
DESIGNATED LOW FIRE AND HIGH FIRE

NOTE: Backlight must be ON for high fire and low fire double-click operation.



- To go to low fire, double-click button. **LO** is displayed.

NOTE: Flame goes to high fire first before going to low fire.

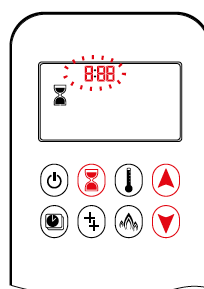


- To go to high fire, double-click button. **H I** is displayed.

⚠ WARNING

If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE" (see page 10).

COUNTDOWN TIMER



ON/SETTING:

1. Press and hold button until displayed, and **hour** flashes.
2. To select hour press or button.
3. To confirm press button. **Minutes** flash.
4. To select minutes press or button.
5. To confirm press button or wait.

OFF:

Press button, and Countdown Time disappear.

NOTE: At end of Countdown Time period, the fire shuts OFF. The Countdown Timer only works in Manual, Thermostatic, and Eco Modes. Maximum Countdown Time is 9 hours and 50 minutes.

REMOTE CONTROL INSTRUCTIONS

HOW TO USE YOUR APPLIANCE 2. OPERATING YOUR APPLIANCE



MODES OF OPERATION



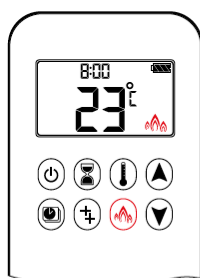
Thermostatic Mode

The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the set temperature.



Program Mode

PROGRAMS 1 and 2, each can be programmed to go ON and OFF at specific times at a set temperature.



Eco Mode

Flame height modulates between high and low. If the room temperature is lower than the set temperature, the flame height stays on high for a longer period of time. If the room temperature is higher than the set temperature, the flame height stays on low for a longer period of time. One cycle lasts approx. 20 min.

THERMOSTATIC MODE



ON:

Press button. displayed, preset temperature displayed briefly, and then room temperature displayed.

OFF:

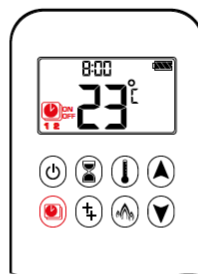
1. Press .
2. Press or button to enter Manual Mode.
3. Press button to enter Program Mode.
4. Press button to enter Eco Mode.



SETTING:

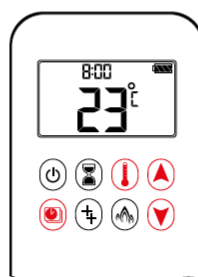
1. Press button and hold until displayed, temperature flashes.
2. To adjust set temperature press or .
3. To confirm press button or wait.

PROGRAM MODE



ON:

Press button. , 1 or 2, ON or OFF displayed.



OFF:

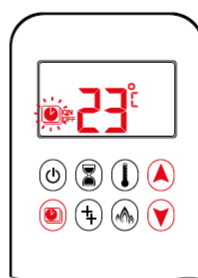
1. Press or or button to enter Manual Mode.
2. Press button to enter Thermostatic Mode.

NOTE: The set temperature for Thermostatic Mode is the temperature for the ON time in Program Mode. Changing the Thermostatic Mode set temperature also changes the ON time temperature in Program Mode.

Default settings:

ON TIME (Thermostatic) TEMPERATURE: 70 °F/21 °C

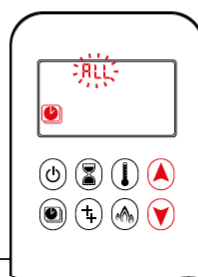
OFF TIME TEMPERATURE: "--" (pilot flame only)



TEMPERATURE SETTING:

1. Press button and hold until flashes. ON and set temperature (setting in Thermostatic Mode) displayed.
2. To continue press button or wait. , OFF displayed, temperature flashes.
3. Select OFF temperature by pressing the or .
4. To confirm press .

NOTE: The ON (Thermostatic) and OFF set temperatures are the same for each day.



DAY SETTING:

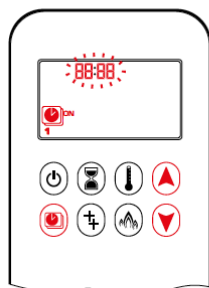
5. RLL flashes. Press or button to choose between RLL, 5R5U, 1, 2, 3, 4, 5, 6, 7.
6. To confirm press .

REMOTE CONTROL INSTRUCTIONS

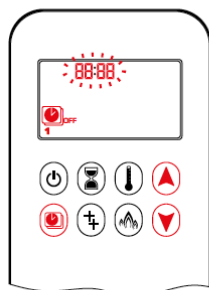
HOW TO USE YOUR APPLIANCE 2. OPERATING YOUR APPLIANCE



RLL selected



- ON TIME SETTING (PROGRAM 1):
7. **1, ON** displayed, RLL is displayed shortly, and **hour** flashes.
 8. To select hour press or .
 9. To confirm press button. **1, ON** displayed, RLL displayed shortly, and **minutes** flash.
 10. To select minutes press or .
 11. To confirm press button.



- OFF TIME SETTING (PROGRAM 1):
12. **1, OFF** displayed, RLL is displayed shortly, and **hour** flashes.
 13. To select hour, press or .
 14. To confirm press button. **1, OFF** displayed, RLL displayed shortly, and **minutes** flash.
 15. To select minutes press or .
 16. To confirm press button.

NOTE: Either continue to PROGRAM 2 and set on and off times or stop programming at this point, and PROGRAM 2 remains deactivated.

NOTE: PROGRAM 1 and 2 use the same ON (Thermostatic) and OFF temperatures for RLL, 5R5U and Daily Timer (1, 2, 3, 4, 5, 6, 7). Once a new ON (Thermostatic) and/or OFF temperature has been set, that temperature becomes the new default setting.

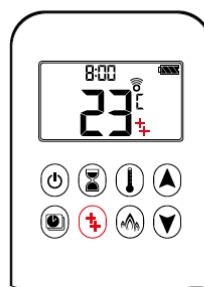
NOTE: If RLL, 5R5U or Daily Timer are programmed for PROGRAM 1 and PROGRAM 2 ON and OFF times, these become the new default times. The batteries must be removed to clear the PROGRAM 1 and PROGRAM 2 ON and OFF times and temperatures.

5R5U or Daily Timer (1, 2, 3, 4, 5, 6, 7) selected

- Set ON time and OFF time using same procedure as "RLL selected" (above).
- 5R5U: Set ON time and OFF time for both Saturday and Sunday.
- Daily Timer: Unique ON and OFF times may be set for a single day of the week, for multiple days of the week, or for every day of the week.
- Wait to finish setting.

AUXILIARY FEATURE (2ND BURNER FEATURE)

The latching solenoid valve will open automatically after ignition or after switching the system off, so that the maximum flow of gas is supplied to both burners assisting with the ignition process. After pressing the AUX-button the motor will turn 7 seconds in the ON direction until the max. position is reached.

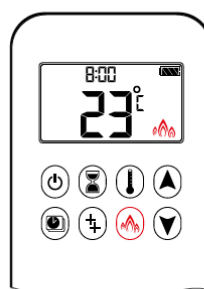


ON:
To switch a burner ON, press the button. displayed.

OFF:
To switch the burner OFF, press the button. disappears.

NOTE: The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position.

ECO MODE



ON:
Press button to enter Eco Mode. displayed.

OFF:
Press button. disappears.

MYFIRE APP

NOTICE

Before the app can be used, the myfire Wi-Fi Box must be wired and plugged into mains power according to myfire app setup diagram (see figure 30, page 29), and the app setup must be completed (see myfire app setup, page 24).



If Thermostatic, Program or Eco Mode is activated, the corresponding icon and "RPP" is displayed on the handset.

The modes can be operated according to the descriptions on previous pages.

NOTE: In Manual Mode "RPP" is NOT displayed on the handset.

REMOTE CONTROL INSTRUCTIONS

BATTERIES

Remote Handset: 2 x 1.5V "AAA", Quality alkaline recommended

RECEIVER

4 x 1.5V "AA", Quality alkaline recommended for maximum life.

An alternative AC Mains Adaptor may be used to power the Receiver instead of the 4 x "AA" batteries. Only an AC Mains Adapter supplied by the distributor or it's agent may be used. The Mains Adaptor is plugged into the DC 6V socket on the end of the receiver.

Note - if the AC Mains Adapter is used, remove the 4 x AAs from the Receiver, failure to do so could result in damage and failure of the Receiver. During a period of power outage, the receiver may be unplugged, and batteries returned to the Receiver.

REPLACING THE BATTERIES

HANDSET:

There is a battery level indicator on the display of the handset. When this gets low remove the cover on the rear of the handset and replace the battery with 2 x 1.5V "AAA", Quality alkaline recommended for maximum life.

RECEIVER:

Three short audible beeps will sound when the appliance is on to indicate that the batteries in the receiver are getting low.

When the batteries get very low the appliance will be turned off by the remote control. This will fail to happen if the power supply is interrupted.

To replace the Receiver batteries, slide the cover off of the top of the receiver and use the ribbon to pull the batteries out. Replace the batteries with new 1.5V AA's, ensuring that the ribbon is located under the batteries and that the polarity is correct on all 4 batteries.

Never mix new batteries with old; this will result in the new batteries being emptied very quickly.

When the batteries are replaced, it may be necessary to reset the transmitter code, as detailed in the next section.

SETTING THE TRANSMITTER CODE

Press and hold the RESET button with a sharp object (pen or screwdriver) until you hear two audible beeps. After the second, longer beep, release the RESET button.

Within the next twenty seconds press the down button on the remote handset until you hear an additional long signal confirming the code is set.

The Receiver is located in the Control Hatch panel.

ERROR CODES

Error code	Action	Description	Possible cause
F03	Contact service	5 second beep from the receiver. Ignition process is interrupted. No response from receiver and no ignition	Thermocouple wiring not in order / interrupted
F04	Ignition failure. Wait one minute then try again. 5 second beep from the receiver.	No pilot flame within 30 seconds. After third attempt F06 No response from the receiver	• No gas • Air in the line • No spark 8 wire connector loose or disconnected
F06	Contact service	Third time start attempt within 5 minutes	• No gas • Air in the line • No spark
F12	Contact service	Motor turns to pilot light position	Receiver temperature above 60°
F13	Contact service	Motor turns to pilot light position	Receiver temperature above 60°
F14	Contact service	5 second beep. No reaction from the heater and no ignition	Wiring not in order
F19	Contact service	Pilot flame goes out when the main burner is energised	Thermocouple defective
F26	Contact service	No high flame regulation possible	Receiver temperature above 60°
F31	Contact service	No reaction from the heater. No control via the handset remote	Receiver defective
F40	Battery symbol	Battery voltage in the handset remote low	Replace batteries 2 x 1.5V AAA
F46	Contact service	No reaction from the heater	Bad connection between the receiver and handset remote

CLEANING AND MAINTENANCE

This appliance should be inspected and serviced once a year by a qualified, competent and registered person. The inspection and maintenance must at least ensure that the appliance is working correctly and safely. It is advisable to clean the appliance of any dust and debris before regularly during the heating season and especially if the appliance has not been used for some time. This can be done with a soft brush and a vacuum cleaner or a damp cloth and if required a non- abrasive cleaning agent. Do not use corrosive or abrasive substances to clean the appliance.

All cleaning should be carried out when the heater is cold. Normally the heater should only need wiping with a lint-free damp cloth. Any stubborn stains can be removed with a non- abrasive spray or cleaner. If an abrasive cleaner is used the paint finish will be damaged. Clean the outer glass with a mild liquid or spray or glass cleaner. Do not use harsh abrasive cleaners or sharp metal scrapers to clean the heater glass front as they can scratch the surface, which may result in shattering of the glass. Initially the heater should only be cleaned by an authorised person. **DO NOT CLEAN THE GLASS WHEN IT IS HOT.** If the heater requires attention contact your supplier or an authorised service person. The heater is designed to operate with luminous flames and may exhibit slight carbon deposit on the logs. If there is an excess carbon built-up on the logs, or the burner flame is unstable, contact LIVING FIRE. Important. It is recommended that the heater be serviced annually by an authorised service person. This maintenance cost is not covered under the warranty terms and conditions. It is imperative that control compartments, burners be kept clean. Do not use the heater if the glass is cracked or the glass is removed. Do not use the heater with broken or missing logs. High wind gusts can affect the heaters fluing and switch the heater off. If this happens, restart the heater as normal. If the problem persists contact LIVING FIRE.

QUADRO 800G

PAUL AGNEW | DESIGNS

148 Cochranes Road
Moorabbin, Victoria 3189

www.paulagnewdesigns.com.au

info@paulagnewdesigns.com.au