



BROFF1

**JETMASTER 850 BROFF OUTDOOR FLUELESS FIRE  
INSTALLATION INSTRUCTIONS FOR TIMBER FRAMED  
INSTALLS AND/OR MASONRY SURROUNDS**



**The Jetmaster 850 BROFF OUTDOOR FLUELESS FIRE is comprised of:**

- The firebox is flueless and is designed for **outdoor recreational use only**
- Stainless Steel gas burner (Natural Gas or LPG) supplied complete with manual ignition and flame control plus black coals and a vermiculite fuel bed
- A detachable Stainless Steel weather cover plate
- The pilot assembly is provided with a weather shield

**ALL INSTALLATIONS MUST COMPLY WITH THE AS/NZS 5601.1:2013 AND ALL RELEVANT GAS INSTALLATION STANDARDS AND LOCAL AUTHORITY BYLAWS.**

The Fireplace Ltd reserves the right to change all content contained herein and is subject to change without notice.

**WARNING**

THIS FIRE MUST NEVER BE USED INDOORS OR FOR ENCLOSED ONDOOR SITUATION

## Product Description

The installation of the 850 BROFF is designed to be fitted directly into a AAC Block heat cell when into a timber frame out.

For a Masonry installation where no combustibles are present within 200mm of the firebox sides or back and 600mm above the front or top of the firebox, the masonry enclosure opening may be set up dimensionally to take the firebox as an insert.

Ventilate any cavity top and bottom with vents 2,000sq mm (50mm dia) each to the outside of the cavity and hebel cell. Vent openings to be bird and vermin proofed.

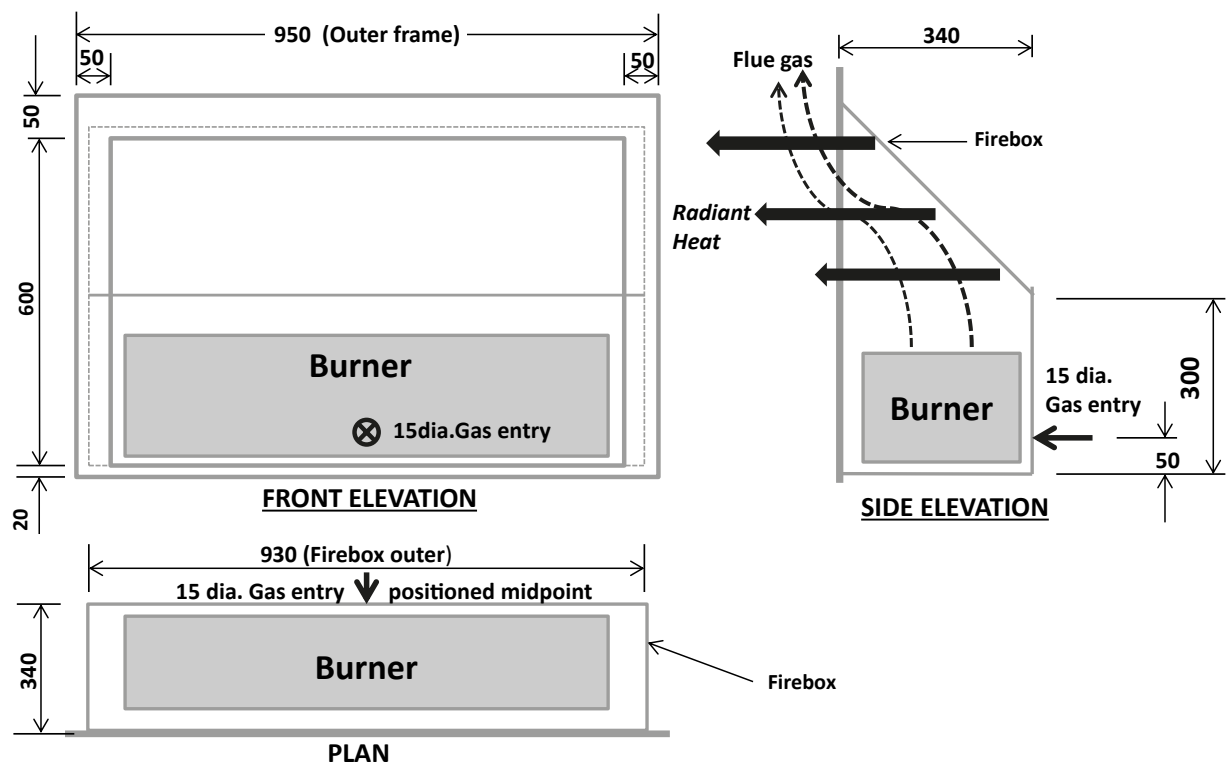
**Firebox** - The firebox is basically rectangular in shape with a sloping rear back plate to provide reflective heat and to assist the migration of burner gases to the top of the firebox, exiting at the underside of the top frame section. The firebox height is 670mm high x 950mm wide at the front frame. Depth from the front of the firebox to the rear vertical back plate is 340mm. The vertical rear section is 300mm high from the base of the firebox.

**The fascia frame** on the sides and top are 50mm in width. The frame is constructed from heavy duty 5mm Stainless Steel. The bottom frame is 20mm in width and is a strengthening stiffener as well as a finishing detail.

**The burner is a standard Jetmaster 850 SFB** constructed entirely of Stainless Steel including the burner frame, front panel and cover plate (but excluding the valve and operating components of the burner). Operation of the burner is manual ignition and flame control, with a standing pilot. Electronics are not offered on outdoor fires in the interests of durability and simplicity.

## Jetmaster 850 BROFF Flueless Fire Outdoor

Fig. 1

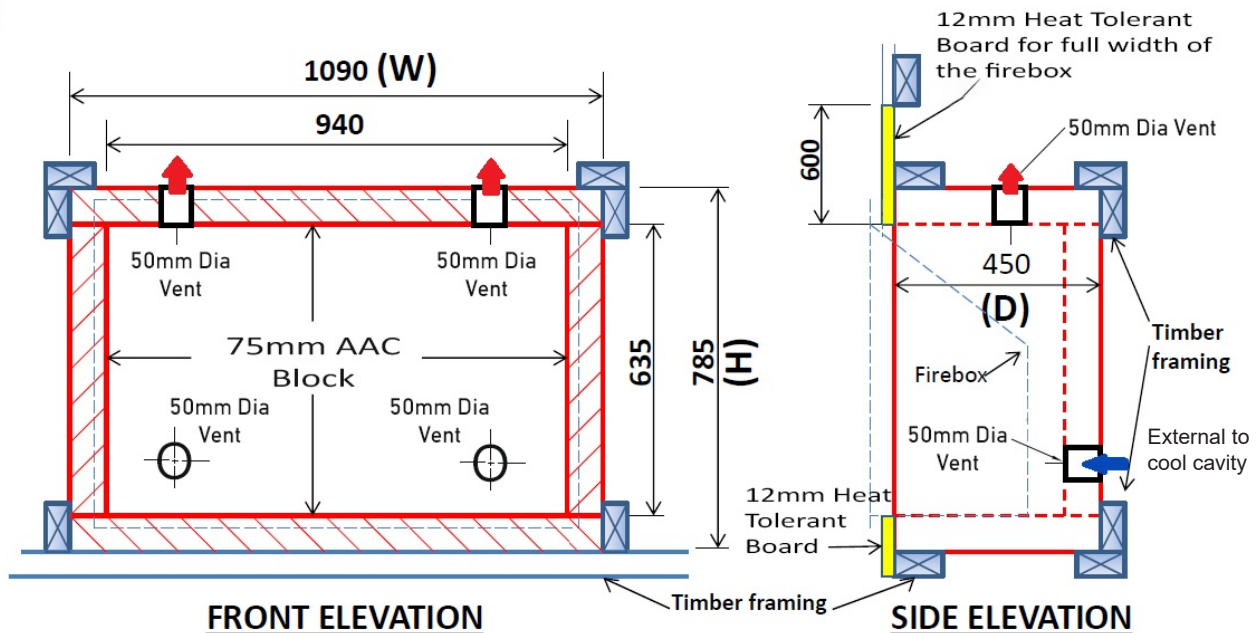


## Jetmaster 850 BROFF Outdoor Flueless Fire AAC Block Heat Cell

The 75mm AAC Block Heat Cell to contain the firebox, is able to be in contact with timber framing on the base sides and rear of the firebox. The exception being that no timber or combustible materials is located within 600mm of the top outer face above the firebox.

**THE CAVITY MUST BE WELL VENTED. EXTERNAL AIR REQUIRED TO COOL THE CAVITY AND THE WARM AIR MUST BE RELEASED BACK OUTSIDE.**

Fig. 3



## Installation Instructions for a Timber Frame out

Build the timber frame out for the AAC Block Heat Cell to the following internal clear dimensions (this can be either at floor level or at an elevated level above floor level) as shown on Fig. 3

**W = 1090mm    H = 785mm    D = 450mm**

**The following installation sequence should follow:**

- Line the interior framing with 75mm thick AAC Block panels cut to the below sizes. Secure AAC Block to timber framing. Glue panels on abutting faces. Ensure all joints are completely sealed particularly where timber framing is in close proximity.  
AAC Block sizes are;  
**Base** 1090 x 450 : **Rear panel** 1090 x 635 : **Side panels** 2 x 635 x 375 : **Top** 1090 x 450
- Ensure any timber framed cavity where the heat cell is built into is ventilated through the bottom and out the top with a minimum of 2,000sq mm (50mm dia) sized vents. Vents in the framed cavity to be bird and vermin proofed. Low placed vents must bring cool external air into the cavity and the top vents must release the warm air back outside.
- A floor protector (hearth) is not required for a timber deck in front of the fire.
- Slide the Jetmaster 850 BROFF Firebox into place inside the AAC Block Heat cell, ensuring it is centralised. Take note that the thickness of the outer surface material must be taken into consideration and allowed for before the firebox is secured to the AAC Block base and framing.
- Secure the firebox in place with 4 x Stainless Steel tec screws or similar into the underlying AAC Block base/timber framing as earthquake restraints.
- The firebox has a central 15mm dia. gas entry hole drilled into its rear situated 50mm above the base.
- Fit the gas burner, ensure the front legs are screwed to the firebox to secure the burner in place, connect the gas and place the synthetic coals on the vermiculite bed. Arrange the base coals approx 15mm apart and top off with coals randomly placed to suit. Adjust the position of any hot coals using long handled tongs.
- Finally, commission the fire. Ensure the pilot weather shield is in place over the pilot assembly.
- Fit the Stainless Steel weather cover to check the handles lock the cover in place. Adjust the handles if necessary.

## Jetmaster 850 BROFF Outdoor Flueless Fire Stainless Steel Weather Cover

The Stainless Steel weather cover is made to fit around the exposed frame of the firebox 950mm x 650mm in size.

If recessed (for a totally exposed outdoor installation), it is recommended that the front of the recess be no more than 100mm with an additional peripheral clearance to the outer edge of the frame to permit the weather screen to be able to be placed and removed with ease.

The minimum opening size of the recess to take the firebox outer frame would need to be:-

**960mm wide x 675mm height x 100mm depth**

**Should a recess look not be desired, it is recommended that a AAC Block mantle be used 50mm above the top frame protruding a minimum of 100mm out front and a minimum of 100mm to each side.**

### For installation into a total masonry construction (Masonry block, AAC Block, Brick, Concrete or similar)

**Assembly details are similar to those used for the timber frame out (as above) with the following exceptions:**

- The firebox must be totally contained within a masonry or non combustible enclosed heat cell devoid of any combustible material.
- Heat Tolerant Board finishing around the fire opening is not required for an installation into a masonry or concrete cell.
- ENSURE NO COMBUSTIBLE MATERIALS ARE LOCATED WITHIN 600mm above the fireplace opening, irrespective of whether installed into a timber frame out or masonry heat cell.
- A floor protector is not required for any installations above a timber floor.
- All Jetmaster 850 BROFF Outdoor Gas fires are supplied standard with a Stainless Steel weather cover that fits over the front opening of the firebox with two locking handles on the sides.

### Specifications

Synthetic Coals on a vermiculite bed.

Piezo (manual) Ignition / Manual flame control

#### **Gas Burner consumption:**

Natural Gas 65 Mj/hr (High) - 29 Mj/hr (Low) LPG 43 Mj/hr (High) 27 Mj/hr (Low)

**Jet sizes:** Natural Gas 2 x 3.1mm LPG 2 x 2.0mm

**Operating Pressures:** Natural Gas 0.50kPa (High) LPG 1.50kPa (High)

**Supply Pressures:** Natural Gas 1.5-2.5kPa LPG 2.75kPa

**Covered and partially enclosed outdoor areas must meet the minimum permanent ventilated requirements outlined in AS/NZS5601.1.2013 Appendix I**

**Total permanent ventilated area must be a minimum of 25% of total wall area (open side) and 30% or more in total of the remaining wall area is open and restricted**

