



## BALANCED FLUE FIREPLACE ENCLOSURES

HOW TO SAFELY BUILD A  
FALSE CHIMNEY BREAST

The genius is in the detail.



# URBAN FIRES

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For use with the Urban Fires Balanced Flue Gas Fireplaces.  
**Always read in conjunction with the fireplace Installation & Users  
Instructions supplied with the fireplace on USB stick.**

- Important: These appliances shall be installed in accordance with;
- This guidance booklet and the relevant Installation & Users Manual
- Local gas installation regulations and The Rules in Force
- BS 5440-1
- BS 5871-1:2005,
- BS 5871-3:2005
- BS 6891
- Any other relevant statutory regulations.
- Must be installed by a Registered Installer (NG & LPG)
- Converting this appliance for use with G31 Propane must be done by a Registered LPG Installer
- Urban Fires appliances are for use on Natural Gas (G20) at a supply pressure of 20mbar or  
LPG Propane (G31) at a supply pressure of 37mbar and Butane (G30) at 28-30mBar
- In IE, consult document I.S. 813:1996 Domestic Gas Installations.

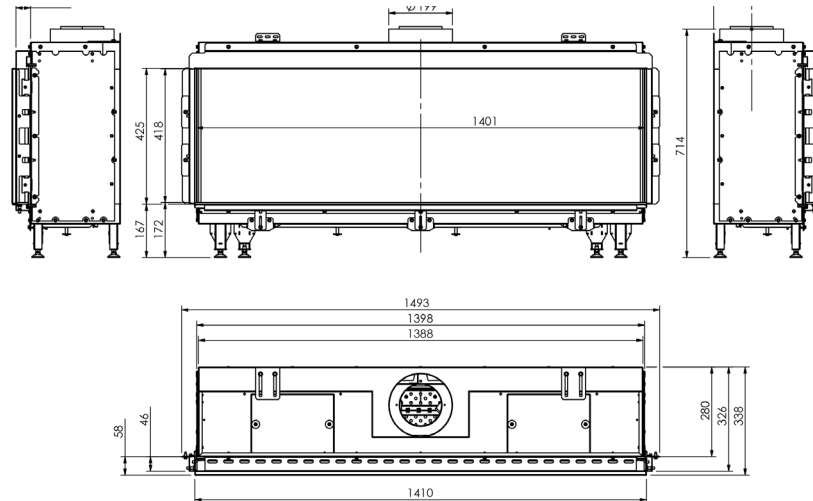
**It is strongly suggested that no work proceeds until all the components are on site.**

## SPECIFY THE GAS FIREPLACE

This is generally achieved by deciding on the required dimensions, primarily from the width of the wall onto which the gas fireplace is to be installed and by keeping the gas fireplace itself in proportion to the wall and to the room - unless being installed into an existing masonry chimney breast when other criteria will apply.

We can often produce a 3D visual to offer a perspective on proportion, if supplied with drawings, SketchUp files or dimensioned visuals.

Our balanced flue gas fireplaces come in widths from 500mm to 2400mm. This is a typical drawing:



The balanced flue components themselves must be taken into account and connecting to the appliance itself (we call this the 'heat engine') via the spigot on top. These components will either exit from an outside wall, at least one metre above the heat engine, or will go vertically through the building and exit the roof:





## PLANNING THE ENCLOSURE & BUILDING A BASE

We recommend that construction of the enclosure should only start once the heat engine is on site.

It is recommended to leave a 50mm space behind the heat engine. Gas & 240v supplies may be located within the enclosure, preferably on the right for right-handed people. These are supplied on flexible connections.

If joinery or any combustible materials are to be situated close to the enclosure, these should be spaced a minimum of 200mm from each side of the heat engine (clearances).

The heat engine is supplied with magnetic metal trims to decorate the window edges on two sides and also the lower edge. Effectively, the 'window' will be rebated approx 60mm from the front face of the enclosure, so measure carefully before finalising the overall depth of the enclosure.

Manufacturer's instructions require that the enclosure be ventilated. Optionally, we can supply a pair of high-level convection grilles, which may be located either side of the enclosure or to choice, approx 300mm below ceiling height. Further, access to the heat engine controls is required for servicing and we can supply a suitably ventilated access panel. Alternatively, ventilation and access may be built in to the enclosure using a shadow gap for ventilation for example - or into the joinery. Access to controls may be via properly ventilated drawers or cupboards.

The client may have decided at which height they wish the 'window' to appear. As a general rule, the lowest part of the window will probably be located 400-450 from the finished floor surface. However, the minimum window height for our range of fireplaces is approximately 125-175mm (partly adjustable) depending on the model.

To achieve a higher window height than the minimum, the heat engine must sit on a base. All materials should be non-combustible. Shown here, our 2400 See Through with simple masonry blocks, cut to size.

Following the manufacturer's instructions, install the heat engine and the balanced flue components and connect the fireplace to gas and 240v supplies.



## BUILDING THE ENCLOSURE & CLOSING OFF

Now create a frame for the enclosure. Use only non-combustible materials, such as aluminium or steel stud frame. Below image shows the installation of a simple 'up and out' flue and the construction of a TV recess:



The enclosure should be closed off with two layers of non-combustible fireboard such as PromaFour, Supalux or Glassroc. **Do not use simple plasterboard.** Protect the TV recess with the same materials.

Position conveniently and make suitably-sized cutouts for the ventilation grilles and access panel.





## FINISHING

The enclosure may be finished by use of a variety of methods, plaster and paint, suitable renders, tiles, stone, or porcelain sheet, for example. Each such finish should be suitably heatproof and non-combustible. This enclosure has been skimmed and painted to match the bespoke joinery, either side:



## GAS SUPPLIES & INSTALLATION TIPS

Installation of the heat engine, flue and connection to the controls (always use the separate manufacturers User & Installation instructions **now supplied on a USB stick**) must be completed by a registered gas installer or (optionally at extra cost) by our own technicians.

This is a summary of the required infrastructure:

- \* Observe all clearance requirements
- \* 2 x 50cm<sup>2</sup> free air ventilation to be supplied to the enclosure at a suitable height.
- \* Ventilated access to the electronic receiver and motorised gas control valve.
- \* Suitable NG/LPG supply for 11-23kW/hr with isolating tap and 15mm copper tail required to location.
- \* A 240v supply terminating in a standard 3-pin socket for our transformer. Batteries are optional.
- \* For LPG installations, we recommend a minimum propane cylinder size of 2 x 19kg (preferably 2 x 47kg) linked together by a changeover valve/regulator:

**Advise the End User of the cleaning instructions (see User Instructions) plus the need for annual servicing.**

**IN THE EVENT THE FIREPLACE IS TO OPERATE ON LPG GAS (CALOR GAS) FOR EXAMPLE, PLEASE ASK FOR GUIDANCE FOR THE INSTALLATION AND STORAGE OF PROPANE CYLINDERS.**