

## **Twin Rectangle Burner Kit - Installation Guide**

This guide is complementary to the installation manual, which contains important information on pit design and safety. Please read the product manual in its entirety for comprehensive instructions.

The twin rectangle unit is made from two standard rectangle burners on a long mounting plate. The plate is 1900x 300mm.

Each burner is controlled separately and has a separate gas feed. The control box is 160x 110x 72mm. The gas entry point is a ½ inch male BSP thread connection, located underneath the control box.

There are flexible connections between the centre of the burners and the control boxes.



### **Pit Design**

The burner should rest on a shelf recessed 50mm down into the structure. The ledge must not cover any of the holes under the burner tubes. The twin rectangle burner must be bolted down to the structure underneath to stop it twisting in the heat. Any coping stones or surrounding tiles must not overlap the burner tray. The burner must be able to be lifted out for future servicing. The fire pit edge trim (if purchased) is decorative and must also be supported.

The structure must be designed so that the burner does not need to be disassembled to be installed. The controls should be fed down through the cavity opening and through the wall of the fire pit. Disassembly will invalidate the product's warranty.

The area below the burner should be hollow with adequate ventilation through internal and external walls at ground level. At least 200<sup>2</sup>cm of clear ventilation is required for a twin burner installation. This can be split across multiple smaller holes and be located at the front or back of the structure. Lack of ventilation will cause the burner to overheat.

The hollow cavity underneath the burner must be clear of any combustible material. It is recommended that the cavity is as deep as the surrounding ground level, to meet with the ventilation holes. The cavity must not be deeper than ground level as LPG is heavier than air and any unburnt gas will collect in this area.

**It is highly recommended that advice is taken from a local gas engineer before finalising your design, and before building work starts, especially if you plan to lay underground gas pipes.**

## **Control box location**

The simplest installation locates the control boxes along one long side of the fire pit, in line with the pilot cages.

If the controls are located here, then usually the standard length connections will work, depending on the structure's external dimensions. If the controls are located together or at the ends of the structure, then longer or extended connections will be required, depending on the structure dimensions.

## **LPG (bottle) Installation**

For an LPG installation, each burner requires a 19kg propane bottle. These are around 80cm high. For a twin burner installation, two 19kg bottles or one 47kg bottle is required. For more information as to why this is, please visit our support page.

Gas bottles must be stored in a well ventilated area and in line with building and gas regulations. Please visit [Calor.co.uk](http://Calor.co.uk) for more information. Please follow all safety advice in regards to LPG bottle storage.

The rubber hose supplied with the LPG burners should **not** be laid out of site or run through a conduit. To connect to the gas supply MDPE, copper or Tracpipe equivalent is more suitable in this type of installation. The rubber hose can be used for the final connection onto an LPG bottle or tank. If plastic gas pipe is laid inside the cavity it can melt and cause a gas leak. The MDPE must be brought up at the edge of the fire pit near the control box. MDPE must be buried underground and protected from sunlight as UV light will deteriorate the plastic.

## **Natural (mains) Gas**

For a natural gas installation, the gas meter at the property must be checked to see if there is enough spare gas capacity for a 36kw appliance (each burner is 18kw). If there is not, then a single rectangle burner or an LPG installation may be more suitable. We recommend a gas engineer gets involved with a natural gas installation as they can advise on pipe size and connections back to the meter.

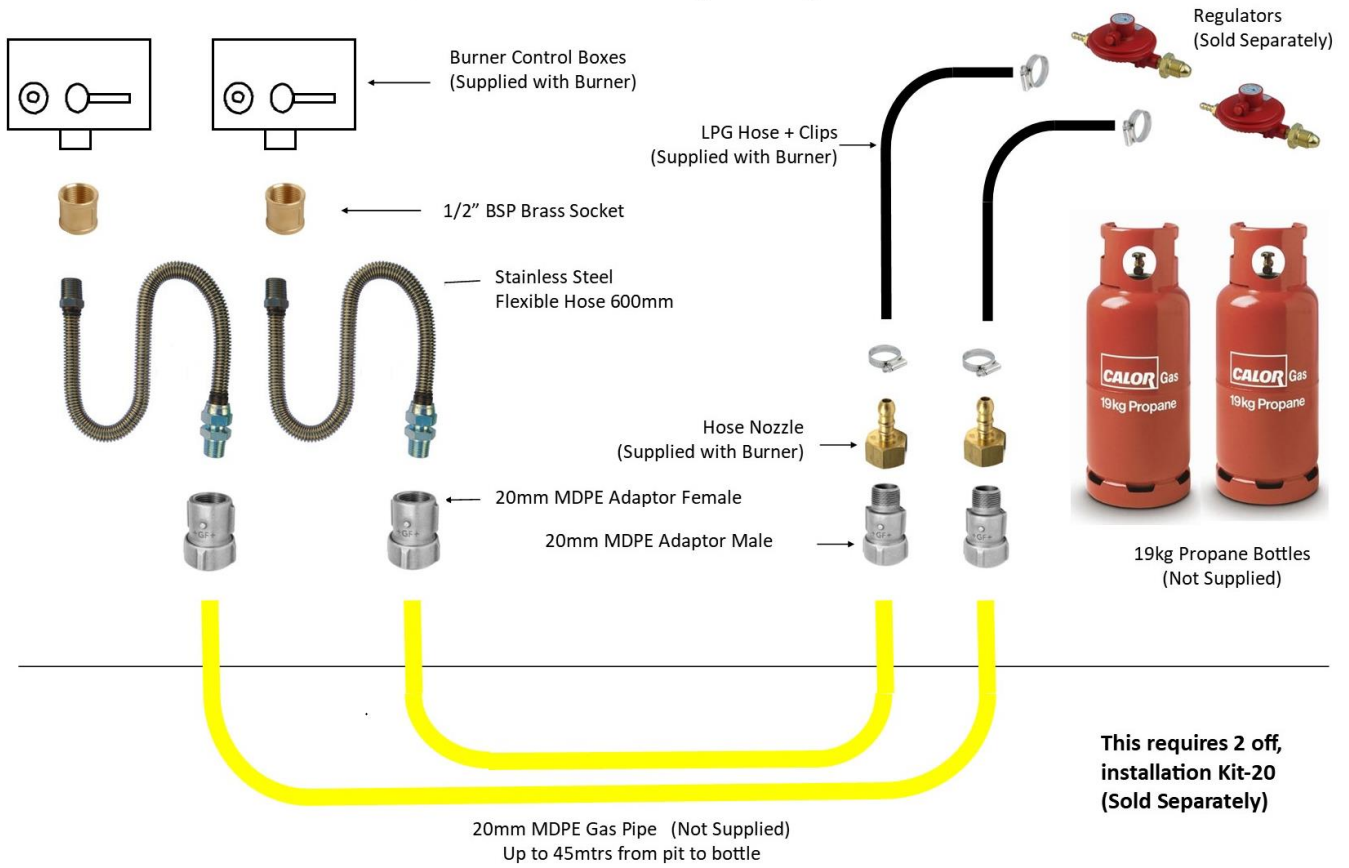
## **Underground pipework**

For an LPG installation (up to 45m from pit to bottles) we recommend using two gas bottles with two lengths of 20mm MDPE yellow gas pipe. Our installation kits contain the compression fittings for both ends of this pipe (please see diagram below).

For 47kg bottles you will require one length of 25mm MDPE, which gets split near the burner. You will require one 25mm installation kit and an additional adaptor and flexi hose.

For more information on installing MDPE pipework please visit our Support Guides page on our website.

### Twin Burner Installation using two 19kg LPG



Please read the installation manual for more important information on pit design. The burner kit manual can be downloaded from our website's support page.

If you have any questions regarding your design or installation, please contact us.

**Installation Notes - Please read the manual in its entirety - This is just a quick guide.**