

# Torch framed

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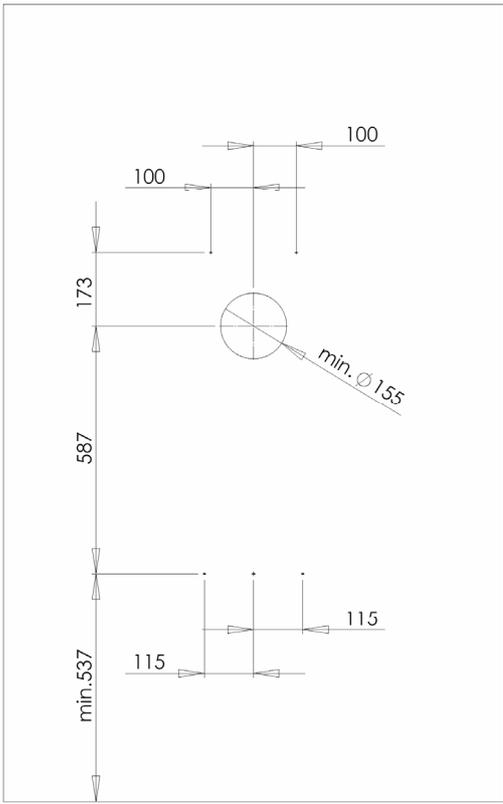


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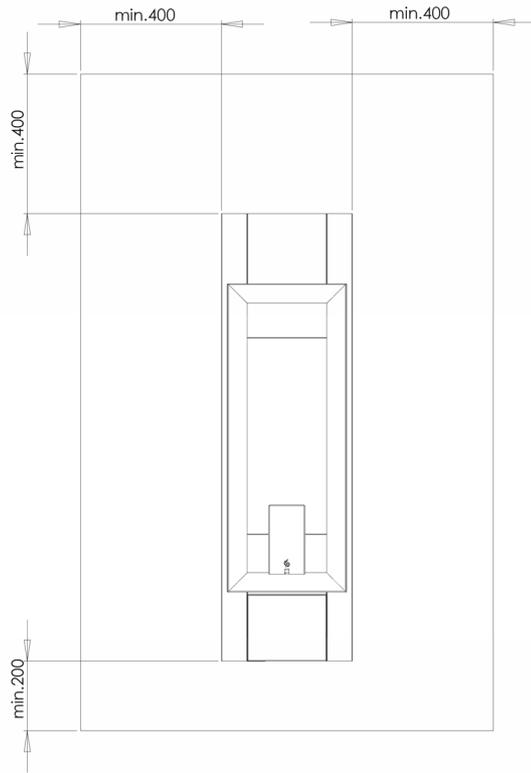
**Installation Guide**

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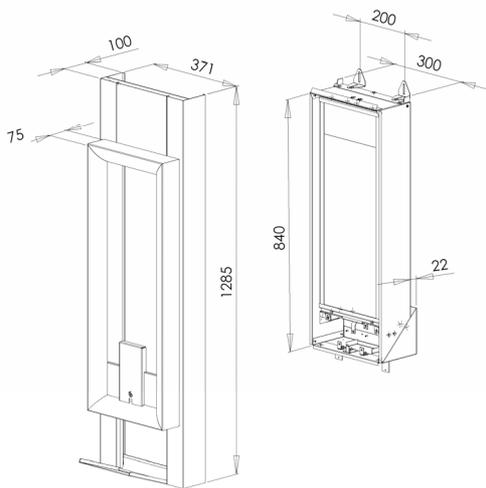
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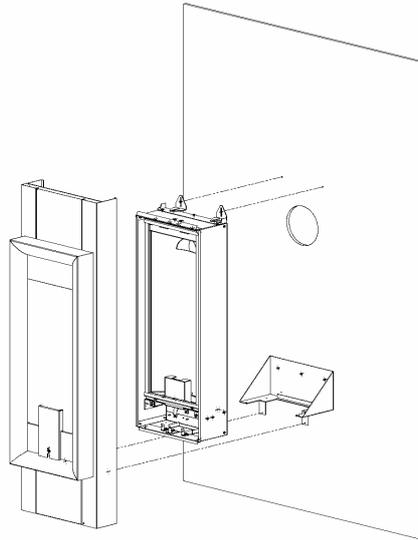
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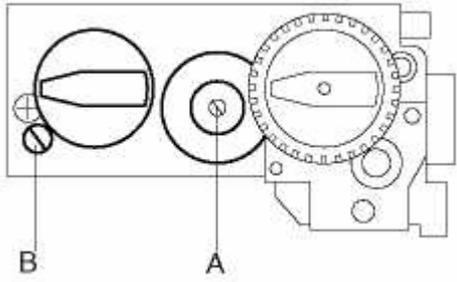
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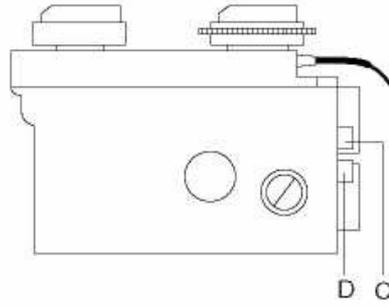
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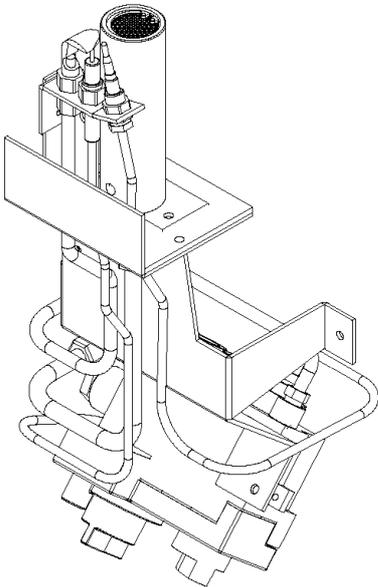
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# 1 Introduction

Note: these instructions should be read carefully and retained for future reference. Please leave these instructions with the user.

This guide covers the following appliances:

- Torch framed
- Torch framed Propane (LPG)

Special features:

- Special patented “Torch” flame technology
- Multi-vent appliance for wall connection only
- Remote Control option available
- Meets the essential requirements of the European Gas Appliance Directive (GAD) and carries the CE mark

## 2 Safety Instructions

Before installation, ensure that the local distribution conditions (identification of the type of gas and pressure) and the adjustment of the appliance are compatible.

This gas appliance is factory set and can not be adjusted.

This appliance does not contain any component manufactured from asbestos or any asbestos related products.

The pilot and flame sensing device fitted to this fire is also a safety device. If for any reason any part of the pilot assembly is to be replaced, the entire assembly, including the pilot burner, thermocouple, electrode and injector, must be exchanged complete for a pilot assembly from the original manufacturer only.

### Ventilation

This appliance is room-sealed and doesn't require purpose provided ventilation.

Never use the appliance if it has a broken glass.

### General safety

It is the law in the UK that all gas appliances, are installed by a competent person in accordance with the Gas Safety (Installation and Use) Regulations (as amended), the relevant British Standards for Installation work, Building Regulations, Codes of Practice and the manufacturers instructions.

Always use an additional guard if there are elderly, infirm or children in the same room of the appliance.

The installation should also be carried out in accordance with the following where relevant:

- BS5871 Part1
- BS5440 Parts 1 & 2
- BS1251
- Building Regulations Document J (as applicable)
- Building Regulations and Standards issued as relevant by the Department of the Environment or the Scottish Development Department
- In the Republic of Ireland installation should be carried out in accordance with IS813, ICP3, IS327, Building Regulations, Codes of Practice, the manufacturers instructions and all other regulations in force

Failure to comply with the above could leave the installer liable to prosecution and invalidate the appliance warranty.

## 3 Installation requirements

Note: Since the appliance is a source of heat, circulation of air occurs. Therefore it is of importance that you do not use the appliance shortly after a renovation of the home. Because of the natural circulation of air, moist and volatile components from paint, building materials, carpet etc. will be attracted. These components can settle themselves down onto cold surfaces in the form of soot.

As on all heat producing appliances, soft furnishings such as blown vinyl wallpaper placed too near to the appliance may become scorched or discoloured. This should be born in mind when installing the appliance.

### 3.1 Rear surface construction

The rear wall upon which the appliance is to be fixed must meet these general requirements:

- The rear wall must be of a non-combustible material (see figure 1 for drilling pattern)
- Minimum distance from the back of the appliance to the wall has to be 22mm. This gap should be maintained by the mounting brackets which fit flush onto the rear wall
- The plaster has to be resistant to a high temperature. Therefore use plaster materials especially made for this, to prevent discolouring (min. 100°C temperature resistance)
- Make sure any plaster dries well before using the appliance. Let the thickness in mm be the number of days the plaster has to dry, e.g. 3mm plaster has to dry for 3 days
- Although the appliance is tested for installation without a hearth, the appliance must not stand on combustible materials or carpet
- Do not place any material directly onto the appliance
- Minimum distance to any combustible material should be either 200 mm or 400 mm (see figure 2)

### 3.2 Dimensions of the appliance

For the dimensions of the appliance see figure 3.

## 4 Installation-instructions

### 4.1 Gas connection

- Installation pipes should be in accordance with BS 6891. Pipe work from the meter to the appliance must be of adequate size
- The complete installation including the meter must be tested for soundness and purged as described in the above code
- A means of isolation must be provide in the supply to facilitate servicing
- The connection should be made in 8 mm copper or similar semi flexible tube (max 1 meter). Ensure that the gas pipe does not interfere with the removal or replacement of the burner tray of the controls
- The gas connection is nut and olive suitable for 8 mm pipe

Make sure there is a gas connection with a diameter of 8 mm goes directly from the gas meter to the appliance, with a CE-approved sealing valve G 1/2". This valve has to be accessible at all times. Check the connection for gas leaks.

Mount the supplied nut and olive of 8 mm directly on the gas unit. Then you can go on installing a fixed or flexible connection. This has to be CE certified.

When installed as described above, the burner can always be disassembled for servicing.

### 4.2 Installing the appliance

- Check if the wall is sufficiently level. If necessary, improve it
- Insulate the back wall (if necessary) with promatect or comparable inflammable material
- Position the saddle and mark the hole centres on the rear wall, drill the wall and attach saddle using three screws and nylon inserts (see figure 1 and 2)
- Place the appliance on the Saddle, mark the hole centres for the Top Clamps (see figure 3)
- Remove the appliance, and drill the holes for the clamps. Using two screws and nylon inserts fit the clamps to the wall, with the clamps slid up the screws
- Replace the appliance onto the saddle and attach to the Top Clamps. Insert the screws to retain the appliance to the saddle
- Tighten all screws with the Gap behind the appliance maintained and the appliance level
- Prepare the gas connection
- Attach the Front Frame. This sits on the lugs on top of the appliance, and fixes to the saddle at the bottom using 2 screws (see figure 4)

## 5 Commissioning (Functional checks)

Always apply these tests before handing over:

### 5.1 Pilot ignition check

- Ignite the pilot light as described in the user manual
- Check if the pilot burner stays alight
- Extinguish the pilot burner

### 5.2 Check functional burner and pilot burner

The appliance is preset to give the correct heat input. No further adjustment is necessary.

Always check the inlet pressure and burner pressure:

- Turn off the gas valve on the appliance
- Turn the inlet pressure test point C and apply the manometer
- Check if the measured pressure is the same as the prescribed pressure
- Perform this measuring when the appliance burns on full capacity and when only the pilot ignition burns
- When the pressure is too low, check if the gas pipes are made of material with the right diameter
- When the pressure is too high (more than 5 mBar overpressure) you can't install the appliance and you should contact your gas company
- Always check the burner pressure when the functional pressure is right
- Open the burner pressure test point D
- The pressure should match the described pressure. If this is not the case, then contact the supplier

Note: After checking the burner pressure, the inlet pressure test point has to be shut and checked for gas-tightness.

## 6 Servicing

To ensure safe and efficient operation of the appliance, it is necessary to carry out routine servicing at regular intervals. It is recommended, that the fire is inspected/serviced by a competent person at least once a year.

Important: turn off the gas supply before commencing any servicing. Always test for gas soundness after refitting the appliance.

The appliance and flue connection have to be checked for gas and smoke soundness after installation.

### 6.1 Routine servicing

Clean (if necessary):

- the pilot system
- the burner
- the combustion chamber
- the glass
- Do the functional tests
- Check the flue system and terminal on damage and soundness (visual inspection)

#### 6.1.1 *Cleaning the glass*

Depending on the intensity of use, you can get a deposit on the glass. Normally this can be removed with an ordinary dry towel. If necessary special ceramic glass cleaner (ceramic cook-top cleaner) can be used. To clean the glass:

- Remove the Front Frame
- Remove the glass in it's frame
- Clean the glass. Handle the glass with clean hands, wear gloves if possible
- To fit the glass, proceed in reverse order. Make sure that:
  - the glass sealing rope is in good condition and makes an effective seal
  - Important: be sure that there are no fingerprints on the glass. They are burned in the glass when not removed.

#### 6.1.2 *Cleaning the combustion chamber and burner*

You can clean the combustion chamber with a vacuum cleaner and soft brush.

If the burner is visibly damaged, this can affect the performance of the appliance. If so, then replace the relevant parts.

### 6.1.3 Burner (dis)assembly

- Turn off the gas supply to the control valve
- Remove the glass and grid
- Detach the gas connection
- Unscrew the two screws under the burner assembly and remove it from the combustion chamber (see figure 7)
- The pilot can be removed by removing the screw in the centre of the pilot
- Replace parts as necessary and re-assemble

## 6.2 Combustion test

A BS7967 combustion analysis check should be carried out using an analyser to MantleBS7927 positioned in the outlet.

The performance of the appliance should be checked

### 6.2.1 Procedure for performance test

Ignite the fire and run at FULL for a minimum of 15 minutes

Record the Carbon Dioxide (CO<sub>2</sub>) reading at the outlet, most analysers will display this as a percentage (%)

Repeat test for Carbon Monoxide (CO), this will be measured in Parts Per Million (ppm);

Calculate the combustion ratio (CO/CO<sub>2</sub>).

$$\text{Ratio} = \frac{\text{CO (ppm)}}{\text{CO}_2 (\%) \times 1000}$$

This combustion ratio of the emitted gasses should not exceed 0.0015

## Appendix A: Spare parts

Description	Natural gas	Propane
Glass	04510930	04510930
Burner Natural gas	20861096	-
Burner Propane	-	20532935
Remote assembly	20604500	20604500
Gasvalve	37003098	37003098
HT Lead	06017301	06017301
Spark electrode	06006500	06006500
Pilot Burner assembly NG	37001030	37001030
Thermocouple	37002041	37002041

## Appendix B: Technical data

Country		UK	UK
Categorie		I12H3P	I12H3P
Appliance		Torch framed	Torch framed
Appliance type		C11	C11
Reference gas		G20	G31
Input (Nett)	[kW]	2,2	2,2
Efficiency class		2	2
Inlet pressure	[mbar]	20	37
Gasrate (15 C & 1013 bar)	[m <sup>3</sup> /h] [kg/h]	0,260	0,16
Injector size	[mm]	1.20	0.8
Pilot assembly			
Type		SIT 145	SIT 145
Code		Nr. 30	Nr. 15
Outlet terminal size	[mm]	150/100	150/100
Gas control		Mertik GV36	Mertik GV36
Remote control		Mertik G30-ZRPS/800	Mertik G30-ZRPS/800
Batteries remote		1x 9V MN1604 6LR61	1x 9V MN1604 6LR61
Batteries receiver		4x 1,5V LR03 Alkaline	2x 1,5V LR03 Alkaline
Gas connection		8mm nut & olive	8mm nut & olive



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