Morco G11E and G111E to EUP11 Conversion

Introduction

Since 1997 Morco have supplied the G111E and G11E LPG water heaters into the holiday home industry. Sadly, the factory in Northern Spain closed in 2017 and Morco have sourced replacement water heaters. We have recently launched the EUP11 water heater and appreciate that many of these will be purchased to replace the longstanding G11E and the older G111E models in holiday homes. Gas engineers and home owners alike will wish to know what the differences are and how easy it is to convert. For those reasons we have created this fact sheet. We will refer only to the G11E in this fact sheet as it is, in all relevant areas, the same as the G111E

Things That Remain the Same

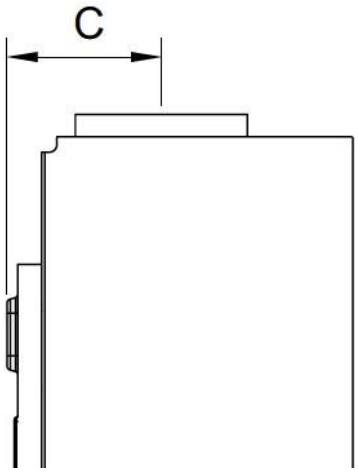
- 11 litres of hot water delivery per minute for the MP11, with a temperature lift of 25°C. This can be adjusted down to 6 litres per minute of hot water with a temperature lift of 50°C on the temperature control knob
- The basic operation of the water heater is identical in that it has a water control assembly containing a diaphragm that opens and closes the gas valve.
- Compact size – the EUP11 is slightly narrower and slightly deeper than the G11E
- 15mm hot and cold water pipes – Gas pipes must be 15mm for the EUP11 – please purchase the EUPFK fitting/conversion kit with the water heater as you will need the special pipes and the ½" BSP gas valve.
- Pilot light ignition of the main burner
- The 110mm flue diameter is the same for the G11E and the EUP11 so there is no need to purchase a new flue
- Adjustable gas control knob – in reality customers leave this set to maximum
- Air supply and ventilation requirements remain the same – see the installation manual for details
- Flue lengths and flue terminal design remain the same.
- As with the G11E the EUP11 will suffer damage if it is not drained in winter and water is allowed to freeze inside it
- There is a thermocouple for the pilot incorporating a flue spillage device and a hi-limit thermostat on the flue diverter hood
- The flue spillage test is carried out in exactly the same way
- As with the G11E, there is no need to use gas paste on the washer seal between the Gas isolation valve and water heater

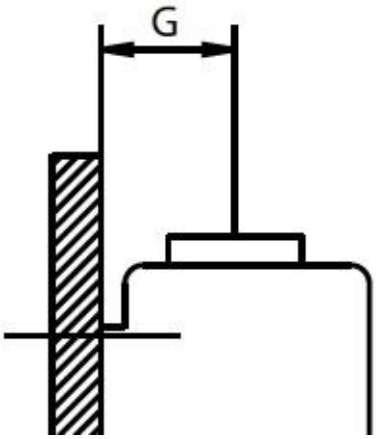
Things That Are Different

- Piezo ignition of the pilot light for the EUP11 (the G11E had a battery powered spark generator)
- The control knobs and water filter are stuck to the inside of the front cover in a small polythene bag on the EUP11 models.
- The piezo pilot light ignition is now a push button under the boiler and not by pressing the ignition button
- The gas connection is now ½" BSP and not ¾" BSP – the Fitting/conversion kits EUPFK (15mm gas isolation valve) accommodate this change
- The mounting points on the back plate are in a different position – see later "mounting screw position" and photos
- The position of the gas and water pipes is different – please see the "Water and Gas Pipe" section at the end of this sheet
- There is a water temperature limit thermostat as an additional safety feature on the heat exchanger. (Open Circuit at 105 °C)
- The EUP11 will function with a water supply operating pressure of 0.2bar. The corresponding figure for the G11E was 1 bar
- The hot and cold water connections for the EUP11 are both male ½"BSP. On the G11 the cold water was 3/8" BSP and the hot water was ½" BSP

- There is no drain screw for the EUP11 water heater. In cold weather we advise disconnecting the cold feed pipe from the water heater to ensure that all the water leaves the heater to avoid frost damage.

- The distance between the wall and the flue centre line for the G11 is 115mm. The corresponding dimension for the EUP11 it is 101mm





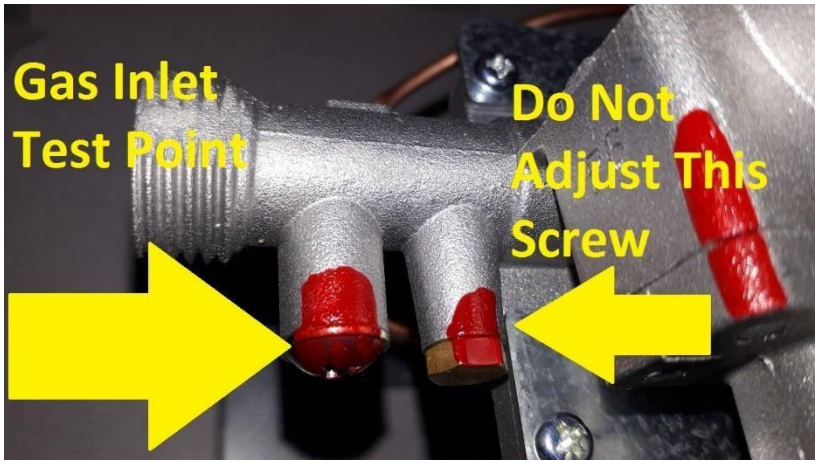
Dimension C is for the new EUP11 water Heater which is 101mm

Dimension G is for the old G11 water heater which is 115mm

C and G measure the distance from the mounting wall and the flue centre line

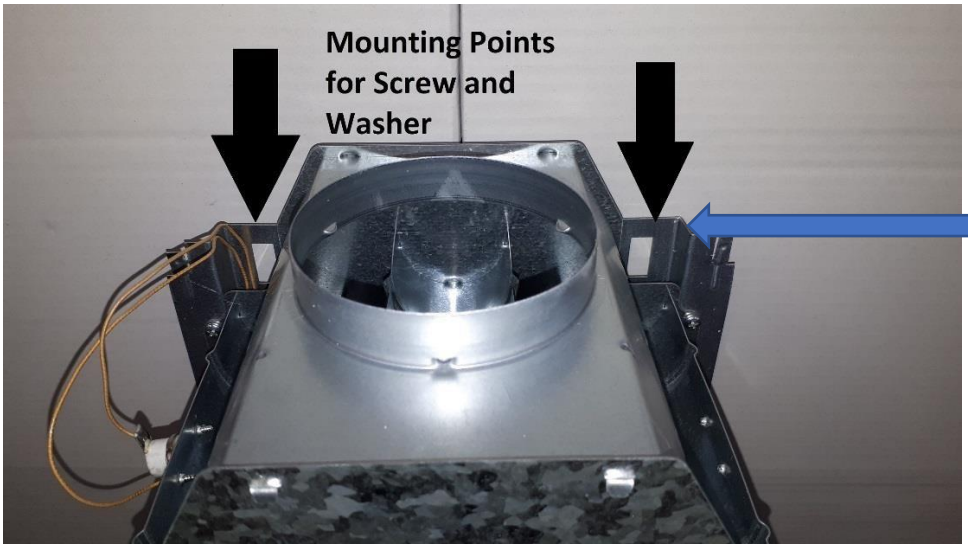
There is a safety valve on the side of the water control assembly set at 10bar. If the cold water supply pressure exceeds 10bar then this will pass water. Freezing conditions may also cause this to pass a small amount of water. Any adjustment of this valve will cause the valve to pass water at pressures lower than 10 bar and could damage furniture local to the heater.

- On the EUP11 there are 2 screws on the gas inlet, the bottom one is the gas inlet test point and the top one is a gas adjustment screw that should only be used when converting gas types. DO NOT adjust this screw when using Propane.

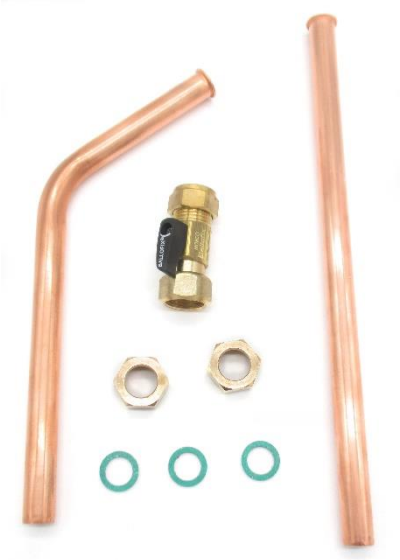


Mounting screw position

The G11E has a large number of holes in the base plate which can be used to mount the heater. The EUP11 only has 2 holes designed for this purpose as shown in the photo below. You will need to use a steel repair washer on each screw when mounting the EUP11 - see photo



Water and gas pipe positions



The pipe installations for the G11E are many and varied and it will be up to the engineer to adapt the EUP11 fitting/conversion kit (Part code EUPFK) to suit the hot, cold and gas pipes. The location of the pipes for both water heaters remains the same with the hot being on the left, the cold on the right and the gas in the centre.