



Instructions

CO2 Generator

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CO₂ GENERATOR – MODEL .75

SPECIFICATIONS AND OPERATING INSTRUCTIONS

SPECIFICATIONS

<u>LPG MODEL</u>	
Gas Pressure	28 / 37mb
Heat In-put	0.75kW
Injector Size	0.35mm
Gas Consumption	0.06kg/hr
Gas Connector	M21
Voltage	230V 50HZ
Current	Less than 1MA
Dimensions	16cm x 21 x 35high
Weight	3Kg

IMPORTANT

FAILURE TO HAVE THE GENERATOR INSTALLED BY A COMPETENT ENGINEER AND FAILURE TO PROVIDE SUFFICIENT VENTILATION WILL INVALIDATE ANY GUARANTEE OR ANY OTHER LEGAL RESPONSIBILITY HOTBOX MAY HAVE.

THIS IS A GREENHOUSE APPLIANCE – NOT TO BE USED IN DOMESTIC PREMISES.

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OPERATING INSTRUCTIONS

- A. GENERAL**
- B. IGNITION**
- C. EXTINGUISHING THE APPLIANCE**
- D. GAS LEAKS**

(A) General

1. The user should read these instructions thoroughly before attempting to operate the Hotbox CO₂ Generator and ensure there is no unauthorised interference with the appliance by persons not competent to do so.
2. Ensure that adequate ventilation is provided for the generator, since inadequate ventilation will mean incomplete combustion, resulting in unburnt or partially burnt gases. This is particularly important in areas where more than 1000ppm of CO₂ is being used.

NOTE: UNBURNT GAS CAN BE TOXIC TO PLANTS

THE GENERATOR NEEDS A CONTINUOUS SUPPLY OF OXYGEN TO ENSURE THAT ALL GAS IS COMPLETELY BURNT.

The ventilation you provide (minimum 3sq.in – 10cm²) should be installed in such a way to ensure that the fresh air with its supply of oxygen can easily reach the burner. This is particularly necessary in a polythene tunnel where the generator can be several feet from the doors where the only natural ventilation exists.

One method of providing the required fresh air is to install a 3”(15cm) diameter plastic pipe (or similar) from the outside to the base of the generator and allow for the exhaust of burnt gas by fitting a piece of Rokolene or similar material in or above the doors at the end of the greenhouse (3sq.in – 10cm²)

3. Ensure the Hotbox CO₂ Generator is fixed in a stable position, ideally on a solid base such as a paving slab.
4. Check that there is no combustable material in the area above or around the generator. Remember that the heater casing becomes hot when in use.

5. Ensure that all gas connections are leak proof and that there are no gas leaks.
NOTE: UNBURNT GAS CAN BE TOXIC TO PLANTS.
6. **DO NOT** look for leaks with a lighted taper! Check all suspect connections with a soap solution and cure as necessary. **OBSERVE THE SAFETY CODE.**

(B) IGNITION

1. Depress and hold the control knob (Fig 1). Press the piezo ignition button repeatedly (Fig 2) until pilot burner ignites.
2. After the pilot burner has ignited, hold the control knob for a few seconds until the thermocouple has been sufficiently heated by the pilot flame to generate sufficient current to keep the solenoid valve energised. Then release the knob.
NOTE: If the generator is newly installed, or has not been used for a long period, it will be necessary to purge the air from the pilot gas system before attempting to ignite the burner. This is achieved by depressing the control knob and holding for approximately 30 seconds or more until the gas comes through.
4. Once the pilot burner is alight, release the control knob and the main flame will ignite

FIG 1

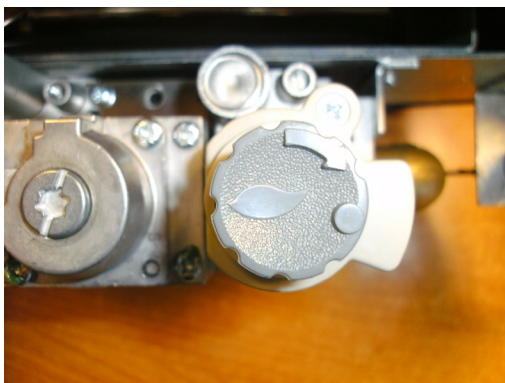


FIG 2



(C) EXTINGUISHING THE APPLIANCE

1. Turn the control knob clockwise and release this automatically shuts off gas to appliance
2. **Turn off the gas at the supply.**