

AUTOPILOT CO₂ GENERATOR PROPANE GAS

User manual



Package contents

- 1) *The generator*
- 2) *1 gas hose*
- 3) *Adapter 12 V / 2.0 A*
- 4) *Chain with hook*
- 5) *2 hex sealing caps with hex key*
- 6) *Sealant*



Components

Loosen the 4 screws on the front of the unit a few turns and remove the panel.



- 1) **Burner**
- 2) **Igniter**
- 3) **Electronic control unit**
- 4) **Solenoid valve**
- 5) **Switch with tilt protection**

In addition, a 30 mbar pressure regulator, a cylinder of propane gas (LPG) and a hose clamp are required. These are not included in the package and must be purchased separately.



Mounting and connecting

Hang or place the unit in a suitable location in the room and keep a minimum distance of 50 cm from walls, ceiling or other objects. Do not place flammable materials near the unit. Make sure the unit is standing or hanging level. If the unit is tilted more than 30°, it will not operate (tilt protection).

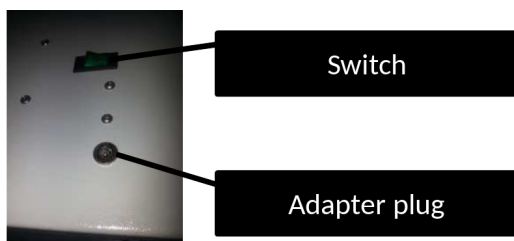


Fit the supplied hose to the 30 mbar pressure regulator. Secure the hose with a hose clamp.

The hose on the outlet (out) of the pressure regulator must be connected to the CO₂ generator. Screw the pressure regulator onto the gas cylinder.

Open the gas supply on the cylinder and loosen the connection on the CO₂ generator so that the air in the hose and pressure regulator can escape. As soon as you smell gas, tighten the connection. Check all connections for leaks by brushing them with soapy water. If bubbles appear, there is a leak. Repair the leak and repeat the procedure above. Ventilate the room and refit the front panel on the unit.

Connect the supplied adapter to the CO₂ generator and to a wall socket. Switch the unit on with the green switch.



- 1) The igniter sparks between the contacts
- 2) The solenoid valve opens and gas flows from the burners
- 3) The gas ignites and all burners light.

Safety features

If the unit does not ignite within 10–15 seconds, the solenoid valve will close, shutting off the gas supply. An alarm sounds. Reset the unit by switching it off and on again.

If the unit stops burning, it will try to re-ignite for 10–15 seconds. If this fails, the solenoid valve will shut off the gas supply. An alarm sounds.

If the unit falls over or is tilted too far, the power supply will be interrupted. The unit will then not operate at all.

Warnings

- 1) The maximum CO₂ level in a grow room or greenhouse is usually between 1000 and 1500 ppm. Higher CO₂ levels are of no use to a crop. It is not advisable for people and animals to stay for long periods in a room with very high CO₂ levels (>5000 ppm). Plants use CO₂ in the photosynthesis process, so it is also pointless to dose CO₂ during the dark period.

- 2) *It is recommended to connect the adapter of the CO₂ generator to a CO₂ controller with photocell, which can also regulate the CO₂ level.*
- 3) *Use propane gas only. The use of any other gas is not permitted.*
- 4) *Do not let the CO₂ generator burn for long periods in a closed room. A lack of oxygen can turn the flame yellow, releasing toxic gases. The flame must be blue.*
- 5) *Do not touch the unit while it is operating. The housing can become very hot.*
- 6) *The pressure regulator reduces the pressure of the gas cylinder to the working pressure of the CO₂ burner. Never fit any pressure regulator other than 30 mbar.*
- 7) *Do not use the CO₂ generator without the front panel.*