

Autopilot CO₂ Generator natural gas

User manual



Package contents

- 1) The generator
- 2) 1 gas hose
- 3) Pressure regulator
- 4) Adapter 220 V / 2.0 A
- 5) Chain with hook
- 6) 2 sealing caps with hex key
- 7) Sealant

Components



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

Mounting and connecting

Hang or place the unit in a suitable location in a room and keep a minimum distance of 50 cm from walls, ceiling or other objects. Do not place flammable objects 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).

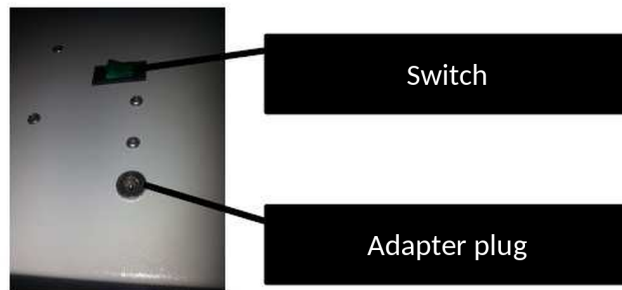


The pressure regulator must be fitted, using a suitable adapter fitting, to a natural gas supply with a gas tap. The other side of the pressure regulator (out) must be connected to the CO₂ generator with the supplied hose.

After installation, open the gas supply just a tiny bit. If the gas supply is suddenly opened fully, the gas-shortage safety device at the gas meter may shut off the gas supply. Loosen the connection on the CO₂ generator so that the air in the hose can escape. As soon as you smell gas, tighten the connection. Slowly open the gas supply fully and check all

connections for leaks using a brush and some soapy water. If bubbles appear, there is a leak. Repair the leak and repeat the procedure. Ventilate the room.

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 burner.
- 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 control unit will close the gas valve. 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 usually 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 add CO₂ during the dark period.
- 2) It is recommended to connect the CO₂ generator to a suitable CO₂ controller with photocell, with which the CO₂ level can be regulated.
- 3) Use natural 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 a standard gas connection to the working pressure of the CO₂ generator. Never fit a different pressure regulator.