LogiCO2 0475 Grow CO2 Enrichment Controller Instruction Manual

Contents

LogiCO2 0475 Grow CO2 Enrichment Controller

Product Information

Specifications

- Power supply: Via Grow CO2 Enrichment Controller
- Power consumption: 420 mA (10 Watt)
- Relays: 1A/24V AC/DC
- Material: PC/ABS
- Operating pressure: 0.15 to 30 bar / 2.2 to 435 Psi
- Bursting pressure: >150 bar / 2,175 Psi
- Treaded connection: 1/4 -18NPT
- Dimensions (WxHxD): Connection box – 78x78x37 mm / 3x3x1.5
- Ingress protection: IP55

Product Usage Instructions

Installation:

1. Install the electronics box in a suitable place where it is mechanically protected.
2. Remove the cover by turning it counterclockwise 1/8 turn to access the mounting screw holes.

Connection:

The Enrichment Valve has a 1-meter Cat5 cable from the electronics box with a blue RJ45 connector. Plug this connector into the blue cable side of the Grow CO2 Enrichment Controller.

Changing CO2 Target Setpoint on Grow CO2 Controller:

1. Press the button setpoint on the Grow CO2 Controller to adjust the CO2 target setpoint.
2. The setpoint for the target CO2 concentration is adjustable

    from 700 to 2000 ppm in steps of 50 ppm.
3. The default setpoint is 1200 ppm.
4. Setpoint OFF stops the CO2 regulation.

For complete instructions and settings, please see the user manual for the Grow CO2 Controller.

FAQ:

Q: What should I do in case of an ALARM on the CO2 Safety System – Mk9?

A: Follow these steps:

1. Keep calm!
2. Turn off the sounding alarm on the Central Unit by pressing the RESET button on the front.
3. Check the type of alarm and which Sensor is giving the alarm by following the instructions provided.
4. After an alarm, always reset the system to ensure that communication, warning lamps, and sounders function properly.

Q: What should I do if there is a HIGH-ALARM indicating a high concentration of CO2?

- **A**: Take precautions and do not enter the risk zone. Evacuate the area and call the fire department.

Q: What should I do if there is a LOW-ALARM indicating a high concentration of CO2?

- **A**: Take precautions and do not enter the risk zone. Evacuate the area and call the fire department.
- Enrichment Valve with filter for Grow CO2 Enrichment Controller.

Important!

- Retain this instruction manual for future reference: Please read these instructions carefully prior to start-up and use.
- Failure to follow any of these instructions could void product warranties.
- LogiCO2 assumes no responsibility for claims arising out of improper or careless use or handling of their products.

Technical specifications

- **Power supply:** Via Grow CO2 Enrichment Controller
- **Power consumption:** 420 mA (10 Watt)
- **Relays:** 1A/24V AC/DC
- **Material:** PC/ABS
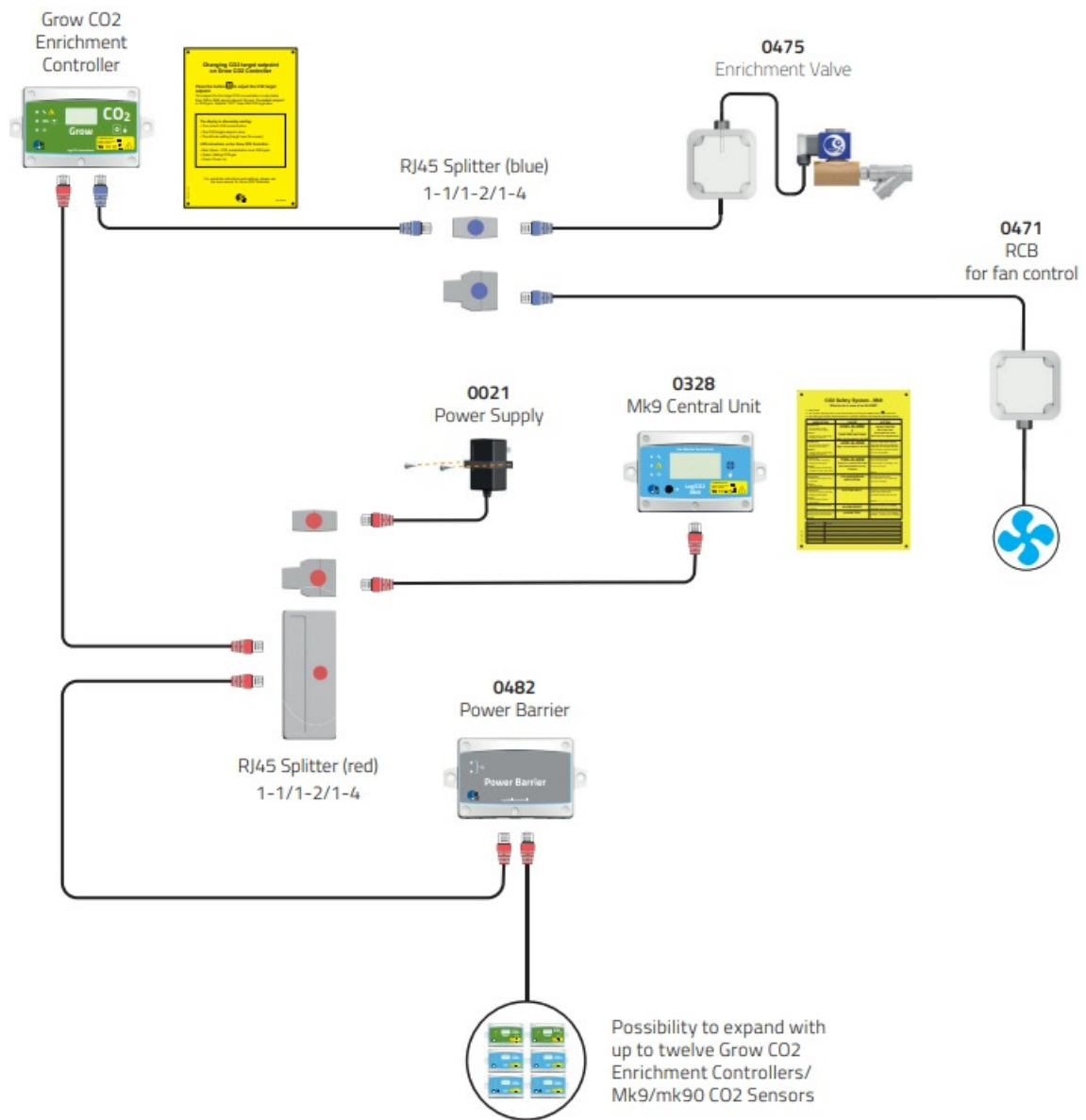- **Operating pressure:** 0,15 to 30 bar / 2,2 to 435 Psi

- **Bursting pressure:** >150 bar / 2 175 Psi
- **Treaded connection:** 1/4" -18NPT
- **Dimensions** (WxHxD)
- **Connection box:** 78x78x37 mm / 3"x3"x1.5"
- **Ingress protection:** IP55

Function

- The enrichment Valve is an accessory for the LogiCO2 Grow CO2 Enrichment Controller. The Grow CO2 Enrichment Controller is a device that measures the concentration of CO2 in the ambient environment of the room being controlled and opens/closes the dispenser valve, to achieve a perfect CO2 environment in the grow room.
- The enrichment Valve consists of a magnetic valve with a filter, electronics box, and cabling. The Enrichment Valve is designed for the usage of CO2 with a pressure of 0,15 to 30 bar or 2,2 to 435 Psi.
- Enrichment Valve has a 1 meter Cat5 cable from the electronics box, with a blue RJ45 connector that is plugged into the blue cable side of the Grow CO2 Enrichment Controller.
- Install the electronics box in a suitable place where it is mechanically protected. Remove the cover by turning it counterclockwise 1/8 turn to access the mounting screw holes.

Connection diagram

- This connection diagram shows an example of how the different systems can be installed.

Annual function control of the Enrichment Valve with filter

Instruction on how to clean the filter on the Enrichment Valve

- Please observe that the flow of CO2 must be turned off manually, by closing the emergency safety valve – and verify that there is no gas pressure in the system. This is very important since you are about to open the system to clean the filter.
- Any debris should be caught inside the filter. By using a socket wrench, carefully remove the filter from the valve and clean it.

- After cleaning, make sure that the filter gasket is in place and mount the filter again firmly. Carefully open the emergency safety valve to allow the flow of CO2 again.

Annual function and installation check of the Enrichment Valve with filter

Checklist Enrichment Valve with filter	YES	NO
Is the Enrichment Valve installed on the downside of the emergency safety valve?		
Does the indication light on the Enrichment Valve turn ON and OFF when the valve is dispensing/not dispensing CO2 gas?		
Has the filter on the Enrichment Valve been cleaned?		

Enrichment Valve installed with filter

- Enrichment Valve installed with filter
- **Manufactured by:** LogiCO2 International AB Box 9097
- **400 92 Gothenburg, Sweden**
- **E-mail: info@logico2.com**
- **Web: www.logico2.com**

Documents / Resources

LogiCO2 0475 Grow CO2 Enrichment Controller [pdf] Instruction Manual
0475 Grow CO2 Enrichment Controller, 0475, Grow CO2 Enrichment Controller, CO2 Enrichment Controller, Enrichment Controller, Controller

References

- **Welcome to LogiCO2 - Logico2**
- **User Manual**