



E-mail: distributor@hyggeraquarium.com

Website: www.hyggeraquarium.com



HC021-DCF User Manual

Hygger CO2 Mini Regulator



1. INTRODUCTION

Specially designed for planted aquariums and eco-aquatic systems, this precision-engineered regulator integrates safety, accuracy, and ease of use. Effortlessly maintains optimal CO2 levels in water, provides stable conditions for aquatic plant photosynthesis, and ensures complete safety for fish and shrimp.

2. PACKING LIST

- | | |
|-------------------------------------|--------------------|
| 1 x Regulator | 1 x Solenoid valve |
| 1 x Bubble counter with check valve | 1 x Adapter |
| 1 x Spare sealing ring | |
| 1 x User manual | |

3. ASSEMBLY



1. Aluminum alloy valve body
2. Cylinder inner pressure gauge
3. Bubble counter with check valve
4. Rotatable needle valve
5. Solenoid valve



Adapter (Input voltage:
100-240V 50/60Hz,
output voltage: 12V 1A)

4. INSTALLATION STEPS

1.Ensure the CO2 cylinder valve is closed. Connect the CO2 cylinder to the regulator and hand-tighten.



2.Open the Rotatable needle valve.
3.Open the cylinder valve.



4. Close the Rotatable needle valve.

5. Attach the solenoid valve to the Rotatable needle valve.



Note: Before installation, ensure the Rotatable needle valve is equipped with a sealing ring.



6.Fill the bubble counter with water to approximately 3/4 full, then install it onto the regulator.



7.Connect the solenoid valve and the adapter, then turn on the switch (to be used with a timer).

8.Adjust the Rotatable needle valve knob while observing the bubble count in the bubble counter, and set to the desired CO2 flow rate.



5. ATTENTIONS

1. Before use, carefully read this manual to ensure proper operation.
2. The solenoid valve requires a timer for operation. (Note: Timer is not included.)
3. Regularly check the sealing performance of the pressure regulator. If gas leaks or malfunctions are detected, promptly replace the seals or perform repairs.
4. Never exceed the adapter's rated working pressure to prevent hazardous conditions.
5. When stopping CO₂ supply, first close the CO₂ cylinder valve. If other devices are connected to the pressure regulator, also close them.

6. TROUBLESHOOTING

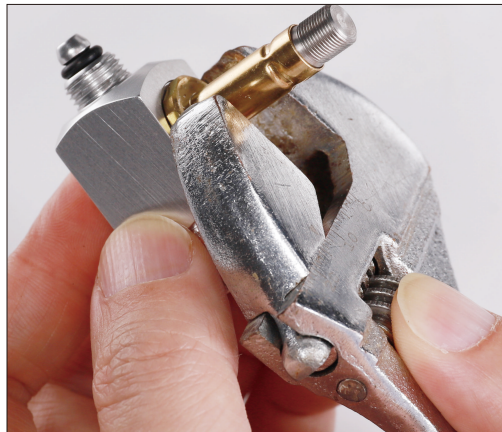
Issue 1: Solenoid valve powered but fails to release gas.

Solution:

1. Disconnect the solenoid valve from power supply first, then shut off the CO₂ cylinder valve.
2. Remove the bubble counter, followed by detaching the solenoid valve.



3. Unscrew the nut on the solenoid valve, then vent residual gas (audible hissing sound).



4. Reinstall the copper rod and solenoid valve, and then reattach bubble counter to the solenoid valve.

5. Reconnect the adapter, activate power and then open CO2 cylinder valve.

Issue 2: Gas leakage persists after solenoid valve de-energization.

Residual gas discharge post-poweroff is normal. Verify actual valve failure via: First, disconnect bubble counter tubing, open the micrometering valve, close the solenoid valve, and inspect for continued bubble formation. No bubbles = Normal operation | Continued bubbles = Proceed to troubleshoot.

1. Deactivate the solenoid valve power, then close the CO2 cylinder valve.
2. Remove the bubble counter, then detach the solenoid valve.
3. Unscrew the nut on the solenoid valve, remove it, and unscrew the copper rod. Inspect the rubber seal surface for debris, clean thoroughly, stretch the spring slightly, and reassemble.



4. Reinstall the copper rod and solenoid valve, then attach the bubble counter to the solenoid valve.
5. Reconnect the adapter, power on the device, and open the CO2 cylinder valve.

7. HYGGER LIMITED MANUFACTURER'S WARRANTY

We offer the end user of this product a manufacturer warranty of 3 (2) years from the date of sale if this product was purchased from a Hygger® -authorised specialist dealer.

Retain receipt for any future warranty claim. Conditions apply. Products are guaranteed by Hygger® Aquatic Supplies to the original purchaser against defective material and workmanship under normal use for a period up to 3 (2) years from the date of the original purchase through an Authorized Dealer. Refer to the User Manual included with your product for specific warranty details.

Products have no warranty if:

- 1.) The product has been serviced, modified or tampered with by anyone other than Hygger® Aquatic Supplies.
- 2.) The product has been abused or damaged (including broken or cracked bulbs), and/ or.
- 3.) The product has been transported without proper packaging.
- 4.) The product was purchased from an Unauthorized Reseller.

WARRANTY LIABILITY DISCLAIMER

In no event will Hygger® be liable for any consequential or incidental damages, including but not limited to, lost aquatic life, personal injury, property damage, equipment damage, lost profits, lost wages, lost savings, lost income, etc., arising out of the use of any Hygger® products.

1.0. Terms and Conditions of Warranty.

- 1.1. Hygger® warrants to the purchaser, for 3 (2) years from date of original purchase through an Authorized Hygger® Reseller, free to repair or replace parts where fault is found due to defective materials or faulty workmanship and where goods do not operate in accordance with the instructions.
- 1.2. All claims for repair or replacement must be made at place of purchase.
- 1.3. Only the direct purchaser is entitled to warranty claims against us and these are not transferable without our consent.
- 1.4. The original and dated Proof of Purchase (receipt) must be supplied with all goods claims. Please also provide this Guarantee where possible.
- 1.5. Wear parts (e.g.: seals, suction devices, axes, pump wheels, light sources, pH electrodes, filter media, such as filter cartridges, as well as UVC burners), glass damage and the opening of the product, as well as structural

changes or the use of non-Hygger® original parts are excluded from the guarantee.

- 1.6. All goods subject to claim under Guarantee should be prepared for transportation in the original packaging or other comparable packaging which offers the same degree of protection and Hygger® must incur no costs from the shipment.
- 1.7. Where claims on inspection reveal goods are in normal working order, Hygger® will request reimbursement of all reasonable costs incurred.
- 1.8. Warranty claims do not exist in the case of only insignificant deviations from the agreed or customary condition or usability, e.g. insignificant deviations in colour, dimensions and/or quality or performance characteristics of the products.
- 1.9. Our warranty obligation extends only to the delivery of newly manufactured products. Unless otherwise agreed, used products are sold as seen, excluding any warranty.

For more warranty information, please see the Hygger website.

8. CONTACT INFORMATION

Distributed by: Hygger Aquarium, Inc.
13941 Magnolia Ave, Chino, CA 91710

E-mail: distributor@hyggeraquarium.com
Website: www.hyggeraquarium.com

Trademarks of Shenzhen Mago Trading Co.,Ltd
Bantian Group Business Center,Longgang,
Shenzhen City, China
All Rights Reserved

Made in China



Have a question? We're here to help:
USA Call: +1 (909) 590-2880
Mon-Fri: 9:00 am - 5:30 pm PST
Sat-Sun: Closed



MADE IN CHINA