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HC018 User Manual

Hygger CO2 Generator Kit

Support

Email: co2@hygger-online.com



The CO2 generator kit is specifically designed for aquatic planted tanks, generating CO2 through specific chemical reactions. The diffuser breaks down CO2 gas into fine bubbles, providing aquatic plants with ample carbon sources to enhance photosynthesis. This promotes healthier, lusher plant growth while improving the aesthetic appeal and ecological balance of the aquarium. The needle valve adjusts the number of bubbles released per second via the bubble counter, and the solenoid valve, when paired with a timer, enables automated on/off control for precise CO2 delivery.

1. PACKING LIST

- ① 1x Stainless steel air cylinder
- ② 1x Valve
- ③ 1x Filter cartridge
- ④ 1x Solenoid valve
- ⑤ 1x Adapter
- ⑥ 1x CO2 bubble counter
- ⑦ 1x CO2 diffuser
- ⑧ 3x Snap-on suction cup
- ⑨ 1x Flush mount suction cup
- ⑩ 1x Air tube
- ⑪ 1x Check valve
- ⑫ 1x Silicone collapsible funnel
- ⑬ 1x U-bend tube
- ⑭ 1x Large sealing ring (spare)
- ⑮ 1x Small sealing ring (spare)
- ⑯ 1x User manual



2. INSTALLATION STEPS

1. Attach the filter cartridge to the valve.
2. Add citric acid and baking soda according to the ratio marked on the bottle neck or specified in the manual.
3. Tilt the bottle at a 45-degree angle, then add water in the appropriate ratio (as indicated on the bottle neck or manual).
4. Quickly screw the valve onto the air cylinder clockwise and tighten securely.
5. Close the fine adjustment valve.
6. Allow 12 hours for the reaction to complete (opening it prematurely may cause valve clogging).
7. Install the solenoid valve.
8. Fill the bubble counter with water up to 3/4 of its capacity, then attach it to the solenoid valve and tighten clockwise.
9. Cut the tube to the desired length, then connect the check valve, U-shaped tube, and diffuser using the tubing. Note: Install the check valve in the direction of the arrow to avoid reverse installation.
10. Connect the tube to the bubble counter, and secure the diffuser inside the aquarium using suction cups.
11. Power on the solenoid valve, open the fine adjustment valve, and adjust the gas flow rate as needed.

3. PRECAUTIONS

1. Read this manual thoroughly before operation to ensure correct usage.
2. When installing the solenoid valve, check for the presence of a sealing ring at the connection between the solenoid valve and the fine-tuning valve.
3. Add raw materials strictly according to the proportions specified in this manual. Exceeding the recommended quantity or doubling the dosage is strictly prohibited.
4. Always tilt the bottle at a 45-degree angle before adding water.
5. Do not touch or move the air cylinder during the reaction process.
6. During the reaction process, normal condensation may occur at the bottle base. The air cylinder should be thoroughly cleaned before replenishing with new raw materials.
7. Prior to replenishing new raw materials, ensure to deactivate the power supply to the solenoid valve first.
8. Material Replacement Steps: Disconnect the tubing from the bubble counter. Open the fine-tuning valve until the pressure gauge reads zero. Unscrew the valve, thoroughly clean the filter element and air cylinder, then add new raw materials.

4. TROUBLESHOOTING

Issue 1: Solenoid valve energized but fails to output gas

Solution:

1. Turn off the fine adjustment valve, loosen the nut, and remove the solenoid valve.
2. Unscrew the copper rod to purge residual gas (listen for a hissing sound indicating gas release).
3. Reinstall the copper rod and solenoid valve assembly.
4. Open the fine adjustment valve.

Issue 2: Gas continues flowing when solenoid valve is de-energized.

Post-deactivation residual gas discharge from the valve body is normal. To verify solenoid valve integrity: Disconnect the bubble meter tubing. Open the fine adjustment valve while closing the solenoid valve. Observe bubble formation – absence indicates normal operation. If bubbles persist, proceed with:

Resolution:

1. Close the fine adjustment valve, loosen the nut, and remove the solenoid valve.
2. Disassemble the copper rod assembly, inspect the rubber seal for contaminants, clean thoroughly, then reinstall after elongating the spring.
3. Reassemble the copper rod and solenoid valve.
4. Reactivate the fine adjustment valve.



CAUTION INFORMATION

- **Do not invert the air cylinder.**
- **Avoid using strong acids or bases.**
- **Do not disassemble valves during operation.**

Raw Material Dosage Ratio:

For 1L capacity: Add 100g citric acid + 100g baking soda + 150mL water

For 2L capacity: Add 200g citric acid + 200g baking soda + 300mL water

For 5L capacity: Add 600g citric acid + 600g baking soda + 900mL water

5. 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.

6. CONTACT INFORMATION

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USA Call: +1 (909) 590-2880
Mon-Fri: 9:00 am - 5:30 pm PST Sat-Sun: Closed



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