

ADA
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NATURE AQUARIUM
Count Diffuser



ADA NATURE AQUARIUM Count Diffuser User Manual

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IMPORTANT

- Before the installation of this product, make sure to read this instruction manual carefully and understand all of its directions.
- Please keep this instruction manual even after reading it and refer back to it when needed.

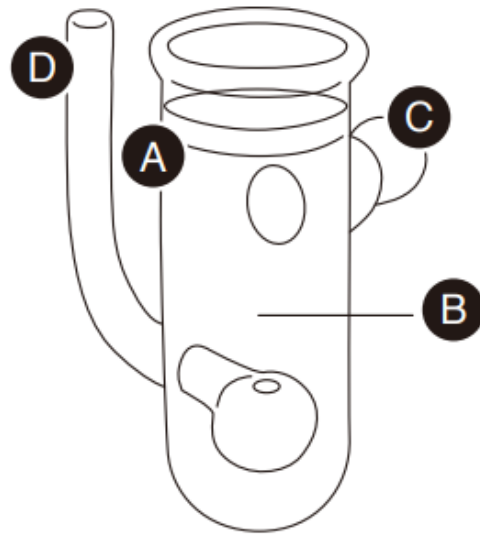
Safety Instruction

- This product is designed to grow and maintain aquatic plants and tropical fish in an aquarium. Please do not use this product for improper purposes.
- Read this instruction manual carefully and follow its directions to use this product.
- Do NOT drop, or expose this product to sudden pressure. Be particularly careful when setting up the tank, removing it for cleaning, and pulling off suction cups or silicone tubes.
- When disposing of broken glassware, be careful not to cut yourself and dispose of it according to your local regulations.
- For cleaning glassware, do NOT use boiled water as it may cause breakage.
- DA shall not be responsible for any disease and death of fishes, and the condition of plants.
- KEEP OUT OF REACH OF CHILDREN.

Features of Count Diffuser

This is a glass CO2 diffuser with a built-in CO2 counter. Its uniquely compact design efficiently diffuses CO2 into water. For use in combination with an ADA genuine CO2 Regulator (sold separately). Compatible tank size: Suitable for tanks with a width of 450-600 mm.

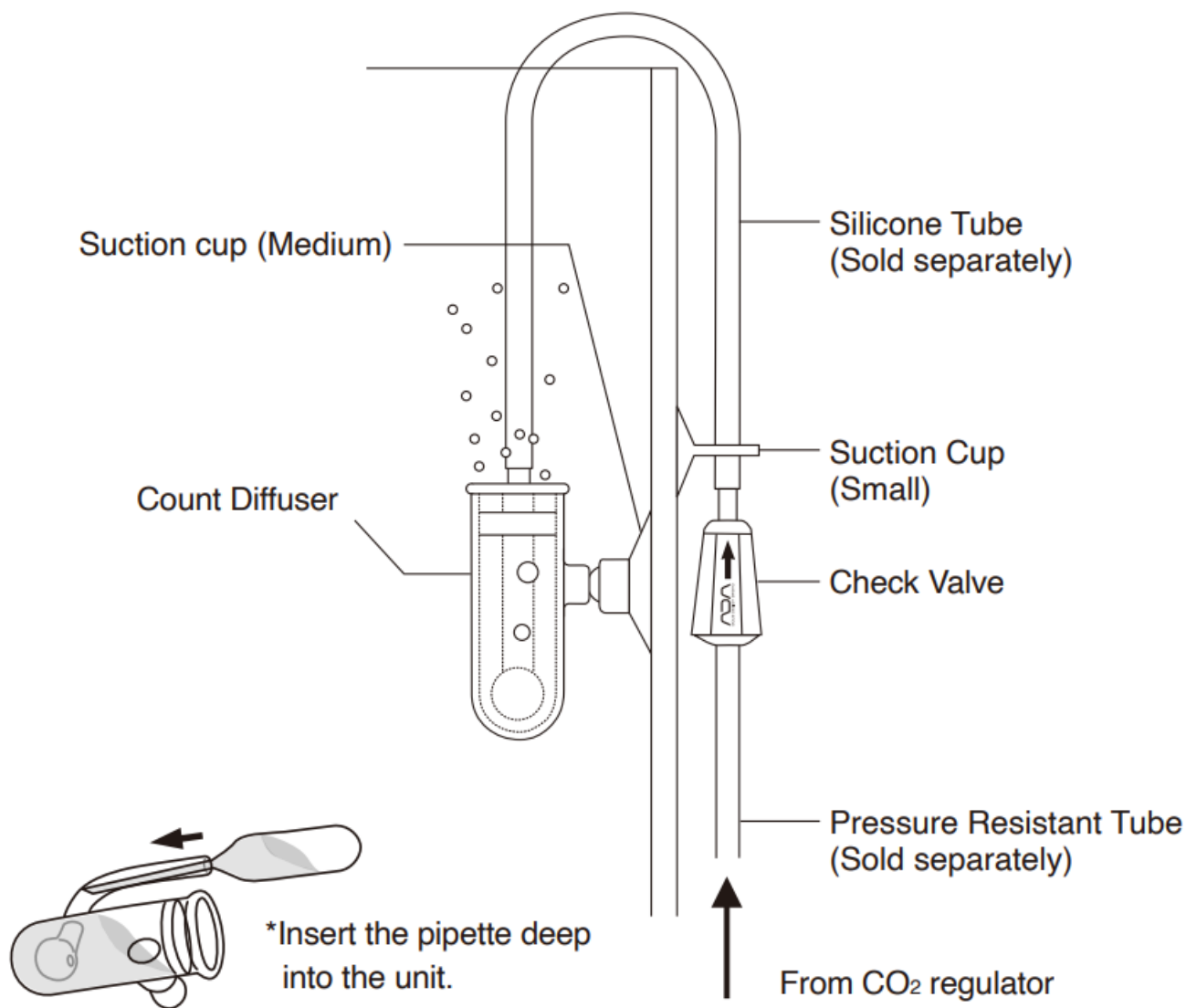
Diagram of COUNT DIFFUSER



COUNT DIFFUSER

- Filter
- Pressure Chamber
- Suction Cup Connection
- Silicone Tube Connection

Installation Diagram



Use the included dropper to fill the pressure chamber with water.

Usage

- Install the unit according to the illustration. It is suitable to install in the middle of the water depth.
- When installing or removing the Count Diffuser, hold the suction cup. When attaching or removing the suction cup or the silicone tube holding the connection proceed. Do not hold other parts to prevent breakage.
- Once you complete the installation, slowly open the adjustment screw of the CO2 regulator and adjust the CO2 amount to the desired amount by checking the number of air bubbles with the Count Diffuser.
- Pollen Glass needs to be installed with a CO2 Bubble Counter to check the CO2 supply level.
- Once you complete the installation, slowly open the fine adjustment screw of the CO2 regulator and adjust the CO2 amount to the desired amount by checking the number of air bubbles with the Count Diffuser. [Supply Guide]
- The proper amount of CO2 supply depends on the growing condition of aquatic plants, the number of plants, and the amount of CO2 level required by each plant. For 600mm tanks, we recommend that you start with one bubble per second when just setting up and gradually increasing the amount as the plants grow.
- If oxygen bubbles appear on the leaves, it indicates that the CO2 supply is adequate. For measuring the correct amount of CO2 supply, we recommend that you use a Drop Checker (Sold separately) and monitor the pH level

of the aquarium water.

- If CO₂ is oversupplied, fish will suffocate and attempt to breathe on the water surface or shrimp will stop using their feet for feeding algae. In such a case, immediately stop the CO₂ supply and start aeration.
- For aquarium tanks with a width of 900mm or more or an aquarium layout with many sun-loving plants such as *Riccia fluitans*, we recommend that you size up to Pollen Glass Large which has a high diffusion efficiency of CO₂.

Maintenance

1. Cleaning is necessary when algae appear on the filter and the amount of air bubbles is reduced. The filter area is not replaceable due to the structure of the product.
2. Prepare Superge (optional) in a container such as a Clean Bottle (optional) and soak the diffuser.
3. Remove Suction Cups and Silicone Tubes before soaking. In general, it will be clean after 30 minutes to a few hours (Refer to the instruction manual of Superge).
4. Wash the diffuser under running water until slime and odor disappear. Add some water using the attached pipette from the Silicon Tube.
5. Connection. Wash away the cleaning agent inside the pressure chamber with water. Cleaning agents are harmful to fish and plants. Wash away the agent completely.
6. After the maintenance, wash your hands thoroughly.

Cautions

- This product is only for CO₂ supply. If connected to an air pump, the pressure will cause damage. For aeration, use the part dedicated to air.
- Be sure to use Silicone Tube for connecting glassware. Pressure Resistant
- Tubes cannot be used to connect glassware.
- Do not supply CO₂ when the light turned is off. Fish, aquatic plants, and microorganisms may suffocate.
- Connect the Check Valve (Backwater valve) to prevent backwater. (Check
- Valve is included in Count Diffuser.)
- Do not scrub the filter area with a brush or any kind of equipment. It may damage the glass filter.

[About Check Valve]

- Check Valve is installed to prevent water from flowing back into the tube, which could cause leaks or damage to the solenoid valve (EL Valve) or CO₂ Regulator when the CO₂ supply is stopped.
- Always connect a Pressure-resistant Tube to the IN side of the Check Valve.
- With only a Silicone Tube connected to the IN side, CO₂ may leak from the surface of the Silicone Tube, causing a pressure drop inside, which may result in the Check Valve not functioning properly.
- Do not connect the Check Valve at a significantly lower position than the aquarium. High water pressure from the OUT side of the Check Valve may cause it to malfunction.
- The Check Valve (made with plastic) is a consumable item. Replace it approximately every year and periodically check that it is functioning correctly.
- Signs of its damage include an unstable CO₂ supply, unusual depletion of the CO₂ cylinder, or water backflow into the Pressure-resistant Tube.

- Replacement Check Valve is included in the Clear Parts Set (sold separately).
- Cabochon Ruby (sold separately) can also be used as a replacement Check Valve.
- Cabochon Ruby does not require regular replacement and can be used semi-permanently.

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MADE IN CHINA

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Documents / Resources



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COUNT_DIFFUSER_S, NATURE AQUARIUM Count Diffuser, NATURE AQUARIUM, Count Diff user, Diffuser

References

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