

## Dennerle 3062

# Dennerle CO2 Evolution QUANTUM Pressure Reducer Instruction Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the Dennerle CO2 Evolution QUANTUM Pressure Reducer, Model 3062. This device is designed to precisely regulate the CO2 supply for aquarium plants, ensuring optimal growth and water parameters. It is compatible with both disposable and reusable CO2 cylinders.

## 2. SAFETY INSTRUCTIONS

- Always handle CO2 cylinders with care. CO2 is a pressurized gas.
- Ensure proper ventilation when working with CO2 systems.
- Do not expose CO2 cylinders or the pressure reducer to direct sunlight or temperatures exceeding 50°C (122°F).
- Always use appropriate seals and ensure all connections are tight to prevent leaks.
- Never attempt to modify the pressure reducer or CO2 cylinder.
- Keep out of reach of children and pets.
- Refer to the CO2 cylinder manufacturer's instructions for additional safety guidelines.

## 3. PACKAGE CONTENTS

Please verify that all components are present in your package:

- Dennerle CO2 Evolution QUANTUM Pressure Reducer
- Backflow Preventer
- Adapter for disposable to reusable CO2 cylinders (if included with your specific model)
- Wrench for installation
- Two replacement seals
- Detailed instruction manual (this document)

## 4. SETUP

Follow these steps to install your Dennerle CO2 Evolution QUANTUM Pressure Reducer:

1. **Prepare the CO2 Cylinder:** Ensure your CO2 cylinder is upright and stable. Remove any protective caps from the cylinder valve.
2. **Attach the Pressure Reducer:** If using a reusable CO2 cylinder, ensure the appropriate seal is in place on the pressure reducer's connection thread. If using a disposable cylinder, ensure the correct adapter (if needed) is securely attached to the pressure reducer first, then attach the seal. Carefully screw the pressure reducer onto the CO2 cylinder valve by hand until it is finger-tight.
3. **Tighten Connection:** Use the provided wrench to firmly tighten the pressure reducer onto the CO2 cylinder. Do not overtighten, as this can damage the seal or threads.
4. **Connect CO2 Tubing:** Attach the CO2-resistant tubing from your aquarium diffuser or reactor to the outlet of the pressure reducer. Secure it with a hose clamp if necessary.
5. **Install Backflow Preventer:** Install the backflow preventer into the CO2 tubing between the pressure reducer and the diffuser. This prevents aquarium water from entering the CO2 system. Ensure the flow direction is correct.



Close-up image of the Dennerle CO2 Evolution QUANTUM Pressure Reducer, featuring its metallic body and two integrated pressure gauges. The left gauge indicates bubble count, and the right gauge displays cylinder pressure in bar.

## 5. OPERATING INSTRUCTIONS

Once the pressure reducer is installed, follow these steps for operation:

1. **Open CO2 Cylinder Valve:** Slowly open the main valve on your CO2 cylinder. The right gauge on the pressure reducer will show the cylinder pressure.

2. **Adjust CO2 Flow:** The Dennerle CO2 Evolution QUANTUM features Dynamic Valve Control (DVC) for precise adjustment. Use the adjustment knob on the pressure reducer to set the desired CO2 bubble count. Turn the knob slowly to increase or decrease the flow.
3. **Monitor Bubble Count:** The left gauge indicates the bubble count (bubbles per minute). Adjust until the desired rate is achieved for your aquarium size and plant requirements.
4. **Check for Leaks:** After initial setup and adjustment, apply a leak detection spray or soapy water to all connections. Look for bubbles, which indicate a leak. Tighten connections as needed.
5. **Daily Monitoring:** Regularly check the bubble count and cylinder pressure. The cylinder pressure gauge will gradually drop as the CO2 is consumed.

## 6. MAINTENANCE

- **Regular Leak Checks:** Periodically check all connections for leaks, especially after changing a CO2 cylinder.
- **Seal Replacement:** The seals between the pressure reducer and the CO2 cylinder should be inspected regularly and replaced if they show signs of wear or damage. Always use original Dennerle replacement seals.
- **Cylinder Replacement:** When the cylinder pressure gauge indicates that the CO2 cylinder is empty, close the cylinder valve, disconnect the pressure reducer, and replace the cylinder. Follow the setup instructions for connecting the new cylinder.
- **Cleaning:** The exterior of the pressure reducer can be wiped clean with a damp cloth. Do not use harsh chemicals or abrasive materials.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No CO2 flow	CO2 cylinder valve closed; cylinder empty; tubing kinked or blocked; pressure reducer not properly attached.	Open cylinder valve; replace cylinder; check tubing; re-attach pressure reducer securely.
Inconsistent CO2 flow / Bubble count fluctuates	Low cylinder pressure; diffuser clogged; fine adjustment knob not stable.	Replace cylinder; clean diffuser; ensure adjustment knob is set firmly.
Gas leak detected	Loose connection; damaged seal.	Tighten all connections; replace seals.
Cylinder pressure gauge reads zero, but cylinder is new	Cylinder valve not fully open; faulty gauge.	Ensure cylinder valve is fully open; contact support if gauge appears faulty.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact Dennerle customer support or your retailer.

## 8. SPECIFICATIONS

- **Model Number:** 3062
- **Dimensions (L x W x H):** 6.2 x 12.4 x 13 cm (approx. 2.4 x 4.9 x 5.1 inches)



- **Weight:** 309 grams (approx. 0.68 lbs)
- **Power:** 1 Watt (Note: This specification may refer to an associated component or general system power, as the pressure reducer itself is mechanical.)
- **ASIN:** B002HIDOO2
- **Compatibility:** Suitable for disposable and reusable CO2 cylinders.

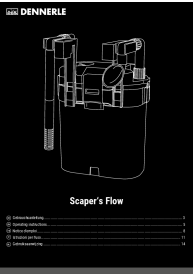
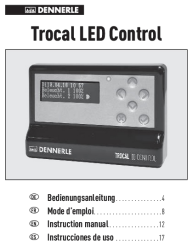

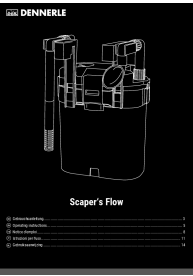
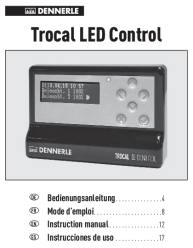

## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official Dennerle website. In case of technical issues or questions, please contact Dennerle customer support. When contacting support, please have your product model number (3062) and purchase details available.



Image of the Dennerle CO2 Evolution QUANTUM Pressure Reducer product packaging, showing the device with two gauges and text highlighting precise CO2 dosing and compatibility with both reusable and disposable CO2 cylinders.

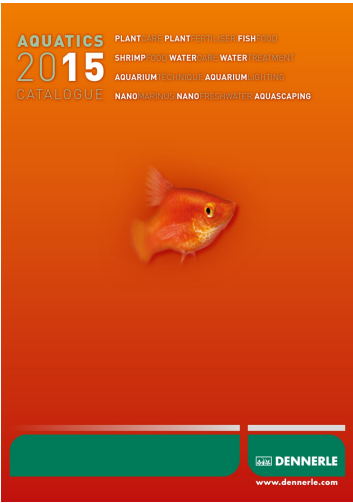
Related Documents - 3062

	<p><a href="#">Dennerle Scaper's Flow Hang-on External Filter: Operating Instructions and Guide</a></p> <p>Comprehensive operating instructions and guide for the Dennerle Scaper's Flow hang-on external filter, suitable for freshwater aquariums from 30 to 120 liters. Covers safety, installation, maintenance, and troubleshooting.</p>
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	<p><a href="#">Dennerle Trocal LED Control - Aquarium Lighting Controller Manual</a></p> <p>Comprehensive guide to operating the Dennerle Trocal LED Control, a device designed to manage aquarium LED lighting. It covers setup, safety, component identification, connecting lights and PCs, menu navigation, detailed programming of lighting schedules, simulating moonlight, time-lapse functions, acclimatization, display settings, language options, system configurations, troubleshooting, and warranty information.</p>
	<p><a href="#">Dennerle Nano Eckfilter XL: Compact Aquarium Filter Guide</a></p> <p>Comprehensive instructions for the Dennerle Nano Eckfilter and Eckfilter XL, covering setup, maintenance, technical specifications, and spare parts for mini-aquariums.</p>



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