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MagTool Nano DC Pinwheel Pump Protein Skimmer

MagTool Nano DC Pinwheel Pump Protein Skimmer Instruction Manual

Model: Nano DC Pinwheel Pump Protein Skimmer

Brand: MagTool

Introduction

The MagTool Nano DC Pinwheel Pump Protein Skimmer is designed for efficient protein removal in nano reef tanks. This compact unit can be used either in-tank or hang-in-sump, making it suitable for rear sump and cabinet sump tanks up to 26 gallons (100L). Its design focuses on quiet operation and effective waste removal to maintain optimal water quality.

Key Features:

- **Compact Design:** Small footprint (3.4 inches in diameter) for versatile placement in nano reef tanks.
- **Efficient Protein Removal:** Low noise DC pump with a pinwheel impeller generates fine, smooth bubbles for effective skimming.
- **Optimized Collection:** Unique cone-shape reactor chamber facilitates efficient bubble collection.
- **Adjustable Water Level:** Rotatable body allows for easy adjustment of foam collection and moisture levels.
- **Silent Operation:** Integrated air intake silencer minimizes operational noise.
- **Rimless Tank Compatibility:** Designed specifically for use with rimless aquariums.

Package Contents

Please ensure all components are present and undamaged before proceeding with installation.



Image: Contents of the MagTool Nano DC Protein Skimmer package.

- Protein Skimmer Body (Reaction Chamber)
- Collection Cup with Lid
- DC Pinwheel Pump
- Mounting Bracket with Screws
- Soft Tubing (Red)
- Drain Valve
- Power Adapter

- Air Intake Silencer (if separate)
- Instruction Manual

Component Identification

Familiarize yourself with the various parts of the protein skimmer:

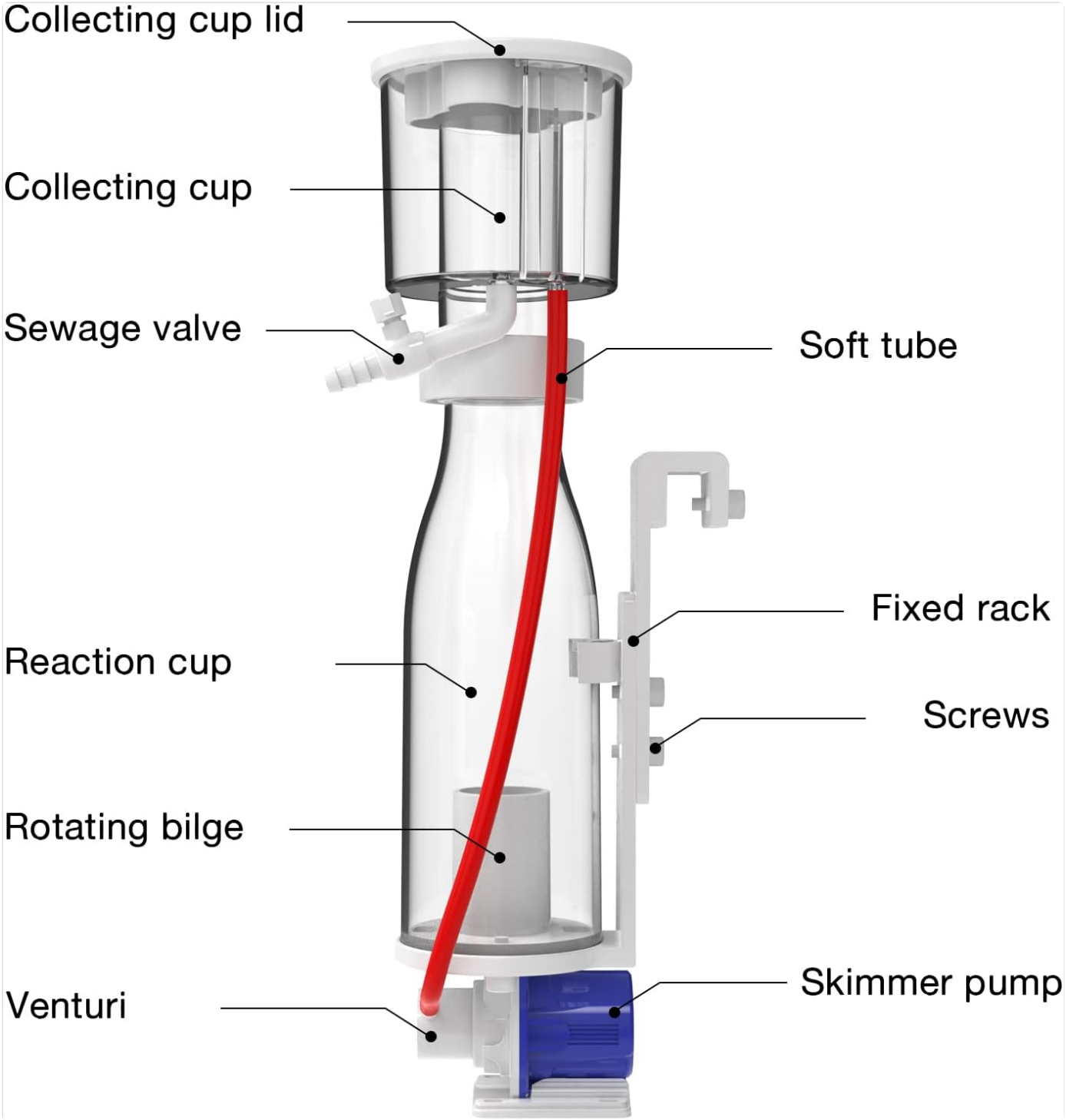


Image: Labeled diagram of the protein skimmer components.

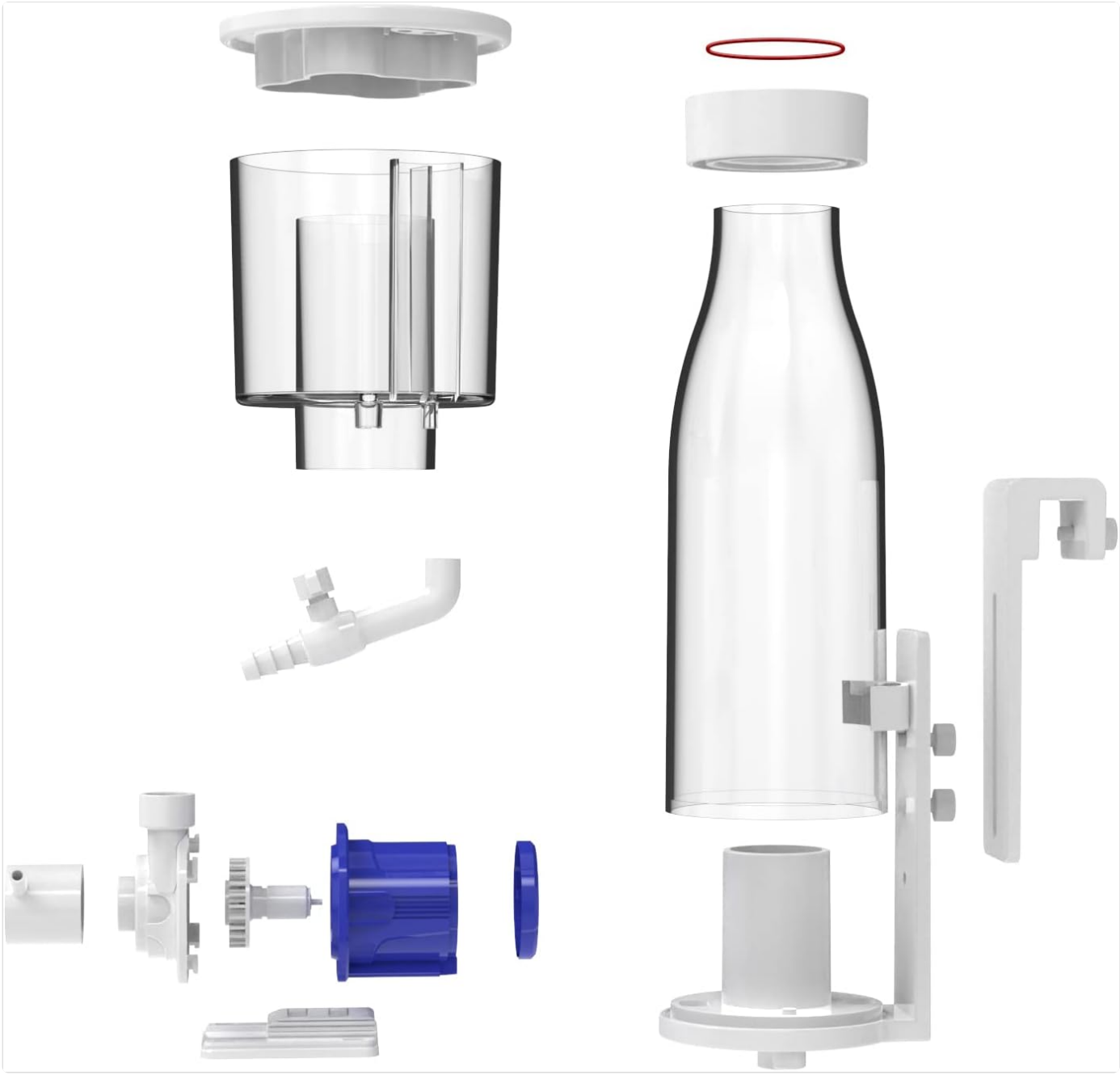


Image: Exploded view of the protein skimmer components for assembly.

Setup and Installation

Follow these steps to assemble and install your MagTool Nano DC Protein Skimmer.

Assembly Steps:

1. **Attach Pump to Reaction Chamber:** Secure the DC pinwheel pump to the bottom of the reaction chamber. Ensure a tight fit.
2. **Connect Tubing:** Attach the soft red tubing to the pump's air intake and route it upwards.
3. **Attach Collection Cup:** Place the collection cup onto the top of the reaction chamber and twist to secure.
4. **Install Drain Valve:** Connect the drain valve to the side of the collection cup.
5. **Attach Mounting Hardware:** Secure the mounting bracket to the side of the skimmer body using the provided screws. Adjust the height as needed for your tank's water level.
6. **Connect Power:** Plug the pump's power cable into the power adapter.

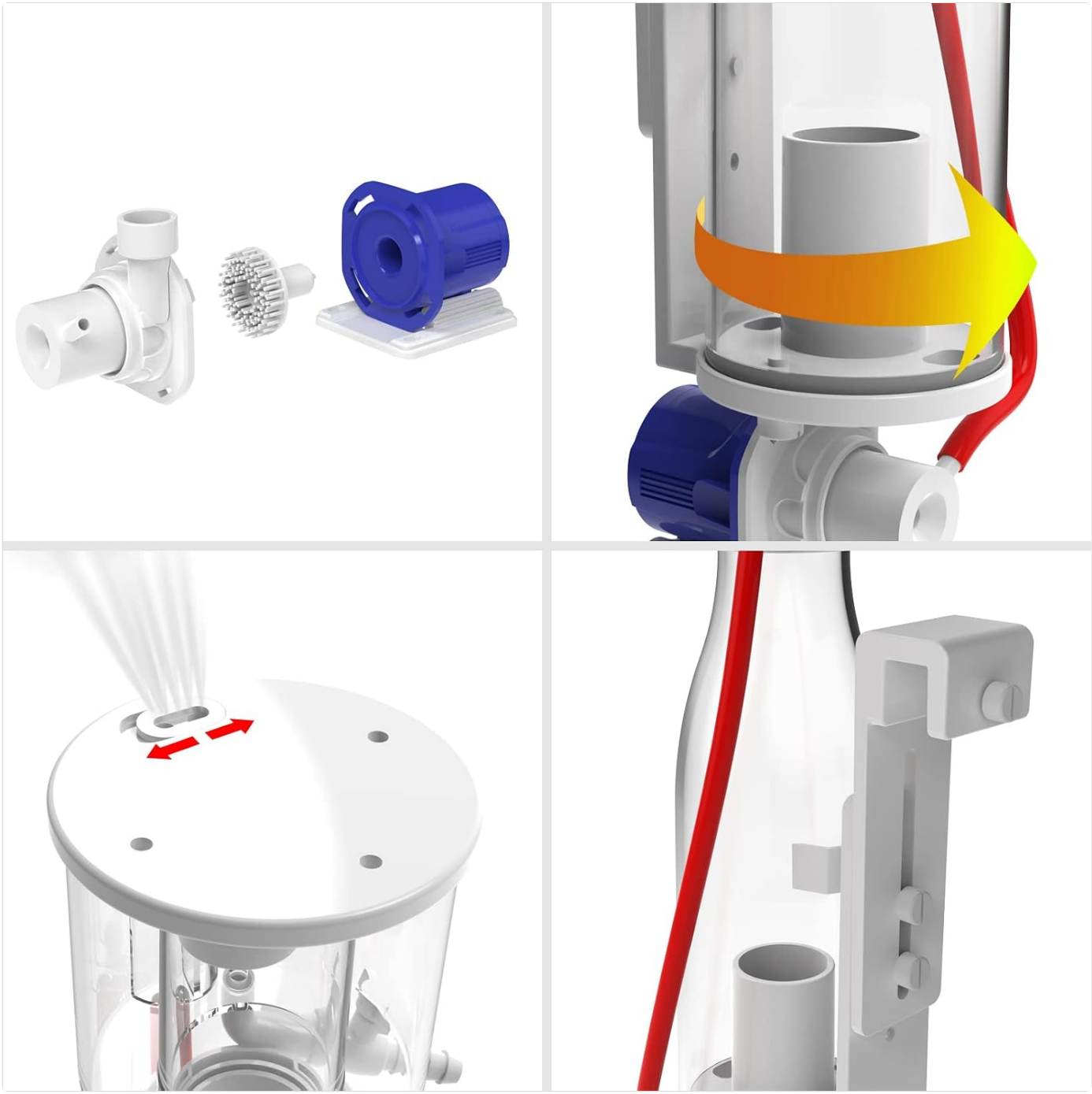


Image: Visual guide for assembling the protein skimmer.

Placement Options:

The skimmer offers flexible placement options:

- **Hang-in-Rear or Side Sump:** Recommended for optimal performance and minimal microbubbles in the display tank. Requires a minimum of 3.3 inches of space.
- **Hang-in-Tank:** Can be placed directly in the display tank, though some fine bubbles may enter the tank.
- **Hang-in-Cabinet Sump:** Suitable for larger sump setups.

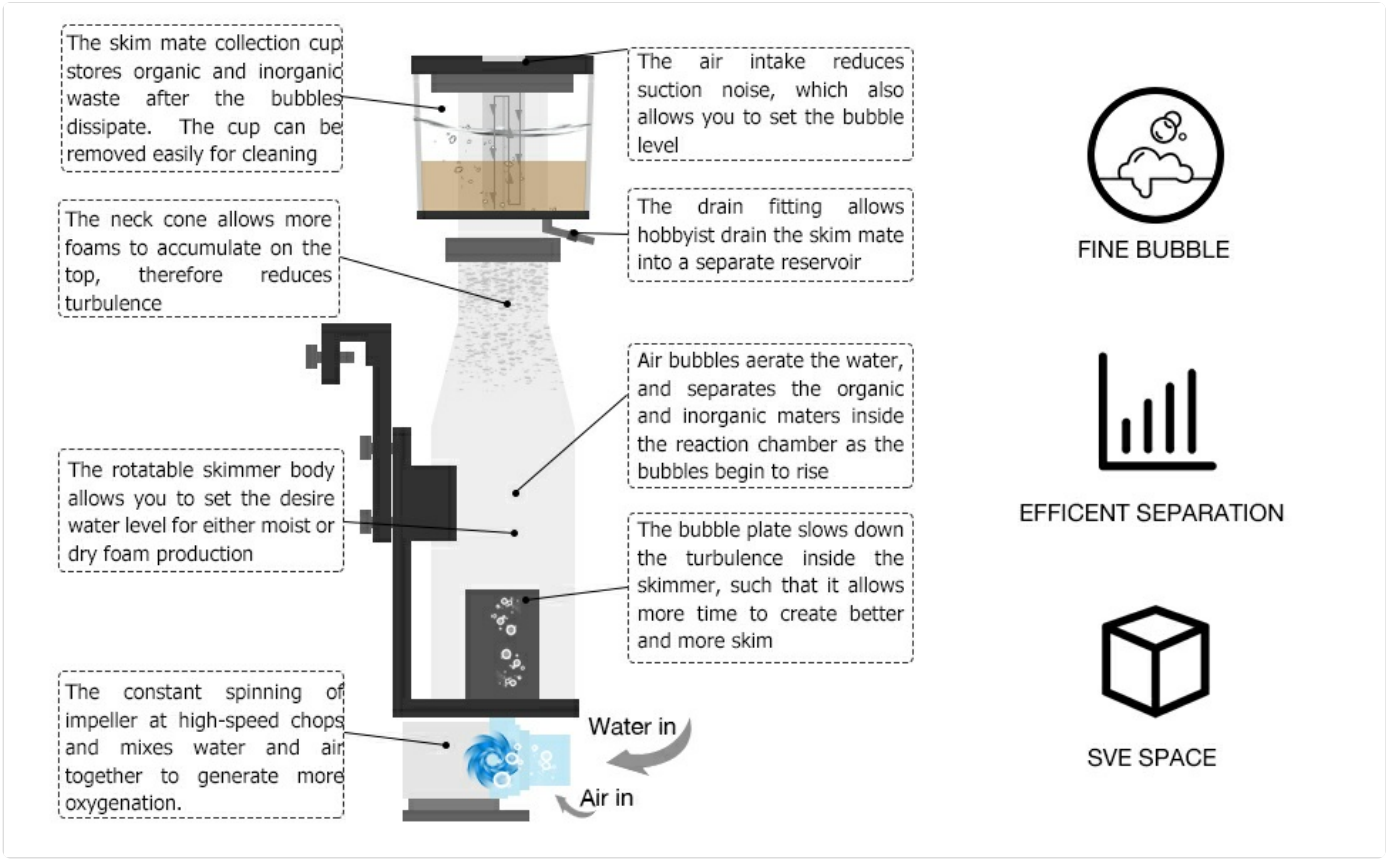


Image: Various installation options for the protein skimmer.

Video Guide: Unboxing and Installation

Your browser does not support the video tag.

Video: A detailed guide on unboxing and installing the MagTool Nano DC Protein Skimmer.

Operating Instructions

Once installed, the skimmer requires minimal adjustment for optimal performance.

Adjusting Skim Level:

The rotatable body allows you to set the desired water level for either moist or dry foam production. Rotate the skimmer body to raise or lower the foam level in the collection cup. For a drier skim, lower the water level; for a wetter skim, raise it.



Image: Adjusting the skimmer neck to control foam production.



Image: Adjusting the skimmer height using the mounting bracket.

The air intake silencer helps reduce noise and allows for fine-tuning of the bubble level.



Image: Diagram illustrating the protein skimmer's operational principles.

Maintenance

Regular maintenance ensures the longevity and efficiency of your protein skimmer.

- **Empty Collection Cup:** The skim mate collection cup stores organic and inorganic waste. It should be emptied and cleaned regularly (e.g., daily or every few days, depending on bioload) to prevent overflow and maintain skimmer efficiency. The cup can be easily removed for cleaning.
- **Clean Skimmer Body and Pump:** Periodically (e.g., monthly), disassemble the skimmer body and pump to clean any accumulated detritus or algae. Use a soft brush and warm water. Avoid harsh chemicals.
- **Check Tubing:** Ensure all tubing is free from kinks and blockages.



Image: Skim mate collected in the cup, indicating effective waste removal.



Image: Drain fitting for connecting to an external waste reservoir.

Troubleshooting

Problem	Possible Cause	Solution
No or Low Foam Production	• Skimmer not broken in (new unit). • Water level too low in skimmer body. • Air intake blocked or restricted. • Low organic load in tank.	• Allow 1-2 weeks for break-in period. • Adjust skimmer height or water level to raise foam. • Check and clear air intake tubing and silencer. • This is normal for very clean tanks.
Excessive Foam / Overflowing Collection Cup	• Water level too high in skimmer body. • Recent water change or dosing (e.g., medications, additives). • High organic load.	• Adjust skimmer height or water level to lower foam. • This is temporary; skimmer should stabilize. • Clean collection cup more frequently.

Problem	Possible Cause	Solution
Excessive Noise	• Air intake silencer not properly installed or clogged. • Pump vibrating against tank/sump.	• Check and clear air intake silencer. • Ensure skimmer is securely mounted and not touching other surfaces.

Specifications

Feature	Detail
Brand	MagTool
Model	Nano DC Pinwheel Pump Protein Skimmer
Color	Black
Material	Plastic
Style	Submersible
Product Dimensions	3.4"L x 3.4"W x 3.4"H
Power Source	DC Powered
Item Weight	2.83 pounds
Recommended Tank Size	Up to 26 gallons (100L)

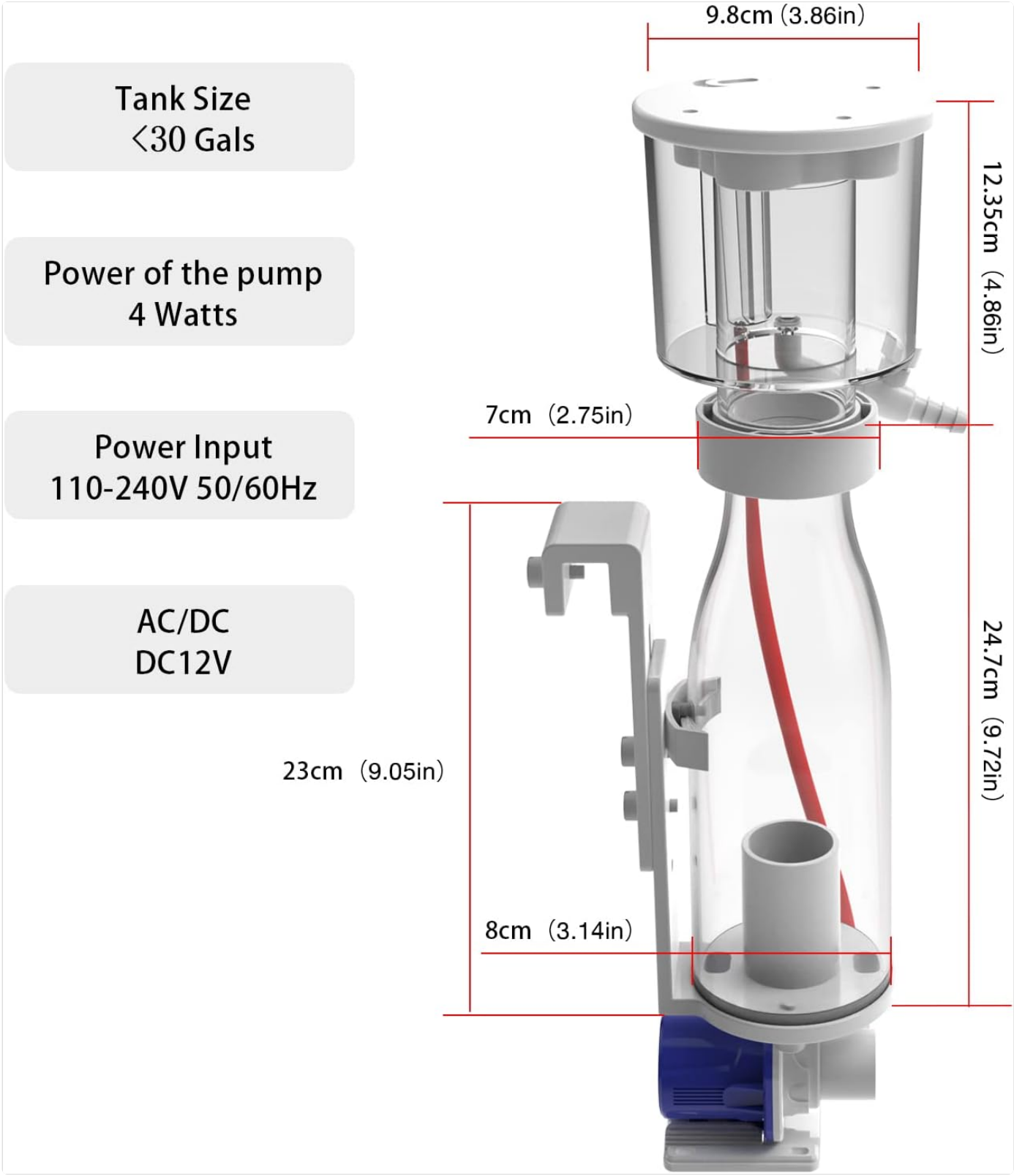


Image: Dimensions of the protein skimmer.

Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your product packaging or visit the official MagTool website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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