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› Chihiros Aquarium Dosing Pump - Precision Dosing Pumps for Reef Aquariums - Ideal for Reef Dosing Supplements and Water Treatments - 12V DC Dosing Pump for Aquarium Tanks

CHIIHIROS AQUATIC STUDIO 54147

Chihiros Aquarium Dosing Pump User Manual

Model: 54147

Brand: CHIIHIROS AQUATIC STUDIO

PRODUCT OVERVIEW

The Chihiros Aquarium Dosing Pump is designed for precise and controlled delivery of essential liquids, such as reef dosing supplements and water treatments, into your aquarium. This system ensures the well-being of your aquatic ecosystem by simplifying the dosing process.

- **Precision Dosing:** Delivers accurate and controlled dosages for optimal aquatic health.
- **Versatile Compatibility:** Works seamlessly with various dosing containers and adapters.
- **Low-Maintenance Design:** Durable construction ensures longevity and consistent performance.
- **Adaptable Power Source:** 12V DC power supply suitable for both small and large water tanks.
- **Quiet and Reliable:** Operates silently while ensuring optimal nutrient distribution.



Image: The Chihiros Aquarium Dosing Pump, featuring a sleek silver body and four black pump heads, designed for precise liquid delivery in aquariums.

WHAT'S INCLUDED

Verify that all components are present in the package before proceeding with installation.

What`s included

Dose (Chihiros dosing pump)

Power adapter

Measuring cylinder

Cable

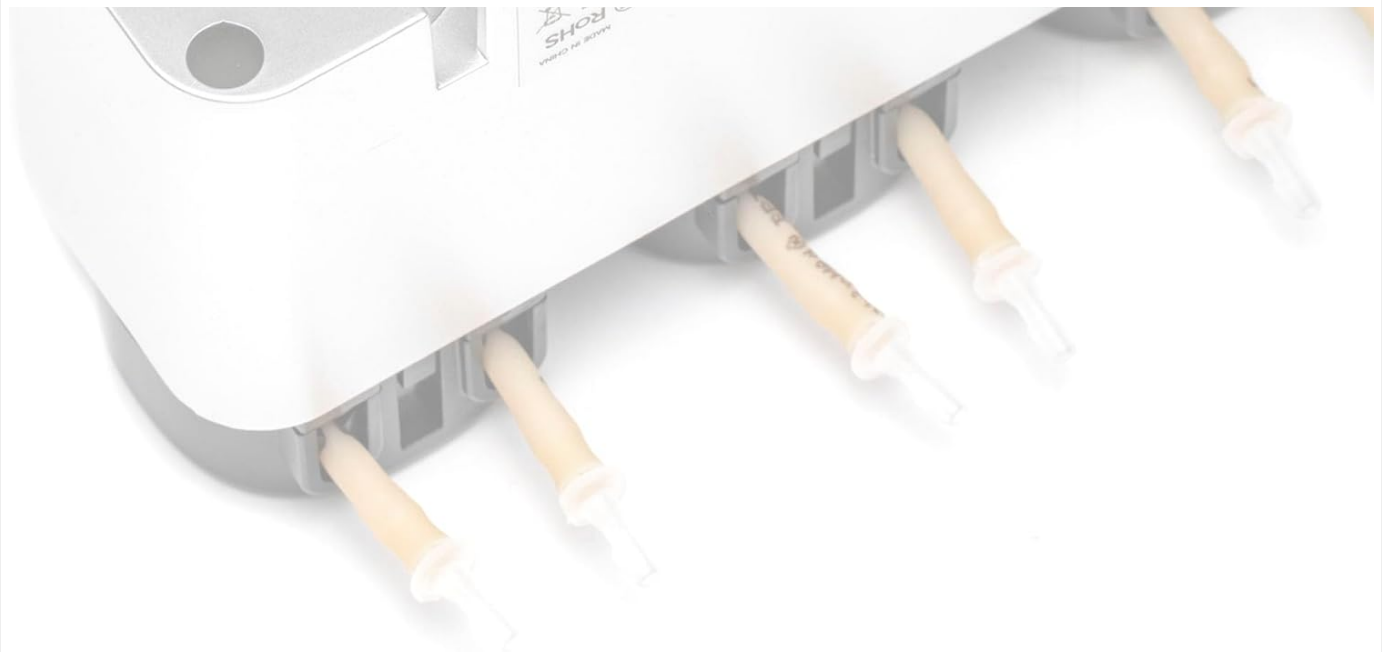


Image: A visual representation of the items included with the Chihiros Dosing Pump: the dosing pump unit, a power adapter, a measuring cylinder, and a connecting cable.

- Chihiros Dosing Pump Unit
- Power Adapter
- Measuring Cylinder
- Connecting Cable

SPECIFICATIONS

Detailed technical specifications for the Chihiros Aquarium Dosing Pump.



SPECIFICATIONS

Number of dosing heads	4
Dose flow	50ml/min
Operating Temperature	5 to 45° C (41 to 113° F)
Relative Humidity	15~85%RH
Supply voltage	100-240V 50/60Hz
Operating Voltage	DC 12V

Image: A table outlining the key specifications of the dosing pump, including number of dosing heads, dose flow, operating temperature, relative humidity, supply voltage, and operating voltage.

Specification	Value
Number of Dosing Heads	4
Dose Flow	> 50 ml/min
BPT Lifetime	≥ 1000H
Dimensions (L x W x H)	17.7 x 5.4 x 4.2 cm (7.0" x 2.2" x 1.7")
Operating Temperature	5 to 45° C (41 to 113° F)
Relative Humidity	15~85% RH
Supply Voltage	100-240V 50/60Hz
Operating Voltage	DC 12V

Material	Plastic
Color	Black
Item Weight	2.31 pounds

SETUP INSTRUCTIONS

Follow these steps to set up your Chihiros Dosing Pump for optimal performance.

1. **Placement:** Choose a stable, dry location near your aquarium, ensuring it is protected from splashes and direct sunlight.
2. **Connect Tubing:**
 - Connect the inlet tubing from your dosing containers to the respective inlet ports on the dosing pump.
 - Connect the outlet tubing from the dosing pump to your aquarium or sump. Ensure tubing is securely fastened to prevent leaks.



Image: A complete dosing system setup showing the Chihiros Dosing Pump connected via tubing to four separate dosing containers

and then to an aquarium, illustrating the flow path.

3. **Power Connection:** Connect the power adapter to the dosing pump and then plug it into a suitable electrical outlet.
4. **Initial Priming:** Before first use, it is recommended to prime the pump heads to ensure proper flow. Refer to the app instructions for priming procedures.

Complete Dosing System



Dosing pump



Dosing tube holder



Dosing container kit
(Container + Holder)

Image: An illustration detailing the components of a complete dosing system: the dosing pump, dosing tube holder, and dosing container kit (containers and holder).

OPERATING INSTRUCTIONS

The Chihiros Dosing Pump is primarily controlled via a dedicated mobile application. Ensure your device is connected to

the internet for initial setup and synchronization.

1. **Download App:** Download the official Chihiros app from your mobile device's app store.
2. **Pairing:** Follow the in-app instructions to pair your dosing pump with your mobile device. This typically involves Bluetooth or Wi-Fi connection.
3. **Program Dosing Schedule:**
 - Within the app, select the desired dosing head (1-4).
 - Set the specific volume (ml) and frequency (e.g., daily, weekly) for each supplement or treatment.
 - The app allows tracking of remaining amounts in your dosing containers, aiding in timely refills.
4. **Manual Dosing (if available):** Some models may offer manual dosing options via the app for immediate, one-time dosages.

Note: Regular calibration and monitoring through the app are recommended to maintain dosing accuracy.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your dosing pump.

- **Tubing Inspection:** Regularly inspect all tubing for kinks, blockages, or signs of wear. Replace tubing as needed, especially if it becomes brittle or discolored.
- **Pump Head Cleaning:** Periodically clean the pump heads to prevent buildup from dosing solutions. Disconnect power before cleaning. Refer to the app or manufacturer's website for detailed cleaning instructions.
- **Peristaltic Tube Replacement:** The BPT (Biocompatible Peristaltic Tubing) inside the pump heads has a lifetime of approximately 1000 hours. Replace these tubes when they show signs of wear or reduced performance to maintain dosing accuracy.
- **Storage:** If storing the pump for an extended period, ensure it is clean, dry, and stored in a cool, dark place.

TROUBLESHOOTING

This section addresses common issues you might encounter with your dosing pump.

Pump Not Dosing / Inconsistent Flow:

- Check power connection and ensure the pump is receiving power.
- Verify that the tubing is not kinked, blocked, or disconnected.
- Ensure dosing containers have sufficient liquid.
- Check if the peristaltic tubes are worn out and require replacement.
- Confirm the dosing schedule is correctly set in the app and synchronized with the pump.
- *Tip:* Some users have found stretching the tubes inside the pump can help initiate flow if it's stuck.

App Connectivity Issues:

- Ensure Bluetooth/Wi-Fi is enabled on your mobile device.
- Restart the app and/or the dosing pump.
- Check if your mobile device's operating system is up to date.
- Ensure the pump is within range of your mobile device or Wi-Fi network.

Tubing Does Not Fit:

- The pump tips are designed for specific tubing sizes. Ensure you are using tubing with the correct inner diameter

(ID). If using third-party tubing, verify compatibility with Chihiros specifications.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact CHIHIROS AQUATIC STUDIO directly or visit their official website.

You may also consider purchasing extended protection plans for additional coverage, available through authorized retailers.

For further assistance, refer to the [CHIHIROS AQUATIC STUDIO Store on Amazon](#).

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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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