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> [Jebao Jacob EP1000 DC Aquarium Return Pump with LCD Controller User Manual](#)

## Jebao EP1000

# Jebao Jacob EP1000 DC Aquarium Return Pump User Manual

Model: EP-1000

## 1. INTRODUCTION

Thank you for choosing the Jebao Jacob EP1000 DC Aquarium Return Pump. This pump is designed for various aquatic applications including aquariums, ponds, fountains, sumps, and hydroponics. It features a DC motor with SINE wave technology for ultra-quiet operation, an LCD controller for speed adjustment, and built-in protection mechanisms. This manual provides essential information for the safe and efficient operation and maintenance of your pump.



Image 1.1: The Jebao Jacob EP1000 DC Aquarium Return Pump and its LCD controller.

## 2. SAFETY INSTRUCTIONS

Please read and follow all safety instructions carefully to prevent injury or damage to the product.

- Always disconnect power before performing any maintenance or installation.
- Ensure the pump and controller are placed in a dry, well-ventilated area, away from direct sunlight or extreme temperatures.
- Do not operate the pump if the power cord or plug is damaged.
- This pump is designed for both fresh and saltwater use.
- Do not run the pump dry for extended periods, as this can cause damage.
- Keep out of reach of children.

### 3. PACKAGE CONTENTS

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Verify that all components are present in the package:

- Jebao Jacob EP1000 DC Return Pump
- LCD Controller
- Power Adapter
- Hose Connectors/Fittings
- Mounting Accessories (e.g., rubber feet, controller bracket)





Image 3.1: Overview of all included components for the EP1000 pump system.

## 4. SETUP

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### 4.1 Pump Placement

The EP1000 pump can be used submerged (with bottom blowing and side draught) or externally (dry use).

- **Submerged Use:** Place the pump securely in your sump or water reservoir. Ensure the intake is clear of debris.
- **External (Dry) Use:** Position the pump on a stable, level surface outside the water. Ensure the pump is below the water level of the source to allow for gravity feeding.

### 4.2 Connecting Tubing

1. Select the appropriate hose connector for your tubing size.
2. Attach the connector securely to the pump's outlet.
3. Connect your return tubing to the pump's outlet connector. Use hose clamps if necessary to prevent leaks.

### 4.3 Connecting Controller and Power

1. Connect the pump's cable to the designated port on the LCD controller.
2. Connect the power adapter to the controller.
3. Plug the power adapter into a suitable electrical outlet.

## 5. OPERATING INSTRUCTIONS

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The EP1000 features a manual control system with a visual LCD display.



Image 5.1: The LCD controller for the EP1000 pump, showing control buttons and display.

### 5.1 Power On/Off

- Press the **Power button** (central button) once to turn the pump on.
- Press and hold the **Power button** for a few seconds to turn the pump off.

### 5.2 Adjusting Flow Rate

- Use the **Up (▲)** and **Down (▼)** arrow buttons on the controller to increase or decrease the pump's flow rate. The LCD will display the current speed setting.

### 5.3 Pause Function

- Press the **Pause button** (||) to temporarily stop the pump. This is useful during feeding or maintenance.
- The pump will automatically resume operation after a preset time (typically 5-10 minutes) or when the **Pause button** is pressed again.

### 5.4 Mode Selection

- Press the **MODE button** to cycle through different operational modes, if available. Refer to the LCD display for mode indicators (e.g., M1, M2, M3, M4).

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and extends the lifespan of your pump.

### 6.1 Cleaning the Pump

1. Disconnect the pump from power.
2. Remove the pump from the water or disconnect tubing for dry use.
3. Disassemble the pump housing and impeller cover.
4. Clean all components with a soft brush and clean water. For stubborn deposits (e.g., calcium buildup), soak parts in a mild acid solution (like vinegar) for several hours, then scrub clean.
5. Rinse all parts thoroughly before reassembly.

### 6.2 Impeller and Ceramic Shaft

- Inspect the impeller and ceramic shaft for any signs of wear or damage. Replace if necessary.
- The ceramic shaft is wear-resistant, contributing to a longer operational life. Ensure it is free of debris during cleaning.

## 7. TROUBLESHOOTING

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If you encounter issues with your EP1000 pump, refer to the following table:

Problem	Possible Cause	Solution
Pump not starting	No power, clogged impeller, airlock (for dry use)	Check power connection. Clean impeller. Prime pump by ensuring water flows into the intake before starting.
Reduced flow	Clogged intake/impeller, kinked tubing, incorrect speed setting	Clean pump and impeller. Check tubing for obstructions. Increase speed setting on controller.
Unusual noise/vibration	Debris in impeller, worn impeller, improper installation	Clean impeller. Inspect impeller for damage. Ensure pump is securely placed and not vibrating against surfaces.
Error Code (e.g., Er-03)	Dry run protection, locked rotor protection, no water detected	Ensure pump is fully submerged or primed with water for dry use. Check for obstructions preventing impeller rotation. Power cycle the pump.

## 8. SPECIFICATIONS

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Key technical specifications for the Jebao Jacob EP1000 DC Return Pump:

- **Model:** EP-1000
- **Flow Rate:** 317 GPH / 1200 LPH
- **Maximum Lifting Height:** 4.9 Feet (1.5 meters)
- **Power Source:** DC 24 Volts
- **Material:** Acrylonitrile Butadiene Styrene (ABS)
- **Dimensions (L x W x H):** 3.76" x 2.13" x 2.83"
- **Item Weight:** 1.69 pounds
- **Features:** Manual control, visual LCD display, bottom blowing, side draught, dry use capability, SINE wave technology, IC electronic detection, dry/locked rotor protection, automatic power-off upon no water, wear-resistant ceramic shaft.



Image 8.1: Side view of the EP1000 pump, displaying technical information on its label.

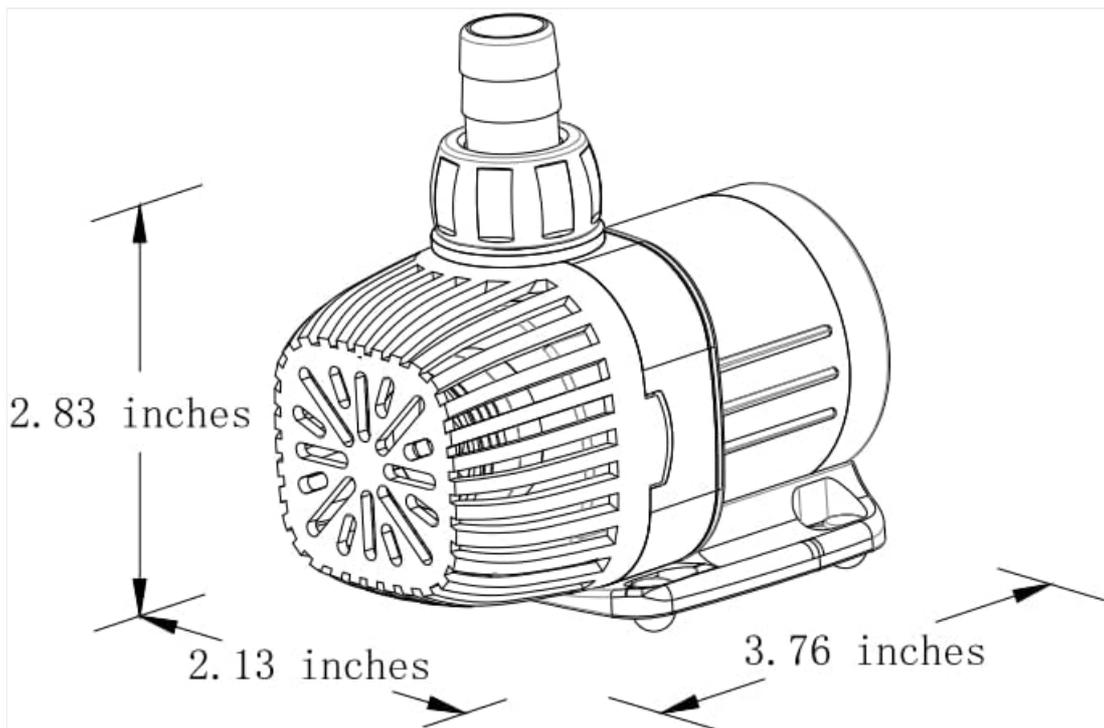


Image 8.2: Dimensional diagram of the EP1000 pump, indicating length, width, and height.

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the documentation provided with your purchase or contact Jebao customer service. Keep your purchase receipt as proof of purchase.

 <p><b>Jebao</b> Smart Wave Maker USER'S MANUAL</p> <p><b>WARNINGS</b></p> <ol style="list-style-type: none"> <li>1. Do not touch the motor. It will get very hot when it is running.</li> <li>2. Do not touch the motor when it is running. It will get very hot when it is running.</li> <li>3. Do not touch the motor when it is running. It will get very hot when it is running.</li> <li>4. Do not touch the motor when it is running. It will get very hot when it is running.</li> <li>5. Do not touch the motor when it is running. It will get very hot when it is running.</li> </ol> <p>MCP - MUV - MOW SERIES</p>	<p><a href="#">Jebao Smart Wave Maker User Manual - Setup, Operation, and Troubleshooting</a></p> <p>Comprehensive user manual for the Jebao Smart Wave Maker (MCP, MLW, MOW SERIES), covering installation, features, app control via Jebao Aqua, various wave modes, troubleshooting, and maintenance. Learn how to set up and operate your Jebao wave maker for optimal aquarium conditions.</p>
 <p><b>Jebao</b> Cross-Flow Wave Pump User Manual</p>	<p><a href="#">Jebao Cross-Flow Wave Pump User Manual: CP-90, CP-120, CP-150</a></p> <p>User manual for Jebao Cross-Flow Wave pumps, models CP-90, CP-120, and CP-150. Includes safety instructions, assembly guidance, controller operation, maintenance, and technical specifications.</p>
 <p><b>Jebao</b> Aquarium Light AL - AK Series User's Manual</p> <p><b>Caution</b></p> <ol style="list-style-type: none"> <li>1. Do not look directly at the light. It will get very hot when it is running.</li> <li>2. Do not touch the light when it is running. It will get very hot when it is running.</li> <li>3. Do not touch the light when it is running. It will get very hot when it is running.</li> <li>4. Do not touch the light when it is running. It will get very hot when it is running.</li> <li>5. Do not touch the light when it is running. It will get very hot when it is running.</li> </ol>	<p><a href="#">Jebao AL &amp; AK Series Aquarium Light User Manual - Setup, Features, and App Control</a></p> <p>Comprehensive user manual for Jebao AL and AK Series aquarium lights. Covers product introduction, specifications, installation, Wi-Fi setup, app download and control, modes, and troubleshooting.</p>
 <p><b>Jebao</b> UV Fountain Pump User Manual</p>	<p><a href="#">Jebao UV Fountain Pump User Manual</a></p> <p>User manual for Jebao UFP-1000 and UFP-2000 UV fountain pumps, detailing installation, maintenance, troubleshooting, and safety instructions.</p>
 <p><b>Jebao</b> MDC Pumpen Bedienungsanleitung</p> <p>MDC-2000, MDC-3500, MDC-5000, MDC-6000, MDC-8000, MDC-10000</p>	<p><a href="#">Jebao MDC Series Aquarium Pumps User Manual</a></p> <p>User manual for Jebao MDC series aquarium pumps, detailing features, safety instructions, installation, operation, and technical specifications. Includes models MDC-2000 to MDC-10000.</p>
 <p><b>Jebao</b> DC Pump User Manual</p>	<p><a href="#">Jebao DC Pump User Manual - DCP Series</a></p> <p>Comprehensive user manual for Jebao DC Pumps (DCP-2500 to DCP-20000), covering features, operation, maintenance, and troubleshooting.</p>