Jebao EP-2000M

Jebao EP Smart DC Pump User Manual

Model: EP-2000M (528 GPH)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Jebao EP Smart DC Pump, model EP-2000M. This smart pump is designed for use in both marine and freshwater aquarium systems, offering precise control and efficient performance. It features a robust design with no exposed copper elements, ensuring safety for aquatic life.

The EP Smart DC Pump can be controlled via a dedicated LCD display controller or wirelessly through the Jebao App on your smartphone (2.4G Wi-Fi required). It incorporates SINE wave technology for ultra-quiet operation and includes advanced safety features such as IC electronic detection for automatic power-off upon no water and motor protection if the rotor is blocked.

2. SAFETY INFORMATION

- **Electrical Safety:** Always disconnect power before performing any maintenance or installation. Ensure the power adapter and controller are kept dry and away from water. Only use the provided power adapter.

- **Water Temperature:** Do not operate the pump in water temperatures exceeding 35°C (95°F).

- **Submersion:** The pump unit is designed for submersible use. The controller and power adapter are not waterproof and must be kept dry.

- **No Exposed Copper:** This pump is designed with no exposed copper elements, making it safe for both marine and freshwater environments.

- **Automatic Protection:** The pump features IC electronic detection for automatic power-off if no water is detected, and motor protection if the rotor becomes blocked. Do not bypass these safety features.

- **Children and Pets:** Keep the product and its components out of reach of children and pets.

- **Intended Use:** This pump is intended for aquarium use only. Do not use it for purposes other than its intended application.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- Jebao EP Smart DC Pump (EP-2000M)
- LCD Display Controller
- Power Adapter
- Output Nozzles/Fittings (various sizes)
- User Manual

Figure 3.1: Complete package contents of the Jebao EP Smart DC Pump.

This image displays all items included in the product package: the main pump unit, the LCD display controller, the power adapter, various hose fittings, and the user manual.

4. PRODUCT OVERVIEW

The Jebao EP Smart DC Pump consists of the pump unit and an external LCD display controller. The pump unit is compact and designed for submersible operation, while the controller provides intuitive control over pump functions and connectivity.

4.1 Pump Unit

Figure 4.1: Front view of the EP-2000M pump unit.

This image shows the front of the pump unit, highlighting the water intake area and the threaded connection for the output nozzle.

Figure 4.2: Side view of the EP-2000M pump unit with nozzle.

This image provides a side perspective of the pump unit, demonstrating how the output nozzle connects to the pump's discharge port.

4.2 LCD Display Controller

The controller features an LCD screen for displaying operational status and buttons for adjusting settings, including flow rate and Wi-Fi connectivity.

5. SETUP AND INSTALLATION

1. **Choose Location:** Place the pump in your aquarium or sump in a location that allows for optimal water circulation and easy access for maintenance. Ensure the pump is fully submerged during operation.

2. **Attach Fittings:** Select the appropriate output nozzle/fitting for your plumbing setup and securely attach it to the pump's outlet.

3. **Connect Controller:** Connect the pump's cable to the designated port on the LCD display controller. Ensure the connection is secure.

4. **Connect Power:** Connect the power adapter to the controller, then plug the power adapter into a suitable electrical outlet. Ensure the outlet is protected by a Ground Fault Circuit Interrupter (GFCI) for safety.

5. **Initial Power On:** Once connected, the pump will power on. The LCD display will illuminate, and the pump will begin operating at a default setting.

5.1 Wi-Fi Setup (Jebao App)

The Jebao EP Smart DC Pump supports 2.4G Wi-Fi connectivity for control via the Jebao App. This allows for remote control and advanced programming.

1. **Download App:** Download the "Jebao" app from your smartphone's app store (available for iOS and Android).

2. **Register/Login:** Open the app and register a new account or log in if you already have one.

3. **Add Device:** Follow the in-app instructions to add a new device. This typically involves putting the controller into pairing mode (refer to controller manual for specific button presses) and connecting your phone to the pump's temporary Wi-Fi hotspot (AP mode) or your home 2.4G Wi-Fi network.

4. **Connect to Home Wi-Fi:** Once the pump is in pairing mode, select your home 2.4G Wi-Fi network within the app and enter your Wi-Fi password. The pump will then connect to your home network.

5. **Control:** After successful connection, you can control the pump's flow rate, modes, and schedule directly from the Jebao App.

Note: If you experience difficulty connecting to Wi-Fi, ensure your router is broadcasting a 2.4Ghz signal and that your phone is temporarily connected to it during the setup process. Some users report better success with AP mode (no router required) for initial setup.

6. OPERATING INSTRUCTIONS

6.1 Manual Control (LCD Display Controller)

The LCD display controller allows for direct adjustment of the pump's flow rate and modes.

- **Power On/Off:** Press the power button to turn the pump on or off.

- **Adjust Flow Rate:** Use the '+' and '-' buttons to increase or decrease the pump's flow rate. The current flow rate or power percentage will be displayed on the LCD screen.

- **Mode Selection:** The controller may offer different operating modes (e.g., constant flow, wave mode, feed mode). Refer to the specific controller manual for button functions to cycle through modes.

- **Feed Mode:** A dedicated feed mode button (if present) will temporarily pause the pump for a set duration, allowing for feeding without water disturbance.

6.2 App Control (Jebao App)

Once connected to Wi-Fi, the Jebao App provides comprehensive control over your pump.

- **Real-time Monitoring:** View the current operating status and flow rate.
- **Precise Flow Adjustment:** Adjust the flow rate with fine increments.
- **Scheduling:** Set daily or weekly schedules for pump operation, including varying flow rates at different times.
- **Mode Customization:** Customize various operating modes, such as wave patterns or feed timers.
- **Firmware Updates:** The app may allow for over-the-air firmware updates to improve performance and add features.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Jebao EP Smart DC Pump.

1. **Disconnect Power:** Always unplug the power adapter from the electrical outlet before performing any maintenance.
2. **Rotor Cleaning:** Periodically remove the pump's front cover and impeller assembly. Clean the impeller and its chamber using a soft brush and warm water to remove any debris, algae, or calcium buildup.
3. **Housing Cleaning:** Clean the exterior of the pump housing and intake grates to ensure unrestricted water flow.
4. **Cable Inspection:** Regularly inspect the power cable and controller cable for any signs of damage, fraying, or kinks. If damage is found, discontinue use immediately and contact customer support.
5. **Reassembly:** After cleaning, carefully reassemble all components, ensuring they are securely fitted.

Frequency: The frequency of cleaning depends on your aquarium's water parameters and bioload. A general recommendation is to clean the pump every 1-3 months.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not operating	No power; Controller disconnected; Rotor blocked; No water detected.	Check power connection to outlet and controller. Ensure pump cable is securely connected to controller. Disconnect power, inspect and clean rotor. Ensure pump is fully submerged.
Reduced flow rate	Clogged intake/impeller; Kinked tubing; Incorrect flow setting.	Disconnect power and clean pump impeller and intake. Check tubing for obstructions or kinks. Increase flow rate via controller or app.
Unusual noise/vibration	Debris in impeller; Worn impeller; Air trapped in pump.	Disconnect power and clean impeller. If noise persists after cleaning, the impeller may be worn and require replacement. Gently shake pump to release trapped air.
Cannot connect to Wi-Fi/App	Incorrect Wi-Fi band (not 2.4Ghz); Incorrect password; Router too far; App/firmware issue.	Ensure your router is broadcasting a 2.4Ghz signal. Double-check Wi-Fi password. Move router closer or use AP mode for initial setup. Try restarting controller and router. Check app for updates.

Problem	Possible Cause	Solution
Pump cycles on/off repeatedly	Low water level (no water protection activated); Air in pump.	Ensure water level is sufficient to fully submerge the pump. Gently shake pump to release trapped air.

9. SPECIFICATIONS

Feature	Detail
Model	EP-2000M
Maximum Flow Rate	528 GPH (Gallons Per Hour) / 2000 L/H
Maximum Head Height	7.2 Feet / 2.2 Meters
Power Input	24V DC
Power Consumption	20 Watts
Dimensions (L x W x H)	4" x 2.5" x 3.25" (Pump Unit)
Material	Stainless Steel (internal components), Plastic (housing)
Connectivity	2.4G Wi-Fi, AP Mode, Manual Controller
Suitable For	Marine and Freshwater Aquariums

10. WARRANTY AND SUPPORT

Jebao products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. The specific duration and terms of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact your retailer or visit the official Jebao website for contact information. Provide your product model number (EP-2000M) and purchase date when seeking support.

Note: Unauthorized disassembly or modification of the product will void the warranty.

Related Documents - EP-2000M

Jebao Smart Wave Maker User Manual - Setup, Operation, and Troubleshooting
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.

[D-Link DWR-2000M 5G Wi-Fi 6 Router Setup Guide: Configure SSID and Password](#)

Step-by-step guide to configuring the wireless network name (SSID) and password for the D-Link DWR-2000M 5G Wi-Fi 6 Router, including enabling Dual-Band AI Connect.

[Jebao Smart DC Pump User Manual - MDP Series](#)

Comprehensive user manual for Jebao Smart DC Pumps (MDP Series), covering features, operation, app control, Wi-Fi setup, maintenance, and troubleshooting.

[D-Link DWR-2000M Router: Access Configuration and Change Password Guide](#)

A comprehensive guide detailing how to access the D-Link DWR-2000M 5G Wi-Fi 6 Router's web configuration interface and change the administrator password. Includes instructions for navigating browser security warnings and setting up new credentials.

[Jebao Cross-Flow Wave Pump User Manual: CP-90, CP-120, CP-150](#)

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.

[EDUP USB WiFi Adapter Installation Guide and Usage](#)

Comprehensive installation guide for EDUP USB WiFi adapters, covering setup for Windows 7, Windows 10, Windows XP, and Mac OS. Includes troubleshooting tips and driver download information.