

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Jebao](#) /

› [Jebao ECP-150M Smart Cross-Flow Pump Wave Maker User Manual](#)

Jebao ECP-150M

Jebao ECP-150M Smart Cross-Flow Pump Wave Maker User Manual

Model: ECP-150M

1. INTRODUCTION

Thank you for choosing the Jebao ECP-150M Smart Cross-Flow Pump Wave Maker. This device is designed to create optimal water circulation in aquariums, promoting a healthy environment for aquatic life. This manual provides detailed instructions for the safe and efficient installation, operation, and maintenance of your ECP-150M pump.

2. PRODUCT OVERVIEW

The Jebao ECP-150M is a smart cross-flow pump featuring advanced SINE wave technology for ultra-quiet and stable performance. It includes a manual controller with an LCD display and offers Wi-Fi connectivity for control via the Jebao App on iOS and Android devices. The cross-wave single impeller structure ensures efficient water flow without creating dead spots in your tank. This pump is suitable for both marine and freshwater environments due to its design with no exposed copper elements.

2.1 Components

- ECP-150M Cross-Flow Pump Unit
- Smart Controller with LCD Display
- Power Adapter (DC 24V)
- Mounting Magnets
- User Manual (this document)

2.2 Product Features

- **Control Options:** Wi-Fi (iOS + Android) and manual controller with LCD display.
- **Quiet Operation:** SINE wave technology ensures ultra-quiet and stable performance.
- **Efficient Flow:** Cross-wave single impeller structure provides comprehensive water movement, eliminating dead spots.
- **Versatile Use:** No exposed copper elements, making it safe for both marine and freshwater aquariums.
- **Dimensions:** Approximately 13" x 2.75" x 1.75".

- **Power:** 100V-240V 50/60Hz input, DC 24V 55W output.
- **Maximum Flow Rate:** 5283 GPH (Gallons Per Hour).

2.3 Product Visuals



Figure 1: All components included with the Jebao ECP-150M pump, controller, and power adapter.

This image displays all the components you will receive: the ECP-150M pump unit, the smart controller, the power adapter, and the instruction manual.



Figure 2: The Jebao ECP-150M Smart Cross-Flow Pump alongside its retail packaging.

This image shows the ECP-150M pump unit with its packaging, highlighting the product name and model.



Figure 3: A detailed view of the ECP-150M pump, showing its cross-flow design and protective grilles.

This close-up provides a clear view of the pump's design, including the blue impellers visible through the protective grilles, which are crucial for its cross-flow functionality.



Figure 4: The rear side of the ECP-150M pump, illustrating the magnetic mounting bracket.

This image displays the back of the pump, where the magnetic mounting system is attached, allowing for secure placement within the aquarium.

3. SETUP INSTRUCTIONS

1. **Unpack Components:** Carefully remove all items from the packaging and verify that all components listed in Section 2.1 are present and undamaged.
2. **Mount the Pump:**

- Identify a suitable location inside your aquarium for the pump. The cross-flow design works best when placed horizontally along a tank wall, typically near the water surface, to create broad, even flow.
 - Attach the pump unit to the inside of the aquarium glass using the magnetic mounting bracket. Ensure the external magnet is securely placed on the outside of the glass, directly opposite the internal magnet, to hold the pump firmly in position.
 - Position the pump to direct water flow as desired, avoiding direct impingement on corals or substrate if applicable.
3. **Connect the Controller:** Plug the pump's power cable into the designated port on the smart controller. Ensure the connection is secure.
 4. **Connect Power Adapter:** Plug the power adapter into the smart controller. Then, plug the power adapter into a standard wall outlet (100V-240V, 50/60Hz).
 5. **Initial Power-On:** The controller's LCD display should illuminate, indicating the pump is receiving power. The pump will perform a brief self-test.
 6. **Wi-Fi Setup (Optional):**
 - Download the official Jebao App from your smartphone's app store (available for iOS and Android).
 - Follow the in-app instructions to connect your ECP-150M controller to your home Wi-Fi network. This typically involves putting the controller into pairing mode and selecting it within the app.

4. OPERATING INSTRUCTIONS

The ECP-150M offers both manual control via the LCD controller and remote control via the Jebao App.

4.1 Manual Controller Operation

The LCD controller allows you to adjust pump settings directly. Refer to the specific button functions on your controller for detailed navigation. Common functions include:

- **Mode Selection:** Cycle through various flow modes (e.g., constant flow, wave mode, pulse mode).
- **Flow Adjustment:** Increase or decrease the pump's output intensity (e.g., 30% to 100%).
- **Frequency/Interval:** Adjust the timing or frequency of wave/pulse modes.
- **Feed Mode:** Temporarily pause the pump for feeding, typically for 10 minutes.

4.2 Jebao App Operation (Wi-Fi Control)

Once connected to Wi-Fi, the Jebao App provides advanced control and scheduling capabilities:

- **Remote Control:** Adjust all pump settings from your smartphone.
- **Custom Programs:** Create and save custom flow programs with varying intensities and durations throughout the day.
- **Synchronization:** If using multiple Jebao smart pumps, the app may allow for synchronization or anti-synchronization (master/slave configuration) for complex flow patterns.
- **Firmware Updates:** The app may provide notifications for firmware updates to improve performance or add features.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ECP-150M pump.

1. **Disconnect Power:** Always unplug the power adapter from the wall outlet before performing any maintenance.

2. **Remove Pump from Tank:** Carefully detach the pump from the aquarium glass.
3. **Disassemble and Clean:**
 - Gently twist or unclip the pump's protective grilles and impeller housing to expose the impeller.
 - Remove any accumulated algae, detritus, or calcium deposits from the impeller, impeller shaft, and inside the pump housing. A soft brush or pipe cleaner can be useful.
 - For stubborn calcium deposits, a mild vinegar solution can be used for soaking, followed by thorough rinsing with clean water.
4. **Inspect Components:** Check the impeller for any signs of wear or damage. Ensure the power cable and connections are free from kinks or fraying.
5. **Reassemble and Reinstall:** Carefully reassemble the pump components, ensuring all parts fit correctly. Reinstall the pump in the aquarium and reconnect the power.
6. **Cleaning Frequency:** The frequency of cleaning depends on your aquarium's bioload and water parameters. A general recommendation is to clean the pump every 1-3 months.

6. TROUBLESHOOTING

If you encounter issues with your ECP-150M pump, refer to the following troubleshooting guide:

- **Pump Not Turning On / No Display:**
 - Check all power connections from the wall outlet to the power adapter, controller, and pump.
 - Ensure the wall outlet is functional by plugging in another device.
 - Verify the power adapter is correctly connected and supplying power.
- **Pump Stops Working / Displays Error Message:**
 - **Power Cycle:** Disconnect the power adapter from the wall outlet for 30 seconds, then plug it back in. This can reset the controller and clear temporary errors.
 - **Clean the Pump:** As described in Section 5, excessive debris or calcium buildup can cause the pump to seize or trigger error messages. Perform a thorough cleaning.
 - **Inspect Impeller:** Check for any foreign objects lodged in the impeller or damage to the impeller itself.
- **App Not Connecting to Controller (Wi-Fi Issues):**
 - Ensure your smartphone is connected to a 2.4GHz Wi-Fi network (some smart devices do not support 5GHz).
 - Verify the controller is within range of your Wi-Fi router.
 - Restart your Wi-Fi router and the pump controller.
 - Follow the Wi-Fi setup steps in the Jebao App carefully, ensuring the controller is in pairing mode.
- **Pump is Noisy:**
 - **Clean the Pump:** Noise is often caused by debris or buildup affecting the impeller.
 - **Check Mounting:** Ensure the pump is securely mounted and not vibrating against the aquarium glass or other equipment.
 - **Inspect Impeller:** Look for any damage to the impeller blades or shaft.
- **Programming/Settings Not Saving or Intermittent Operation:**
 - Ensure the controller has a stable power supply.
 - If using the app, verify a stable Wi-Fi connection between the app and the controller.
 - Perform a power cycle of the unit.

- **Electrical Arcing/Sparking When Unplugging:**

- This indicates a potential electrical issue. Immediately discontinue use and contact customer support. Do not attempt to use the device further.

If problems persist after attempting these troubleshooting steps, please contact Jebao customer support for further assistance.

7. SPECIFICATIONS

Model	ECP-150M
Brand	Jebao
Input Voltage	AC 100-240V, 50/60Hz
Output Voltage	DC 24V
Power Consumption	55W
Maximum Flow Rate	5283 GPH
Dimensions (Pump)	13" x 2.75" x 1.75" (approx.)
Material	Stainless Steel (internal components), Plastic (housing)
Color	Black
Included Components	Pump, controller, power adapter

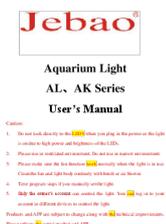
8. WARRANTY AND SUPPORT

For warranty information and details regarding your Jebao ECP-150M Smart Cross-Flow Pump Wave Maker, please refer to the warranty card included with your product or visit the official Jebao website. Warranty terms and conditions may vary by region and retailer.

If you require technical assistance, have questions about product operation, or need to report a defect, please contact Jebao customer support. Contact information can typically be found on the product packaging, the official Jebao website, or through your authorized retailer.

Related Documents - ECP-150M

	<p>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.</p>
---	---

 <p>Jebao Smart Wave Maker USER'S MANUAL</p> <p>WARNINGS</p> <ol style="list-style-type: none"> 1. Do not touch the motor when it is running. 2. Do not touch the motor when it is running. 3. Do not touch the motor when it is running. 4. Do not touch the motor when it is running. 5. Do not touch the motor when it is running. <p>MCP, MUV, MOW SERIES</p>	<p>Jebao Smart Wave Maker User Manual - Setup, Operation, and Troubleshooting</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>Jebao® MDC Pumpen Bedienungsanleitung</p> <p>MCD-2000, MDC-3500, MDC-5000, MDC 6000, MDC 8000, MDC-10000</p> 	<p>Jebao MDC Series Aquarium Pumps User Manual</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>Jebao® Aquarium Light AL, AK Series User's Manual</p> <p>Caution</p> <ol style="list-style-type: none"> 1. Do not touch directly to the light when it is plugged in the power or the light is connected to the power and the light is on. 2. Please do not touch the light when it is on. 3. Please do not touch the light when it is on. 4. Please do not touch the light when it is on. 5. Please do not touch the light when it is on. <p>Product and UFP are subject to change without notice. © 2018 Jebao Corporation. Please refer to the user manual for more information.</p>	<p>Jebao AL & AK Series Aquarium Light User Manual - Setup, Features, and App Control</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>Jebao UV Fountain Pump User Manual</p> <p>UFP-1000, UFP-2000</p>	<p>Jebao UV Fountain Pump User Manual</p> <p>User manual for Jebao UFP-1000 and UFP-2000 UV fountain pumps, detailing installation, maintenance, troubleshooting, and safety instructions.</p>
 <p>Jebao DC Pump User Manual</p> <p>DCP-2500, DCP-3500, DCP-5000, DCP-6000, DCP-8000, DCP-10000</p> 	<p>Jebao DC Pump User Manual - DCP Series</p> <p>Comprehensive user manual for Jebao DC Pumps (DCP-2500 to DCP-20000), covering features, operation, maintenance, and troubleshooting.</p>