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> [Jebao MCP-180 Smart Cross Flow Pump User Manual](#)

## Jebao MCP-180

# Jebao MCP-180 Smart Cross Flow Pump User Manual

Brand: Jebao | Model: MCP-180

## 1. INTRODUCTION

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The Jebao MCP-180 Smart Cross Flow Pump is designed to create optimal water movement in saltwater aquariums. Featuring advanced cross-flow technology, Wi-Fi connectivity, and an intuitive LCD display controller, this pump ensures efficient water circulation and a healthy aquatic environment. This manual provides detailed instructions for the proper installation, operation, and maintenance of your MCP-180 pump.

## 2. SAFETY INFORMATION

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- Always disconnect power before performing any maintenance or installation.
- Ensure the pump is fully submerged in water during operation to prevent dry running.
- Do not operate the pump if any part is damaged.
- Keep the power adapter and controller away from water.
- The pump uses powerful magnets. Keep away from sensitive electronic devices and avoid pinching fingers during installation.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Jebao MCP-180 Smart Cross Flow Pump
- LCD Display Controller
- Power Adapter
- Magnetic Mount
- User Manual (this document)





Figure 4.1: The Jebao MCP-180 pump with its magnetic mount, ready for installation.

## 4.2 Power Connection

1. Connect the power supply to the left side of the LCD display controller.
2. Connect the pump unit to the right side of the LCD display controller using the provided adapter. Ensure all connections are secure and properly aligned to prevent damage.
3. Plug the power supply into a suitable electrical outlet. The controller display should illuminate.

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Video 4.1: This video demonstrates the unboxing and initial setup of the Jebao MCP Series Wavemaker, including connecting the power supply and pump to the controller.

## 4.3 Wi-Fi Connection (Jebao Aqua App)

The MCP-180 series is Wi-Fi controllable via the Jebao Aqua App, available on the Apple App Store and Google Play Store.

1. Download and install the "Jebao Aqua" app on your smartphone or tablet.
2. Ensure your mobile device is connected to a **2.4GHz Wi-Fi network**. The pump does not support 5GHz networks. If your router combines 2.4GHz and 5GHz, you may need to temporarily disable 5GHz or use a dedicated 2.4GHz network for initial setup.
3. In the app, select "Add a Wi-Fi device" and then "Wave Pump".
4. Enter your 2.4GHz Wi-Fi network name and password.
5. On the next screen, switch from "Smart Network" to "AP Network" tab.
6. Put the controller in AP Network mode by long-pressing the Wi-Fi button until the Wi-Fi logo flashes with the AP indicator.
7. Connect your phone to the temporary Wi-Fi network named "Jebao\_WiFi-XXX" (password: "123456789").
8. Return to the Jebao Aqua app and click "Next" to complete the connection.

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Video 4.2: This video demonstrates the process of connecting the Jebao MCP Series Wavemaker to the Jebao Aqua app via Wi-Fi, including specific steps for AP Network mode.

## 5. OPERATING INSTRUCTIONS

### 5.1 LCD Display Controller

The LCD display controller allows for direct control of the pump's functions. All buttons are touch-sensitive.



Figure 5.1: The Jebao MCP-180 Smart Cross Flow Pump and its LCD Display Controller.

- **Power On/Off:** Long-press the middle button to turn the wavemaker on or off.
- **Feed Mode:** Quickly press the middle button to enter Feed Mode. The pump will pause for a set duration (default 30 minutes) to allow for feeding. Press again to exit Feed Mode.
- **Adjusting Flow Rate:** Use the Up (▲) and Down (▼) buttons to adjust the flow rate. Tap to adjust by one unit, or press and hold for quick adjustment. The flow rate ranges from 30 to 100.
- **Changing Modes:** Press the "Mode" button to cycle through different wavemaker modes (e.g., W1, W2, H, C, M, S). The display will show an image representing the selected wave pattern.
- **Adjusting Frequency (within modes):** Press and hold the "Mode" button to adjust the frequency within the selected mode. The frequency number will flash at the lower-left corner. Use the Up (▲) and Down (▼) buttons to adjust the frequency (range typically 5 to 100).
- **Master/Slave Mode:** Tap the Wi-Fi symbol to enter Master/Slave mode. You will see 'S' for Slave or 'M' for Master in the lower-right corner.

### 5.2 App Control

Once connected to the Jebao Aqua app, you can control the wavemaker remotely.

1. Open the app and select your wavemaker from "My Devices".
2. **Power On/Off:** Tap the central circle to turn the wavemaker on or off.

3. **Manual Setting:** Press the "Manual" button (lower-left) to adjust flow rate and frequency for various modes (Pulse, Cross-flow, Sine, Random, Fixed).
4. **Feeding Pause:** Within the manual settings, you can adjust the duration of the feeding pause time.
5. **Linkage (Master/Slave):** Use the "Linkage" button to set the pump as a Master or Slave pump for synchronized operation with other units.
6. **Program:** The "Program" button (lower-right) allows you to schedule specific operating times and modes for the wavemaker. You can adjust the schedule by dragging the time segments on the circular interface. You can also delete set programs.
7. **Device Management:** Tap the three-dot symbol in the top-right corner to rename or delete your device from the app.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your Jebao MCP-180 pump.

### 6.1 Impeller Cleaning

If the pump is not spinning properly or an ER04 error (Pump is blocked) appears, the impeller may be blocked or stiff. Follow these steps to clean and lubricate the impeller:

1. Disconnect the power supply from the outlet.
2. Remove the pump from the aquarium.
3. Remove the end caps of the pump by twisting and pulling them off.
4. Carefully remove the impeller units from each side of the pump.
5. Clean any debris or blockages from the impellers and the pump casing.
6. Apply a small amount of petroleum jelly (safe for aquatic environments) to the ceramic rod of each impeller. This helps to loosen stiffness and ensure smooth rotation.
7. Reinsert the impellers into the pump casing, ensuring they are properly seated.
8. Reattach the end caps by twisting them back into place.
9. Reinstall the pump in the aquarium and reconnect power.

Your browser does not support the video tag.

Video 6.1: This video demonstrates how to disassemble the Jebao MCP Series Wavemaker, clean the impellers, and apply petroleum jelly to resolve issues with stiff or blocked impellers.

## 7. TROUBLESHOOTING

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Refer to the following error codes and solutions for common issues:

Error Code	Description	Solution
ER01	Lack of power.	Check if the cables or controller are damaged.
ER02	Controller is overheating.	Check if the controller is exposed to direct sunlight or a high-temperature environment.
ER03	Pump is running dry.	Check if the pump is running dry without water. Ensure it is fully submerged.

Error Code	Description	Solution
ER04	Pump is blocked.	Check if the impeller is blocked. Refer to Section 6.1 for cleaning instructions.
ER05	Overvoltage.	Check if the power supply or the adapter is damaged.

## 8. SPECIFICATIONS

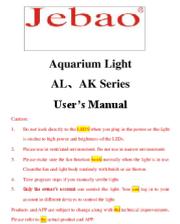
Feature	Detail
Model	MCP-180
Voltage	DC 24V (Input: AC 100-240V 50/60Hz)
Power Consumption	65W
Product Dimensions	13"L x 3"W x 1.6"H (340x82x52 mm)
Maximum Flow Rate	9642 Gallons Per Minute (approx. 6736 to 9642 GPH)
Tank Size Recommendation	For use in tank size less than 180cm
Tank Thickness	≤19 mm
Connectivity	Wi-Fi (2.4GHz) + Manual Controller
Technology	SINE wave technology, Cross wave double impeller structure
Safety Features	IC electronic detection, Dry/locked rotor protection, automatic power-off upon no water

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Jebao website or contact your retailer. Keep your purchase receipt as proof of purchase.

### Related Documents - MCP-180

 <p>The image shows the cover of the 'Jebao Smart Wave Maker User Manual'. It features the Jebao logo at the top left, followed by the product name 'Smart Wave Maker' and 'USER'S MANUAL'. Below this, there is a 'WARNING' section with several small icons and text. At the bottom, it specifies 'MCP, MLW, 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>
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	<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><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><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><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><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>