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> [Jebao MCP-120 Smart Cross Flow Pump User Manual](#)

## Jebao MCP-120

# Jebao MCP-120 Smart Cross Flow Pump User Manual

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Jebao MCP-120 Smart Cross Flow Pump. Please read this manual thoroughly before use to ensure proper function and longevity of the product. This pump is designed to create optimal water movement in both marine and freshwater aquarium environments.

## PRODUCT OVERVIEW

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The Jebao MCP-120 Smart Cross Flow Pump utilizes advanced crossflow technology to generate comprehensive water movement within your aquarium, eliminating dead spots and mimicking natural wave patterns. Key features include:

- **Smart Control:** Equipped with a manual LCD display controller and WiFi connectivity for both iOS and Android devices.
- **Quiet Operation:** Incorporates SINE wave technology for ultra-quiet and stable performance.
- **Efficient Water Flow:** Features a cross-wave double impeller structure designed to prevent dead spots in water circulation.
- **Versatile Use:** Constructed without exposed copper elements, making it suitable for both marine and freshwater aquariums.
- **Safety Features:** Includes IC electronic detection, dry/locked rotor protection, and automatic power-off in low water conditions.

## PACKAGE CONTENTS

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Carefully unpack all components and verify that you have received the following items:

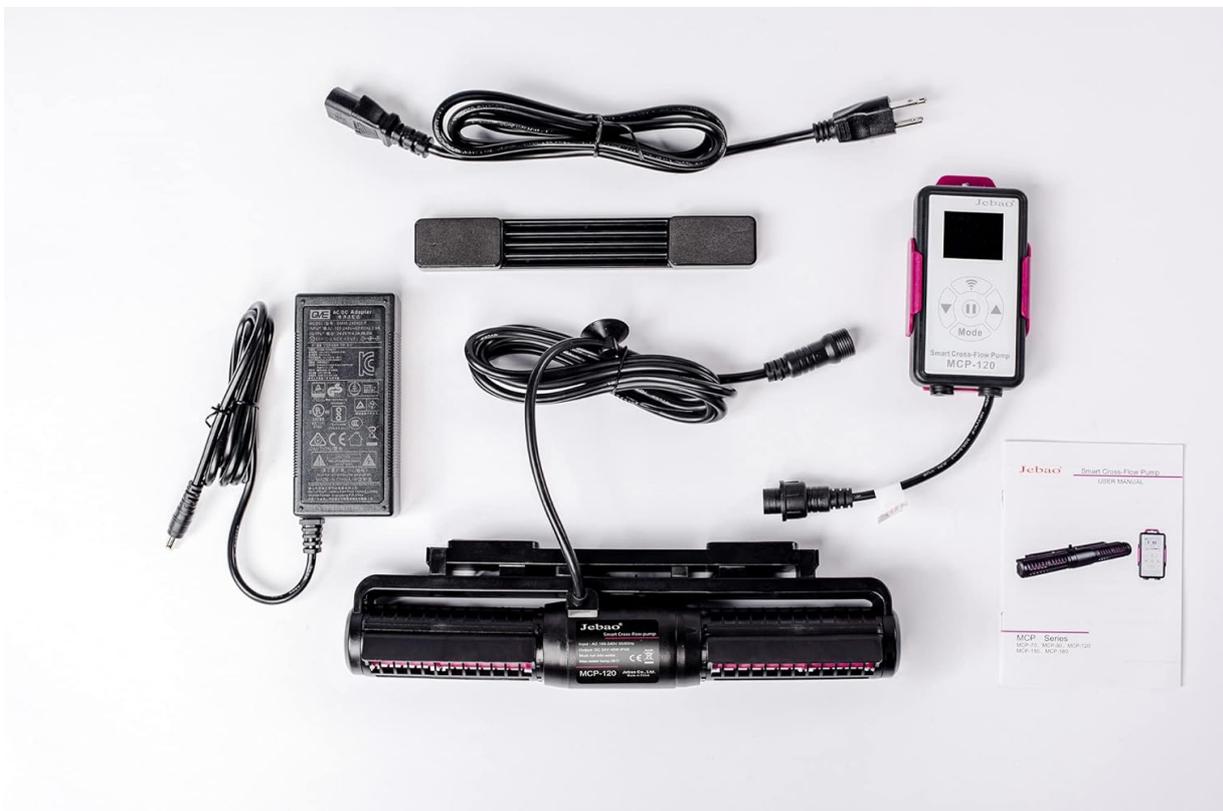


Image: All components of the Jebao MCP-120 Smart Cross Flow Pump laid out. This includes the main pump unit, the LCD display controller, the power adapter, the magnetic mounting base, and the user manual.

- Jebao MCP-120 Cross Flow Pump Unit
- LCD Display Controller
- Power Adapter (100V-240V, DC 24V 45W)
- Magnetic Mounting Base
- User Manual (this document)

## SAFETY INSTRUCTIONS

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Please observe the following safety precautions to prevent injury or damage to the product:

- 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 the power cord or plug is damaged.
- Keep the power adapter and controller away from water splashes.
- This product is designed for indoor aquarium use only.
- Do not attempt to disassemble or repair the pump or controller yourself. Contact qualified personnel for service.
- Ensure the magnetic base is securely attached to the aquarium glass, avoiding any obstructions.

## SETUP GUIDE

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1. **Pump Placement:** Select a suitable location inside your aquarium for the pump. The cross-flow design works best when placed horizontally along the back or side wall, allowing water to flow across the tank.



Image: The Jebao MCP-120 pump unit shown with its magnetic mounting base. The pump is designed to be mounted horizontally on the aquarium glass using this magnetic system.

- Magnetic Mounting:** Attach the pump unit to the inner side of the aquarium glass. Position the external magnet on the corresponding outer side of the glass, aligning it with the internal magnet. Ensure a firm and secure attachment.



Image: A detailed view of the Jebao MCP-120 pump unit. This image emphasizes the dual impeller design, which is central to its cross-flow water movement capability.

- Controller Connection:** Connect the pump's cable to the designated port on the LCD display controller.
- Power Connection:** Connect the power adapter to the controller, then plug the adapter into a standard electrical outlet.
- Initial Startup:** Once powered, the LCD controller will illuminate. The pump will begin operating in its

default mode.

## OPERATING INSTRUCTIONS

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The Jebao MCP-120 pump can be controlled via its LCD display controller or through a mobile application using WiFi.

### LCD Display Controller

The LCD display controller allows for direct adjustment of pump modes and flow intensity. Refer to the controller's interface for specific button functions (e.g., Mode, Speed, Feed, Lock).

- **Mode Selection:** Cycle through various flow modes (e.g., constant flow, wave mode, random flow) using the 'Mode' button.
- **Flow Adjustment:** Adjust the water flow rate using the 'Speed' or '+' / '-' buttons.
- **Feed Mode:** Activate a temporary pause in pump operation for feeding, typically for 10 minutes, using the 'Feed' button.
- **Lock Function:** Use the 'Lock' button to prevent accidental changes to settings.

### WiFi Connectivity and App Control

The pump supports control via a mobile application (iOS and Android). For successful WiFi connection, please note the following critical steps:

1. **Dedicated 2.4GHz Network:** Your WiFi router must have a dedicated 2.4GHz network with a unique name, separate from any 5GHz network. The pump does not support 5GHz WiFi.
2. **Mobile Device Connection:** Ensure your mobile device is connected to this dedicated 2.4GHz network before attempting to pair the pump.
3. **App Installation:** Download the official Jebao app from your device's app store.
4. **Adding Device:** In the app, select 'Add a Wi-Fi device' and then 'Wave Pump'.
5. **Network Details:** Confirm your 2.4GHz network name is displayed and enter its password.
6. **AP Network Mode:** On the next screen in the app, switch from 'Smart Network' to the 'AP Network' tab.
7. **Controller AP Mode:** Turn on the pump controller. Long-press the network button on the controller until the WiFi logo flashes along with the 'AP' indicator.
8. **Connect Phone to Pump AP:** Connect your phone's WiFi directly to the new network named 'Jebao\_WiFi-XXX' (where XXX is a unique identifier). The default password is '123456789'.
9. **Complete Connection:** Return to the Jebao app and click 'Next'. The app should now successfully connect to the controller.
10. **Restore Phone WiFi:** After successful pairing, your phone's WiFi should automatically reconnect to your home 2.4GHz network, and the pump controller will also be connected to your home network.

Once connected, the app provides advanced scheduling and control options for your pump.

## MAINTENANCE

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Regular maintenance ensures optimal performance and extends the lifespan of your Jebao MCP-120 pump.

- **Cleaning the Impellers:** Periodically remove the pump from the aquarium and carefully disassemble

the impeller covers. Clean the impellers and their housing using a soft brush and fresh water to remove any algae, debris, or calcium buildup.



Image: A top-down perspective of the Jebao MCP-120 pump, revealing the dual impellers and the protective grates.

Regular cleaning of these components is essential for maintaining pump efficiency.

- **Magnetic Base:** Inspect the magnetic base for any signs of wear or corrosion. Clean both the internal and external magnets to ensure a strong grip on the aquarium glass.
- **Power Cord and Connections:** Check the power cord and all connections for any damage or fraying. Replace if necessary.
- **Controller:** Keep the LCD controller clean and dry. Avoid exposing it to direct water splashes.

Always disconnect the pump from power before performing any cleaning or maintenance.

## TROUBLESHOOTING

If you encounter issues with your Jebao MCP-120 pump, refer to the following common solutions:

Problem	Possible Cause	Solution
Pump not turning on.	No power, loose connection, dry running protection activated.	Check power outlet and connections. Ensure pump is fully submerged. If dry running protection activated, disconnect power, wait a few minutes, then reconnect.
Weak or inconsistent flow.	Clogged impellers, debris in pump, low power setting.	Clean impellers and pump housing. Increase flow setting on controller or app.
Pump making unusual noise.	Debris in impeller, worn impeller, improper installation.	Disconnect power and inspect impellers for debris. Ensure pump is securely mounted and not vibrating against the glass.

Problem	Possible Cause	Solution
Cannot connect to WiFi / App.	Incorrect WiFi band (5GHz), incorrect password, improper pairing steps.	Ensure your router has a dedicated 2.4GHz network and your phone is connected to it. Follow the WiFi setup steps precisely, especially the AP Network mode. Verify WiFi password.
Controller display is blank or unresponsive.	Power issue, controller malfunction.	Check power connections. Try disconnecting and reconnecting the controller. If issue persists, contact support.

## SPECIFICATIONS

Feature	Detail
Model	MCP-120
Dimensions (L x W x H)	11.5" x 2.5" x 1.5"
Input Voltage	AC 100V-240V, 50/60Hz
Output Voltage	DC 24V
Wattage	45W
Assumed Flow Rate	4300 to 4600 GPH
Protection Rating	IPX8 (Must run into water)
Max Water Temperature	35°C
Power Plug	3-prong US plug
Compatibility	Marine and Fresh Water

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the point of purchase or contact your retailer. Keep your purchase receipt as proof of purchase for any warranty claims. For further assistance or inquiries, please visit the official Jebao website or contact their customer service department.

### Related Documents - MCP-120

 <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 pump when it is running.</li> <li>2. Do not touch the pump when it is running.</li> <li>3. Do not touch the pump when it is running.</li> <li>4. Do not touch the pump when it is running.</li> <li>5. Do not touch the pump when it is running.</li> </ol> <p>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>
 <p><b>Jebao</b> Cross-Flow Wave Pump USER'S 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> UV Fountain Pump USER'S 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> DC Pump USER'S 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>
 <p><b>Jebao</b> Smart DC Pump USER MANUAL</p> <p><b>MDP Series</b> MDP-2500, MDP-3000, MDP-4000, MDP-5000, MDP-6500, MDP-8000, MDP-10000, MDP-15000, MDP-20000</p>	<p><a href="#">Jebao Smart DC Pump User Manual - MDP Series</a></p> <p>Comprehensive user manual for Jebao Smart DC Pumps (MDP Series), covering features, operation, app control, Wi-Fi setup, maintenance, and troubleshooting.</p>
 <p><b>Jebao</b> DC Pump OWNER'S MANUAL</p>	<p><a href="#">Jebao DC Pump Owner's Manual - Models DCP-2500 to DCP-20000</a></p> <p>The Jebao DC Pump Owner's Manual provides comprehensive instructions for the safe operation, installation, maintenance, and troubleshooting of DCP-2500, DCP-3000, DCP-4000, DCP-5000, DCP-6500, DCP-8000, DCP-10000, DCP-15000, DCP-18000, and DCP-20000 models. Learn about features like adjustable flow rate, feed mode, memory function, and automatic power-off protection for both submersible and non-submersible applications in marine and fresh water environments.</p>