

## Manuals+

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

manuals.plus /

- › [Jebao](#) /
- › [Jebao MOW Smart Wave Maker \(MOW-22\) User Manual](#)

## Jebao MOW-22

# Jebao MOW Smart Wave Maker (MOW-22) User Manual

Model: MOW-22

## INTRODUCTION

The Jebao MOW Smart Wave Maker is designed to create natural wave patterns and water circulation in saltwater aquariums, promoting a healthy environment for marine life. Featuring a compact design, quiet operation, and an intuitive LCD display controller, this device offers precise control over water flow. It can also be controlled via Wi-Fi using the Jebao App on your smartphone.



Image: The Jebao MOW-22 Smart Wave Maker shown next to its product packaging, highlighting its compact size and the

## PRODUCT FEATURES

- **2.4G WIFI Connectivity:** Control the wave maker via the Jebao App on iOS and Android devices, in addition to the manual LCD controller.
- **SINE Wave Technology:** Ensures ultra-quiet operation and stable performance, minimizing disturbance to your aquatic environment.
- **3D Rotation Angle:** Allows for flexible adjustment of the output water direction, optimizing flow patterns within the tank.
- **Corrosion Resistant:** Designed with no exposed copper elements, making it suitable for both marine (saltwater) and freshwater aquariums.
- **Wide Flow Range:** Capable of flow rates from 449 gallons per hour (1700 L/h) to 5811 gallons per hour (22000 L/h), recommended for 100-150 gallon tanks.
- **Efficient Power:** Operates on DC 24V with a 50-watt input, utilizing a 110V 60Hz US plug.
- **Compact Design:** Dimensions of approximately 4.0 inches (Dia) x 5.25 inches (L) for discreet placement.

## WHAT'S IN THE BOX

Before beginning installation, please ensure all components are present and undamaged:

- Jebao MOW Smart Wave Maker Unit
- LCD Display Controller
- Magnetic Base Mount
- Power Adapter (DC 24V)
- User Manual



Image: A complete view of all items included in the Jebao MOW-22 package, including the wave maker, controller, power supply, and instruction booklet.

## SETUP INSTRUCTIONS

---

1. **Placement:** Select an appropriate location within your aquarium for the wave maker. Ensure it is positioned to create optimal water flow without disturbing substrate or corals.
2. **Mounting:** Attach the wave maker unit to the inside of the aquarium glass using the magnetic base. Position the external magnet on the outside of the glass, directly opposite the internal unit, to secure it firmly.



Image: The Jebao MOW-22 wave maker viewed from the side, illustrating its magnetic mounting system.

3. **Connect Controller:** Connect the wave maker unit's cable to the designated port on the LCD display controller.
4. **Power Connection:** Plug the power adapter into the controller, then plug the power adapter into a standard 110V 60Hz US electrical outlet.
5. **Adjust Direction:** Once powered, you can adjust the direction of the water flow by gently rotating the wave maker unit on its magnetic base. The 3D rotation angle allows for precise aiming of the flow.



Image: A side profile view of the Jebao MOW-22 wave maker, demonstrating its sleek and compact form factor.

## OPERATING INSTRUCTIONS: MODE FUNCTIONS

---

The Jebao MOW Smart Wave Maker offers various operating modes to simulate natural ocean currents. Use the LCD display controller or the Jebao App to select and adjust modes.

- **W1: Classic Wave Mode**

In this mode, you can adjust wave patterns among one or more pumps simultaneously using the up/down buttons on the controller or app. This creates a consistent, rhythmic wave.

- **W2: Sine Wave Mode**

One or more pumps can operate in this mode. The flow rate changes smoothly between 30% and 100% following a sine curve, mimicking natural, gentle swells.

- **Else: Random Wave Mode**

This mode allows one or more pumps to operate with random power changes, creating an unpredictable and natural flow pattern without specific regulation.

- **H: Constant Wave Mode**

One or more pumps operate at a constant, steady flow rate. This mode is ideal for maintaining consistent water circulation.

- **C: Shift to Flow Mode**

Requires two pumps to operate. The pumps alternate working and stopping (P1 works, P2 stops; then P2 works, P1 stops), creating a shifting flow pattern.

- **Feed Mode**

To activate, short press the stop button on the controller. The pump will cease operation for 10 minutes, allowing fish to feed without being disturbed by strong currents. The pump will automatically resume after 10 minutes.



Image: An angled front view of the Jebao MOW-22 wave maker, highlighting the impeller blades and the protective housing.

## MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Jebao MOW Smart Wave Maker.

- **Cleaning:** Periodically remove the wave maker from the aquarium and gently clean the impeller and housing to remove algae, detritus, or calcium buildup. Use a soft brush and aquarium-safe cleaning solutions if necessary.
- **Impeller Inspection:** Check the impeller for any signs of wear, cracks, or foreign objects that might impede its rotation.

- **Cable Inspection:** Ensure all cables are free from kinks, cuts, or damage.
- **Power Off:** Always unplug the unit from the power outlet before performing any maintenance or cleaning.

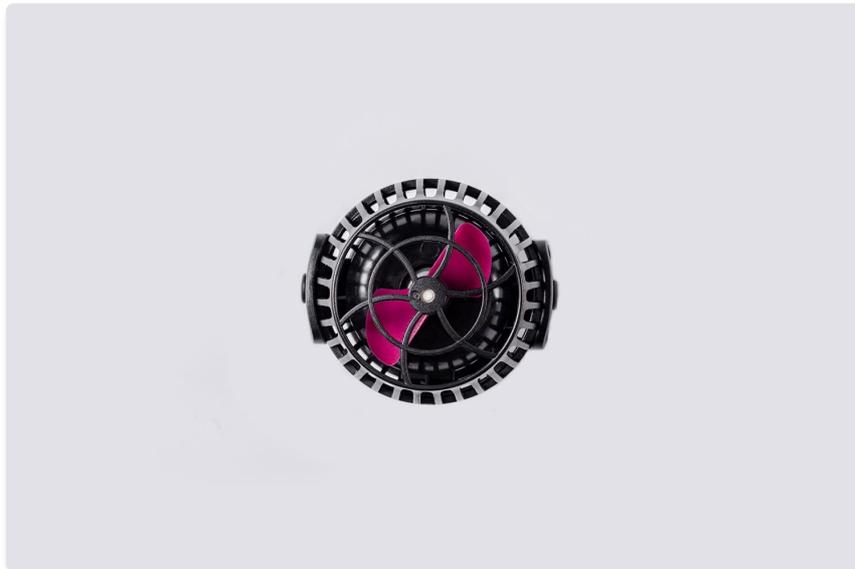


Image: A direct overhead view of the Jebao MOW-22 wave maker, providing a clear look at the impeller and its protective grate.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not turning on.	No power, loose connection, faulty adapter.	Check power outlet. Ensure all cables are securely connected. Test with another outlet. Contact support if adapter is suspected faulty.
Weak or inconsistent flow.	Impeller clogged, calcium buildup, incorrect mode setting.	Clean the impeller and pump housing. Descale if calcium buildup is present. Verify the selected operating mode and adjust flow intensity.
Unusual noise or vibration.	Foreign object in impeller, worn impeller, improper mounting.	Disconnect power and inspect impeller for debris. Ensure the magnetic base is securely mounted and the pump is not vibrating against the glass.
Wi-Fi connection issues.	Incorrect Wi-Fi password, router too far, app issues.	Ensure correct 2.4G Wi-Fi network and password. Move router closer or use a Wi-Fi extender. Restart the app and controller.

## SPECIFICATIONS (MOW-22)

<b>Brand</b>	Jebao
<b>Model Number</b>	MOW-22
<b>Color</b>	Black
<b>Material</b>	Stainless Steel

<b>Style</b>	Submersible
<b>Power Source</b>	AC/DC Adapter
<b>Input Voltage</b>	DC 24V
<b>Power Consumption</b>	50 Watts
<b>Maximum Flow Rate</b>	96.85 Gallons Per Minute (approx. 5811 GPH / 22000 L/h)
<b>Recommended Tank Size</b>	100-150 Gallons
<b>Product Dimensions</b>	5.25 x 4 x 5.25 inches (approx. 4.0" Dia x 5.25" L)
<b>Item Weight</b>	3.79 pounds
<b>Batteries Required</b>	No

## WARRANTY AND SUPPORT

Jebao products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided in your product packaging or visit the official Jebao website. Please retain your proof of purchase for warranty claims.

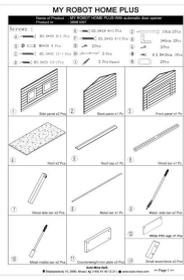
For further assistance, you may contact the seller, CNZ Lighting, through the Amazon platform.

© 2023 Jebao. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.

## Related Documents - MOW-22

	<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><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="#">Manual de Instalación y Mantenimiento Saci Optima - Winner</a></p> <p>Guía detallada de instalación, mantenimiento y solución de problemas para las bombas de piscina Saci Optima - Winner. Incluye especificaciones técnicas, precauciones de seguridad y diagramas de conexión eléctrica.</p>
	<p><a href="#">My Robot Home Plus: Assembly and Installation Guide</a></p> <p>Comprehensive guide for assembling and installing the My Robot Home Plus with automatic door opener, including parts list, step-by-step instructions, and troubleshooting tips.</p>
	<p><a href="#">Woods Mow'n Machine Vacuum D5221T, D6121T Operator's Manual</a></p> <p>This operator's manual provides detailed instructions for the Woods Mow'n Machine Vacuum attachment, compatible with F-Series Power Units, including models D5221T and D6121T. It covers essential safety rules, installation procedures, service information, parts lists, and warranty details for safe and effective operation.</p>
	<p><a href="#">Thermokon STC-MSG Server Datasheet</a></p> <p>Datasheet for the Thermokon STC-MSG Server, a radio-controlled heating/cooling controller for EnOcean sensors and actuators. Details technical specifications, mounting advice, and configuration options.</p>