

Jecod MD4.4

Jecod Smart High Precision Doser MD4.4 Instruction Manual

Model: MD4.4 (PET-FILTER-MD44-1)

Brand: Jecod

1. INTRODUCTION

The Jecod Smart High Precision Doser MD4.4 is an advanced 4-channel automatic dosing pump designed for precise liquid supplementation in aquariums. This device features Wi-Fi connectivity for programmable control via a dedicated application, allowing users to maintain stable water parameters by dispensing specific amounts of solutions at scheduled intervals. This manual provides essential information for the safe and effective installation, operation, and maintenance of your MD4.4 dosing pump.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in damage to the product, personal injury, or property damage.

- Ensure the power supply is disconnected before performing any maintenance or installation.
- This device is designed for indoor use only and should not be exposed to water splashes or high humidity environments.
- Do not operate the pump if the power cord or plug is damaged.
- Keep the device out of reach of children and pets.
- Only use the provided power adapter with the dosing pump.
- Do not attempt to disassemble or repair the unit yourself. Contact qualified personnel for service.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and in good condition. If any items are missing or damaged, please contact your retailer.

- Jecod MD4.4 Dosing Pump Unit
- Power Adapter (DC 12V)
- Pump Holder / Mounting Bracket
- Tubing and Connectors
- User Manual (this document)



Figure 3.1: Contents of the Jecod MD4.4 package, including the dosing pump, power adapter, and user manual.

4. PRODUCT OVERVIEW

The Jecod MD4.4 Doser features four independent dosing channels, each capable of precise liquid delivery. It is controlled wirelessly via a smartphone application, offering flexibility in programming dosing schedules.



Figure 4.1: Front view of the Jecod MD4.4 Dosing Pump, highlighting the four dosing channels (CH1-CH4) and status indicators.

Key Features:

- **4 Channel Dosing:** Independent control for up to four different liquid supplements.
- **Wi-Fi Control:** Manage and program the pump wirelessly via a dedicated mobile application (iOS/Android).
- **High Precision:** Delivers precise amounts of solution, from 1ml to 9999ml per day.
- **Programmable Schedules:** Up to 24 dosing times per day, with interval options up to 30 days.
- **Pump Holder:** Includes a holder for secure mounting.

5. SETUP INSTRUCTIONS

Follow these steps to set up your Jecod MD4.4 Dosing Pump.

5.1 Mounting the Pump

1. Choose a suitable location near your aquarium, ensuring it is dry and stable.
2. Attach the provided pump holder to a secure surface or the aquarium rim. The holder is designed for

glass thickness up to 0.75 inches.

3. Carefully place the MD4.4 dosing pump into the holder, ensuring it is stable and level.



Figure 5.1: Angled view of the Jebao MD4.4 Dosing Pump, illustrating the tubing connections for each channel.

5.2 Connecting Tubing

1. Connect the inlet tubing (typically from your supplement containers) to the bottom connectors of each dosing channel. The pump is designed for tubing with an outer diameter of 0.3 inches.
2. Connect the outlet tubing (leading to your aquarium) to the top connectors of each dosing channel.
3. Ensure all tubing connections are secure to prevent leaks.

5.3 Power Connection

1. Connect the power adapter to the dosing pump.
2. Plug the power adapter into a suitable electrical outlet. The pump will power on, and status indicators may light up.

5.4 App Download and Wi-Fi Connection

1. Download the official Jebao/Jecod dosing pump application from your smartphone's app store (available

for iOS and Android).

2. Open the app and follow the on-screen instructions to connect your MD4.4 dosing pump to your home Wi-Fi network. **Note: The device supports 2.4G Wi-Fi networks only.**
3. Once connected, the app will display the device status, and you can proceed to programming.



Figure 5.2: The Jecod MD4.4 Dosing Pump illustrating its Wi-Fi remote control capability and a representation of the smartphone application interface.

6. OPERATING INSTRUCTIONS

The Jecod MD4.4 Doser is primarily operated through its dedicated smartphone application.

6.1 App Interface Overview

- Upon opening the app, you will see a list of connected devices. Select your MD4.4 pump.
- The main screen typically displays the status of each channel and provides options for programming.

6.2 Programming Dosing Schedules

1. Select the desired dosing channel (CH1, CH2, CH3, or CH4) within the app.
2. Set the total daily volume to be dispensed for that channel (1ml to 9999ml).

3. Specify the number of dosing times per day (up to 24 times). The app will automatically divide the total volume by the number of doses.
4. You can also set an interval for dosing, up to 30 days, for less frequent supplementation.
5. Confirm and save your settings. The pump will then execute the programmed schedule.

6.3 Manual Control

The app may offer an option for manual dosing. This allows you to dispense a specific amount of liquid immediately for testing or one-off adjustments. Use this feature cautiously to avoid over-dosing.

7. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your dosing pump.

- **Tubing Inspection:** Periodically check the tubing for kinks, blockages, or wear. Replace tubing as needed.
- **Pump Head Cleaning:** If dosing accuracy decreases or if you switch supplements, it may be necessary to clean the pump heads. Disconnect power, remove tubing, and carefully flush the pump heads with distilled water.
- **External Cleaning:** Wipe the exterior of the pump with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Calibration:** While not explicitly stated, it is good practice to periodically verify the dosing accuracy by measuring the actual volume dispensed over a set period and adjusting settings if necessary.

8. TROUBLESHOOTING

If you encounter issues with your Jecod MD4.4 Doser, refer to the following common problems and solutions.

- **Pump Not Dosing:**
 - Check power connection.
 - Verify tubing is not kinked or blocked.
 - Ensure supplement containers are not empty.
 - Check app settings for correct programming and active schedules.
- **Wi-Fi Connection Issues:**
 - Ensure your router is broadcasting a 2.4G Wi-Fi signal.
 - Move the pump closer to the Wi-Fi router.
 - Restart the pump and your router.
 - Re-attempt the Wi-Fi setup process in the app.
- **Inaccurate Dosing:**
 - Inspect tubing for air bubbles or blockages.
 - Clean pump heads as described in the Maintenance section.
 - Verify the programmed volume in the app.
 - Consider performing a manual calibration to adjust for minor discrepancies.
- **Pump Making Unusual Noise:**
 - Check for any foreign objects in or around the pump heads.

- Ensure the pump is securely mounted and not vibrating against other surfaces.

If problems persist after attempting these troubleshooting steps, please contact customer support.

9. SPECIFICATIONS

Feature	Specification
Model Number	PET-FILTER-MD44-1
Brand	Jecod
Channels	4
Power	DC 12V 8W
Maximum Flow Rate (Q max)	50 Liters Per Minute
Maximum Lifting Height (H-max)	1.5m (4.9ft)
Dimensions (L x W x H)	8.75" x 3.2" x 2.8" (22.2 x 8.1 x 7.1 cm)
Mounting Glass Thickness	Up to 0.75"
Compatible Tubing Outer Diameter	0.3"
Dosing Volume Range	1 to 9999ml per day per channel
Dosing Frequency	Up to 24 times per day
Dosing Interval	Up to 30 days
Connectivity	Wi-Fi (2.4G Network only)
Material	Plastic
Color	White

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your purchase receipt as proof of purchase.