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› Kamoer FX-STP2 Peristaltic Dosing Pump User Manual

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Model: FX-STP2

1. INTRODUCTION

The Kamoer FX-STP2 is a continuous-duty peristaltic dosing pump designed for precise liquid dispensing in various applications, particularly aquariums. It features an adjustable flow rate from 1 to 120 ml/min and WiFi connectivity for remote control and monitoring. This manual provides essential information for the safe and efficient operation of your FX-STP2 pump.



Figure 1: Kamoer FX-STP2 Peristaltic Dosing Pump. This image shows the compact design of the pump with its control panel and tubing connections.

2. SAFETY INFORMATION

- Read all instructions before operating the pump.
- Ensure the power supply matches the pump's requirements (specified on the label).
- Do not immerse the pump in water or expose it to excessive moisture.
- Keep the pump away from heat sources and direct sunlight.
- Only use original or approved replacement parts, especially for the peristaltic tubing.
- Disconnect power before performing any maintenance or cleaning.
- This device is not intended for use by persons with reduced physical, sensory, or mental capabilities unless supervised.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Kamoer FX-STP2 Peristaltic Dosing Pump
- Power Adapter
- Peristaltic Tubing (pre-installed or spare)
- Tubing Connectors/Holders
- User Manual (this document)

4. PRODUCT OVERVIEW

The FX-STP2 pump utilizes peristaltic technology to deliver a continuous, non-pulsating flow of liquid. Its compact design and quiet operation make it suitable for various environments. Key features include:

- **Adjustable Flow Rate:** Precisely control dosing from 1 ml/min to 120 ml/min.
- **Continuous Dosing:** Ideal for applications requiring constant liquid delivery, such as calcium reactors or gradual water changes.
- **Quiet Operation:** Engineered for minimal noise output.
- **Easy Calibration:** Simple process to ensure accurate dosing.
- **Memory Backup:** Retains settings after power loss.
- **Durable Tubing:** Equipped with long-life PharMed tubing.
- **WiFi Connectivity:** Allows for remote control and monitoring via a dedicated application.

5. SETUP

5.1 Physical Installation

1. **Placement:** Position the pump on a stable, dry surface, ensuring adequate ventilation.
2. **Tubing Connection:** Connect the inlet tubing to your liquid source and the outlet tubing to your destination (e.g., aquarium, reactor). Ensure tubing is securely fastened to prevent leaks.
3. **Power Connection:** Connect the power adapter to the pump and then plug it into a suitable electrical outlet.



Figure 2: Tubing connections on the Kamoer FX-STP2. This image illustrates the proper way to connect inlet and outlet tubing to the pump ports.

5.2 WiFi Connection (If Applicable)

Refer to the separate Kamoer app manual for detailed instructions on connecting your FX-STP2 to your home WiFi network and configuring it via the mobile application. This typically involves downloading the Kamoer app, creating an account, and following the in-app pairing process.

6. OPERATING INSTRUCTIONS

6.1 Initial Start-up

Once powered on, the pump will typically display its current status. If connected via WiFi, you can control it through the Kamoer app. Manual controls may also be available on the unit itself for basic functions.

6.2 Adjusting Flow Rate

The flow rate can be adjusted from 1 ml/min to 120 ml/min. This adjustment is primarily done through the Kamoer mobile application. Navigate to the pump's settings within the app and use the interface to set your desired flow rate. The pump will begin dosing at the new rate immediately.

6.3 Calibration

Regular calibration ensures accurate dosing. To calibrate:

1. Place the outlet tubing into a measuring cylinder.
2. Initiate the calibration process via the Kamoer app (or pump controls if available).
3. The pump will dispense a set volume (e.g., 100 ml).
4. Measure the actual volume dispensed and enter this value into the app.
5. The pump will adjust its internal settings for improved accuracy.



7. MAINTENANCE

7.1 Tubing Replacement

The PharMed peristaltic tubing has a long lifespan but will eventually require replacement due to wear. Signs of wear include reduced flow accuracy, leaks, or visible damage to the tubing.

1. **Disconnect Power:** Always unplug the pump before servicing.
2. **Access Pump Head:** Open the pump head cover (refer to diagrams in the app or product documentation if unsure).
3. **Remove Old Tubing:** Carefully detach the old tubing from its connectors and rollers.
4. **Install New Tubing:** Insert the new PharMed tubing, ensuring it is correctly seated within the pump head and secured by the rollers.
5. **Close Pump Head:** Securely close the pump head cover.
6. **Recalibrate:** After replacing tubing, it is recommended to recalibrate the pump for optimal accuracy.



Figure 4: Replacing peristaltic tubing in the Kamoer FX-STP2. This image demonstrates the process of opening the pump head and installing new tubing.

7.2 Cleaning

Wipe the exterior of the pump with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the internal components.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not turning on	No power supply; faulty adapter	Check power connections; test outlet; replace adapter if necessary.
No liquid flow	Tubing kinked or blocked; air in line; pump head not properly closed; worn tubing	Check tubing for obstructions; prime the pump; ensure pump head is secure; replace tubing.
Inaccurate dosing	Needs calibration; worn tubing; incorrect flow rate setting	Perform calibration; replace tubing; verify flow rate setting in app.
WiFi connection issues	Incorrect network password; pump too far from router; router issues	Verify WiFi password; move pump closer to router; restart router; consult Kamoer app support.

9. SPECIFICATIONS

Feature	Detail
Model	FX-STP2
Flow Rate Range	1 - 120 ml/min
Tubing Type	PharMed (long life)
Dimensions (L x W x H)	5 x 3 x 5 inches (12.7 x 7.6 x 12.7 cm)
Item Weight	3.75 pounds (1.7 kg)
Connectivity	WiFi
Manufacturer	Kamoer

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Kamoer website. Keep your proof of purchase for warranty claims.

Online Resources: [Kamoer Official Store on Amazon](#)

11. PRODUCT VIDEOS

No official seller-created product videos were found for this model at this time. Please refer to the written instructions and diagrams for guidance.