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› Kamoer KK1800 Peristaltic Pump Head User Manual

Kamoer KK1800-1.6-6

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Model: KK1800-1.6-6

INTRODUCTION

This manual provides comprehensive instructions for the Kamoer KK1800 peristaltic pump head. This pump head is designed as an improved replacement for the old UIP's CK15 pump head, addressing common issues, and is also suitable for custom DIY assemblies.

KEY FEATURES

- Improved design over the old CK15 pump head, enhancing long-term continuous use reliability.
- Directly compatible with UIP single head and double head series for seamless integration.
- Available in two rotor configurations:
 - **3-Rotor:** Offers higher flow rates (80-1520 ml/min) with a slightly higher pulsation.
 - **6-Rotor:** Provides lower flow rates (70-700 ml/min) with reduced pulsation for smoother fluid delivery.
- Supports a range of BPT tube sizes: 2.4x5.6mm, 3.2x6.4mm, 4.8x8.0mm.
- Supports a range of Silicone tube sizes: 2.4x5.6mm, 3.2x6.4mm, 4.8x8.0mm, 6.4x9.6mm, 7.9x11.1mm.

SETUP

The Kamoer KK1800 pump head is engineered for straightforward installation and tube replacement.

Mounting the Pump Head

Secure the pump head using the provided mounting screws. Ensure the pump head is firmly attached to the main unit or mounting surface to prevent vibration and ensure stable operation.



Image description: A close-up view of the Kamoer KK1800 pump head with two long, knurled mounting screws being inserted into the side, illustrating the attachment method.

Tube Installation and Replacement

The pump head features an easy-to-open mechanism for quick and efficient tube replacement.



Image description: Two diagrams showing the Kamoer KK1800 pump head in an 'Open' state and a 'Close' state, with arrows indicating the movement for tube access and securing.

To install or replace a tube:

1. Gently open the pump head mechanism.
2. Carefully insert the appropriate size tubing into the pump head channel. Refer to the specifications section for compatible tube sizes.
3. Close the mechanism to secure the tube. Ensure the tube is properly seated and not kinked to prevent flow issues or leaks.

OPERATING INSTRUCTIONS

Once the pump head is mounted and the tubing is correctly installed, connect the pump head to your UIP system or DIY setup according to your system's requirements.

Flow Rate Considerations

The operational flow rate is influenced by the number of rotors in the pump head and the selected tube size. Consider the following:

- **3-Rotor Configuration:** Provides higher flow rates, suitable for applications requiring rapid fluid transfer.
- **6-Rotor Configuration:** Delivers a smoother flow with less pulsation, ideal for precision dosing or sensitive applications.

Select the appropriate rotor configuration and tube size based on your specific application's flow rate and pulsation requirements.



Image description: A diagram showing the Kamoer KK1800 pump head with its overall dimensions (105.5mm height, 54.5mm width, 94.5mm depth). An illustration of a 6-rotor assembly is shown alongside.

MAINTENANCE

Tube Replacement

Regularly inspect the pump tubing for any signs of wear, cracks, discoloration, or degradation. Replace tubing as needed to maintain optimal pumping performance, prevent contamination, and avoid leaks. The pump head's easy-to-open design facilitates quick and hassle-free tube changes.

Cleaning

Clean the exterior surfaces of the pump head with a soft, damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these may damage the plastic components. Ensure no liquid enters the internal mechanisms of the pump head.

TROUBLESHOOTING

If you encounter issues with your Kamoer KK1800 pump head, refer to the following common problems and solutions:

Low Flow Rate or No Flow

- **Tubing Kinked or Blocked:** Check if the tubing is correctly installed and free from kinks or obstructions.
- **Incorrect Tube Size:** Verify that the installed tube size matches the pump head's specifications and is appropriate for the application.
- **Worn Tubing:** Inspect the tubing for excessive wear or damage that could impede flow.
- **Pump Head Not Fully Closed:** Ensure the pump head mechanism is fully closed and securely compressing the tube.

Leakage

- **Improper Tube Seating:** Confirm that the tubing is properly seated within the pump head channel.
- **Damaged Tubing:** Check for any cuts, tears, or cracks in the tubing.
- **Pump Head Not Securely Closed:** Ensure the pump head is completely closed and latched.

Unusual Noise

- **Foreign Objects:** Inspect the pump head for any foreign objects that may be causing friction or obstruction.
- **Loose Mounting:** Ensure the pump head is securely mounted to its base.
- **Rotor Damage:** Check the rotors for any visible damage or obstruction.

TECHNICAL SPECIFICATIONS

Feature	Detail
Model	KK1800-1.6-6
Manufacturer	Kamoer Fluid Tech(Shanghai)Co.,Ltd
Item Weight	510 g
Material	Durable Plastic and Metal Components
Special Features	Easy to change tubes

Feature	Detail
Included Components	KK1800 Pump Head
Compatible BPT Tube Sizes	2.4x5.6mm, 3.2x6.4mm, 4.8x8.0mm
Compatible Silicone Tube Sizes	2.4x5.6mm, 3.2x6.4mm, 4.8x8.0mm, 6.4x9.6mm, 7.9x11.1mm
Flow Rate (3-Rotor)	80-1520 ml/min
Flow Rate (6-Rotor)	70-700 ml/min



· Easy operation and quick replacement of pump tubes

Image description: A side view of the Kamoer KK1800 pump head, showcasing its compact design and the external latch mechanism.

WARRANTY INFORMATION

For detailed warranty terms and conditions, please refer to the official Kamoer website or contact your authorized Kamoer distributor. It is recommended to retain your purchase receipt as proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For technical assistance, inquiries regarding spare parts, or any other support needs, please contact Kamoer Fluid Tech (Shanghai) Co., Ltd. customer service directly.

You can also visit the official Kamoer store for additional product information and resources: [Kamoer Store](#).

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