

## FIERRG KVP8 PLUS-KK-S

# FIERRG KVP8 Mini Diaphragm Pump KVP8 PLUS-KK-S

## Instruction Manual

### 1. PRODUCT OVERVIEW

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The FIERRG KVP8 Mini Diaphragm Pump, model KVP8 PLUS-KK-S, is a compact and efficient pump designed for various applications requiring precise gas or air handling. This pump features a durable motor and is engineered for smooth operation with low noise output.

Key features include:

- Negative Pressure: < -0.082Mpa
- Positive Pressure: > 0.1Mpa
- Available with Brush or Brushless motor options.
- Lightweight design, weighing less than 0.3 KG.
- Engineered for long working life and high efficiency.
- Compact size for easy integration and use.

### 2. SPECIFICATIONS

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Detailed technical specifications for the KVP8 PLUS-KK-S model are provided below:

Voltage rating	Power	Positive pressure	Negative pressure	Flow rate
12V	9W	>0.12Mpa	<-0.09Mpa	>380L/H

Model: KVP8 PLUS-KK-S

Series connection



Image: Technical specifications including voltage, power, pressure, and flow rate for the KVP8 PLUS-KK-S pump.

#### KVP8 PLUS-KK-S Technical Data

Parameter	Value
Model	KVP8 PLUS-KK-S
Voltage Rating	12V / 24V
Power	9W
Positive Pressure	> 0.12Mpa
Negative Pressure	< -0.09Mpa
Flow Rate	> 380L/H (for KVP8 PLUS-KK-S)
Flow Rate Range (Parallel/Series)	380~660L/H
Noise Level	< 65dB
Weight	Less than 0.3 KG (0.66 lbs)
Dimensions (Approximate)	76.2mm (Length) x 31mm (Width) x 31mm (Height)



Image: Side view of the pump showing approximate dimensions of 76.2mm in length and 31mm in width/height.

### 3. SETUP AND INSTALLATION

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Proper installation ensures optimal performance and longevity of your pump. Follow these guidelines for setup:

1. **Mounting:** The pump is designed for secure mounting using three designated holes. Ensure the mounting surface is stable and flat.



Image: Front view of the pump highlighting the three installation holes for mounting.

2. **Connections:** Identify the "IMPORT" (inlet) and "EXPORT" (outlet) ports on the pump. Connect tubing securely to prevent leaks.



Image: Side view of the pump indicating the "IMPORT" and "EXPORT" ports for tubing connections.

3. **Power Supply:** Connect the pump to a 12V or 24V DC power source, matching the pump's voltage rating. Ensure correct polarity.

#### 4. OPERATING INSTRUCTIONS

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The KVP8 Mini Diaphragm Pump can be configured for different flow rates depending on the connection method:

- **Series Connection:** For higher pressure applications.
- **Parallel Connection:** For higher flow rate applications.



Image: Comparison of two pump configurations: "In Parallel" and "In Series," illustrating how different connections achieve a flow rate range of 380~660 L/H.

Once connected to the power supply and tubing, the pump will operate. Monitor the system for proper function and ensure all connections remain secure.

## 5. MAINTENANCE

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To ensure the longevity and reliable performance of your FIERRG KVP8 Mini Diaphragm Pump, consider the following maintenance tips:

- **Regular Inspection:** Periodically check all tubing and connections for signs of wear, cracks, or leaks. Replace any damaged components immediately.
- **Keep Clean:** Ensure the pump's exterior is free from dust and debris. Avoid introducing foreign particles into the inlet or outlet ports.
- **Storage:** When not in use for extended periods, store the pump in a clean, dry environment away from extreme temperatures.

## 6. TROUBLESHOOTING

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If you encounter issues with your pump, refer to these common troubleshooting steps:

- **Pump Not Starting:**

- Check power connections and ensure the power supply is active and providing the correct voltage (12V or 24V).
- Verify correct polarity of the power connection.

- **Low Flow/Pressure:**

- Inspect tubing for kinks, blockages, or leaks.
- Ensure inlet and outlet ports are clear.
- Confirm the pump is configured correctly for the desired flow/pressure (series vs. parallel).

- **Unusual Noise:**

- Check for loose mounting screws.
- Ensure no foreign objects are obstructing the pump's operation.

If problems persist after following these steps, contact customer support for further assistance.

## 7. TYPICAL APPLICATIONS

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The versatility of the KVP8 Mini Diaphragm Pump makes it suitable for a range of applications, including but not limited to:

- Gas Analysis Systems
- Mounter Equipment
- Physiotherapy Devices
- Beauty Industry Equipment



**Gas Analysis**



**Moulder**



**Physiotherapy**



**Beauty Industry**

Image: Collage showing various industrial and medical settings where the KVP8 pump can be utilized, such as gas analysis, moulder machines, physiotherapy, and beauty equipment.

## **8. WARRANTY AND SUPPORT**

For warranty information or technical support, please refer to the product packaging or contact your retailer. FIERRG is committed to providing customer satisfaction and assistance with product-related inquiries.

The manufacturer states a commitment to pursuing the highest quality and offering timely customer service, dedicated to providing a 100% satisfaction solution for any concerns.