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JIAYIN JYPC-4

JYPC-4 Electromagnetic Liquid Solenoid Pump Instruction Manual

Model: JYPC-4

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the JIAYIN JYPC-4 Electromagnetic Liquid Solenoid Pump. Please read this manual thoroughly before using the product and retain it for future reference.

The JYPC-4 is a miniature electromagnetic pump designed for various pumping applications, capable of handling water or non-corrosive liquids. It operates on AC 220V - 240V and has a flow rate of 220cc/min.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product.

- **Electrical Safety:** Ensure the power supply matches the pump's rated voltage (AC 220V-240V). Disconnect power before installation, maintenance, or troubleshooting. Do not operate with damaged cords or connections.
- **Liquid Compatibility:** This pump is designed for water or non-corrosive liquids. Do not use with flammable, corrosive, or highly viscous fluids.
- **Temperature Limits:** Do not exceed the specified ambient temperature (Ta 70°C) or fluid temperature (Tf 60°C).
- **Installation:** Ensure proper and secure installation to prevent leaks or disconnections.
- **Children and Pets:** Keep the pump and its components out of reach of children and pets.

3. PRODUCT OVERVIEW

The JIAYIN JYPC-4 is a compact and efficient plunger-type electromagnetic pump. Its robust design ensures reliable performance for various liquid transfer needs.

3.1 Key Features

- Rated Voltage: AC 230V 50Hz 22W
- Flow Rate: 220 ± 20 cc/min
- Pressure: ≥5.5 bar
- Working Medium: Water or non-corrosive liquid

- Designed for no rust and no clogging

3.2 Product Components



Figure 3.2.1: Front view of the JYPC-4 pump, showing the main body and plunger.

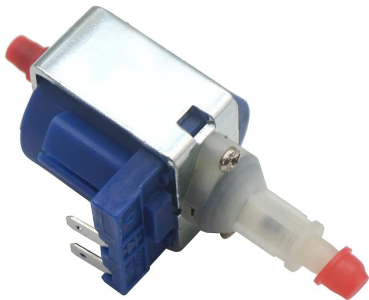


Figure 3.2.2: Angled view of the pump, highlighting the electrical terminals and mounting bracket.



Figure 3.2.3: Top-down view of the pump, showing the plunger mechanism and outlet.



Figure 3.2.4: Side view of the pump, illustrating its compact form factor.



Figure 3.2.5: Bottom view of the pump, showing the inlet connection.

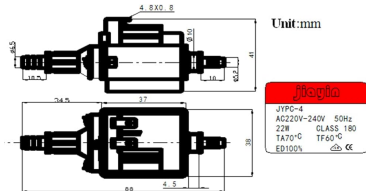


Figure 3.2.6: Rear view of the pump, showing the electrical connection points.

4. SPECIFICATIONS

Detailed technical specifications for the JYPC-4 pump are provided below:

Attribute	Value
Brand	JIAYIN
Model	JYPC-4
Type	Miniature Electromagnetic Pump, Plunger Type
Rated Voltage	AC 220V - 240V (230V 50Hz)
Power Consumption	22W
Flow Rate	220 ± 20 cc/min
Pressure	≥5.5 bar
Working Medium	Water or non-corrosive liquid
Ambient Temperature (Ta)	70°C (Max)
Fluid Temperature (Tf)	60°C (Max)
Weight	142g (approx. 5 ounces)
Material	Plastic
Product Dimensions	3.46 x 1.5 x 1.61 inches (approx. 88 x 38 x 41 mm)
UPC	607469294751



Figure 4.1: Technical drawing showing the dimensions of the JYPC-4 pump in millimeters.

5. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. It is recommended that installation be performed by a qualified professional if you are unsure.

- 1. Mounting:** Securely mount the pump in a stable position, ensuring it is level and protected from excessive vibration. Consider the orientation for optimal flow and air purging.
- 2. Plumbing Connections:**
 - Connect the inlet hose to the suction side of the pump. Ensure the hose is free of kinks and has a tight seal to prevent air leaks.
 - Connect the outlet hose to the discharge side. Ensure all connections are secure and leak-free.
 - Use appropriate fittings and clamps for the hose sizes.
- 3. Electrical Connection:**
 - Verify that the power supply is AC 220V-240V, 50Hz.
 - Connect the pump's electrical terminals to the power source according to local electrical codes and safety standards. Ensure proper insulation and strain relief for the wiring.
 - If the pump is part of a larger system, ensure it is correctly integrated with any control circuits or safety devices.

4. **Priming (if necessary):** Depending on the application, the pump may need to be primed before first use. Ensure the pump and suction line are filled with liquid to prevent dry running.

6. OPERATING INSTRUCTIONS

Once installed, operating the JYPC-4 pump is straightforward.

1. **Initial Check:** Before turning on the power, double-check all plumbing and electrical connections for security and absence of leaks.
2. **Power On:** Apply power to the pump. The electromagnetic mechanism will activate, and the plunger will begin its reciprocating motion, drawing liquid through the inlet and expelling it through the outlet.
3. **Monitor Operation:** Observe the pump during its initial operation. Listen for unusual noises and check for any leaks. Ensure a steady flow of liquid.
4. **Flow Control:** The pump has a flow control range of $\pm 20\%$. If your application requires precise flow, external flow control mechanisms may be necessary.
5. **Power Off:** To stop the pump, simply disconnect the power supply.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your JYPC-4 pump.

- **Cleaning:** Periodically inspect the pump for any external dirt or debris. Clean the exterior with a damp cloth. Do not use harsh chemicals.
- **Inlet/Outlet Inspection:** Check the inlet and outlet ports for any blockages or accumulation of sediment. Clear any obstructions to maintain optimal flow.
- **Connection Integrity:** Regularly inspect all hose and electrical connections for signs of wear, leaks, or corrosion. Tighten or replace as necessary.
- **Storage:** If storing the pump for an extended period, ensure it is drained of all liquid, cleaned, and stored in a dry, cool place.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with the JYPC-4 pump.

Problem	Possible Cause	Solution
Pump does not start	No power supply; Incorrect voltage; Damaged wiring; Internal fault.	Check power connection and outlet; Verify voltage matches pump requirements; Inspect wiring for damage; If issues persist, contact support.
Low or no flow	Air in the system (not primed); Clogged inlet/outlet; Kinked hose; Suction lift too high; Pump cavitation.	Prime the pump; Clear any blockages; Straighten hoses; Ensure suction lift is within limits; Check for air leaks in suction line.
Unusual noise during operation	Air in the system; Foreign object in pump; Loose mounting; Worn internal components.	Check for air leaks and prime; Disconnect power and inspect for foreign objects (if safe); Secure mounting; If noise persists, contact support.

Problem	Possible Cause	Solution
Leaking from connections	Loose connections; Damaged seals/hoses; Incorrect fittings.	Tighten all connections; Replace damaged seals or hoses; Ensure correct fittings are used.

9. WARRANTY AND SUPPORT

For technical assistance, product inquiries, or warranty information, please contact the manufacturer or distributor.



Figure 9.1: Product packaging displaying manufacturer and contact information.



Figure 9.2: Product packaging showing typical applications for the pump, such as steam generators and steam irons.



Figure 9.3: Product packaging with detailed product name, voltage, flow, power, frequency, and manufacturer address.

Based on the product packaging, you may contact:

Manufacturer: JIAYIN (Ningbo Jiayin Electro Mechanical Technology Co., Ltd.)

Email: info@wsj-product.com

Tel: 18594033865

European Representative: WSJ Product Ltd., Eschborner Landstraße 42-50, 60489 Frankfurt am Main, Germany

