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JIAYIN JYPC-4

JYPC-4 Series Electromagnetic Pump User Manual

Model: JYPC-4
Brand: JIAYIN

1. Introduction

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

The JYPC-4 is an original plunger-type iron water suction piston pump designed for various applications, including garment steamers and other systems requiring precise fluid transfer. It operates on AC 110V-120V and has a flow rate of 750cc/min.

2. Safety Information

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

- Ensure the power supply matches the pump's specifications (AC 110V-120V, 60Hz).
- Do not operate the pump with corrosive liquids unless explicitly stated as compatible. This pump is designed for water or non-corrosive liquids.
- Avoid operating the pump outside its specified working temperature range (Ambient: up to 70°C / 158°F; Medium: up to 60°C / 140°F).
- Disconnect power before performing any installation, maintenance, or troubleshooting.
- Keep the pump away from flammable materials and excessive moisture.
- Installation should be performed by qualified personnel if you are unsure.

3. Product Overview

The JIAYIN JYPC-4 pump is a compact and efficient electromagnetic piston pump. Key components include the main pump body, electrical terminals, and inlet/outlet ports.



Figure 3.1: Front view of the JYPC-4 electromagnetic pump, showing the main body, label, and inlet/outlet ports.



Figure 3.2: Angled view of the JYPC-4 pump, highlighting the electrical connection terminals at the base.



Figure 3.3: The JYPC-4 pump with red protective caps on the inlet and outlet ports, indicating new condition.



Figure 3.4: Another angled perspective of the JYPC-4 pump, showing the overall compact design and port configuration.

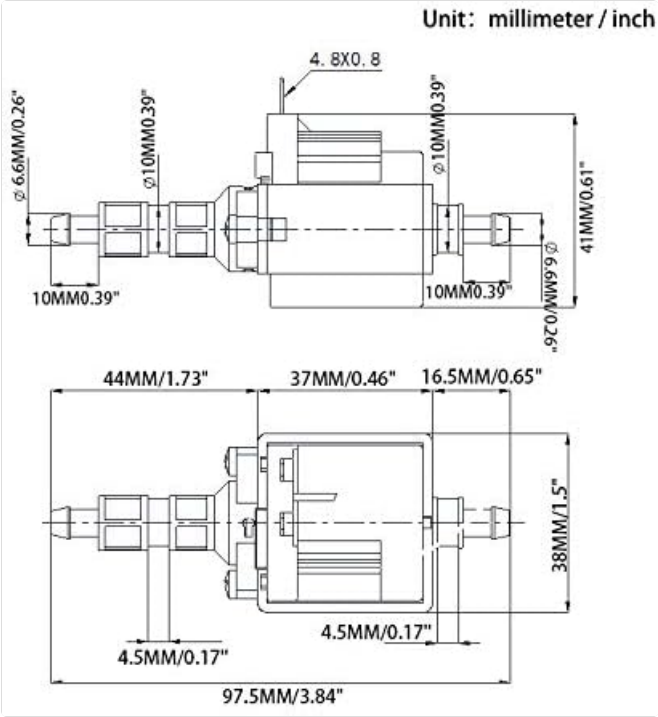


Figure 3.5: Technical drawing illustrating the precise dimensions of the JYPC-4 pump in millimeters and inches, crucial for integration.

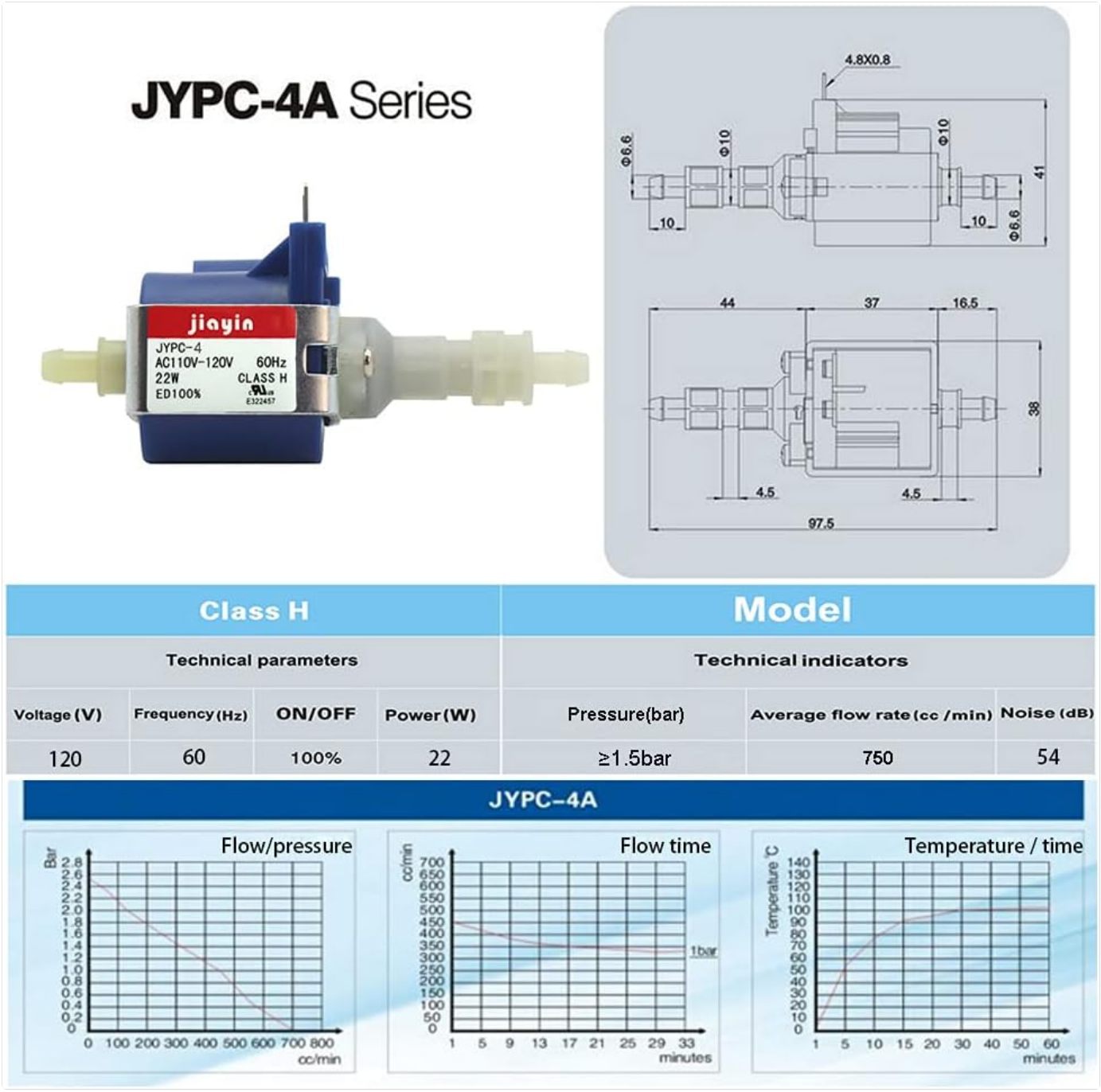


Figure 3.6: Overview of the JYPC-4A series, including a diagram of dimensions, a table of technical parameters (Voltage, Frequency, Power, Pressure, Flow Rate, Noise), and performance graphs for flow/pressure, flow time, and temperature/time.

4. Setup and Installation

1. **Mounting:** The pump shaft position is horizontal. Securely mount the pump in a stable position using appropriate fasteners. Refer to Figure 3.5 for mounting dimensions.
2. **Fluid Connections:** Connect the inlet and outlet hoses to the pump ports. The flow test method specifies a 13.8-inch silicon tube with an outer diameter of 0.31 inches and an inner diameter of 0.16 inches connected to the water inlet port. Ensure all connections are tight to prevent leaks.
3. **Electrical Connections:** Connect the pump to an AC 110V-120V, 60Hz power source. Ensure proper polarity and secure electrical connections. The pump is rated for 22W.
4. **Priming (if necessary):** For initial setup or after extended periods of non-use, ensure the pump is primed by allowing fluid to flow through it before applying power, if your system design allows.

5. Operating Instructions

The JYPC-4 pump is designed for intermittent or continuous operation within its specified parameters.

- **Power On:** Apply power to the pump. The electromagnetic mechanism will activate, and the plunger will begin to draw and push fluid.
- **Fluid Medium:** Use only water or non-corrosive liquids. The pump is designed to prevent rust and clogging with suitable media.
- **Flow Rate:** The nominal flow rate is 750 ± 15% cc/min. This rate is influenced by system pressure and fluid viscosity.
- **Working Pressure:** The pump operates effectively at a working pressure of ≥1.5 bar.
- **Temperature:** Ensure the ambient temperature is within 70°C (158°F) and the medium temperature is within 60°C (140°F) during operation.

6. Maintenance

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

- **Cleaning:** Periodically inspect the inlet and outlet ports for any debris or blockages. Clean as necessary.
- **Fluid Quality:** Use clean, filtered water or non-corrosive liquid to prevent internal clogging and wear.
- **Connections:** Regularly check all fluid and electrical connections for tightness and signs of wear or corrosion.
- **Storage:** If storing the pump for an extended period, ensure it is drained of fluid and stored in a dry, temperate environment.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Pump not operating	No power; Loose electrical connection; Internal fault.	Check power supply; Secure connections; Consult a technician if fault persists.
Low flow rate	Clogged inlet/outlet; Air in system; Incorrect fluid viscosity; Excessive back pressure.	Clear blockages; Bleed air from system; Ensure correct fluid; Reduce system resistance.
Unusual noise	Air cavitation; Debris inside pump; Loose mounting.	Ensure proper priming and fluid supply; Inspect for debris (disconnect power first); Tighten mounting screws.
Leakage	Loose connections; Damaged hoses/seals.	Tighten all connections; Replace damaged components.

If troubleshooting steps do not resolve the issue, contact customer support.

8. Specifications

Parameter	Value
Brand	JIAYIN
Model	JYPC-4

Parameter	Value
Type	Plunger Type Iron Water Suction Piston Electromagnetic Pump
Power Source	AC
Voltage	110V-120V
Frequency	60Hz
Power Consumption	22W
Maximum Flow Rate	750 ± 15% cc/min
Working Pressure	≥1.5 bar
Working Medium	Water or non-corrosive liquid
Ambient Temperature	Up to 70°C (158°F)
Medium Temperature	Up to 60°C (140°F)
Insulation Class	H
Net Weight	137 ± 5g (5.4 ounces)
Material	Plastic
Dimensions (approx.)	4.76 x 2.4 x 2.32 inches (Package Dimensions)

9. Warranty and Support

Specific warranty information for this product is not provided in the available documentation. Please refer to your purchase receipt or contact the seller/manufacturer directly for warranty details and support inquiries.

For technical assistance or questions regarding the JIAYIN JYPC-4 pump, please reach out to the manufacturer's customer service or the retailer from whom the product was purchased.

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