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JAIYNIYADAKATA JYPC-5B

Jiayin JYPC-5B Electromagnetic Solenoid Water Pump Instruction Manual

Model: JYPC-5B | Brand: JAIYNIYADAKATA

1. Introduction

This instruction manual provides essential information for the safe and efficient installation, operation, and maintenance of the Jiayin JYPC-5B Electromagnetic Solenoid Water Pump. Please read this manual thoroughly before using the product and retain it for future reference.

Product Overview

The Jiayin JYPC-5B is an electromagnetic solenoid water pump designed for various applications requiring water or non-corrosive liquid transfer under specific pressure and flow conditions. It operates on AC 100V-127V, 60Hz, with a power rating of 48W and a maximum pressure of 20 bar.



Figure 1: Front view of the Jiayin JYPC-5B Solenoid Water Pump, showing the main body and electrical connections.

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 (AC100V-127V, 60Hz).
- Do not operate the pump with flammable or corrosive liquids other than water or specified non-corrosive liquids.
- Disconnect power before installation, maintenance, or troubleshooting.
- Avoid direct contact with electrical components when the pump is powered.
- Install the pump in a dry, well-ventilated area, away from excessive heat or moisture.
- This pump is designed for intermittent duty (ID2/1min), meaning it operates for 2 minutes and rests for 1 minute. Continuous operation beyond this cycle may lead to overheating and damage.

3. Specifications

Parameter	Value
Model	JYPC-5B
Type	Electromagnetic Solenoid Water Pump
Voltage	AC100V-127V
Frequency	60Hz
Power	48W
Maximum Pressure	20 bar
Working Mode	ID2/1min (Intermittent Duty)
Working Medium	Water or non-corrosive liquid
Material	Plastic, Copper, Metal (Stainless Steel, Coil, Brass)
Temperature Rating (TA)	70°C
Temperature Rating (TF)	35°C
Item Weight	14.9 ounces (approx. 422g)
Dimensions	5.5 x 3.2 x 3.2 inches (Package Dimensions)



Figure 2: Side view of the pump, highlighting the product label with specifications like model, voltage, power, and working mode.

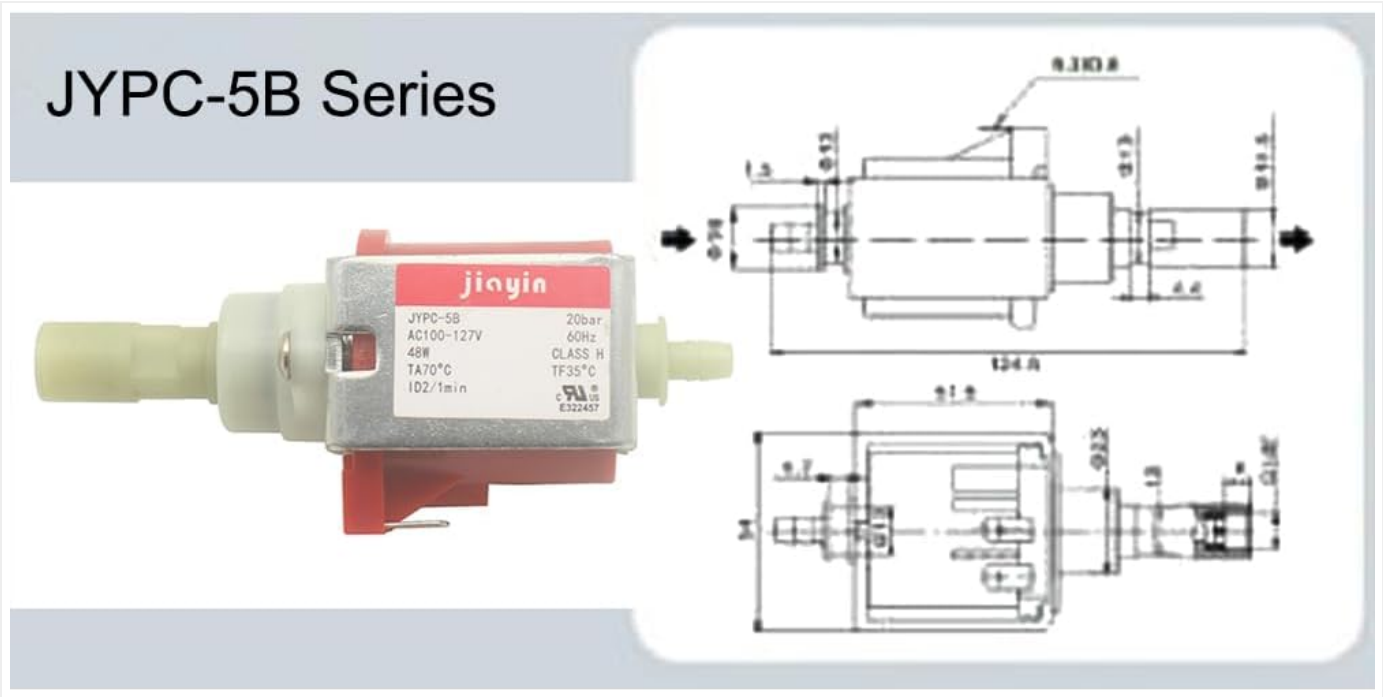


Figure 3: Technical drawing showing the dimensions and connection points of the JYPC-5B pump, useful for installation planning.

4. Setup and Installation

This section outlines the general steps for setting up and installing the Jiayin JYPC-5B pump. Specific installation procedures may vary depending on the appliance or system it is integrated into. Always refer to the appliance's service manual for detailed instructions.

1. **Power Disconnection:** Ensure the main power supply to the appliance or system is disconnected before beginning installation.
2. **Mounting:** Securely mount the pump in the designated location. Ensure it is stable and free from excessive vibration.

3. **Water Connections:** Connect the inlet and outlet hoses to the pump. Ensure all connections are tight to prevent leaks. The pump is designed to draw water at a height of 20cm within 10 seconds.
4. **Electrical Connections:** Connect the pump's electrical terminals to the appliance's power supply (AC100V-127V, 60Hz). Observe correct polarity if applicable. If replacing an existing pump, ensure wiring matches the original configuration.
5. **Leak Check:** Before restoring full power, perform a preliminary leak check by manually filling the system with water if possible, or by briefly applying power and observing for any drips.
6. **Final Power Connection:** Once all connections are secure and checked, restore power to the appliance.



Figure 4: Angled view of the pump, showing the inlet and outlet ports, and electrical terminals for connection.

5. Operating Instructions

The Jiayin JYPC-5B pump operates as an integral component within an appliance. Its operation is typically controlled by the appliance's internal system. Ensure the appliance is used according to its own instruction manual.

- **Working Medium:** The pump is designed to work with water or non-corrosive liquids. Using other liquids may damage the pump and void the warranty.
- **Intermittent Duty:** The pump's working mode is ID2/1min. This means it is designed for a maximum of 2 minutes of operation followed by a minimum of 1 minute of rest. Adhering to this cycle is crucial for the pump's longevity and to prevent overheating.
- **Initial Priming:** Upon first use or after extended periods of inactivity, the pump may need to be primed. This usually involves running the appliance's water cycle until water flows consistently. The pump is capable of drawing water from a height of 20cm within 10 seconds.

6. Maintenance

Regular maintenance helps ensure the optimal performance and longevity of your Jiayin JYPC-5B pump. Always disconnect power before performing any maintenance.

- **Cleaning:** Periodically inspect the pump and its connections for any buildup or debris. Clean the exterior with a damp cloth. Do not use harsh chemicals.
- **Connections Check:** Regularly check all water and electrical connections for tightness and signs of wear or corrosion. Tighten any loose connections.
- **Filter Inspection:** If the appliance has an inline filter before the pump, inspect and clean it according to the appliance's manual to prevent clogging. The pump is designed for "no rust, no clogging" under normal operating conditions with clean water.
- **Storage:** If the pump is to be stored for an extended period, ensure it is drained of all liquid to prevent freezing damage or mineral buildup. Store in a dry, temperate environment.

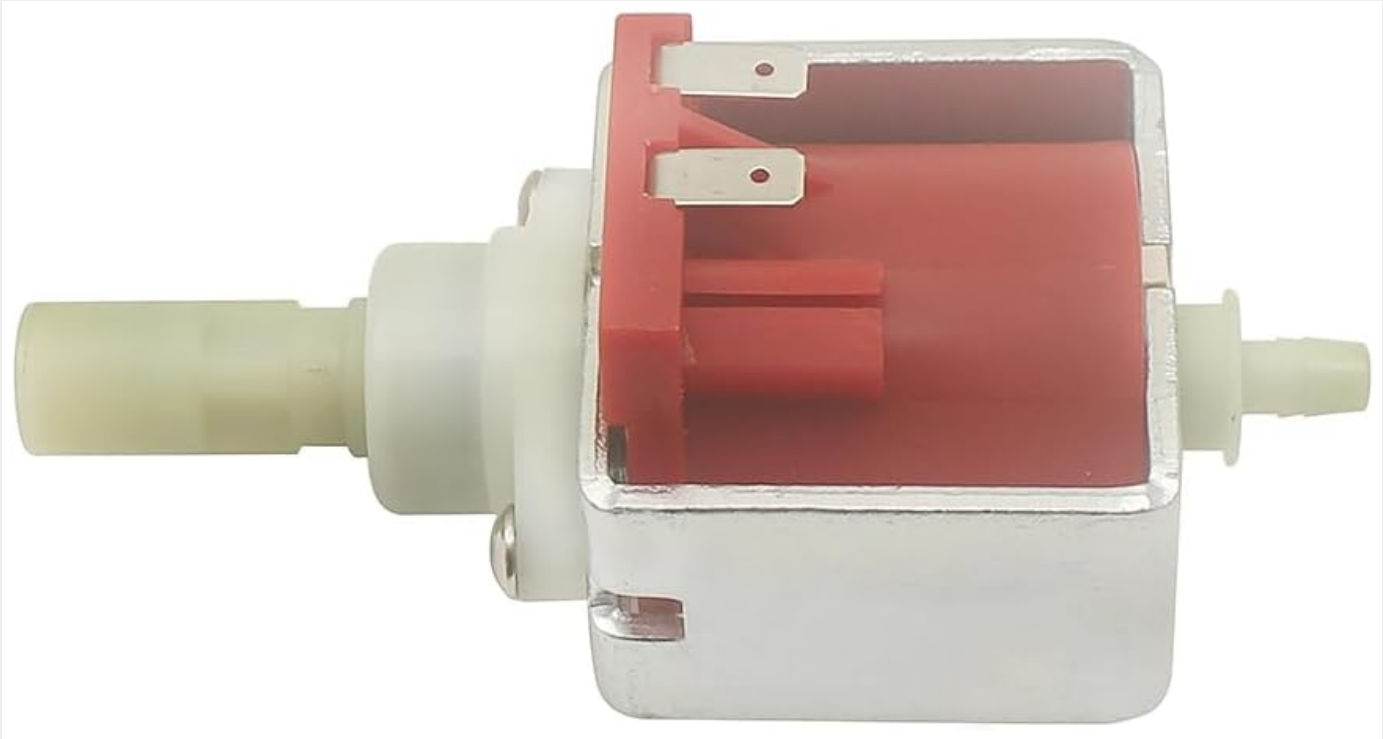


Figure 5: Bottom view of the pump, showing the mounting points and general construction, useful for maintenance access.

7. Troubleshooting

Before contacting support, review the following common issues and their potential solutions. Always disconnect power before attempting any troubleshooting steps.

Problem	Possible Cause	Solution
Pump does not operate	No power supply Loose electrical connection Internal fault	Check power source and appliance's power switch. Inspect and secure electrical connections. If power is present and connections are secure, the pump may require replacement.
Low water flow or pressure	Clogged inlet filter Air in the system (not primed) Kinked or blocked hose Pump wear	Clean or replace inlet filter. Run appliance cycle to prime the pump. Check hoses for obstructions. If pump is old, it may need replacement.

Problem	Possible Cause	Solution
Water leak	Loose hose connections Damaged O-rings or seals Cracked pump housing	Tighten hose connections. Inspect and replace O-rings/seals. If housing is cracked, the pump needs replacement.
Pump is noisy	Air in the system Vibration from loose mounting Internal component wear	Prime the pump to remove air. Ensure pump is securely mounted. If noise persists, internal wear may be present, consider replacement.

8. Warranty and Support

Warranty Information

Specific warranty details for the Jiayin JYPC-5B pump are typically provided by the seller or the manufacturer, Jiayin Technology. Please refer to your purchase documentation or contact the seller for warranty terms and conditions. Protection plans may also be available for purchase separately.

- **Protection Plans:** 3-Year and 4-Year Protection Plans may be available. Refer to your retailer for details.

Customer Support

For technical assistance, replacement parts, or warranty claims, please contact your point of purchase or the manufacturer, Jiayin Technology. When contacting support, please have your product model (JYPC-5B) and purchase information readily available.
Manufacturer: Jiayin Technology
Brand: JAIYNIYADAKATA

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