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JIAYIN JYPC-501P

JIAYIN JYPC-501P Solenoid Water Pump Instruction Manual

Introduction | Safety Information | Product Overview | Specifications | Compatibility | Setup | Operating Instructions | Maintenance | Troubleshooting | Warranty & Support

1. Introduction

This instruction manual provides essential information for the safe and efficient use of the JIAYIN JYPC-501P Solenoid Water Pump. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

2. Safety Information

General Safety Warnings:

- Always disconnect power before installation, maintenance, or repair.
- Ensure the power supply matches the pump's rated voltage (AC 230V 50Hz).
- Do not operate the pump with flammable or corrosive liquids other than water or specified non-corrosive liquids.
- Installation should be performed by a qualified technician if you are unsure.
- Keep the pump away from extreme temperatures and direct sunlight.
- Ensure all connections are secure and leak-free before operation.

3. Product Overview

The JIAYIN JYPC-501P is a solenoid electromagnetic water pump designed for various applications, including as a replacement part for compatible appliances. It is constructed from durable materials such as brass, steel, and plastic, ensuring reliable performance.



Figure 3.1: Front view of the JIAYIN JYPC-501P Solenoid Water Pump, showing the blue coil and electrical terminals.

Key Features:

- Durable construction: Made from brass, steel, and plastic for longevity.
- Reliable performance: Designed for consistent water flow without clogging.
- Rated Voltage: AC 230V 50Hz, 45W.
- Maximum Pressure: >8 bar.
- Working Medium: Suitable for water or non-corrosive liquids.



Figure 3.2: Side view of the JIAYIN JYPC-501P pump, displaying the product label with model number JYPC-5, voltage (AC220-240V), frequency (50Hz), power (45W), and insulation class (CLASS H).

4. Specifications

The following table details the technical specifications of the JIAYIN JYPC-501P Solenoid Water Pump:

Parameter	Value
Model Number	JYPC-501P
Brand	JIAYIN
Rated Voltage	AC 230V
Frequency	50Hz
Power	45W
Maximum Pressure	>8 bar
Maximum Flow Rate	550 ± 15% cm^3/minute
Maximum Lift Height	20 cm
Connection Method	G1/8"
Insulation Class	H
Ambient Temperature	Up to 70°C
Liquid Temperature	Up to 60°C
Working Medium	Water or non-corrosive liquid
Dimensions (L x W x H)	12.4 x 5.4 x 3.2 cm

Parameter	Value
Weight	440 grams
Materials	Brass, Steel, Plastic

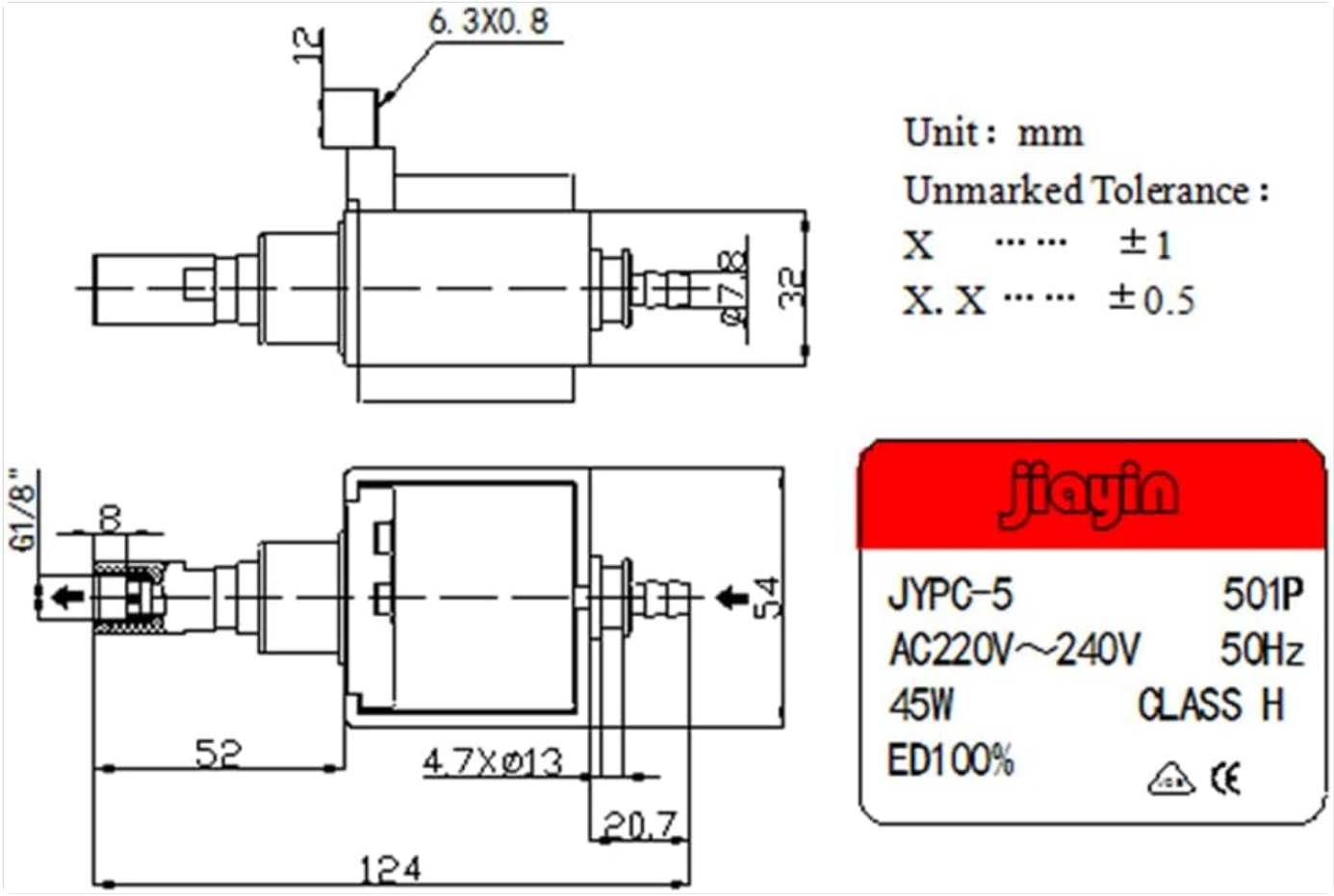


Figure 4.1: Technical drawing showing the dimensions and connection details of the JYPC-501P pump.

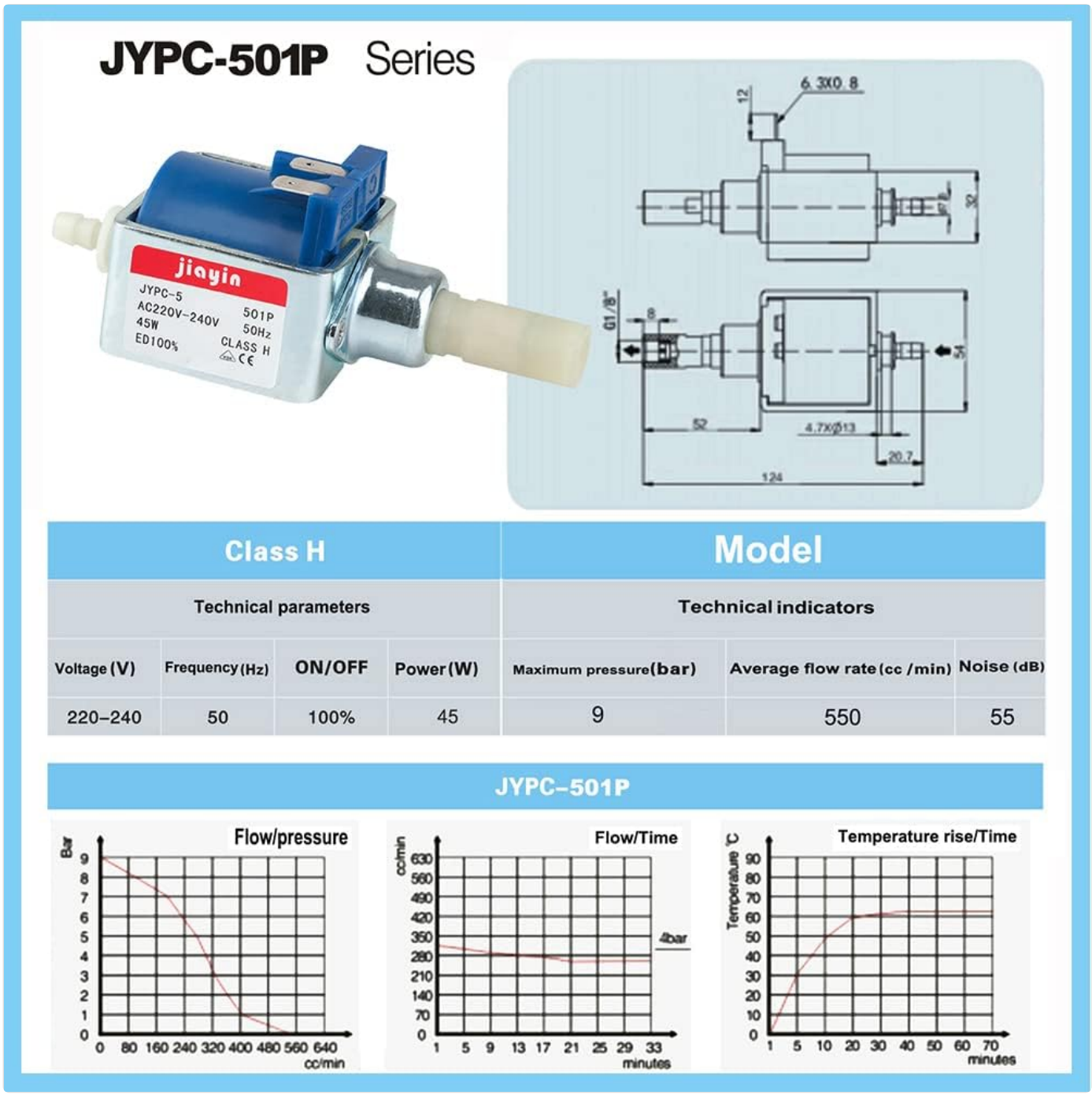


Figure 4.2: Detailed technical parameters table and performance graphs for flow/pressure, flow/time, and temperature rise/time for the JYPC-501P series.

5. Compatibility

The JIAYIN JYPC-501P Solenoid Water Pump is suitable as a replacement part for various appliances. Compatible models include, but are not limited to:

- GC8220
- GC8330
- GC8616
- GC8625
- GC8650
- GC8651
- GC9410

- GC9240
- GC9246

Always verify the specific requirements of your appliance before installing this pump.

6. Setup and Installation

Important: Ensure the power supply is disconnected before beginning installation.

1. **Preparation:** Gather necessary tools (e.g., wrenches, screwdrivers, sealing tape). Ensure the installation area is clean and dry.
2. **Mounting:** Securely mount the pump in the desired location. Ensure it is stable and free from excessive vibration.
3. **Water Connections:** Connect the inlet and outlet hoses to the pump. The pump uses a G1/8" connection type. Use appropriate fittings and sealing tape to ensure a watertight seal.
4. **Electrical Connections:** Connect the pump to the power supply. Ensure the voltage (AC 230V 50Hz) matches the pump's requirements. All electrical connections must be secure and insulated to prevent electrical hazards.
5. **Initial Check:** Before restoring power, double-check all connections (water and electrical) for tightness and correctness.

7. Operating Instructions

Once the pump is correctly installed and all connections are secure:

1. **Fill System (if applicable):** If the pump is part of a closed system, ensure it is filled with the appropriate liquid (water or non-corrosive liquid) before starting.
2. **Power On:** Restore power to the pump.
3. **Start Operation:** Activate the pump according to the control mechanism of your appliance or system.
4. **Monitor Performance:** Observe the pump during its initial operation to ensure proper flow and pressure. Check for any leaks or unusual noises. The pump is designed to deliver a maximum flow rate of 550 cm^3/minute and a maximum lift height of 20 cm.

8. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your JIAYIN JYPC-501P pump.

- **Regular Inspection:** Periodically inspect the pump and its connections for any signs of wear, damage, or leaks.
- **Cleanliness:** Ensure the pump's exterior is kept clean. Avoid allowing debris to accumulate around the pump.
- **Liquid Quality:** Only use clean water or approved non-corrosive liquids as the working medium. Contaminants can lead to clogging or damage.
- **Connection Integrity:** Check hose and electrical connections regularly to ensure they remain tight and secure.
- **Storage:** If the pump is to be stored for an extended period, ensure it is drained, cleaned, and stored in a dry, protected environment.

9. Troubleshooting

This section provides solutions to common issues you might encounter with the JYPC-501P pump.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Pump does not start	No power supply; Loose electrical connection; Faulty pump.	Check power source and circuit breaker; Secure all electrical connections; If power is present and connections are good, the pump may be faulty and require replacement.
Low flow or no water output	Clogged inlet/outlet; Air in the system; Insufficient liquid supply; Kinked hose.	Inspect and clear any blockages; Bleed air from the system; Ensure adequate liquid supply; Straighten hoses.
Leaking connections	Loose fittings; Damaged seals; Incorrectly applied sealing tape.	Tighten all fittings; Replace damaged seals; Reapply sealing tape correctly.
Unusual noise during operation	Air in the system; Debris in the pump; Loose mounting.	Bleed air from the system; Disconnect power and inspect for debris (if safe to do so); Secure pump mounting.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, contact customer support or a qualified technician.

10. Warranty and Support

Specific warranty information for the JIAYIN JYPC-501P Solenoid Water Pump is not provided in this document. Please refer to your purchase documentation or contact the retailer for details regarding warranty coverage.
For technical support or inquiries, please contact the manufacturer, JIAYIN TECHNOLOGY, or your product supplier.

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