

## Jiayin JYPC-2G

# Jiayin JYPC-2 Electromagnetic Solenoid Water Pump User Manual

Model: JYPC-2G

## 1. INTRODUCTION

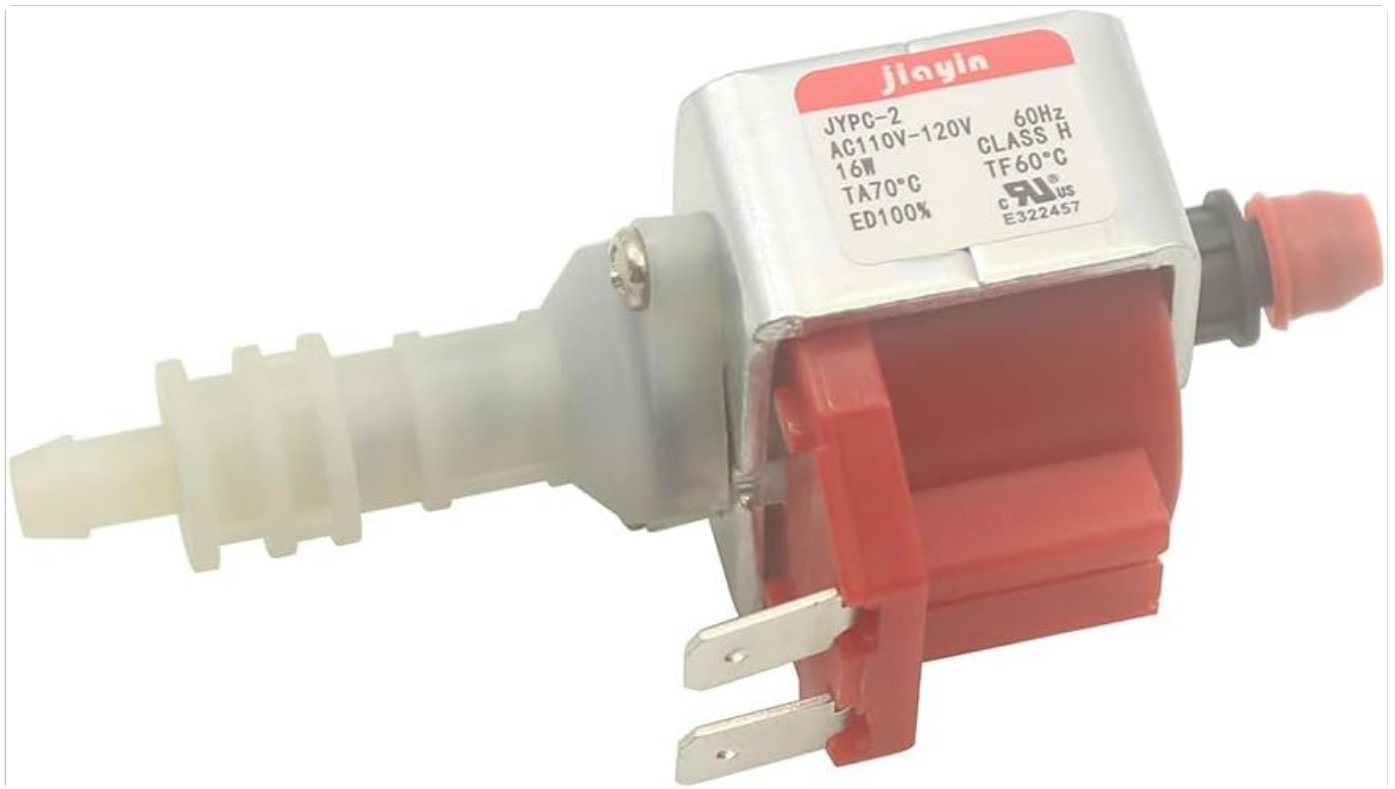
This manual provides essential information for the safe and efficient operation, installation, and maintenance of the Jiayin JYPC-2 Electromagnetic Solenoid Water Pump. This miniature electromagnetic pump is designed for various applications requiring precise fluid transfer, such as in carpet cleaners, electric irons, steam mops, garment steamers, and coffee machines. Please read this manual thoroughly before installation or use.

## 2. SAFETY INFORMATION

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (AC 110-120V, 60Hz). Disconnect power before installation, maintenance, or troubleshooting.
- **Liquid Compatibility:** Use only with water or non-corrosive liquids. Using corrosive liquids can damage the pump and void the warranty.
- **Temperature Limits:** Adhere to specified working temperatures: ambient temperature ( $T_a$ ) up to 70°C (158°F) and medium temperature ( $T_f$ ) up to 60°C (140°F).
- **Installation:** Ensure proper and secure installation to prevent leaks or disconnections.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified technician.

## 3. PRODUCT OVERVIEW

The Jiayin JYPC-2G is a compact electromagnetic solenoid pump designed for reliable and consistent fluid delivery. Its robust construction ensures durability and efficient performance in various household and commercial appliances.



**Figure 3.1:** Front view of the Jiayin JYPC-2G electromagnetic solenoid water pump. This image displays the pump's main body, the red solenoid coil housing, the white plastic inlet/outlet nozzles, and the electrical terminals. The product label with specifications like "Jiayin JYPC-2 AC110V-120V 16W 60Hz" is clearly visible.



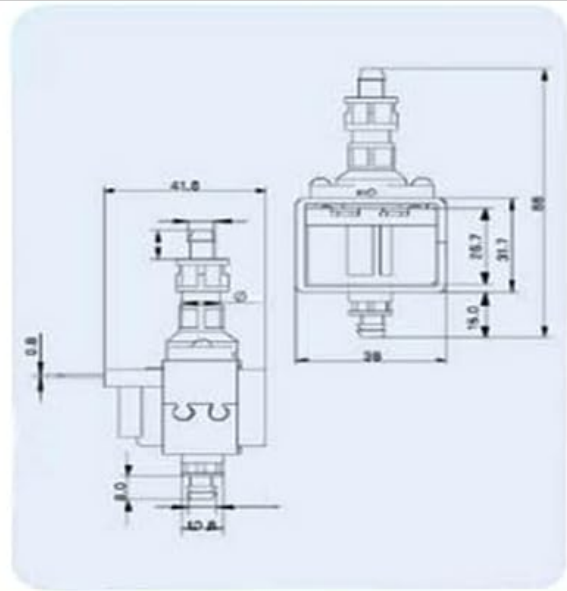
**Figure 3.2:** Angled view of the Jiayin JYPC-2G pump. This perspective highlights the two flat electrical terminals at the bottom, the white plastic inlet nozzle on the left, and the black plastic outlet nozzle on the right. The red solenoid housing and the silver metal casing are also visible.

## 4. SPECIFICATIONS

Refer to the table below for detailed technical specifications of the JYPC-2G pump.

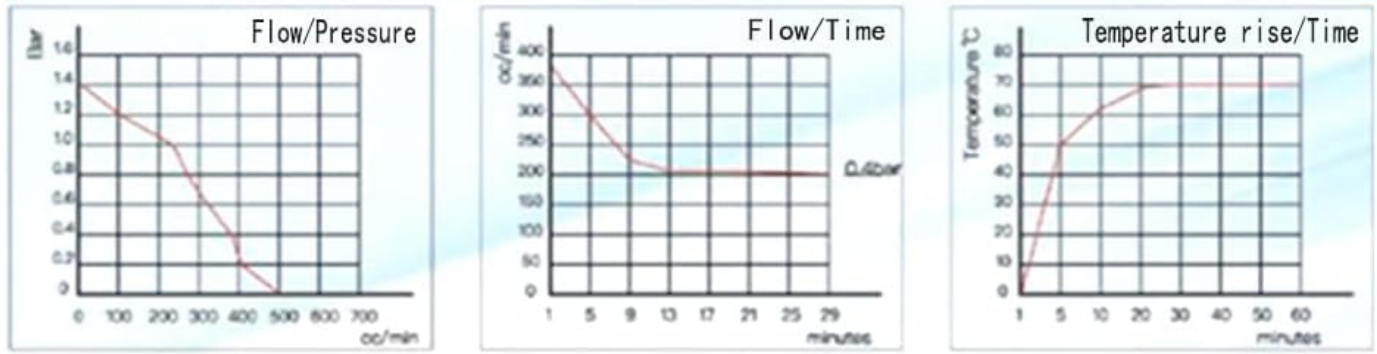
Type

**JYPC-2G** Series



Class H				Mode I	
Technical Parameter				Index	Specifications
Voltage (V)	Frequency (Hz)	ON/OFF	Power (W)		JYPC-2G01
220-240	50	100%	16	Maximum pressure (bar)	1.5
110-220	60	100%	16	Average flow (cc/min)	500
				Noise (dB)	45
Product tolerance range: ±15%					

**JYPC-2G01**



**Figure 4.1:** Comprehensive view of the JYPC-2G pump including its physical dimensions, technical parameters, and performance graphs. The image shows the pump itself, a detailed technical drawing with measurements, a table listing specifications like voltage, frequency, power, maximum pressure, average flow, and noise level, and three graphs illustrating flow/pressure, flow/time, and temperature rise/time characteristics.

Parameter	Value
Model	JYPC-2G
Type	Miniature Electromagnetic Pump
Voltage	AC 110-120V
Frequency	60Hz
Power	16W
Maximum Flow Rate	500 ± 10% cc/min

Parameter	Value
Working Pressure	1.5 Bar
Working Medium	Water or non-corrosive liquid
Ambient Temperature (Ta)	Max 70°C (158°F)
Medium Temperature (Tf)	Max 60°C (140°F)
Material	Plastic (housing), Copper, Steel (internal components)
Dimensions (approx.)	3.5"L x 1.6"W x 3.5"H
Weight	4.1 oz (116g)
Noise Level	45 dB

## 5. SETUP AND INSTALLATION

Before beginning installation, ensure the power supply is disconnected from the appliance where the pump will be installed.

- 1. Identify Inlet and Outlet:** The pump typically has a clear or white plastic nozzle for the inlet and a black or darker nozzle for the outlet. Refer to the product images for visual identification.
- 2. Hose Connection:** Securely connect the appropriate hoses to the pump's inlet and outlet nozzles. Ensure connections are tight to prevent leaks. For the flow test method, a 13.8-inch silicon tube with an outer diameter of 0.28 inch and an inner diameter of 0.146 inch is connected to the water inlet port.
- 3. Electrical Connection:** Connect the pump's two electrical terminals to the appliance's power supply (AC 110-120V, 60Hz). Ensure correct polarity if specified by the appliance, though for AC pumps, polarity is often not critical. Secure all electrical connections.
- 4. Mounting:** Mount the pump securely within the appliance. Ensure it is stable and not subject to excessive vibration.
- 5. Leak Check:** After installation, perform a visual inspection for any loose connections or potential leak points before restoring power.



**Figure 5.1:** Side view of the Jiayin JYPC-2G pump. This image clearly shows the white plastic inlet nozzle on the left and the black plastic outlet nozzle on the right, indicating the direction of fluid flow. The red solenoid housing is also visible.

## 6. OPERATING INSTRUCTIONS

The Jiayin JYPC-2G pump operates automatically when power is supplied, typically controlled by the appliance it is integrated into.

- 1. Power On:** Once installed and all connections are secure, restore power to the appliance.
- 2. Fluid Supply:** Ensure there is an adequate supply of the intended liquid (water or non-corrosive liquid) available at the pump's inlet.
- 3. Activation:** The pump will activate when the appliance's control system signals it to operate, initiating fluid transfer.
- 4. Monitoring:** Observe the pump's operation during its first use to ensure proper function and no leaks.

The pump is designed for continuous operation (ED100%) within its specified temperature limits.

## 7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your pump.

- Cleaning:** Periodically inspect the pump and connections for any buildup or debris. Clean the exterior with a damp cloth. Do not immerse the pump in water.
- Fluid Quality:** Always use clean, non-corrosive liquids to prevent internal clogging or damage.
- Connection Check:** Regularly check hose and electrical connections for tightness and signs of wear or damage.
- Storage:** If the appliance is to be stored for an extended period, ensure the pump is drained of any liquid to prevent freezing or stagnation.

## 8. TROUBLESHOOTING

This section addresses common issues you might encounter with the Jiayin JYPC-2G pump.

Problem	Possible Cause	Solution
Pump does not operate	No power supply; Loose electrical connections; Faulty pump.	Check power source and appliance controls. Verify electrical connections are secure. If power is present and connections are good, the pump may need replacement.
No fluid flow or weak flow	Insufficient fluid supply; Clogged inlet/outlet; Air in the system; Kinked hose; Pump malfunction.	Ensure adequate fluid in the reservoir. Check hoses for clogs or kinks. Bleed air from the system if necessary. Inspect pump for internal blockages.
Leaking from connections	Loose hose connections; Damaged hoses; Improperly seated seals.	Tighten hose clamps or connections. Inspect hoses for cracks or damage and replace if necessary. Ensure seals are correctly seated.
Unusual noise during operation	Air in the system; Debris in pump; Loose mounting.	Bleed air from the system. Disconnect power and inspect for debris (if accessible and safe). Ensure the pump is securely mounted.

If troubleshooting steps do not resolve the issue, contact customer support or a qualified technician.

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the documentation provided with your original appliance or contact the manufacturer of the appliance in which this pump is installed. As this is a component part, specific warranty terms may be covered by the end product's warranty.

For further assistance, you may also contact the seller directly through the platform where the purchase was made.

