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› Qiangsens DC 12V Water Dispenser Pump (Model: Qiangsens-12V-WD) Instruction Manual

Qiangsens Qiangsens-12V-WD

Qiangsens DC 12V Water Dispenser Pump Instruction Manual

Model: Qiangsens-12V-WD

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient installation, operation, and maintenance of your Qiangsens DC 12V Water Dispenser Pump. Please read this manual thoroughly before using the product and retain it for future reference.



Image 1.1: Qiangsens DC 12V Water Dispenser Pump and included accessories.

2. SAFETY INFORMATION

- Ensure the power supply matches the pump's specifications (DC 12V).
- Do not operate the pump dry. Ensure water is flowing through the pump before applying power.
- Disconnect power before performing any installation, maintenance, or troubleshooting.
- Keep electrical connections dry and protected from water exposure.
- This pump is designed for drinking water systems. Do not use with flammable liquids or chemicals.

3. PRODUCT OVERVIEW

3.1 Key Features

- **Compatibility:** Designed as a replacement pump for various bottom-loaded water dispensers, including Primo, Avalon, Brio, and DP005A2 models.

- **Self-Priming:** Capable of self-priming up to 1.3 meters.
- **Quiet Operation:** Features a durable soft rubber mounting base for vibration damping, reducing operational noise.
- **Pressure Protection:** Built-in pressure relief protection switch to ensure stable operation and prevent damage from high water pressure.
- **Durable Design:** Six-screw design for enhanced sealing and leakage prevention under pressure.



Image 3.1: Key features of the pump, highlighting the durable soft rubber mount and pressure relief switch.

3.2 Included Components

- DC 12V Water Dispenser Pump
- 1/4" Pipe Quick Connection Elbow (x2)
- 1/4" RO Water Pipe
- Mounting Screws
- Heat Shrink Tube



Image 3.2: All accessories provided with the pump kit.

4. INSTALLATION

Follow these steps for proper installation of the water dispenser pump. Ensure the water dispenser is unplugged and drained before beginning.

1. **Access the Old Pump:** Locate and access the existing water pump within your water dispenser. This may require removing panels or covers.
2. **Disconnect Water Lines:** Carefully disconnect the water inlet and outlet lines from the old pump. Note their orientation. For quick-connect fittings, press the collar in while pulling the tube out.
3. **Disconnect Electrical Wiring:** Disconnect the electrical wiring from the old pump. If the old pump is hard-wired, you may need to cut the wires and use the provided heat shrink tube for a secure connection with the new pump's wiring.
4. **Remove Old Pump:** Unscrew and remove the old pump from its mounting location.
5. **Mount New Pump:** Position the new Qiangsens pump in the same location. Use the provided screws to secure it. The soft rubber mounting base helps reduce vibration and noise.
6. **Connect Water Lines:** Connect the 1/4" RO water pipe and quick connection elbows to the inlet and outlet ports of the new pump. Ensure a secure, leak-free connection. The pump's inlet and outlet are clearly marked.
7. **Connect Electrical Wiring:** Connect the new pump's electrical wiring. If splicing, ensure a proper, insulated connection using the heat shrink tube. Observe correct polarity (red to positive, black to negative).
8. **Test for Leaks:** Before reassembling the dispenser, plug it in and allow it to draw water. Carefully inspect all connections for any leaks.
9. **Reassemble:** Once confirmed leak-free, reassemble any panels or covers removed during installation.



Image 4.1: Example of the pump installed within a water dispenser, showing water flow direction.



Image 4.2: Detailed view of the 1/4" inlet and outlet ports.

5. OPERATION

Once installed and connected, the Qiangsens DC 12V Water Dispenser Pump operates automatically as part of your water dispenser system. It is designed to draw water from a source (e.g., a bottom-loaded water bottle) and deliver it to the dispenser's internal reservoir or tap.

- The pump will activate when the water level in the dispenser's reservoir drops below a certain point.
- The self-priming feature allows the pump to draw water even if there is air in the suction line, up to 1.3 meters.
- The built-in pressure switch protects the pump by automatically shutting it off if the pressure exceeds 35 PSI (2.4 BAR), preventing damage.
- The soft rubber mount contributes to a low-noise operation, suitable for home and office environments.

6. MAINTENANCE

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

- **Periodic Inspection:** Periodically check all water connections for leaks and ensure electrical connections are secure and dry.
- **Clean Exterior:** Keep the exterior of the pump clean and free from dust or debris.
- **Water Quality:** Using filtered or purified water can help prevent mineral buildup within the pump over time.
- **Avoid Dry Running:** Ensure the water source is never empty to prevent the pump from running dry, which can cause damage.

7. TROUBLESHOOTING

If you encounter issues with your pump, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Pump not running	No power; loose electrical connection; faulty pump.	Check power supply and connections. Ensure dispenser is plugged in. If connections are secure and power is present, the pump may require replacement.
No water flow or weak flow	Empty water bottle; kinked or blocked water line; air in the system; pump running dry.	Replace water bottle. Check water lines for obstructions. Allow pump to self-prime. Ensure pump is not running without water.
Unusual noise or vibration	Loose mounting; air in the system; internal pump issue.	Ensure pump is securely mounted. Allow pump to self-prime to clear air. If noise persists, contact support.
Water leakage	Loose water line connections; damaged O-rings or fittings.	Tighten all quick-connect fittings. Inspect O-rings and replace if damaged.

8. SPECIFICATIONS

Specification	Value
Brand	Qiangsens
Model Number	Qiangsens-12V-WD
Voltage	DC 12V
Load Current	0.3-0.4A
Wattage	4.5 Watts
Maximum Flow Rate	1.6 Liters Per Minute (LPM)
Maximum Pressure	35 PSI (2.4 BAR)
Self-Priming Suction Range	1.3 Meters
Sound Level	35 Decibels (dB)
Material	Stainless Steel (motor housing), Diaphragm pump components
Product Dimensions	4.93"L x 3.2"W x 2.4"H

Specification	Value
Item Weight	16 Ounces (1 pound)
UPC	705114310631

6 Screw Design

Make pump can better prevent leakage under greater pressure.

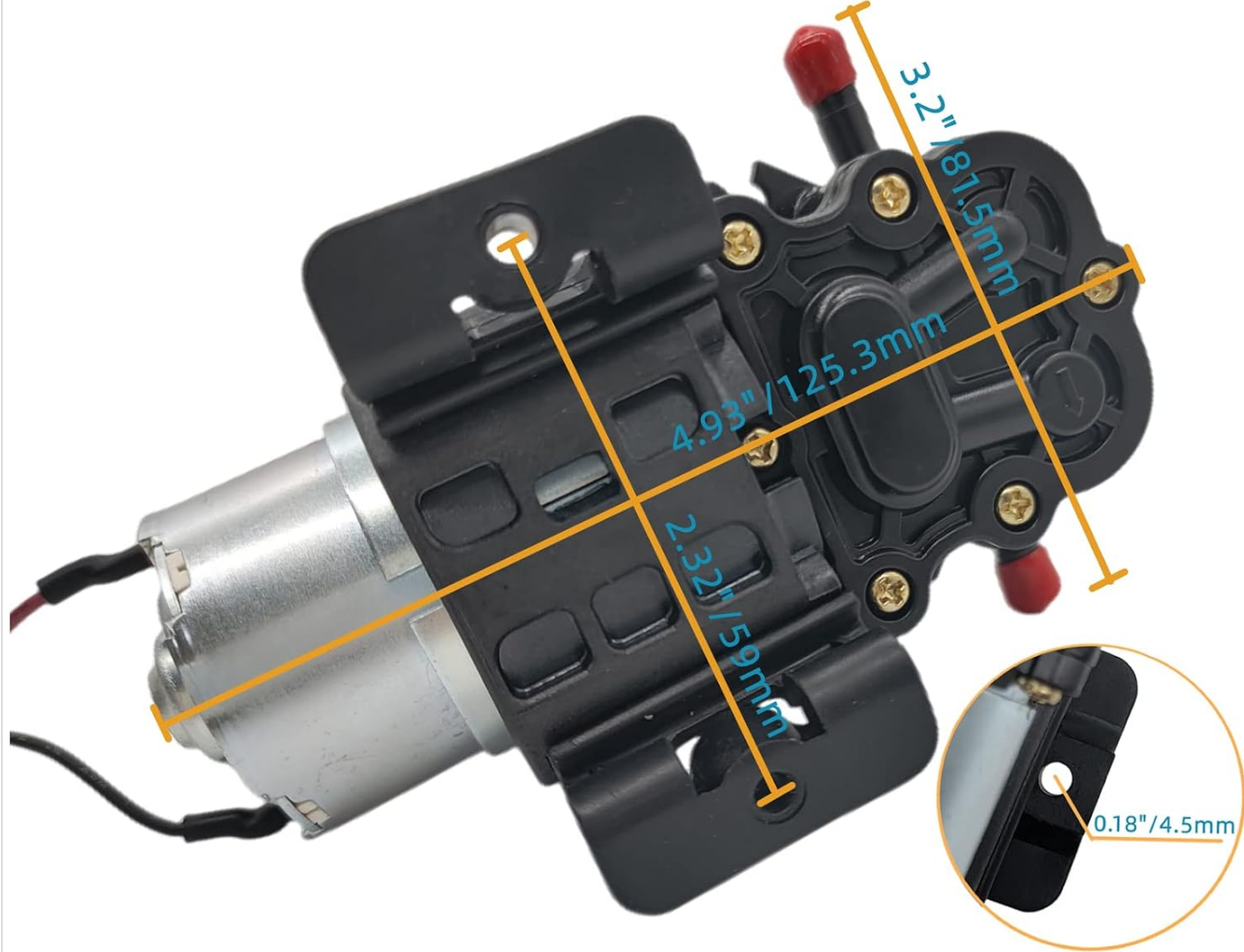


Image 8.1: Dimensional drawing of the pump.

9. SUPPORT

For further assistance, technical support, or warranty inquiries, please contact the manufacturer or your retailer. Keep your purchase receipt and model number readily available.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question