High quality Micro Diaphragm sprayer Water Pump DP-521 0.48 0.8mpa DC12V Self-priming Booster Pump Automatic Switch



Product ID: 1005009692078424 · DC Water Booster Pump

Intended Use

Intended for boosting water pressure in non-medical, non-food applications such as garden sprayers, RV water systems, or small-scale irrigation. Suitable for use with clean water only. Operates with a DC12V power supply and features an automatic switch for on-demand operation.

Safety Warnings

- Read all instructions before use. Failure to comply may result in injury or equipment damage.
- Keep out of reach of children. Contains small parts and moving components that may cause injury.
- Do not use for drinking water, medical, or food-related applications. Not certified for potable water use.
- Maximum working pressure is 0.8MPa (8 bar). Exceeding this may cause pump failure or burst pipes, resulting in water damage or injury.
- Ensure all connections are properly sealed with thread sealant to prevent leaks under pressure.
- Disconnect power before installing or maintaining. Risk of electric shock if handled with power connected.
- Avoid contact with moving parts during operation. May cause pinch or crush injuries.
- Do not operate with dry running (no water flow). Will cause overheating and diaphragm damage.
- Use only with clean water. Contaminated or corrosive fluids will damage internal components.
- Check for sharp edges on metal brackets/screws. Wear gloves during installation to prevent cuts.

Installation

- Select a dry, well-ventilated location. Ensure surface supports pump weight.
- Secure pump using provided mounting brackets and screws; tighten firmly to reduce vibration.
- Connect inlet hose to suction port with compatible fittings; use thread sealant for tight seal.
- Connect outlet hose to discharge port; use pressure-rated hose suitable for 0.8MPa (8 bar).
- Connect DC12V power supply to terminals, ensuring correct polarity (positive to positive, negative to negative).
- Prime pump by filling inlet hose with water before initial start to prevent dry running.
- Check all connections for leaks before operation; tighten any loose fittings.

Operation

- Turn on power supply to activate; automatic switch engages when pressure drops below threshold.
- Monitor initial operation for unusual noises, leaks, or overheating; stop immediately if detected.
- Ensure adequate inlet water supply to prevent dry running. Do not run continuously for >30 minutes.
- Turn off power and disconnect before maintenance or hose disconnection.

Maintenance

- Inspect inlet filter (if equipped) regularly; clean debris to maintain flow rate.
- Check diaphragm for wear/damage every 6 months; replace if cracks or leaks are found.
- Tighten loose mounting screws/hose connections to prevent vibration damage.
- Flush with clean water after extended use to remove sediment and prevent corrosion.

Specifications

- Model: DP-521

- Power Supply: DC12V
- Maximum Working Pressure: 0.8MPa (8 bar)
- Flow Rate: 0.48 L/min
- Type: Self-priming Micro Diaphragm Pump
- Features: Automatic Pressure Switch
- Body Material: Plastic with Metal Mounting Brackets

Storage & Disposal

Store in a dry, cool location when not in use. Disconnect power and drain all water from pump/hoses. Dispose of according to local electronic waste recycling regulations; do not discard with household waste.