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› Moonshan 3/4 HP Water Pressure Booster Pump User Manual

Moonshan MS-Pump-3

Moonshan 3/4 HP Water Pressure Booster Pump

MODEL: MS-PUMP-3

User Manual

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Moonshan 3/4 HP Water Pressure Booster Pump. Please read this manual thoroughly before installation and use, and retain it for future reference.

The Moonshan 3/4 HP Water Pressure Booster Pump is designed to enhance water pressure for various applications, including whole-house water supply, garden irrigation, and shallow well pumping. It features a durable 304 stainless steel pump head, an intelligent pressure switch for automatic operation, and advanced protection features to ensure reliable performance.



Figure 1: Moonshan 3/4 HP Water Pressure Booster Pump and included components.

2. Safety Information

Always adhere to the following safety guidelines to prevent injury or damage to the pump:

- Ensure the power supply matches the pump's voltage (110V AC).
- Do not operate the pump without water (dry running) as this can cause severe damage. The pump has built-in water shortage protection.
- Ensure proper grounding to prevent electrical shock.
- Keep children and unauthorized personnel away from the pump during operation.
- Disconnect power before performing any maintenance or installation.
- Avoid installing the pump in areas prone to freezing temperatures.

3. Product Overview and Components

The Moonshan Water Pressure Booster Pump is engineered for durability and efficiency. Key features include:

- **304 Stainless Steel Pump Head:** Resistant to rust and corrosion, ensuring clean water and extended lifespan.
- **Intelligent Pressure Switch:** Automatically senses water pressure for ON/OFF operation, providing up to 40 PSI additional pressure.
- **Built-in Pressure Gauge:** Allows real-time monitoring of water pressure.
- **Compact Pressure Tank:** Extends pump service life and reduces frequent startups.
- **Advanced Protection Features:** Includes temperature sensing for automatic overload stop and water shortage protection.



Figure 2: Detailed view of pump components.

4. Setup and Installation

Follow these steps for proper installation:

1. **Placement:** Position the pump on a stable, level surface in a well-ventilated area, protected from direct sunlight and freezing temperatures.
2. **Inlet Connection:** Install the provided check valve at the inlet. Ensure at least two interface gaskets are

placed. It is recommended to wrap adapters with raw tape (Teflon tape) before installation to prevent water leakage. The pump has a 1-inch inlet.

3. **Outlet Connection:** The pump comes with a pre-installed adapter at the outlet. Connect your water system or garden hose to the 1-inch outlet.
4. **Electrical Connection:** Plug the pump into a standard 110V AC outlet. The 20 ft power cord provides ample reach.
5. **Priming (if necessary):** For initial use or after extended periods of non-use, ensure the pump is properly primed by filling the pump casing with water before starting.



Figure 3: High Working Performance and Installation Context.

Video 1: Official Moonshan video demonstrating the 3/4HP Water Pressure Booster Pump for Home, including its features and

5. Operating Instructions

The pump is designed for automatic operation based on water demand.

- **Automatic ON/OFF:** The intelligent pressure switch automatically turns the pump on when water is drawn (e.g., opening a faucet) and turns it off when water flow stops.
- **Pressure Adjustment:** The cut-in pressure can be adjusted using the pressure screw behind the pressure tank. This allows you to set the desired starting pressure for the pump.
- **Pressure Monitoring:** The built-in pressure gauge provides a visual indication of the current water pressure in the system.

AUTO ON/OFF

- INTELLIGENT WATER PRESSURE SENSOR



Figure 4: Auto On/Off Functionality.



Pressure Switch

Only cut-in pressure can be adjusted, the pump can provide up to 37 Psi of additional pressure

Water Shortage Protection

When the machine is lack of water, the power light will flicker.



Pressure Gauge

Built-in Pressure Gauge facilitates to observe the situation in the tank in real time.

Figure 5: Pressure Switch, Water Shortage Protection, and Pressure Gauge.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your pump:

- **Regular Inspection:** Periodically check for any leaks, loose connections, or unusual noises.
- **Cleanliness:** Keep the pump exterior clean and free from debris. Ensure the cooling fan is not obstructed.
- **Winterization:** In cold climates, drain the pump completely and store it in a frost-free environment to

prevent damage from freezing water.

- **Check Valve:** Periodically inspect the check valve for proper function and clear any blockages.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Pump does not start	No power; Clogged inlet/outlet; Motor overload.	Check power connection; Clear obstructions; Allow motor to cool and reset.
Low water pressure	Insufficient water supply; Air in the system; Clogged filter/pipes.	Ensure adequate water source; Re-prime the pump; Check and clear any blockages.
Pump runs continuously / Does not shut off	Leak in the system; Pressure switch malfunction; Incorrect pressure setting.	Check for leaks in plumbing; Inspect pressure switch; Adjust cut-in pressure setting.
Pump stops unexpectedly	Water shortage; Overheating.	Check water supply; Allow pump to cool down. The pump has automatic protection features.

8. Specifications

Specification	Value
Brand	Moonshan
Model Number	MS-Pump-3
Power Source	Corded Electric
Voltage	110 Volts
Wattage	550 watts
Item Weight	14 Pounds
Material	Stainless Steel
Maximum Flow Rate	1050 Gallons Per Hour (GPH)
Maximum Lifting Height	25 Feet (Suction)
Maximum Pressure Boost	Up to 40 PSI additional pressure
Inlet/Outlet Size	1 inch

9. Warranty and Support

Moonshan provides a **One-Year Warranty** for this product from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact Moonshan customer service through the retailer's platform or the official Moonshan website. Provide your model number (MS-Pump-3) and a detailed description of the issue for prompt assistance.