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## Moonshan MS-RO-100G

# Moonshan 100 GPD RO System Booster Pump

Model: MS-RO-100G

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Moonshan 100 GPD Reverse Osmosis (RO) System Booster Pump. This pump is designed to enhance the performance of RO systems by increasing water pressure, ensuring efficient filtration and consistent water flow. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image 1.1: Visual comparison showing improved water flow from a faucet after the booster pump installation, demonstrating enhanced pressure and purity.

## 2. PACKAGE CONTENTS

Verify that all components listed below are included in your package. If any items are missing or damaged, please contact customer support.

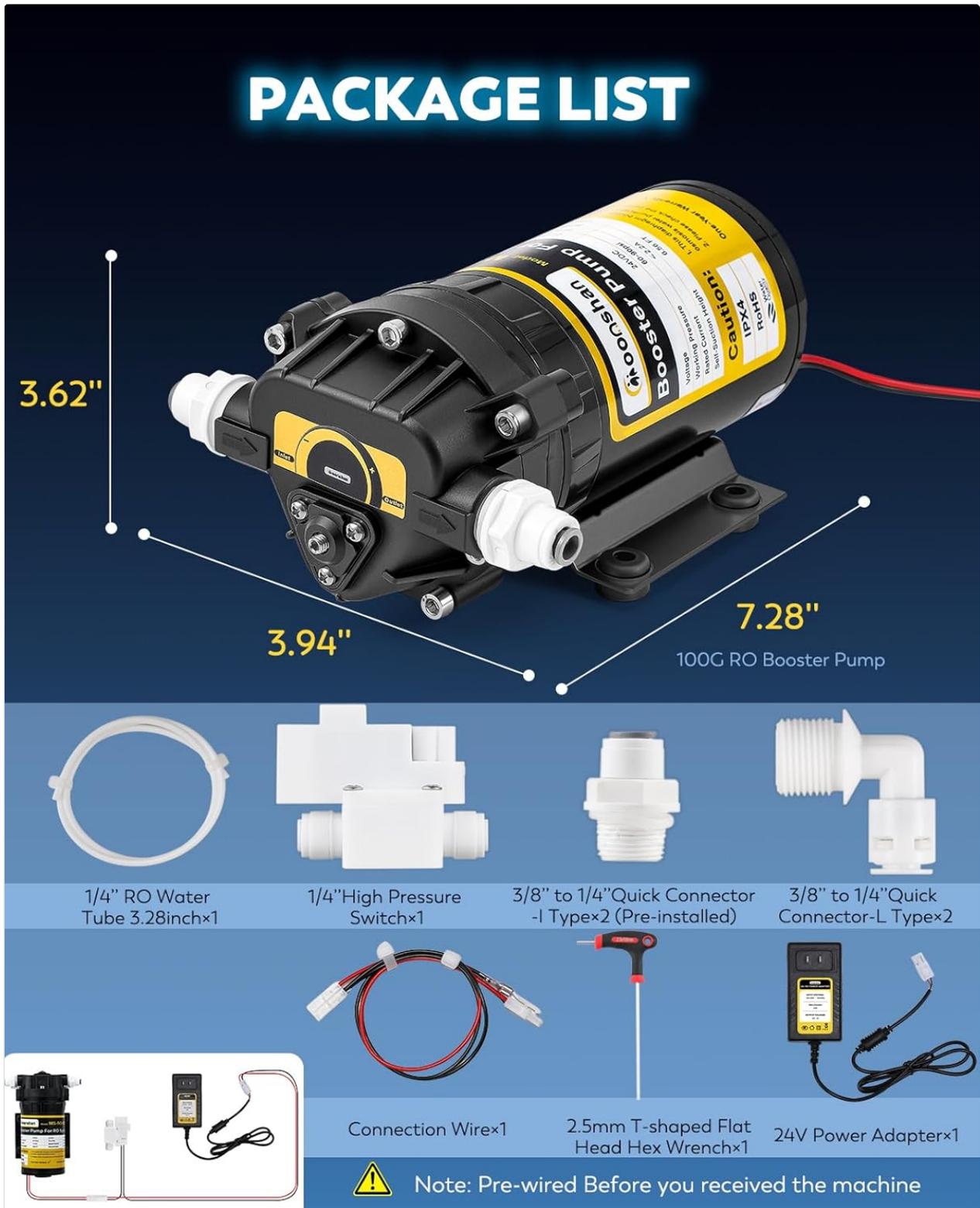


Image 2.1: The booster pump and its complete accessory kit, including various connectors, tubing, power adapter, and a hex wrench.

- 100 GPD Booster Pump
- High-Pressure Switch
- 24V Power Adapter
- Connection Wire
- 1/4" RO Water Tube (3.28 inches)
- 3/8" to 1/4" Quick Connector (I-Type) x2 (Pre-installed)

- 3/8" to 1/4" Quick Connector (L-Type) x2
- 2.5mm T-shaped Flat Head Hex Wrench

**Note: The connection wire is pre-wired before you receive the machine.**

### 3. INSTALLATION GUIDE

The Moonshan booster pump features a quick-connection design for straightforward installation. Follow these steps to integrate the pump into your RO system.

#### 3.1 Quick Connection Design

# FULL QUICK CONNECTION DESIGN

Plug & play, enjoy simple setup

**1**



① AC Quick-Connect Terminal Cable

**2**



② 1/4" Quick Connector



Image 3.1: Illustration of the quick-connect terminal cable and 1/4" quick connector, highlighting the plug-and-play installation process.

The pump utilizes a quick-plug fluid interface design, simplifying the wiring process. Simply plug the components together.

### 3.2 System Integration Diagram



Image 3.2: A schematic showing the booster pump, RO unit, storage tank, and high-pressure switch connected in a typical under-sink RO water filtration setup.

1. **Identify Components:** Locate your RO system, storage tank, and the new booster pump and high-pressure switch.

2. **Connect High-Pressure Switch:** Install the high-pressure switch on the purified water line, typically between the RO membrane and the storage tank. Ensure the flow direction is correct.
3. **Connect Booster Pump:** Install the booster pump on the inlet water line to the RO system, before the RO membrane. Ensure the inlet and outlet ports are correctly oriented.
4. **Electrical Connections:** Connect the high-pressure switch to the booster pump using the provided connection wire. Then, connect the 24V power adapter to the pump and plug it into a power outlet.
5. **Secure Connections:** Ensure all quick-connect fittings are securely seated to prevent leaks.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Automatic Start/Stop Function

The integrated high-pressure switch automatically controls the pump's operation. When the RO storage tank pressure reaches a preset level (indicating the tank is full), the high-pressure switch will turn off the pump. When water is drawn from the tank and the pressure drops, the switch will activate the pump again to refill the tank. This function conserves energy and extends the lifespan of the pump.

### 4.2 Adjustable Working Pressure



Image 4.1: A user adjusting the working pressure of the pump using the provided hex wrench on the pressure adjustment screw.

The working pressure of the pump can be adjusted to suit environmental conditions and specific RO system requirements. Use the included 2.5mm T-shaped flat head hex wrench to adjust the pressure screw located on the pump. Turning the screw clockwise typically increases pressure, while turning it counter-clockwise decreases pressure. Adjust gradually and monitor your system's performance.

## 5. MAINTENANCE

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To ensure optimal performance and longevity of your Moonshan booster pump, consider the following maintenance guidelines:

- **Regular Inspection:** Periodically check all connections for leaks. Ensure the pump and tubing are free from kinks or obstructions.
- **Cleanliness:** Keep the exterior of the pump clean and free from dust or debris.
- **Filter Replacement:** Ensure your RO system's pre-filters and membrane are replaced according to the manufacturer's recommendations. Clogged filters can put undue strain on the booster pump.

- **Storage:** If the pump will not be used for an extended period, drain any water from it and store it in a dry, cool place.

## 6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pump does not turn on	No power; Faulty power adapter; High-pressure switch engaged (tank full); Loose wiring.	Check power connection; Test power adapter; Check tank pressure; Secure all electrical connections.
Low water pressure/flow	Clogged filters; Incorrect pressure adjustment; Air in the system; Pump malfunction.	Replace filters; Adjust pressure screw; Bleed air from the system; Contact support if pump is faulty.
Pump runs continuously	Low-pressure switch not working; High-pressure switch not engaging; Leak in the system; Tank not filling.	Inspect pressure switches; Check for leaks; Ensure RO membrane is functioning.
Excessive noise or vibration	Loose mounting; Air in pump; Worn components.	Ensure pump is securely mounted; Bleed air; Contact support if noise persists.

## 7. SPECIFICATIONS

Technical details for the Moonshan 100 GPD RO System Booster Pump.

# DESIGNED FOR RO SYSTEMS UNDER 100 GPD

Inlet Pressure:  
<40Psi → 60-80Psi



## Note:

Not recommended for RO systems above 100GPD

Image 7.1: The booster pump, emphasizing its compatibility with RO systems up to 100 GPD and its ability to boost inlet pressure from below 40 PSI to 60-80 PSI.

- **Model:** MS-RO-100G
- **Brand:** Moonshan
- **Style:** 100GPD
- **Material:** Plastic
- **Product Dimensions:** 7.3"L x 4"W x 3.6"H
- **Item Weight:** 6 Pounds
- **Power Source:** Corded Electric
- **Maximum Flow Rate:** 1.2 Liters Per Minute

- **Maximum Lifting Height:** 6.56 Feet
- **Input Pressure Range:** Boosts from 30-40 psi to 60-80 psi
- **Special Features:** Adjustable Pressure, Auto Start/Stop Function, Quick Connection Design, Low Voltage (24V)

**Important Note:** This pump is not recommended for RO systems above 100 GPD.

## 8. WARRANTY AND SUPPORT

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Moonshan is committed to providing reliable products. This product typically comes with a one-year warranty from the date of purchase, covering manufacturing defects. For warranty claims, technical assistance, or any questions regarding your booster pump, please contact Moonshan customer support through the retailer where the product was purchased or visit the official Moonshan store online.

For further information and support, you may visit the [Moonshan Store on Amazon](#).