Jectse MT24 25 100P

Jectse MT24 25 100P 24V Water Booster Pump Instruction Manual

Model: MT24 25 100P | Brand: Jectse

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Jectse MT24 25 100P 24V Water Booster Pump. Please read these instructions carefully before use and retain them for future reference. This pump is designed to increase water pressure in various domestic and agricultural applications.

2. Safety Information

- Ensure the power supply matches the pump's voltage requirements (24V).
- Do not operate the pump with damaged cables or plugs.
- Avoid immersing the pump in water. The pump has an IP56 rating, indicating protection against dust and strong jets of water, but it is not submersible.
- Ensure proper ventilation around the pump during operation.
- Do not use the pump for flammable or corrosive liquids.
- Keep children and unauthorized personnel away from the operating pump.
- Disconnect power before performing any maintenance or installation.
- Operating temperature for the pump is 0-40°C, medium temperature 4-80°C, and liquid temperature 0-65°C. Do not exceed these limits.

3. Product Features

- **Dry Run Protection:** The pump automatically stops when water supply is low to prevent damage.
- **Automatic Start/Stop:** In automatic mode, the pump starts and stops based on faucet opening and closing.
- **Low Pressure Start:** The pump can switch to low pressure mode if the water flow is insufficient to trigger automatic start.

- **Intelligent Learning:** The water booster pump intelligently learns and selects an efficient boosting solution based on varying water flow and pressure conditions.
- **Energy Saving and Quiet Operation:** Equipped with a brushless motor and centrifugal impeller, the pump operates quietly and efficiently.

4. Package Contents

Verify that all items listed below are included in your package:

- 1 x Water Booster Pump (Model: MT24 25 100P)
- 1 x Power Adapter (EU Plug, 100-240V input)
- 1 x Threaded Tube
- 1 x Instruction Manual
- 2 x Screws
- 1 x Strong Adhesive Sticker

Image 4.1: Jectse MT24 25 100P Water Booster Pump and included accessories.

5. Specifications

Specification	Value
Model	MT24 25 100P
Operating Voltage	24 V
Current	4.2 A
Plug Voltage	100-240 V
Insulation Grade	Class H
Protection Rating	IP56
Boost Effect	100 Pa
Motor Power	100 W
Noise Level	Low Noise
Operating Mode	Manual and Automatic Dual Control
Flow Rate	25 Liters per Minute
Lift	25 m
Pipe Inner Diameter	Approx. 15 mm / 0.6 inch
Ambient Temperature	0-40°C
Medium Temperature	4-80°C
Liquid Temperature	0-65°C
Outlet Pressure	2 bar
Maximum Pressure	1 MPa
Connection Method	Threaded
Material	ABS, Copper
Color	Blue

6. Setup and Installation

The Jectse MT24 25 100P water booster pump is designed for straightforward installation. It can be integrated into various water systems to enhance pressure.

General Installation Guidelines:

- Identify the cold and hot water inlet pipes.
- Install the booster pump at the designated location in the water line.
- Ensure all connections are secure and watertight to prevent leaks.
- Use a wrench to connect the pump to the pipeline for easy and secure installation.

Image 6.1: Pump installation under a sink, highlighting easy connection.

Installation Diagrams for Various Applications:

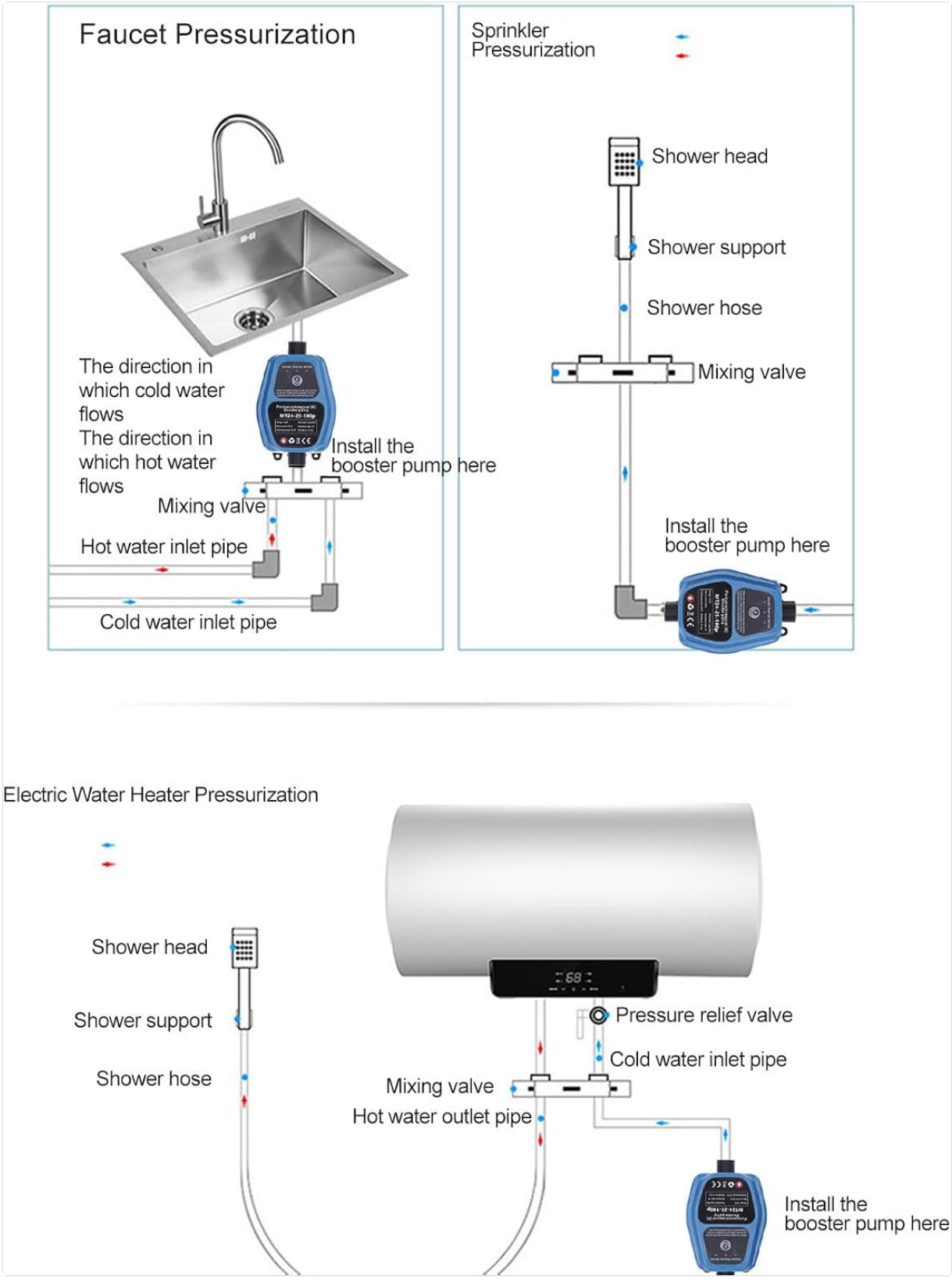

Image 6.2: Installation for Faucet and Sprinkler Pressurization.

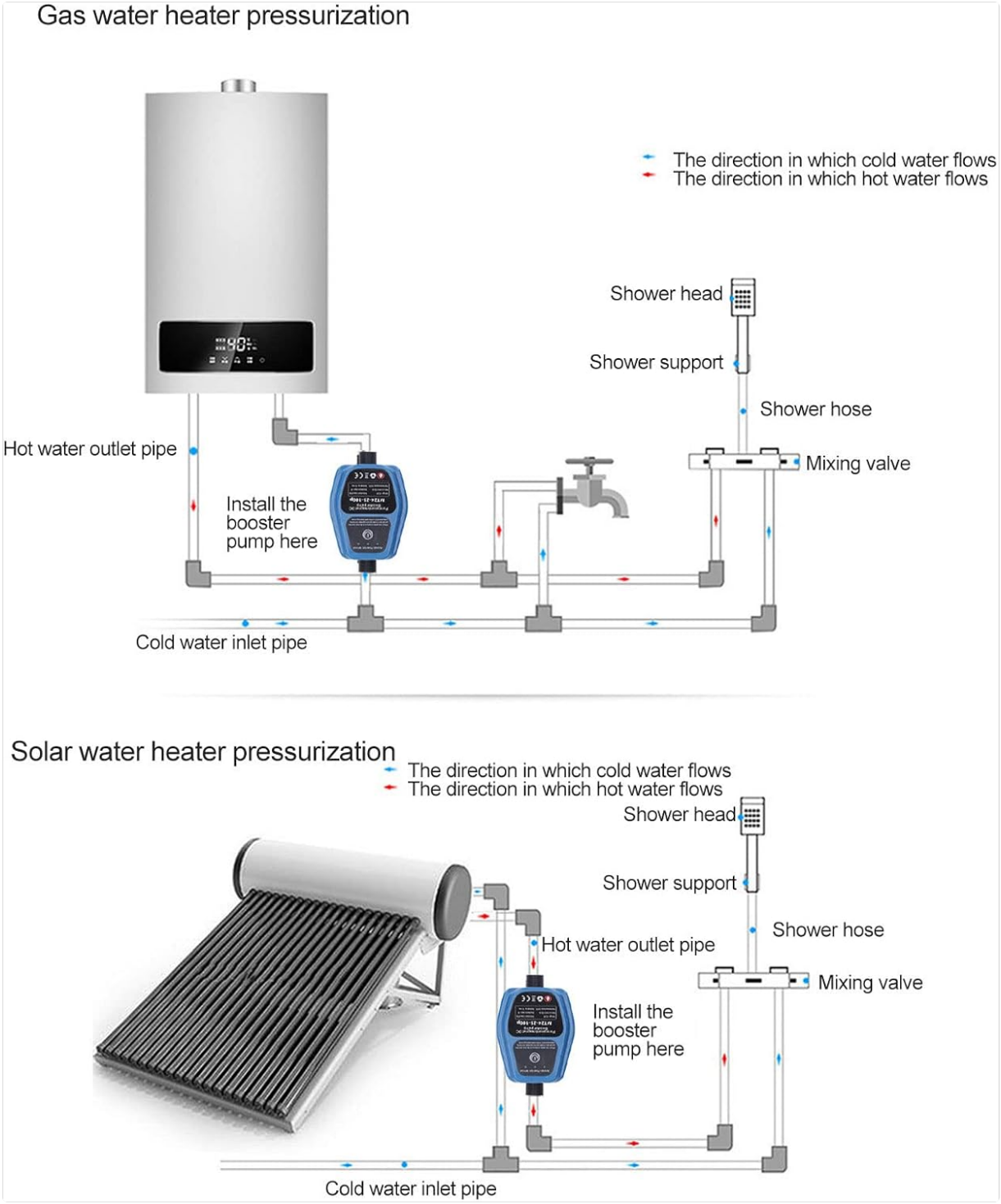

Image 6.3: Installation for Electric Water Heater Pressurization.

Image 6.4: Installation for Gas and Solar Water Heater Pressurization.

7. Operating Instructions

The pump features both manual and automatic control modes. For most applications, the automatic mode is recommended.

Automatic Mode:

- Once installed and powered, the pump will automatically detect water flow.
- When a faucet or water outlet is opened, the pump will start to boost pressure.
- When the faucet or water outlet is closed, the pump will automatically stop.
- The intelligent learning function allows the pump to adapt to different water flow and pressure situations for optimal performance.

Image 7.1: Intelligent Learning feature of the pump.

Low Pressure Start:

- If the initial water flow is too low to trigger the automatic start, the pump can engage a low-pressure start mode to initiate boosting.

Manual Mode:

- Refer to the control panel on the pump for manual operation options.

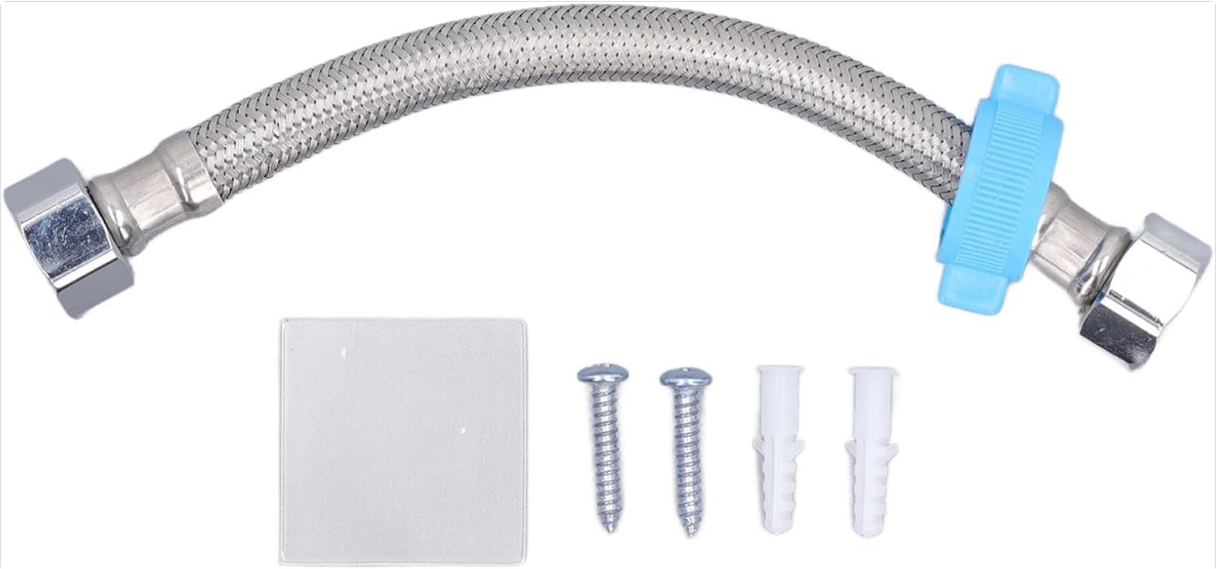

Image 7.2: Pump control panel.

Image 7.3: Visual comparison of water pressure before and after pump installation.

8. Maintenance

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

- **Cleaning:** Periodically clean the exterior of the pump with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check for any signs of leaks around connections. Ensure the power cable is not damaged.
- **Winterization:** If the pump is installed in an area subject to freezing temperatures, ensure it is drained or protected from frost to prevent damage.
- **Filter Check:** If your system includes an inline filter, check and clean it as per its manufacturer's instructions to prevent debris from entering the pump.

9. Troubleshooting

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

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Pump does not start	No power supply Insufficient water flow (dry run protection activated) Blocked inlet/outlet	Check power connection and outlet Ensure adequate water supply Check pipes for blockages
Low boost effect	Partial blockage in pipes Air in the system Incorrect installation	Inspect pipes for debris Bleed air from the system Review installation diagrams
Pump runs continuously	Leak in the system Sensor malfunction	Check all connections for leaks Contact customer support if issue persists
Unusual noise	Air in the pump Debris in impeller Loose mounting	Bleed air Disconnect power and inspect impeller (if accessible) Ensure pump is securely mounted

If the problem persists after attempting these solutions, please contact customer support.

10. Warranty and Support

This product comes with a standard manufacturer's warranty. Please refer to your purchase documentation for specific warranty terms and conditions. For technical support, spare parts, or warranty claims, please contact the retailer or manufacturer directly.