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Sanpyl Water Pressure Pump MT24 25 100p User Manual

Model: MT24 25 100p

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Sanpyl Water Pressure Pump, model MT24 25 100p. This pump is designed to enhance water pressure in various household and irrigation systems. Please read these instructions thoroughly before installation and use, and retain them for future reference.

2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. This device operates with electricity and water, requiring careful handling.

- Ensure the power supply matches the pump's voltage requirements (24V DC).
- Do not operate the pump with damaged cords or plugs.
- Avoid immersing the pump or power adapter in water.
- Disconnect power before performing any maintenance or installation.
- Keep children and unauthorized persons away from the operating pump.
- Install the pump in a dry, well-ventilated area, protected from direct weather exposure.
- The pump is rated IP56, indicating protection against dust and strong jets of water, but it is not submersible.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package:

- 1 x Water Pressure Pump (MT24 25 100p)
- 1 x Power Adapter (US Plug, 100-240V input)
- 1 x Threaded Pipe
- 1 x User Manual
- 2 x Screw
- 2 x Anchor
- 1 x Strong Adhesive Sticker



Figure 3.1: Package contents including the threaded pipe, screws, anchors, and adhesive sticker.

4. SPECIFICATIONS

Feature	Detail
Model	MT24 25 100p
Working Voltage	24V DC
Plug Voltage	100-240V AC (for adapter)
Insulation Grade	Class H
IP Grade	IP56
Boosting Effect	100Pa

Feature	Detail
Motor Power	100W
Sound Noise	Low Noise
Opening Mode	Manual and Water Automatic Control
Flow Rate	25L Per Minute
Head	25M
Piping Inner Diameter	Approx. 15mm / 0.6in
Environmental Temperature	0-40°C
Medium Temperature	4-80°C
Fluid Temperature	0-65°C
Outlet Pressure	2bar
Maximum Pressure	1MPa
Connection Method	Thread
Color	Blue
Material	ABS, Copper

5. SETUP AND INSTALLATION

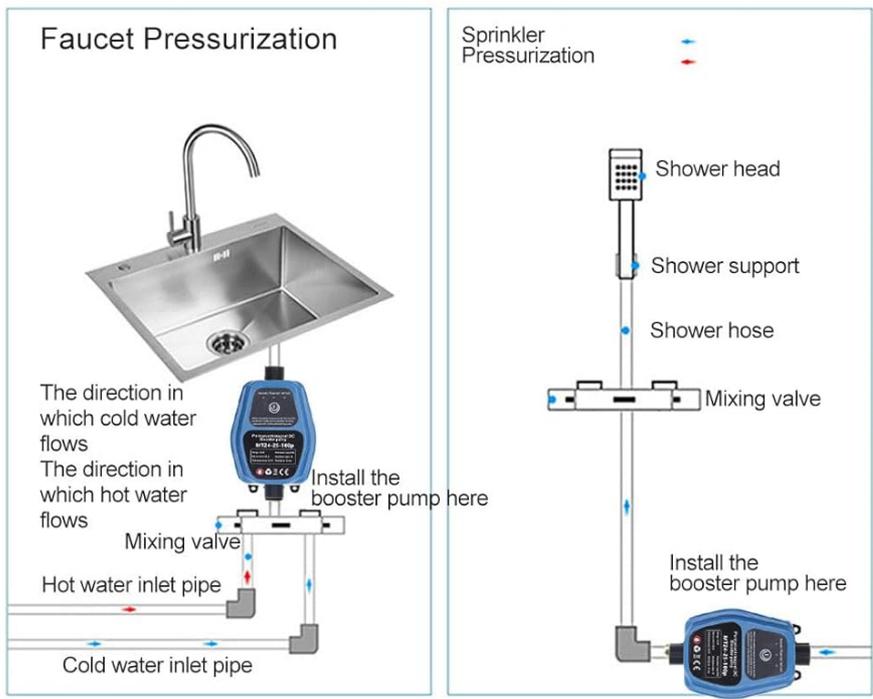
The Sanpyl Water Pressure Pump is designed for straightforward installation. It can be directly connected to your existing piping system.

5.1 General Installation Steps

- Choose Location:** Select a suitable location near the water inlet pipe where pressure boosting is required. Ensure the area is dry and accessible.
- Prepare Piping:** Turn off the main water supply. Drain the pipes. Cut into the water inlet pipe where the pump is to be installed.
- Connect Pump:** Use the provided threaded pipe and a wrench to securely connect the pump to the pipeline. Ensure all connections are tight to prevent leaks.
- Mount Pump:** Secure the pump using the provided screws and anchors, or the strong adhesive sticker, to a stable surface.
- Connect Power:** Plug the power adapter into the pump and then into a suitable electrical outlet.
- Restore Water:** Slowly turn on the main water supply and check for any leaks.

5.2 Installation Diagrams

Refer to the following diagrams for typical installation scenarios:



Electric Water Heater Pressurization

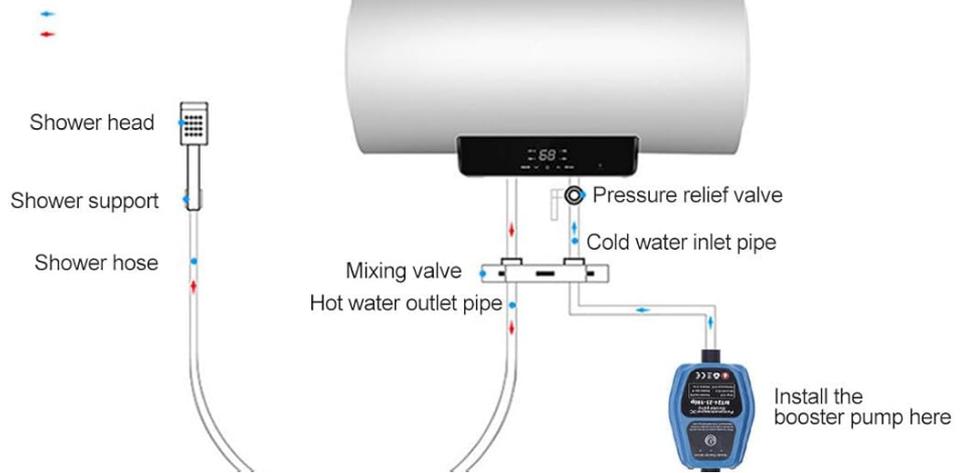
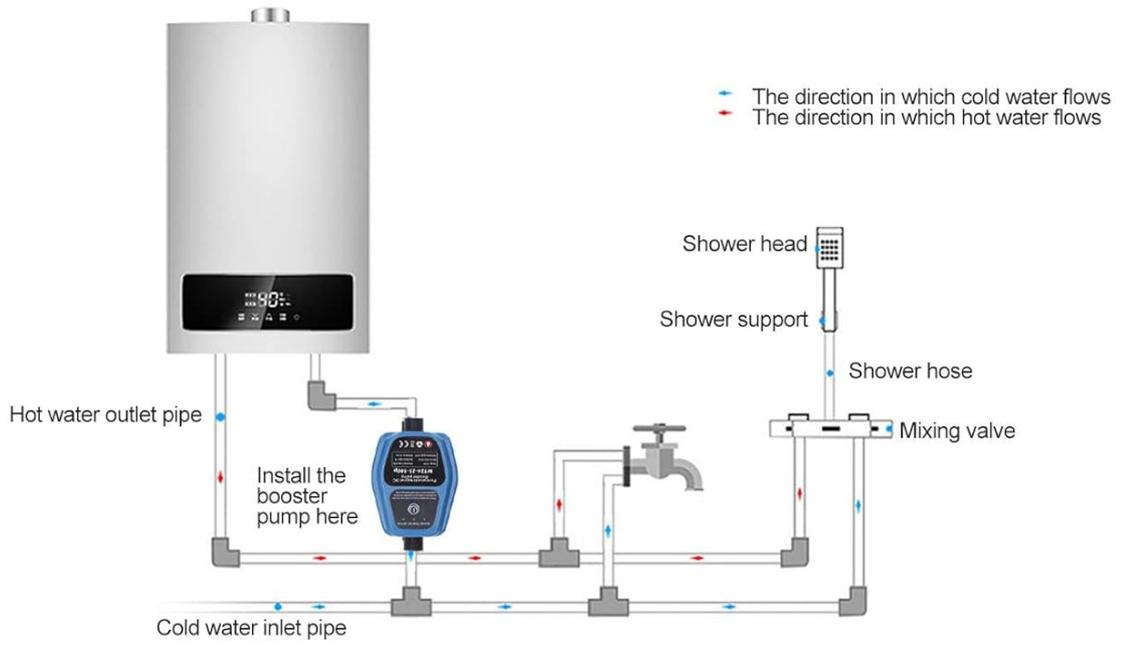


Figure 5.1: Installation examples for faucet and sprinkler systems. The pump should be installed on the cold water inlet pipe before the mixing valve.

Gas water heater pressurization



Solar water heater pressurization

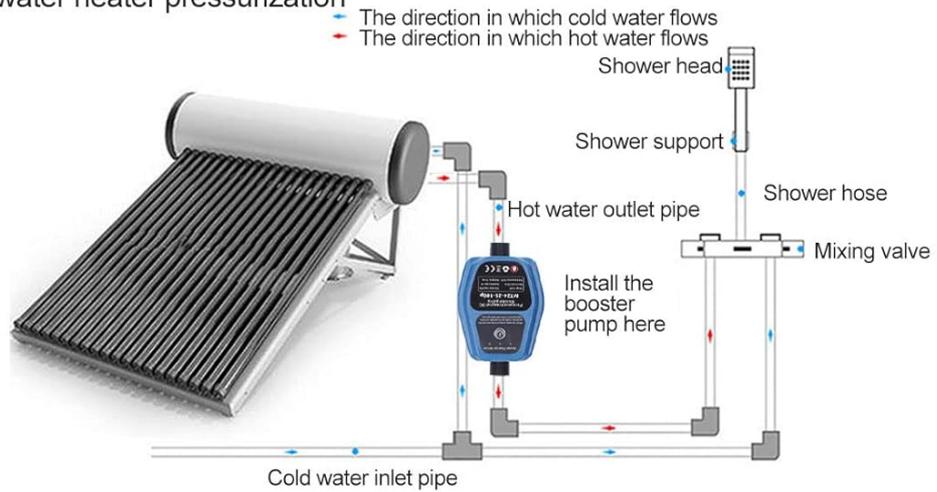


Figure 5.2: Installation examples for electric, gas, and solar water heater systems. The pump is typically installed on the cold water inlet pipe.



Figure 5.3: The pump installed under a sink, demonstrating the simple threaded connection method using a wrench.



Figure 5.4: Detail of the pump's threaded connection, designed for easy integration into plumbing systems.

6. OPERATING INSTRUCTIONS

The Sanpyl Water Pressure Pump features intelligent operation modes for optimal performance.

6.1 Powering On/Off

- **Manual Mode:** Press the power button (indicated by a circle with a vertical line) on the pump to manually turn it on or off.
- **Automatic Mode:** Once connected and powered, the pump can operate in automatic mode.



Figure 6.1: The pump's control panel, showing the power button and indicator lights for operational status.

6.2 Smart Learning Function

The pump is equipped with a smart learning feature that analyzes water flow and pressure conditions to provide an effective boosting solution. This allows the pump to adapt to your specific water system needs.



Figure 6.2: The pump's AI Intelligent Learning capability, which optimizes boosting based on water flow and pressure.

6.3 Automatic Start and Stop

In automatic mode, the pump will detect water flow. It will automatically start when a water faucet is opened and stop when the faucet is closed, providing convenient on-demand pressure boosting.

6.4 Low Pressure Start Mode

If the water flow is too low to automatically trigger the pump's start, the device can switch to a low-pressure mode to initiate operation, ensuring consistent water pressure even with minimal flow.

6.5 Dry Running Protection

The pump includes a water shortage function. If the water input approaches zero, the pump will automatically stop to prevent damage from dry running, extending its lifespan.

6.6 Boosting Effect

Experience improved water flow and pressure after installation. The pump is designed to significantly enhance water output for faucets and showerheads.

Boosting Effect



Figure 6.3: Visual comparison of water output from a faucet and shower head before and after the Sanpyl Water Pressure Pump is installed.

7. MAINTENANCE

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

- **Cleaning:** Periodically wipe the exterior of the pump with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspect Connections:** Regularly check all pipe connections for leaks. Tighten any loose connections.
- **Filter Check (if applicable):** If your system includes an inline filter, inspect and clean it as per its manufacturer's instructions to prevent debris from entering the pump.
- **Winterization:** In areas prone to freezing temperatures, ensure the pump and associated pipes are drained or protected from freezing to prevent damage.

8. TROUBLESHOOTING

If you encounter issues with your Sanpyl Water Pressure Pump, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Pump does not start	No power; Water supply off; Low water pressure (in automatic mode); Pump in manual off state.	Check power connection; Ensure water supply is on; Open faucet fully to trigger low pressure start; Press power button to activate.
Low water pressure after pump installation	Incorrect installation; Air in the system; Clogged pipes/filter.	Review installation diagrams; Bleed air from the system; Check and clean any filters or pipes.
Pump runs continuously	Leak in the system; Faucet not fully closed; Pump in manual on state.	Check for leaks in plumbing; Ensure all faucets are completely closed; Press power button to turn off manual mode.
Pump is noisy	Air in the system; Loose mounting; Debris inside pump.	Bleed air from the system; Ensure pump is securely mounted; Contact customer support if noise persists.
Pump stops unexpectedly	Dry running protection activated (no water); Overheating.	Check water supply; Allow pump to cool down, then restart. Ensure proper ventilation.

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

9. WARRANTY AND SUPPORT

Sanpyl products are manufactured to high-quality standards. For warranty information and customer support, please refer to the warranty card included with your product or visit the official Sanpyl website.

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Sanpyl customer service through their official channels. When contacting support, please have your product model number (MT24 25 100p) and purchase date available.

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