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› SEAFRONT MT242080P DC 24V Water Pressure Booster Pump User Manual

SEAFRONT MT242080P

SEAFRONT MT242080P DC 24V Water Pressure Booster Pump User Manual

Model: MT242080P | Brand: SEAFRONT

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your SEAFRONT MT242080P DC 24V Water Pressure Booster Pump. Please read this manual thoroughly before use to ensure correct operation and to prevent damage.

Product Overview

The SEAFRONT MT242080P is a fully automatic, low-noise DC 24V water pressure booster pump designed to increase water pressure for various applications, including showers and water heaters. It features an automatic water flow control switch and water deficiency protection.



Image: The SEAFRONT MT242080P DC 24V Water Pressure Booster Pump, showing its compact design and connection points.



Image: The booster pump shown installed in a typical application, positioned beneath a water heater to enhance water pressure.

Package Contents

Verify that all items are present in the package:

- 1 x Water Pressure Booster Pump
- 1 x Power Supply (EU Plug)
- 1 x Water Pipe
- 1 x Instruction Manual (this document)
- 2 x Hooks



Image: All components included in the package: the booster pump, power supply, water pipe, and hooks.

2. SPECIFICATIONS

Refer to the following technical specifications for the MT242080P Water Pressure Booster Pump:

Feature	Specification
Product Model	MT242080P
Operating Voltage	DC 24V
Input Voltage (Power Supply)	100-240V
Insulation Class	Class H
Charging Effect (Pressure)	80 Pa
Noise Level	Low

Feature	Specification
Open Mode	Automatic Water Flow Control
Delivery Head (Max Lift)	Approx. 20 m / 65.6 feet
Piping Inner Diameter	Approx. 15 mm / 0.6 inches
Medium Temperature	2-65°C
Maximum Flow Rate	4.4 Gallons Per Minute (GPM)
Material	ABS, Red Copper, Metal, Plastic
Item Weight	800 g
Manufacturer Model Number	SEAFRONTsyz0uwed89-12



Piping Inner Diameter:
15mm / 0.6in
Head: 20m / 65.6ft
The maximum flow is 4.4 GPM
Maximum lift is 60 ft



Image: A visual representation highlighting key specifications such as piping inner diameter, head, maximum flow, and maximum lift, alongside various application examples.

3. IMPORTANT SAFETY INFORMATION

WARNING: Please read all instructions carefully before installation and operation to prevent injury or damage to the product.

- Ensure the power supply voltage matches the pump's requirements (DC 24V).
- Do not operate the pump with liquids outside the specified medium temperature range of 2-65°C.
- Always disconnect power before performing any maintenance or installation procedures.
- This product is designed for water boosting applications. Do not use with flammable or corrosive liquids.
- Ensure proper electrical connections and grounding if applicable.
- Keep the pump away from direct sunlight and extreme weather conditions.
- The pump has a built-in water flow switching valve. A minimum flow rate of 1.5 L/min is required to activate the pump automatically.
- If the water flow switch does not open, the pump can be forcibly started (see Troubleshooting section for details).



Image: A close-up view of the booster pump, showing a warning label with important operational details and safety reminders.



1 Warning

Please read the product instructions carefully before use to ensure correct use.

2 Warnung

Bitte lesen Sie das Produkthandbuch vor dem Gebrauch sorgfältig durch, um sicherzustellen, dass es korrekt und gemäß den Anweisungen verwendet wird.

3 Avertissement

Euillez lire attentivement les instructions du produit avant utilisation pour garantir une utilisation correcte selon les instructions.

4 Advertencia

Por favor, lea detenidamente el manual del producto antes de usarlo para asegurarse de seguir correctamente las instrucciones.

5 Ostrzeżenie

Przed użyciem prosimy dokładnie przeczytać instrukcję obsługi produktu, aby upewnić się, że są przestrzegane poprawne wskazówki dotyczące użytkowania.

6 Waarschuwing

Lees voor gebruik aandachtig de handleiding van het product om er zeker van te zijn dat het correct en in overeenstemming met de instructies wordt gebruikt.

7 Varning

Läs bruksanvisningen noggrant före användning för att säkerställa att produkten används på rätt sätt och i enlighet med instruktionerna.

8 Attenzione

Leggere attentamente il manuale del prodotto prima dell'uso per garantire il corretto utilizzo delle istruzioni.

9 Uyarı

Lütfen doğru kullanım talimatlarını sağlamak için kullanmadan önce ürün kılavuzunu dikkatlice okuyun.

Image: A multi-language warning emphasizing the importance of reading the product instructions carefully before use.

4. INSTALLATION GUIDE

The SEAFRONT MT242080P pump is designed for direct installation and use. Follow these steps for proper setup:

General Installation Principles

- 1. Choose Location:** Install the pump in a dry, well-ventilated area, protected from freezing temperatures and direct water spray.
- 2. Water Flow Direction:** Ensure the pump is installed according to the water flow direction indicated on the unit. The pump has an inlet and an outlet.
- 3. Pipe Connections:** Connect the water pipes to the pump's inlet and outlet. The pump is designed for pipes with an inner diameter of approximately 15 mm (0.6 inches). Use the provided water pipe if suitable, or ensure your existing plumbing is compatible.
- 4. Secure Mounting:** Use the provided hooks to securely mount the pump if necessary, reducing vibration and noise.

5. **Power Connection:** Connect the DC 24V power supply to the pump, then plug the power supply into a standard 100-240V electrical outlet.

Typical Installation Scenarios

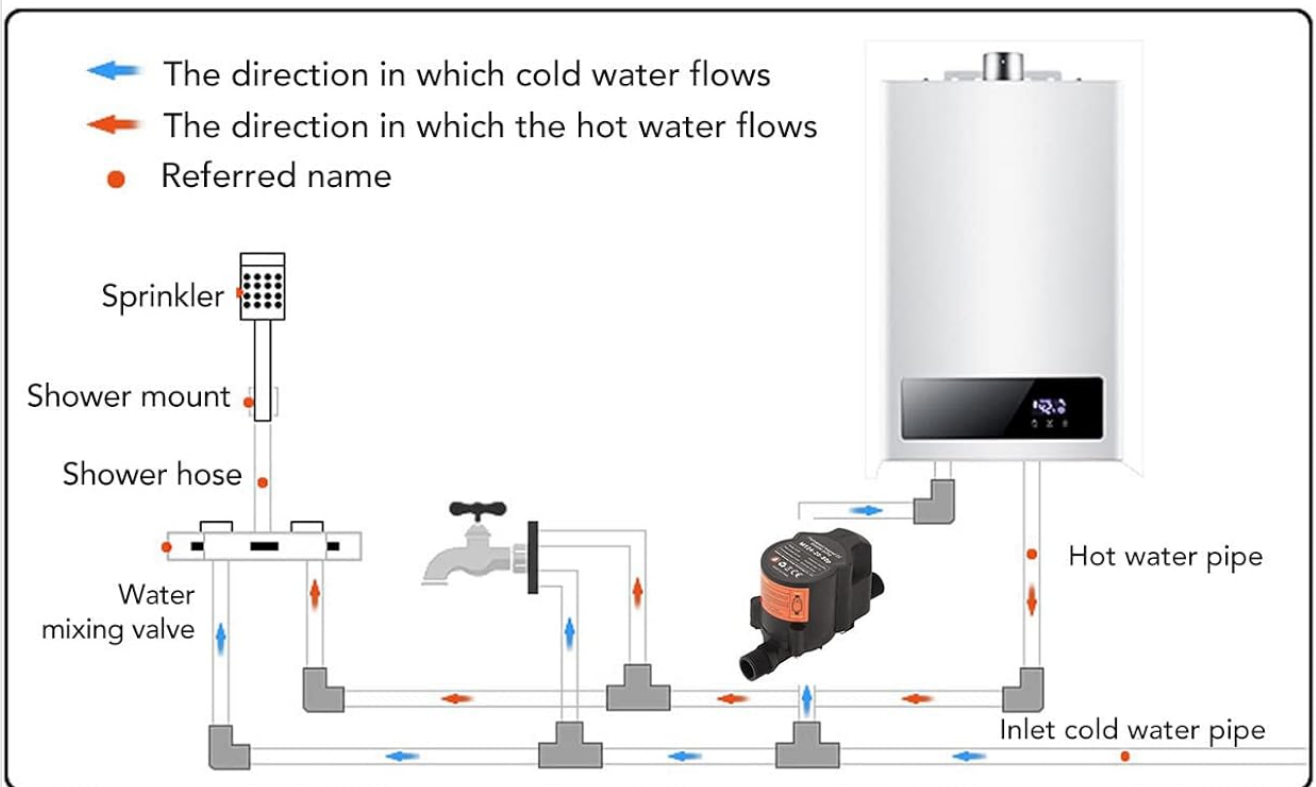
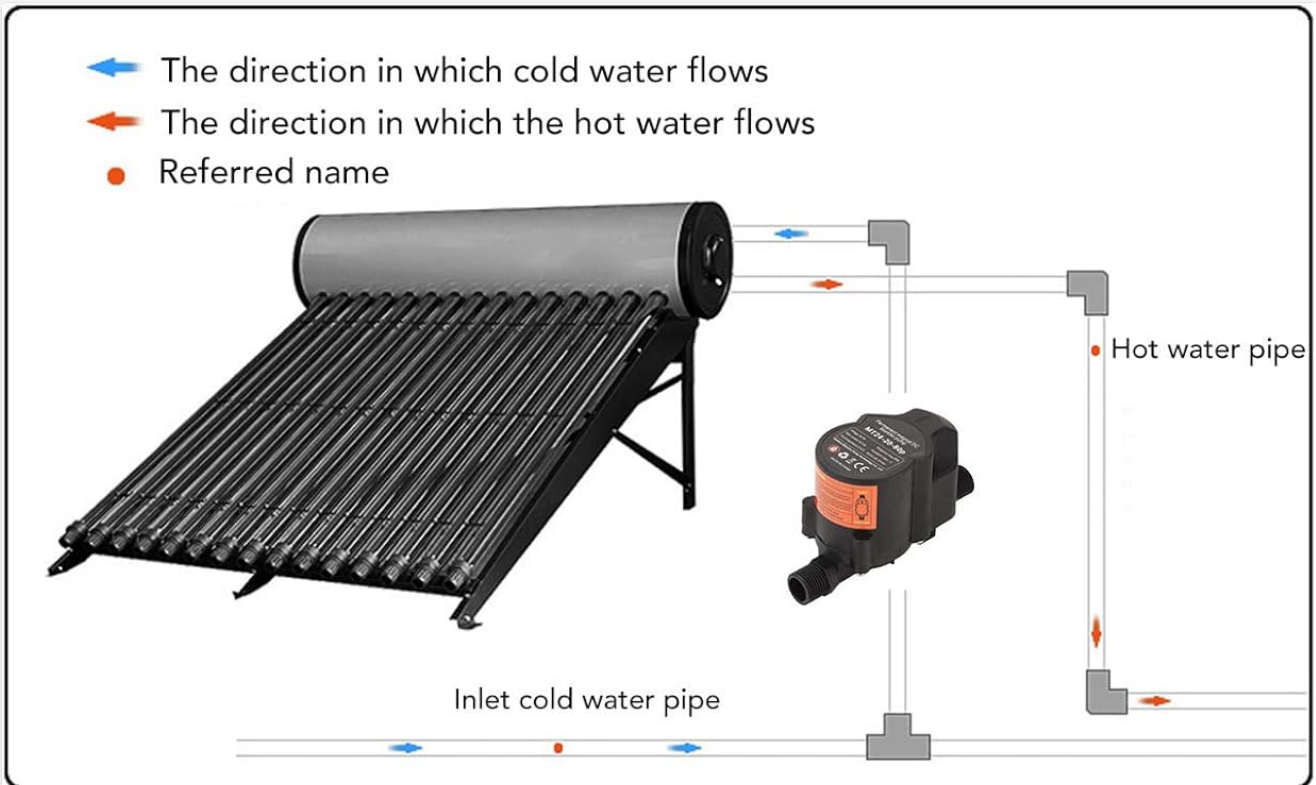


Image: Diagram illustrating the installation of the booster pump with a solar water heater system, showing cold water inlet and hot water pipe connections.

Simple installation, one step in place

Applicable place installation display

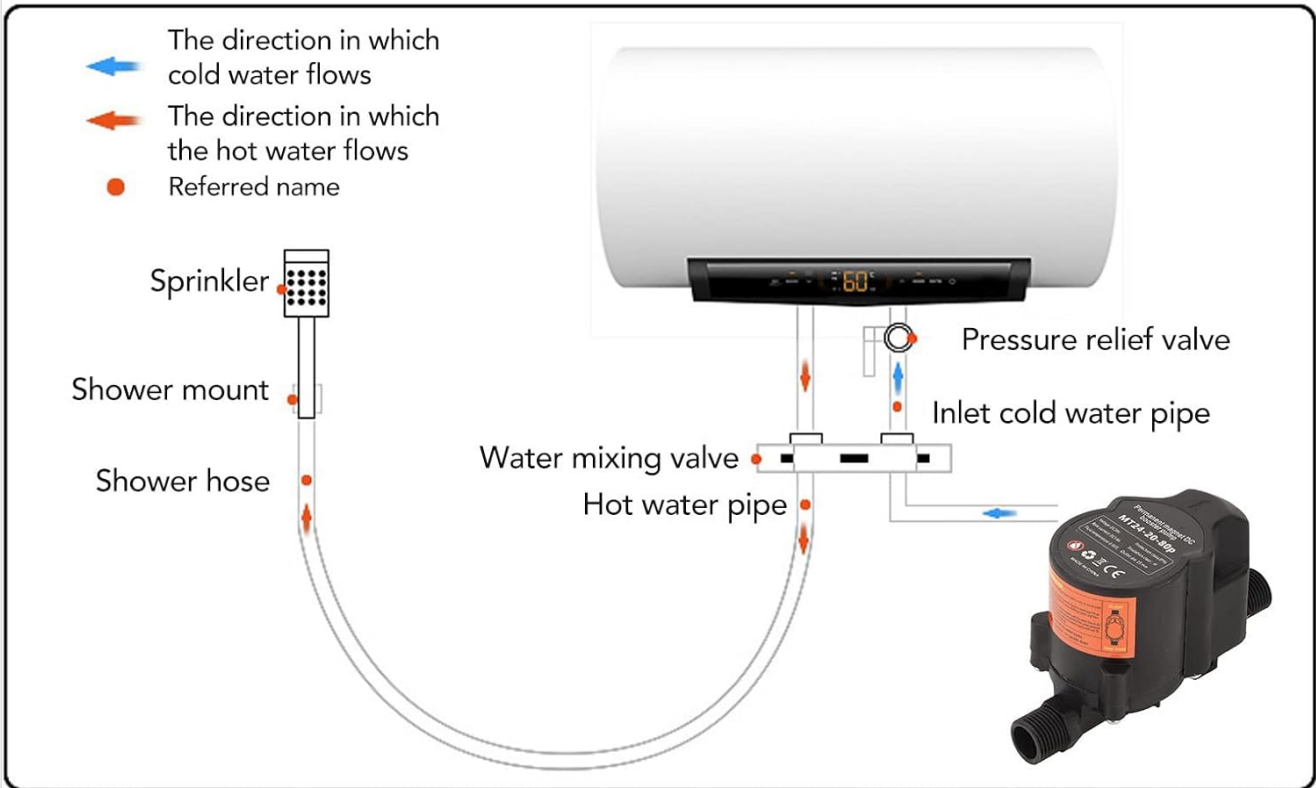


Image: Diagram showing a simple installation for a tankless water heater and shower system, indicating connections for cold water inlet, hot water pipe, and shower components.

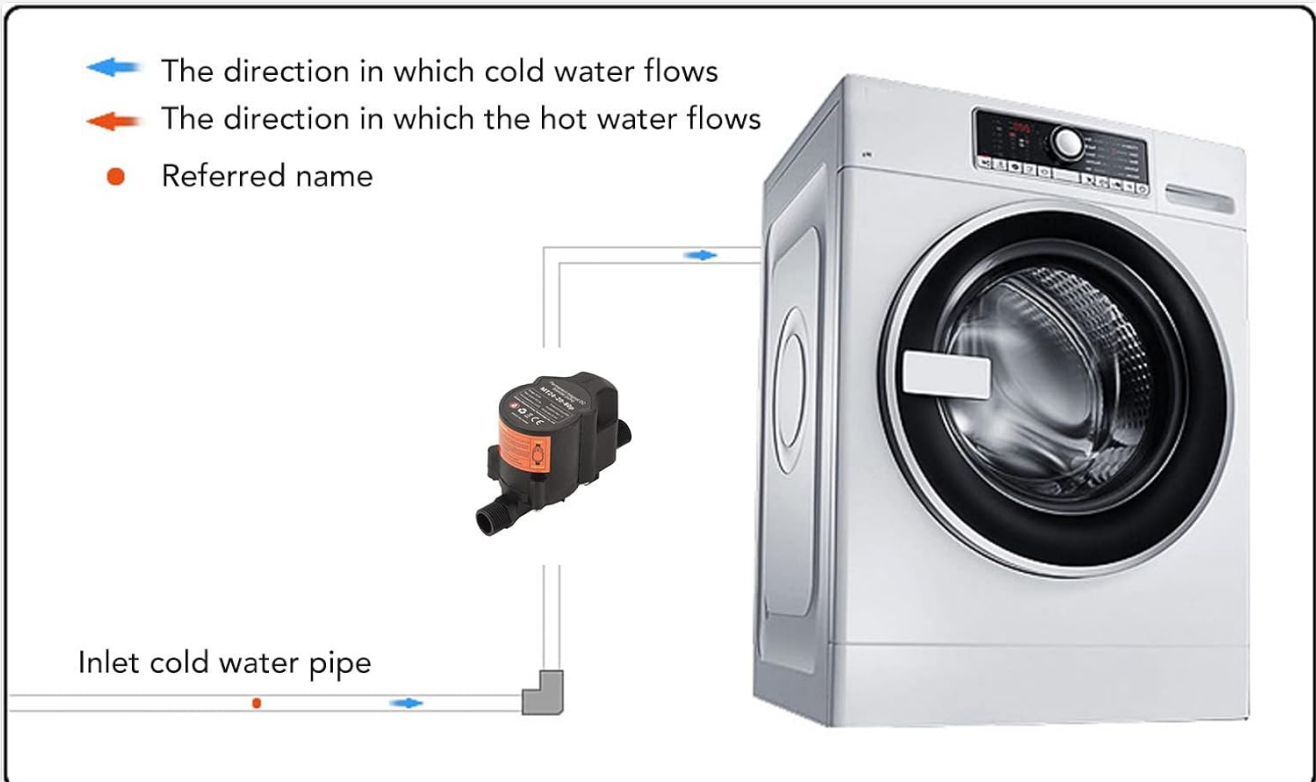


Image: Diagram demonstrating the installation of the booster pump for a washing machine, connected to the cold water inlet pipe.

5. OPERATING INSTRUCTIONS

The MT242080P pump operates with an automatic water flow control system.

Automatic Operation

1. Ensure the pump is correctly installed and connected to power.
2. Open the water tap or appliance (e.g., shower, washing machine) that the pump is boosting.
3. The pump's built-in water flow switching valve requires a minimum flow rate of **1.5 liters per minute (L/min)** to open and start the pump automatically.
4. Once the water flow exceeds 1.5 L/min, the pump will detect the flow and automatically begin boosting water pressure.
5. When the water tap or appliance is closed, the water flow will stop, and the pump will automatically shut off.

Water Deficiency Protection

The pump is equipped with water deficiency protection. If the water pressure at the pump's inlet approaches 0 (indicating a lack of incoming water), the pump will automatically stop operation to prevent damage.

6. TROUBLESHOOTING

Pump Does Not Start Automatically

If the pump does not start automatically when water is flowing, it may be due to insufficient water flow to trigger the automatic switch (below 1.5 L/min).

1. **Check Water Flow:** Ensure the water flow from the tap or appliance is sufficient (at least 1.5 L/min).
2. **Forced Start Procedure:** If the water flow switch cannot be opened automatically, perform a forced start:
 - Disconnect the power supply to the pump for 3 to 5 seconds.
 - Reconnect the power supply. The water pump will then be forcibly started and operate for 10 seconds.
 - During these 10 seconds, observe if the water flow diverter valve opens. If it still does not open, the pump will automatically stop after 10 seconds, indicating a persistent issue with water flow detection or valve operation.
3. **Test Method for Flow Rate:** To test if your flow rate is sufficient, use a 500ml mineral water bottle. If you can fill approximately three bottles in one minute, the flow rate is around 1.5 L/min.

Other Issues

- **No Power:** Check the power supply connection and the electrical outlet. Ensure the DC 24V adapter is functioning.
- **Low Pressure After Installation:** Verify all pipe connections are secure and free of leaks. Ensure no air is trapped in the system.
- **Unusual Noise:** Check for loose connections or obstructions in the pump or piping. Ensure the pump is securely mounted.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your booster pump.

- **Regular Inspection:** Periodically inspect the pump and connections for any signs of leaks, corrosion, or damage.
- **Cleanliness:** Keep the exterior of the pump clean and free from dust and debris.
- **Winterization (if applicable):** If the pump is installed in an area prone to freezing temperatures, ensure it is drained or protected from freezing to prevent damage.
- **Filter Check:** If your system includes an inline filter, check and clean it regularly to prevent blockages that could reduce flow or damage the pump.
- **Professional Service:** For any complex issues or internal repairs, contact a qualified technician. Do not attempt to disassemble the pump yourself unless explicitly instructed.

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. If you encounter any issues that cannot be resolved using the troubleshooting guide, please contact SEAFRONT customer support or your local distributor for assistance.

When contacting support, please have your product model (MT242080P) and purchase details ready.