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› Poafamx DC12V Automatic Diaphragm Booster Pump Instruction Manual

## Poafamx DC12V Automatic Diaphragm Booster Pump

# Poafamx DC12V Automatic Diaphragm Booster Pump Instruction Manual

Model: DC12V Automatic Diaphragm Booster Pump

## 1. PRODUCT OVERVIEW

The Poafamx DC12V Automatic Diaphragm Booster Pump is designed to provide reliable water pressure for various applications. Featuring a pure copper motor, it delivers a maximum flow rate of 18.9 liters per minute and a maximum boost pressure of 70 PSI. Its integrated automatic pressure switch ensures efficient operation, activating and deactivating the pump in sync with water demand.

This pump is equipped with safety features such as overheat and overload protection, allowing for safe operation even in dry conditions. Its design incorporates rubber feet and an anti-vibration base for quiet performance.



Image: The Poafamx DC12V Automatic Diaphragm Booster Pump, illustrating its maximum flow rate of 18.9 L/min, horizontal lift of 9.1 meters, and vertical lift of 1.8 meters, emphasizing its high power and efficiency.

## 2. SPECIFICATIONS

Feature	Specification
Brand	Poafamx
Model	DC12V Automatic Diaphragm Booster Pump
Voltage	12 Volts DC
Max Flow Rate	18.9 Liters/Minute
Max Boost Pressure	70 PSI
Max Vertical Lift	1.8 meters (approx. 70.87 inches)

Max Horizontal Lift	9.1 meters
Product Dimensions (L x W x H)	22 cm x 13 cm x 9.5 cm
Product Weight	2.7 kg
Safety Certifications	CE Approved

## パラメータ



Image: Detailed dimensions of the pump and its components, including various connection sizes for installation.

### 3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your Poafamx booster pump. Follow these steps carefully:

- 1. Prepare Connections:** Ensure all necessary pipes, tubes, and connectors are available. For best leak prevention, consider using sealing tape on threaded connections.

2. **Connect Inlet and Outlet:** Attach the inlet hose to the pump's inlet port and the outlet hose to the outlet port. Ensure connections are firm to prevent leaks.
3. **Install Filter Device:** If your model includes a filter device, install it on the inlet side of the pump to prevent debris from entering and damaging the pump.
4. **Secure Mounting:** Mount the pump on a stable, flat surface using its integrated rubber feet and anti-vibration base. This helps reduce noise and vibration during operation.
5. **Power Connection:** Connect the DC12V power supply to the pump. Ensure the power source matches the pump's voltage requirements.
6. **Water Source:** Place the inlet hose into your water source (e.g., bucket, tank). Ensure the pump is positioned correctly relative to the water level for efficient self-priming.



Image: Visual guide demonstrating the simple installation steps for the booster pump, including connecting the filter and hoses.

Video: Installation and self-priming demonstration of the water pump, showing how to connect hoses and initiate water flow from a bucket.

## 4. OPERATING INSTRUCTIONS

The Poafamx booster pump features an automatic pressure switch for convenient operation.

- **Automatic Operation:** Once connected to power and water, the pump will automatically start when a tap or water outlet is opened and stop when it is closed. This extends the pump's lifespan by preventing continuous running.
- **Bypass Switch:** The pump includes a bypass switch that allows excess water to recirculate internally, further protecting the pressure switch and ensuring smooth operation.
- **Low Noise Operation:** Designed with rubber feet and an anti-vibration base, the pump operates quietly, minimizing disturbance.

The advertisement features a young girl sleeping peacefully with a teddy bear. A blue water pump is shown splashing water. A bar chart compares noise levels, with the pump's noise level (35-40dB) being significantly lower than typical conversation (55-60dB). The pump's noise level is also compared to a whisper (25-30dB).

**作動音が低い**

Noise Level (dB)	Sound Description
25-30	小声 (Whisper)
35-40	増圧ポンプ (Water Pump)
55-60	通常の会話 (Normal Conversation)

Image: Noise level comparison, showing the pump's quiet operation (35-40dB) relative to other common sounds.

# DC12V 安全性がよい



過負荷保護機能



加熱保護機能

## 1. 自動的な圧カスイッチ

蛇口を開けると、ポンプが自動的に給水を開始します。

## 2. バイパススイッチ

余分な水をポンプ内で自動的に循環させ、使用寿命を延長し、圧カスイッチも保護できます。



Image: Illustration of the DC12V safety features, automatic pressure switch, and bypass switch for enhanced pump protection and functionality.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and efficient performance of your pump.

- **Filter Cleaning:** Periodically check and clean the filter device to prevent blockages and maintain optimal water flow.
- **Connection Inspection:** Regularly inspect all hose and pipe connections for any signs of leaks. Tighten connections as needed.
- **Storage:** If storing the pump for an extended period, especially in freezing temperatures, drain all water from the pump and hoses to prevent damage.

## 6. TROUBLESHOOTING

If you encounter issues with your pump, refer to these common troubleshooting tips:

- **Pump Not Starting:** Check the power connection and ensure the DC12V power supply is active. Verify that the water source is available and the inlet hose is submerged.
- **Low Water Pressure:** Inspect the filter for clogs and clean if necessary. Check for any kinks or blockages in the hoses. Ensure all connections are tight to prevent air leaks.
- **Pump Runs Continuously:** This may indicate a leak in the system or a faulty pressure switch. Check all connections and hoses for leaks. If no leaks are found, contact support.
- **Excessive Noise/Vibration:** Ensure the pump is mounted securely on a stable surface. Check if the rubber feet are properly installed.

If problems persist after following these steps, please contact customer support.

## 7. SAFETY PRECAUTIONS AND WARNINGS

- To prevent overheating, do not operate the pump continuously for more than 30 minutes.
- Avoid frequent switching on and off to prevent damage to the pump.
- This pump is not suitable for 110V power sources. Use only with a DC12V power supply.
- Ensure the inlet pressure does not exceed 30 PSI.
- Always ensure the pump is adequately ventilated during operation.
- Do not pump flammable liquids.



Image: Important warning regarding continuous operation to prevent overheating and other usage guidelines.

## 8. APPLICATIONS

The Poafamx DC12V Automatic Diaphragm Booster Pump is versatile and suitable for a wide range of applications, including:

- Household water supply
- Caravans and RVs
- Yachts and marine applications
- Agricultural irrigation
- Garden watering and camping



Image: Various applications of the pump, such as for RVs, yachts, agricultural irrigation, and general household use.

## 9. WARRANTY AND SUPPORT

Your Poafamx booster pump comes with a one-year warranty from the date of purchase. If you encounter any quality issues or require technical assistance, please contact our customer support team. Provide your purchase details and a description of the issue for prompt service.

For support, please refer to the contact information provided with your product packaging or visit the official Poafamx website.