

Flojet 04300143A

Flojet 12 Volt Self-Priming Water Pump

Model: 04300143A

Brand: Flojet

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Flojet 12 Volt Self-Priming Water Pump, Model 04300143A. This pump is designed for various applications including boats and RVs, delivering up to 40 working PSI. It is suitable for liquids up to 130°F and features an automatic pressure switch for efficient operation. Its compact design and plug-in port fittings facilitate easy installation.

Key Features:

- Can run dry without damage.
- Four-piston design for higher flow rates.
- Chemical-resistant polypropylene pump head for long life.
- Quick-connect plug-in ports for easy installation.
- Self-priming up to 8 feet above the level of liquid.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the pump. Failure to follow these instructions could result in serious injury or property damage.

- **Electrical Safety:** Ensure the power source is disconnected before performing any installation or maintenance. Connect the pump only to a 12 Volt DC power supply. Incorrect voltage can damage the pump and pose a safety hazard.
- **Water Temperature:** Do not use this pump for liquids exceeding 130°F (54°C).
- **Chemical Compatibility:** The pump head is made of chemical-resistant polypropylene. However, always verify compatibility with the specific liquid being pumped to prevent damage or hazardous reactions.
- **Mounting:** Securely mount the pump to a stable surface to prevent vibration and movement during operation.
- **Ventilation:** Ensure adequate ventilation around the pump to prevent overheating.
- **Children and Pets:** Keep the pump and its connections out of reach of children and pets.

3. PACKAGE CONTENTS

Please check the package contents to ensure all items are present:

- Flojet 12 Volt Self-Priming Water Pump (Model 04300143A)
- Instruction Manual
- Quick-connect port fittings (quantity may vary)

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your Flojet water pump:

1. **Mounting:** Select a dry, well-ventilated location for mounting the pump. The pump can be mounted in any position. Secure the pump using appropriate fasteners through the mounting feet. Ensure the mounting surface is stable and can support the pump's weight and vibrations during operation.
2. **Plumbing Connections:**



An image showing the Flojet 12 Volt Self-Priming Water Pump, a compact black unit with visible inlet and outlet ports and a label on the motor housing.

Connect the inlet and outlet hoses to the pump's 3/4-inch ports using the provided quick-connect fittings. Ensure all connections are tight to prevent leaks. It is recommended to use flexible hoses to minimize vibration and noise. The pump is self-priming up to 8 feet, but for optimal performance, position the pump as close to the water source as possible.

3. **Electrical Connections:** Connect the pump to a 12 Volt DC power source. Ensure the wiring is correctly polarized (positive to positive, negative to negative). It is recommended to install an inline fuse (not included) appropriate for the pump's current draw to protect the electrical circuit. Consult the specifications section for current draw details.
4. **System Priming:** Once all connections are secure, open all faucets or outlets in the system to allow air to escape. Turn on the pump. The pump will self-prime, and water should begin to flow steadily. Once water flows consistently, close the faucets. The pump's automatic pressure switch will then shut off the pump.

5. OPERATING INSTRUCTIONS

The Flojet 12 Volt Self-Priming Water Pump is designed for automatic operation:

- **Automatic Operation:** The pump is equipped with an automatic pressure switch. When a faucet or outlet is opened, the system pressure drops, and the pump automatically turns on to supply water. When the faucet is closed, the pressure builds up, and the pump automatically turns off.
- **Running Dry:** This pump is designed to run dry without damage. However, prolonged dry running is not recommended and can lead to premature wear. Ensure a consistent water supply to the pump.
- **Flow Rate:** The pump delivers up to 294 GPH (Gallons Per Hour) and maintains pressure up to 40 PSI. Actual flow and pressure may vary depending on system resistance and voltage.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your pump:

- **Periodic Inspection:** Regularly inspect all connections for leaks, especially at the inlet and outlet ports. Check electrical connections for corrosion or loose wiring.
- **Filter Cleaning:** If an inlet strainer is used (recommended, but not included), periodically clean it to prevent debris from entering the pump and reducing flow.
- **Winterization:** In freezing temperatures, the pump must be drained to prevent damage from ice expansion. Disconnect the inlet and outlet hoses and allow all water to drain from the pump head. Running the pump briefly (for a few seconds) after draining can help expel any remaining water.
- **Storage:** If storing the pump for an extended period, ensure it is clean and dry. Store in a cool, dry place.

7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not turn on	No power to pump; Blown fuse; Loose wiring; Faulty pressure switch.	Check power supply and connections; Replace fuse; Secure wiring; Contact support if switch is faulty.
Pump runs but no water flows	Air in system; Inlet clogged; Suction line leak; Pump not primed.	Open faucets to purge air; Clean inlet strainer; Check all suction line connections for leaks; Ensure water source is available.
Low flow or pressure	Clogged inlet/outlet; Kinked hose; Low voltage; Worn pump head.	Clean connections; Straighten hoses; Check voltage at pump; Contact support for worn parts.
Pump cycles on and off rapidly	Small leak in system; Pressure switch setting too low; Accumulator tank (if used) needs air.	Check for leaks in plumbing; Adjust pressure switch (if adjustable); Check accumulator tank pressure.

8. SPECIFICATIONS

Brand	Flojet
Model Number	04300143A
Voltage	12 Volts DC

Material	Polypropylene (PP)
Style	Submersible (Note: Product description states 'Self-Priming', 'Submersible' is from specifications, clarifying it's a general pump style, not necessarily for continuous submersion)
Power Source	Battery Powered
Item Weight	6.44 Pounds
Maximum Lifting Height	8 Feet (Self-priming capability)
Ports	3/4 inch
Max Liquid Temperature	130°F (54°C)
UPC	705474203017
Package Dimensions	15.35 x 4.76 x 4.29 inches

9. WARRANTY AND SUPPORT

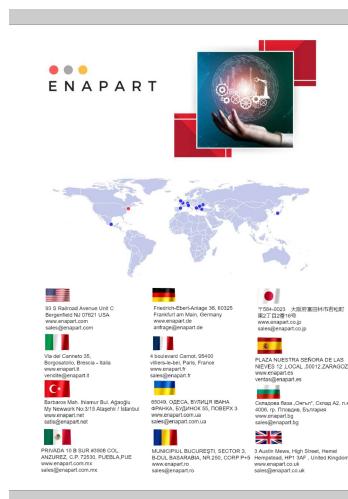
For technical assistance, warranty information, or service inquiries, please contact Flojet customer support:

Service Call: 1-800-2-FLOJET

Please have your pump's model number (04300143A) and serial number (if applicable) ready when contacting support.

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QUAD PUMPS 4000 SERIES PUMPS Flojet developed the quad pumps to deliver higher flows up to 5 GPM using a four-piston design with excellent self-priming capability. SPECIAL FEATURES Built-in pressure switch automatically starts and stops pump instantaneously when discharge valve opens and closes....

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The advertisement features a large, stylized graphic of three white, wavy lines representing water, positioned above the company name. Below the logo, the company name "VAN ISLE WATER" is written in a bold, sans-serif font, with "The Water System Experts" and "Since 1972" in a smaller font underneath. The background is a dark blue, textured image of water. The main text "2020 WATER SYSTEMS" is displayed in large, bold, white letters in the center. In the bottom right corner, there is a circular graphic with the text "OPEN 24 Hours ONLINE" and a small "X" icon.

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