Flojet R4426143A

Flojet R4426143A VFLO Constant Flow Water Pressure Pump User Manual

Model: R4426143A

1. Introduction

The Flojet R4426143A VFLO pump is designed to provide a consistent and reliable water flow for various onboard delivery tasks. Utilizing a variable speed drive, this pump automatically adjusts its operation by continuously monitoring water flow and electrical current. This ensures optimal system efficiency and delivers the exact amount of water flow required.

2. Safety Information

- **Electrical Safety:** Always disconnect power before installing, servicing, or performing any maintenance on the pump. Ensure all electrical connections are secure and properly insulated to prevent short circuits or electric shock.
- **Qualified Installation:** Installation and service should be performed by qualified personnel familiar with 12V DC electrical systems and plumbing.
- **Water Pressure:** Do not exceed the maximum operating pressure of the pump.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
- **Fuse Requirement:** A 15A fuse is required for proper electrical protection.

3. Product Overview

The Flojet R4426143A VFLO pump is a robust unit designed for efficient fluid transfer. Key features include:

- **High Flow Rate:** Delivers up to 5.0 Gallons per minute (19 Liters).
- **Variable Flow:** Motor speed increases as increased flow is required, providing constant pressure.
- **Self-Priming:** Capable of self-priming and can run dry without damage.
- **Power Conservation:** Optimizes power usage by utilizing only the necessary power for the task.
- **Snap-Fit Port Fittings:** Designed for easy installation and compatibility with various connection types.

Image of the Flojet R4426143A VFLO pump, showing the main pump body, motor, electrical connections, and included snap-fit port fittings and a clear pre-filter.

4. Setup

4.1 Mounting

- Mount the pump in a dry, accessible location.
- Secure the pump firmly to a solid surface using appropriate fasteners to minimize vibration and noise.
- Ensure adequate ventilation around the pump.

4.2 Plumbing Connections

- Identify the inlet and outlet ports on the pump. The inlet typically connects to the water source (e.g., freshwater tank), and the outlet connects to the distribution system.
- Utilize the provided snap-fit port fittings for easy and secure connections. Ensure all connections are watertight to prevent leaks and air ingress.
- Avoid kinks or sharp bends in the plumbing lines, which can restrict flow and reduce pump performance.
- Install a pre-filter on the inlet side to protect the pump from debris.

4.3 Electrical Connections

- Connect the pump to a 12 Volts DC power source.

- Ensure correct polarity: connect the positive (+) wire from the power source to the positive (+) terminal on the pump, and the negative (-) wire to the negative (-) terminal.
- Install a 15 Amp fuse in the positive (+) power line, as close to the power source as possible, to protect the pump and electrical system.

4.4 Priming the Pump

- Once plumbing and electrical connections are complete, open all faucets in the system to allow air to escape.
- Turn on the pump's power. The pump will begin to draw water and self-prime.
- Allow water to flow from each faucet until a steady stream, free of air bubbles, is achieved. Close the faucets.

5. Operating Instructions

The Flojet R4426143A VFLO pump operates automatically based on demand:

- When a faucet is opened, the pump senses the drop in pressure and starts running.
- The variable speed drive adjusts the motor speed to maintain a constant flow and pressure, providing a smooth water delivery experience.
- When all faucets are closed, the pump will build pressure to its shutoff point (approximately 60 PSI) and then automatically turn off.
- The pump is designed to run dry without sustaining damage, offering protection in case the water supply runs out.

6. Maintenance

- **Regular Inspection:** Periodically check all plumbing connections for leaks and ensure electrical connections are secure.
- **Filter Cleaning:** If an inlet pre-filter is installed, inspect and clean it regularly to prevent debris from entering the pump and restricting flow.
- **Winterization:** In freezing conditions, drain the pump and plumbing system completely or use non-toxic antifreeze suitable for potable water systems to prevent damage from ice expansion.
- **General Cleaning:** Keep the exterior of the pump clean and free from dirt and debris.

7. Troubleshooting

7.1 Pump Not Running

- **Check Power:** Ensure the power switch is on and there is 12V DC power supplied to the pump.
- **Check Fuse:** Inspect the 15A fuse in the power line. Replace if blown.
- **Check Connections:** Verify all electrical connections are tight and correct.
- **Thermal Protection:** The pump has thermal overload protection. If it has overheated, allow it to cool down before attempting to restart.

7.2 Low Flow or Pressure

- **Check Water Supply:** Ensure the water tank is not empty and the inlet line is not restricted.
- **Inspect Filter:** Clean any inline filters or the pump's pre-filter.

- **Air Leaks:** Check for air leaks on the inlet side of the pump. Even small leaks can significantly reduce performance.
- **Voltage Drop:** Ensure adequate voltage is reaching the pump. Low voltage can reduce motor speed and performance.
- **Kinked Hoses:** Check for any kinks or blockages in the plumbing lines.

7.3 Pump Runs Continuously or Cycles Rapidly

- **System Leaks:** Check all plumbing for leaks, including faucets, connections, and water heater. Even a small drip can cause the pump to cycle.
- **Air in System:** Ensure the system is fully primed and all air has been purged.
- **Faulty Check Valve:** A malfunctioning check valve can allow water to flow back, causing the pump to lose prime and cycle.

7.4 Excessive Noise

- **Mounting:** Ensure the pump is securely mounted. Loose mounting can amplify vibrations.
- **Vibration Dampening:** Consider adding rubber grommets or a flexible mounting pad under the pump to reduce transmitted noise.
- **Air in System:** Air in the water lines can cause noisy operation.

8. Specifications

Specification	Value
Brand	Flojet
Model	R4426143A
Voltage	12 Volts DC
Amperage	12.0 Amps
Maximum Flow Rate	5.0 Gallons Per Minute (18.9 Liters Per Minute)
Run Pressure	40 PSI
Shutoff Pressure	60 PSI (4.1 Bar)
Fuse Requirement	15A
Item Weight	9.55 Pounds
Product Dimensions	18 x 7.4 x 7.1 inches
Material	Plastic
Power Source	Battery Powered
Features	Variable Flow, Self-Priming, Runs Dry Without Damage, Thermally Protected

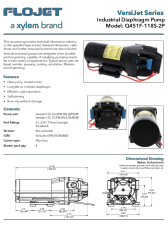
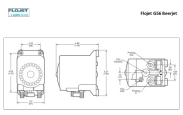
9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact Flojet directly. Keep your

purchase receipt as proof of purchase for any warranty claims.

You can find more information and contact details on the official Flojet website:www.flojet.com

Related Documents - R4426143A

	Flojet VersiJet Series Q451F-118S-2P Industrial Diaphragm Pump Datasheet Technical datasheet for the Flojet VersiJet Series Q451F-118S-2P industrial diaphragm pump. Features include heavy-duty motor, self-priming, dry-run capability, and detailed hydraulic and electrical specifications.
	Flojet G56 Beerjet Pump Technical Specifications and Diagram Detailed technical specifications and dimensional diagram for the Flojet G56 Beerjet pump, a product from Flojet, a xylem brand.
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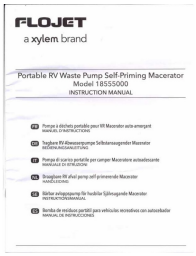	FLOJET 18555000 Portable RV Waste Pump Self-Priming Macerator: Instruction Manual Instruction manual for the FLOJET 18555000 Portable RV Waste Pump Self-Priming Macerator. Details features, specifications, application, wiring, operation, disassembly, assembly, and parts for RV waste management.
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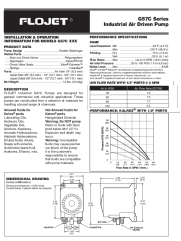
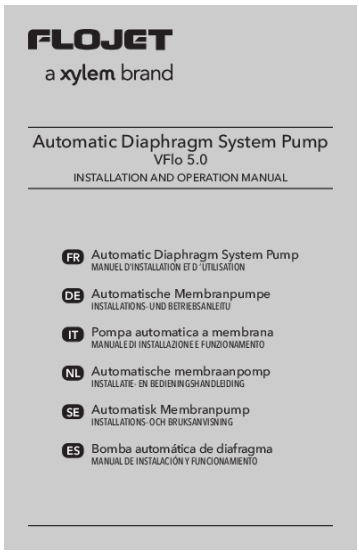
	FLOJET G57C Series Industrial Air Driven Pump: Installation, Operation & Specifications This document provides comprehensive installation, operation, and performance details for the FLOJET G57C Series Industrial Air Driven Pump. It covers product data, specifications, allowed/not allowed fluids, mounting, plumbing, operation, troubleshooting, parts, warranty, and return procedures.



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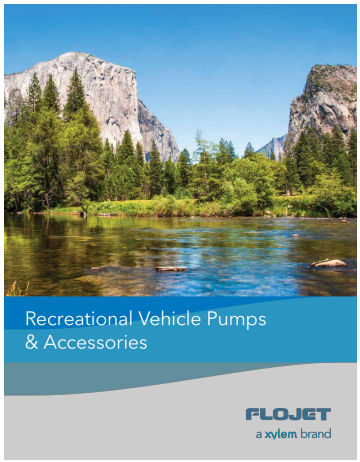

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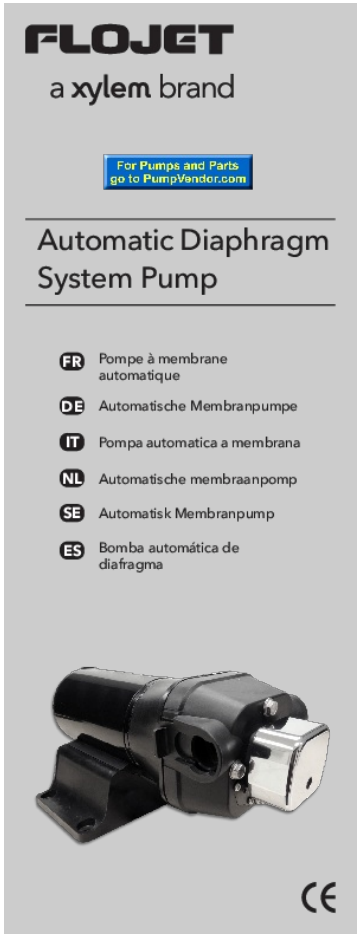

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