

## Flojet 03526-144A

# Flojet 03526-144A Triplex Diaphragm Automatic Water System Pump

## INSTRUCTION MANUAL

### 1. Important Safety Instructions

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Please read and understand all instructions and safety warnings before installing, operating, or performing maintenance on this pump. Failure to follow these instructions may result in property damage, serious injury, or death.

- **WARNING:** Read instruction manual before installing or operating the pump. Do not use to pump gasoline, petrol or fluids with flash point below 37°C (98°F). Explosion or death may occur.
- Always disconnect power before servicing the pump.
- Ensure the pump is installed in a well-ventilated area.
- Do not operate the pump in an explosive atmosphere.
- Protect the pump from freezing temperatures.
- Use appropriate personal protective equipment during installation and maintenance.

### 2. Product Overview

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The Flojet 03526-144A is a self-priming, automatic triplex diaphragm pump designed for reliable water transfer in various applications. It features a built-in pressure switch for automatic operation.

#### 2.1 Features

- Self-priming up to 9 feet (2.7 meters).
- Capable of dry running without damage.
- Built-in pressure switch automatically starts and stops the pump.
- Corrosion-resistant materials.
- Quiet operation.

## 2.2 Components

The pump consists of a motor, pump head, and an integrated pressure switch. Key connection points include the inlet and outlet ports, and electrical terminals.



Figure 1: Flojet 03526-144A Triplex Diaphragm Automatic Water System Pump, showing the motor, pump head, and electrical connections.

## 3. Installation

### 3.1 Mounting

- Mount the pump in a dry, accessible location, protected from direct sunlight and freezing.
- Ensure the mounting surface is solid and stable to minimize vibration.
- Mount the pump with the pump head down if possible, to prevent potential leaks from dripping onto the motor.
- Allow adequate space around the pump for ventilation and future maintenance.

### 3.2 Plumbing Connections

Use flexible, reinforced hose for both inlet and outlet connections to absorb vibration and reduce noise. Ensure all connections are secure and leak-free.

- **Inlet:** Connect the water supply to the inlet port. A strainer (50 mesh minimum) is recommended on the inlet side to prevent debris from entering the pump.
- **Outlet:** Connect the outlet port to the water distribution system.
- Avoid kinks or sharp bends in the hoses.
- Use appropriate hose clamps to secure connections.



Figure 2: Side view of the Flojet 03526-144A pump, illustrating the inlet and outlet ports for plumbing connections.

### 3.3 Electrical Connections

This pump operates on 12 Volt DC power. Ensure correct polarity and use appropriate wire gauge and fusing.

- Connect the red wire to the positive (+) terminal of the 12V DC power source.
- Connect the black wire to the negative (-) terminal of the 12V DC power source.
- Install an appropriate fuse (refer to specifications for recommended fuse size) in the positive (+) line, as close to the power source as possible.
- Ensure all electrical connections are clean, tight, and protected from moisture.



Figure 3: Front view of the Flojet 03526-144A pump, showing the electrical wiring for connection to a 12V DC power source.

## 4. Operating Instructions

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### 4.1 Initial Start-up

1. Ensure all plumbing connections are secure and the water supply is open.
2. Turn on the power to the pump. The pump should begin to run.
3. Open a faucet in the system to allow air to escape. The pump will prime itself and begin to pump water.
4. Once a steady stream of water flows from the faucet, close the faucet. The pump should build pressure and then shut off automatically.
5. Check all connections for leaks.

### 4.2 Automatic Operation

The Flojet 03526-144A pump is equipped with an internal pressure switch. When a faucet or valve is opened, the system pressure drops, and the pump automatically turns on. When the faucet or valve is closed, the system pressure increases, and the pump automatically turns off.

## 5. Maintenance

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Regular maintenance ensures optimal performance and extends the life of your pump.

- **Inlet Strainer:** Periodically inspect and clean the inlet strainer to prevent debris from restricting flow.
- **Connections:** Check all plumbing and electrical connections regularly for tightness and signs of wear or corrosion.
- **Winterization:** If the pump is in an environment where freezing temperatures may occur, drain all water from the pump and plumbing system or use an RV/marine approved non-toxic antifreeze.
- **Diaphragm/Valves:** If performance degrades, the diaphragm or valve assembly may need inspection or replacement. Refer to Flojet service instructions for detailed procedures.

## 6. Troubleshooting

| Problem                        | Possible Cause   | Solution   |
|--------------------------------|--|--|
| Pump does not run              | No power; Blown fuse; Loose wiring; Faulty motor or switch                         | Check power supply; Replace fuse; Tighten connections; Contact service       |
| Pump runs but no flow          | No water in tank; Air leak on inlet; Clogged strainer; Pump not primed             | Check water level; Inspect inlet connections; Clean strainer; Prime pump     |
| Low flow or pressure           | Clogged strainer; Kinked hose; Low voltage; Worn pump head                         | Clean strainer; Straighten hose; Check voltage; Inspect pump head            |
| Pump cycles on and off rapidly | Small leak in system; Pressure switch setting; Accumulator tank issue (if present) | Check for leaks; Adjust pressure switch (if adjustable); Inspect accumulator |
| Pump leaks                     | Loose connections; Cracked housing; Worn seals/diaphragm                           | Tighten connections; Inspect pump for damage; Replace seals/diaphragm        |

## 7. Specifications

| Specification            | Value   |
|--------------------------|---|
| Model Number             | 03526-144A  |
| Brand                    | Flojet  |
| Pump Type                | Triplex Diaphragm Automatic Water System Pump         |
| Voltage                  | 12 Volts DC   |
| Maximum Flow Rate        | 2.9 Gallons Per Minute (GPM)                          |
| Pressure Switch Shut-off | 50 PSI (3.4 Bar)                                      |
| Self-Priming             | Up to 9 feet (2.7 meters)                             |
| Material                 | Stainless Steel (components), Polypropylene (housing) |
| Dry Run Capability       | Yes   |
| Recommended Fuse Size    | 10 Amp (for 12V DC)                                   |



Figure 4: Dimensions of the Flojet 03526-144A pump, showing approximate height of 10 inches (25 cm).

## 8. Warranty and Customer Support

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This Flojet pump is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Flojet website.

For technical assistance, replacement parts, or warranty claims, please contact Flojet customer support directly. Have your pump model number (03526-144A) and date of purchase available when contacting support.