

[Manuals.plus](#) /

› [Everflo](#) /

› Everflo EF7000-BOX 7.0 GPM 12V Diaphragm Pump User Manual

Everflo EF7000-BOX

Everflo EF7000-BOX 7.0 GPM 12V Diaphragm Pump User Manual

Model: EF7000-BOX

INTRODUCTION

The Everflo EF7000-BOX is a high-performance 12V diaphragm pump designed for efficient fluid transfer in various applications. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your pump.

Key Features:

- 12V pump capable of handling up to 7.0 GPM and 60 PSI.
- Self-priming up to 12 feet for convenient operation.
- Approved for use with agricultural brand herbicides and insecticides, including Round-Up.
- Features a fiberglass-reinforced polypropylene pump manifold with ½" FNPT Ports.
- Standard mounting pattern for compatibility with most sprayer tanks.
- Equipped with corrosion-resistant Viton valves and a Santoprene diaphragm for enhanced durability.
- Includes a Honeywell Micro switch for improved durability and efficiency.
- Automatic power switch conserves battery power by turning off the pump when no flow is needed.
- CE approved for safety and quality standards.



FEATURES:

INLINE FUSE FOR ADDED ELECTRICAL PROTECTION

CORROSION-RESISTANT PORTS AND PUMP HEAD

RUBBER FEET WITH A STANDARD MOUNTING PATTERN

Figure 1: Key features of the Everflo EF7000-BOX pump, including the Honeywell Micro switch, 1/2" NPT ports, Santoprene diaphragm, and inline fuse protection.

SAFETY INFORMATION

Always read and understand all instructions before operating the pump. Failure to follow safety guidelines may result in injury or damage to the equipment.

- **Electrical Safety:** Ensure the pump is connected to a 12V DC power source with appropriate wiring and fuse protection. A 12-volt wire harness is sold separately.
- **Fluid Compatibility:** Do not pump flammable fluids. Do not use the pump in an explosive environment.
- **Temperature Limits:** The maximum fluid temperature for this pump is 140°F (60°C).
- **Chemical Handling:** When pumping chemicals, always wear appropriate personal protective equipment (PPE) such as gloves, eye protection, and protective clothing.
- **Proposition 65 Warning:** This product may expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- **Secure Mounting:** Always mount the pump securely using its standard mounting pattern to prevent movement during operation.

PRODUCT OVERVIEW

The Everflo EF7000-BOX is a compact and robust diaphragm pump. Understanding its components is crucial for proper installation and maintenance.



Figure 2: Front view of the Everflo EF7000-BOX pump, showing the main body and label.



Figure 3: Back view of the Everflo EF7000-BOX pump, showing the motor housing and wiring.





Figure 4: Detailed view highlighting key components such as the polypropylene pump housing, valve plate, Honeywell Micro switch, and Santoprene diaphragm.

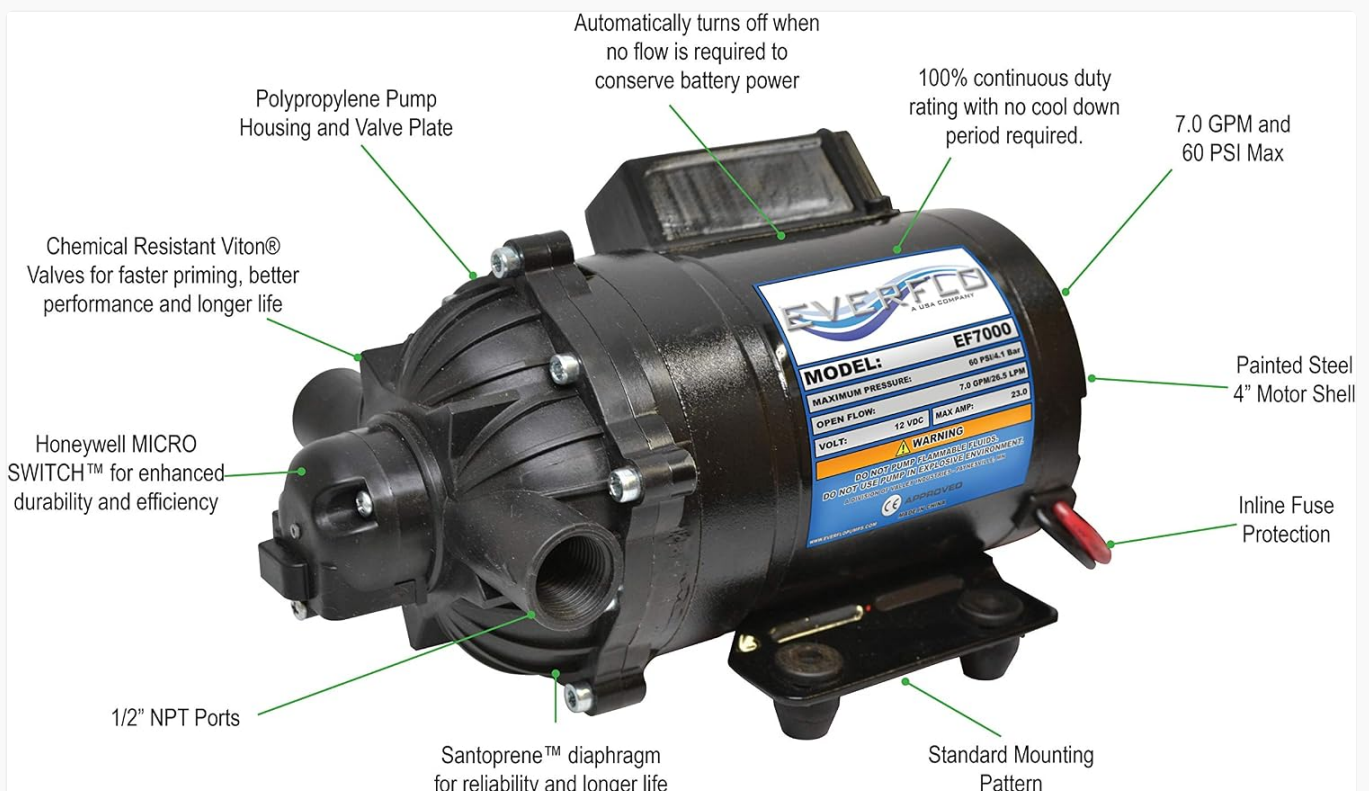


Figure 5: Additional detailed view showing the 7.0 GPM and 60 PSI max ratings, painted steel motor shell, and inline fuse protection.

Product Overview Video:

Your browser does not support the video tag.

Video 1: A comprehensive overview of the Everflo EF7000-BOX 12V Diaphragm Pump, demonstrating its features and capabilities for efficient fluid transfer in various applications.

SETUP AND INSTALLATION

Proper installation is critical for the pump's performance and longevity. Follow these steps carefully.

1. **Mounting:** Secure the pump using its standard mounting pattern. The pump features rubber feet for vibration dampening. Ensure the mounting surface is stable and level.
2. **Port Connections:** The pump is equipped with 1/2" FNPT (Female National Pipe Taper) ports. Connect your inlet and outlet hoses securely to these ports. Avoid overtightening plastic fittings as they may crack.
3. **Electrical Connection:** Connect the pump to a 12V DC power source. A 12-volt wire harness is required and sold separately. Ensure correct polarity (red wire to positive, black wire to negative) and use appropriate inline fuse protection.
4. **Priming:** The pump is self-priming up to 12 feet. Ensure the inlet hose is submerged in the fluid source before starting the pump.

PORTS: 1/2" FNPT



Figure 6: Close-up view of the 1/2" FNPT ports on the Everflo EF7000-BOX pump, indicating connection points for fluid lines.

OPERATING INSTRUCTIONS

Follow these guidelines for optimal performance and to extend the life of your Everflo pump.

- **Starting the Pump:** Once properly installed and connected to a 12V power source, activate the power switch. The pump will begin to draw fluid.
- **Flow and Pressure:** The pump delivers a maximum flow rate of 7.0 GPM and can achieve up to 60 PSI pressure.
- **Automatic Operation:** The pump features an automatic power switch that turns off the pump when no flow is needed, helping to conserve battery power and reduce wear. It will restart automatically when flow is required again.
- **Continuous Duty:** The pump has a 100% continuous duty rating, meaning it can operate without a cool-down period.
- **Applications:** This pump is suitable for various fluid transfer applications, including agricultural spraying (herbicides, insecticides), industrial uses, and commercial tasks.

MAINTENANCE

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

- **Flushing After Use:** If using the pump for disinfectants, sanitizing agents, or other chemicals, it is crucial to flush the pump thoroughly with clean water after each use. This prevents chemical buildup and corrosion.
- **Winterization:** In freezing conditions, drain all fluids from the pump and lines to prevent damage from ice expansion.
- **Inspection:** Periodically inspect the pump for any signs of wear, leaks, or damage to hoses and connections. Ensure all fasteners are tight.
- **Viton Valves and Santoprene Diaphragm:** The pump is designed with corrosion-resistant Viton valves and a Santoprene diaphragm for long-term durability, minimizing the need for frequent component replacement.

TROUBLESHOOTING

If you encounter issues with your Everflo EF7000-BOX pump, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Pump does not run	No power, loose wiring, blown fuse, faulty switch.	Check power source, ensure connections are secure, inspect and replace fuse if necessary, test switch.
Low flow or no pressure	Clogged inlet filter, air leak in suction line, restricted discharge line, worn pump head.	Clean inlet filter, check all connections for air leaks, clear any obstructions in the discharge line, inspect pump head for damage.
Pump cycles on and off rapidly	Pressure switch issue, small leak in system, restricted flow.	Check for leaks in the system, ensure adequate flow, contact manufacturer if pressure switch is suspected to be faulty.
Leaking from pump head	Loose screws, damaged diaphragm or seals.	Tighten pump head screws. If leaking persists, internal components may be damaged and require professional service or replacement.

For issues not covered here or if troubleshooting steps do not resolve the problem, please contact Everflo customer support.

SPECIFICATIONS

Attribute	Value
Brand	Everflo
Model Number	EF7000-BOX

Attribute	Value
Voltage	12 Volts DC
Maximum Flow Rate	7.0 Gallons Per Minute (GPM)
Maximum Pressure	60 PSI
Self-Priming Height	Up to 12 Feet
Ports	½" FNPT
Material	Polypropylene (PP)
Item Weight	9.5 Pounds
Product Dimensions (L x W x H)	11"L x 6.25"W x 6"H
Max Fluid Temperature	140°F (60°C)
Certifications	CE Approved



Figure 7: Dimensional drawing of the Everflo EF7000-BOX pump, showing length, width, and height measurements.

For specific warranty details, please refer to the documentation included with your purchase or visit the official Everflo website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, replacement parts, or further assistance, please contact the manufacturer, Everflo (a division of Valley Industries). Contact information can usually be found on the product packaging or their official website.

An official user manual in PDF format is also available for download:[Everflo EF7000-BOX User Manual \(PDF\)](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question