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› Liberty Pumps Model 257 Sump Pump Instruction Manual

Liberty Pumps 257

Liberty Pumps Model 257 Sump Pump

INSTRUCTION MANUAL

Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Liberty Pumps Model 257 Sump Pump. Please read all instructions carefully before proceeding with installation or operation. Retain this manual for future reference.

Safety Information

Always disconnect power to the pump before performing any maintenance or service. Ensure all electrical connections comply with local codes. This pump is designed for pumping clear water only. Do not use for flammable liquids or chemicals. Wear appropriate personal protective equipment during installation and maintenance.

Setup and Installation

The Liberty Pumps Model 257 is a submersible sump pump designed for automatic operation in sump pits. Proper installation is crucial for optimal performance and longevity.

Pre-Installation Checks:

- Inspect the pump for any shipping damage.
- Ensure the sump pit is clean and free of debris.
- Verify that the power supply matches the pump's voltage requirements (115 Volts).

Installation Steps:

1. **Positioning the Pump:** Place the pump on a solid, level surface at the bottom of the sump pit. Ensure it is not resting directly on dirt or gravel.
2. **Discharge Piping:** Connect a 1-1/2 inch discharge pipe to the pump's outlet. A check valve should be installed in the discharge line to prevent water from flowing back into the sump pit when the pump shuts off.
3. **Air Lock Prevention:** To prevent air lock, drill a 1/8-inch relief hole in the discharge pipe approximately 6 inches

above the pump's discharge connection, within the sump pit. The pump also features a built-in vent hole in its base.

4. **Power Connection:** Plug the quick-disconnect 10-foot power cord into a grounded 115V outlet. Ensure the cord is routed to prevent kinking or damage.



Figure 1: The Liberty Pumps Model 257 Sump Pump, featuring its robust cast iron construction and integrated float switch.

Operating Instructions

The Liberty Pumps Model 257 is designed for automatic operation via its magnetically operated vertical float switch. When the water level in the sump pit rises and lifts the float, the pump will activate. When the water level drops and the float lowers, the pump will deactivate.

- **Automatic Operation:** The pump will automatically turn on and off based on the water level in the sump pit, controlled by the integrated float switch.
- **Solids Handling:** The high-temperature, engineered polymer vortex impeller is designed to handle solids up to 1/2 inch in diameter, making it suitable for demanding sump pump applications.
- **Flow Rate:** The pump is capable of a maximum flow rate of 50 gallons per minute and a maximum lifting height of

21 feet.

Maintenance

Regular maintenance ensures the longevity and reliable operation of your sump pump.

- **Periodic Inspection:** Annually, or more frequently if the pump runs often, inspect the sump pit for debris that could obstruct the float switch or pump intake.
- **Clean Sump Pit:** Remove any accumulated silt, gravel, or other foreign objects from the sump pit.
- **Check Float Switch:** Ensure the float switch moves freely and is not obstructed by the pit walls or other components.
- **Power Cord Inspection:** Check the power cord for any signs of wear, cuts, or damage. Replace if necessary.

Troubleshooting

Refer to the following common issues and solutions before contacting support.

Problem	Possible Cause	Solution
Pump does not run	No power; Float switch obstructed; Motor overload.	Check power supply/breaker; Clear float switch; Allow motor to cool and reset.
Pump runs continuously	Float switch stuck in ON position; Check valve faulty; Continuous water inflow.	Clear float switch; Inspect/replace check valve; Address water source.
Pump cycles too frequently	Sump pit too small; Float switch setting too low.	Consider a larger sump pit or adjusting float switch if possible (Model 257 has fixed float).
Pump runs but no water is discharged	Discharge line clogged; Air lock; Impeller clogged.	Clear discharge line; Check air relief hole; Inspect and clear impeller.

Specifications

Feature	Detail
Brand	Liberty Pumps
Model Number	257
Material	Cast Iron
Power Source	Battery Powered (Note: This is likely an error in source data, typically AC powered for main sump pumps. Refer to product label for confirmation.)
Voltage	115 Volts
Item Weight	15.2 Pounds
Product Dimensions (L x W x H)	9.6" x 9.6" x 10.5"
Maximum Flow Rate	50 Gallons Per Minute
Maximum Lifting Height	21 Feet
Discharge Size	1-1/2 inches

Feature	Detail
Included Components	Product Only

Warranty Information

Liberty Pumps, Inc. warrants that pumps and other products of its manufacture are free from all factory defects in material and workmanship for a period of 2 years from the date of purchase. Please retain your proof of purchase for warranty claims.

Support

For technical assistance, replacement parts, or further information, please contact Liberty Pumps customer service. Refer to the contact information provided with your product packaging or visit the official Liberty Pumps website.

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