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SEAFLO SFBP1-G1100-13B

SEAFLO 12V 13B Series 1100 GPH Automatic Water Sensing Bilge Pump User Manual

Model: SFBP1-G1100-13B

Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your SEAFLO 12V 13B Series 1100 GPH Automatic Water Sensing Bilge Pump. Please read these instructions thoroughly before installation and use to ensure proper function and longevity of the product.



Image 1: The SEAFLO 12V 13B Series 1100 GPH Automatic Water Sensing Bilge Pump. This image shows the pump's compact design, including the orange top housing, white pump body, black base with water intake grates, and the threaded discharge port. The electrical wiring is visible, bundled on the side.

Safety Information

- Always disconnect power before installing, inspecting, or servicing the pump.
- Ensure all electrical connections are waterproof and properly insulated to prevent corrosion and short circuits.
- Install the pump in a location where it is easily accessible for inspection and maintenance.
- Do not run the pump dry for extended periods, as this can cause damage.
- Verify that the voltage of your power supply matches the pump's requirements (12V DC).
- This pump is designed for pumping water only. Do not use it for flammable liquids, chemicals, or other hazardous materials.

Specifications

Feature	Specification
Brand	SEAFLO
Model Number	SFBP1-G1100-13B
Voltage	12 Volts DC
Maximum Flow Rate	1100 Gallons Per Hour (GPH)
Operation	Automatic Water Sensing
Material	Stainless Steel (internal components), Durable Plastic (housing)
Item Weight	472 Grams (1.04 pounds)
Dimensions	Approximately 4.92 x 4.8 x 3.03 inches
Features	Built-in check valve, Quick connect installation

Setup and Installation

1. **Mounting:** Select a flat, secure location in the lowest part of the bilge. Ensure the pump is mounted vertically with the discharge port facing upwards. The base of the pump should be level to allow proper water sensing.
2. **Discharge Hose Connection:** Connect a suitable discharge hose to the pump's outlet port. Secure the hose with a marine-grade hose clamp to prevent leaks. Route the hose upwards to a through-hull fitting, ensuring there are no kinks or sharp bends that could restrict flow.
3. **Electrical Wiring (12V DC):**
    - Identify the pump's wires: typically a brown wire (positive), a black wire (negative), and a brown/white wire (automatic switch positive).
    - Connect the **black wire** to the negative (-) terminal of your 12V DC power source (e.g., boat battery or distribution panel).
    - Connect the **brown wire** to a fused positive (+) terminal on your 12V DC power source, preferably through a manual override switch. This allows for manual operation of the pump.
    - Connect the **brown/white wire** to a separate fused positive (+) terminal on your 12V DC power source. This wire activates the automatic water sensing feature.
    - Ensure all connections are crimped, soldered, and sealed with marine-grade heat shrink tubing or waterproof connectors to prevent corrosion.
4. **Testing:** After installation, temporarily apply power to the pump to ensure it operates correctly. Introduce water into the bilge to verify the automatic sensing function activates the pump and that water is discharged efficiently. Check for any

leaks at the hose connections.

Operating Instructions

The SEAFLO 12V 13B Series Bilge Pump offers both automatic and manual operation modes.

Automatic Operation

When the brown/white wire is connected to a constant 12V DC positive source, the pump's internal water sensing mechanism will periodically check for water. If water is detected at a sufficient level, the pump will activate automatically to remove the water. The pump will continue to run until the water level drops below the sensor, then it will shut off and resume periodic checks.

- The pump automatically checks for water approximately every 2.5 minutes.
- No user intervention is required for automatic operation once properly wired.

Manual Operation

If you have installed a manual override switch connected to the brown wire, you can activate the pump at any time, regardless of the water level. This is useful for testing or for situations where you need to pump out water manually.

- Activate the manual override switch to turn the pump on.
- Deactivate the switch to turn the pump off.
- Ensure the pump does not run dry for extended periods during manual operation.

Maintenance

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

- **Inspect Regularly:** Periodically check the pump, wiring, and hose connections for signs of wear, corrosion, or damage.
- **Clean Intake Strainer:** The pump's base features an intake strainer designed to prevent debris from entering the pump. Regularly remove the pump from its base (quick connect feature) and clean any accumulated debris (leaves, hair, dirt) from the strainer.
- **Check for Obstructions:** Ensure the discharge hose is clear of obstructions and kinks.
- **Test Operation:** Manually test the pump's operation and automatic sensing function at least once a month to confirm it is working correctly.
- **Winterization:** In freezing climates, ensure the pump and discharge hose are completely drained to prevent ice damage.

Troubleshooting

Problem	Possible Cause	Solution
Pump does not run	No power, blown fuse, loose wiring connection, faulty switch, motor failure.	Check battery voltage. Inspect fuse and replace if blown. Verify all electrical connections are secure and corrosion-free. Test manual override switch. If issues persist, the motor may be faulty.
Pump runs but no water is discharged	Clogged intake strainer, blocked discharge hose, airlock, pump running dry.	Disconnect power and clean the intake strainer. Check the discharge hose for kinks or obstructions. Ensure the pump is submerged in water when operating.

Problem	Possible Cause	Solution
Pump runs continuously or cycles frequently	Water sensor malfunction, residual water in bilge, backflow through discharge hose.	Ensure the bilge is completely dry. Check the built-in check valve for proper function. Verify the water sensor is clean and unobstructed.
Pump is noisy or vibrates excessively	Debris in impeller, loose mounting, worn motor bearings.	Disconnect power and inspect the impeller for debris. Ensure the pump is securely mounted. If noise persists, internal components may be worn.

Warranty and Support

SEAFLO products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official SEAFLO website. For technical support, parts, or service inquiries, please contact SEAFLO customer service directly.
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What is the depth of water required to activate the SEAFLO SFBP1-G1100-13B pump, and at what water depth does it turn off?

The SEAFLO SFBP1-G1100-13B is an automatic water-sensing bilge pump that operates on a timed cycle rather than a traditional float switch. Here is how the activation and shut-off levels work based on the manual:...

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