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› SEAFLO 01 Series 500 GPH Bilge Pump Instruction Manual

SEAFLO SFBP1-G500-01

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SEAFLO 01 Series 500 GPH Bilge Pump

Instruction Manual

Model: SFBP1-G500-01

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your SEAFLO 01 Series 500 GPH Bilge Pump. This 12V submersible pump is designed for reliable water evacuation in marine environments, featuring anti-airlock protection and durable construction. Please read this manual thoroughly before use to ensure optimal performance and longevity of your pump.

2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of personal injury and damage to the pump or

vessel.

- Ensure the power supply is disconnected before installing, servicing, or performing any maintenance on the pump.
- Verify that the voltage of the power source matches the pump's voltage rating (12V DC).
- All electrical connections must be waterproof and properly insulated to prevent corrosion and short circuits.
- Install a fuse of the correct amperage (5A for this model) in the positive lead to protect the pump and wiring.
- Do not run the pump dry for extended periods, as this can cause overheating and damage.
- This pump is designed for pumping water only. Do not use it for flammable liquids, chemicals, or other hazardous materials.

3. PRODUCT OVERVIEW

The SEAFLO 01 Series 500 GPH Bilge Pump is engineered for reliability and performance in demanding marine conditions.

Key Features:

- **Powerful 500 GPH Flow:** Ensures efficient water evacuation.
- **Anti-Airlock Protection:** Prevents air from becoming trapped, ensuring consistent operation.
- **Robust and Quiet Motor:** Sealed motor designed for long life and low noise.
- **Snap-Off Strainer Base:** Allows for quick and easy cleaning and maintenance.
- **Durable Marine-Grade Construction:** Features a stainless steel shaft, moisture-tight seals, and blocked wiring for corrosion resistance.
- **Fully Submersible:** Meets CE, RoHS, ISO 8846, and ISO 8849 standards for safe marine operation.
- **Compatibility:** Operates with manual switches or float switches (not included).

Product Components:



The main unit of the SEAFLO 01 Series 500 GPH Bilge Pump, showcasing its compact design and integrated wiring.



Illustration of the pump's powerful 500 GPH flow rate, demonstrating its water expulsion capability.



Detailed view of the high-quality impeller, designed for durable and powerful water movement within the pump.



An internal view highlighting the robust and quiet motor, engineered for long-lasting and efficient operation.



The pump with its snap-off removable strainer base detached, illustrating the ease of maintenance and cleaning.



The pump is fully submersible and features 3 ft (1 m) 18 AWG marine-grade wire leads for reliable electrical connection in wet environments.



Close-up of the 3/4 inch nylon hose barb outlet, indicating the standard connection size for discharge hoses.



The pump is compatible with both manual switches and float switches, offering flexibility in control options.

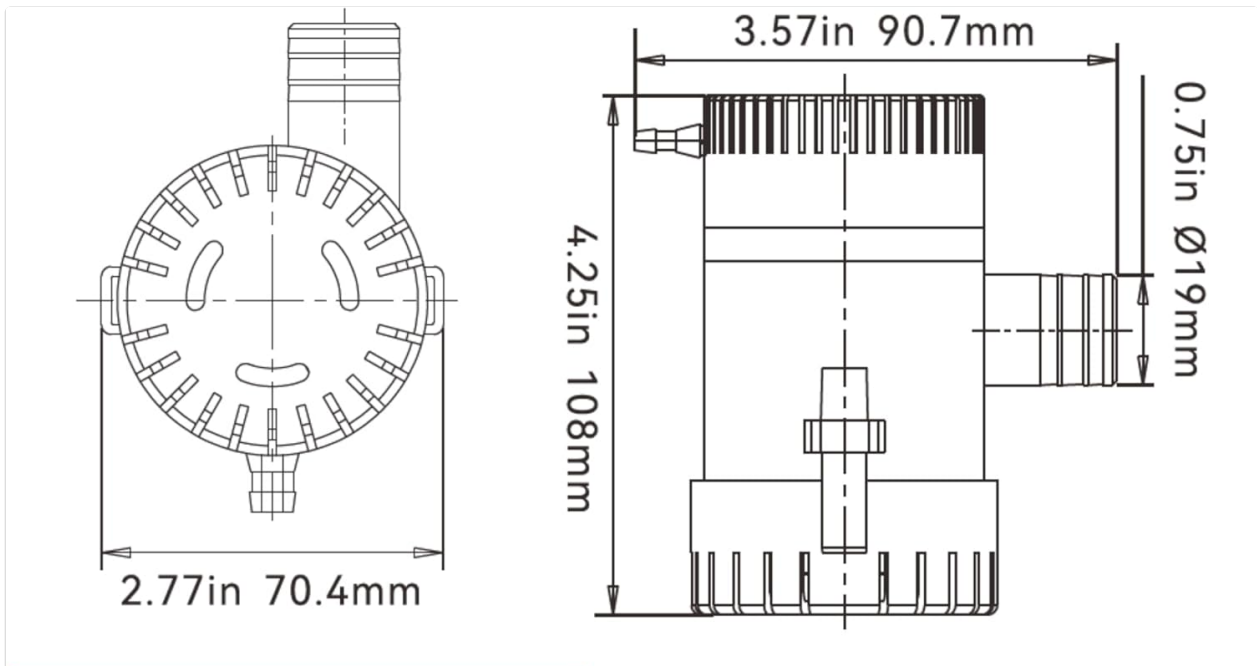
Official Product Video:

This video demonstrates the SEAFLO 500 GPH 01 Series Bilge Pump in operation, showcasing its water pumping capabilities and key features.

4. SPECIFICATIONS

Attribute	Value
Model Number	SFBP1-G500-01
Voltage	12V DC
Flow Rate	500 GPH (Gallons Per Hour)
Outlet Diameter	3/4" (19 mm)
Max Head	6.56 feet (2 meters)
Current Draw	1.6A
Max Draw	4.0A
Wire Lead Length	3.0 feet (1 meter)
Material	Plastic
Item Weight	0.45 Pounds (7.2 ounces)
Product Dimensions	3.57"L x 2.77"W x 4.25"H

Attribute	Value
Certifications	CE, RoHS, ISO 8846, ISO 8849



Model Number	SFBP1-G500-01
Voltage	12V DC
Flow Rate	500 GPH
Current	1.6 A
Max Draw	4.0 A
Outlet Size:	3/4"
Wire Lead	1m /3.0' - 18 AWG

Detailed performance curve and flow rate table for the SEAFLO 500 GPH Bilge Pump, illustrating its efficiency under various conditions.

5. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and safety. Follow these general guidelines:

- Mounting Location:** Choose a flat, stable surface in the lowest part of the bilge where water collects. Ensure the pump is easily accessible for inspection and maintenance.
- Secure Mounting:** Use appropriate fasteners to secure the pump's base firmly to the mounting surface. The snap-off strainer base allows for easy removal of the motor cartridge for cleaning without detaching the entire base.
- Hose Connection:** Connect a 3/4" (19 mm) ID hose to the pump's outlet barb. Secure the hose with a marine-grade hose clamp to prevent leaks. Route the hose upwards to a through-hull fitting, ensuring a continuous rise to prevent backflow.

4. Wiring:

- Connect the brown wire (positive) to a 12V DC power source through a fuse (recommended 5A).
- Connect the black wire (negative) to a common ground.
- If using a manual switch or float switch, wire it according to the switch manufacturer's instructions, ensuring it is rated for 12V DC and sufficient amperage.
- All connections must be made with marine-grade, tinned copper wire and sealed with heat-shrink tubing or waterproof connectors to prevent corrosion.

5. **Testing:** After installation, briefly apply power to the pump to ensure it operates correctly and that there are no leaks in the hose connections.

6. OPERATING INSTRUCTIONS

The SEAFLO 01 Series 500 GPH Bilge Pump is a non-automatic pump, meaning it requires an external switch for activation.

- **Manual Operation:** Activate the pump by turning on the connected manual switch. Turn off the switch when the bilge is clear of water.
- **Automatic Operation (with Float Switch):** If connected to a float switch (sold separately), the pump will automatically turn on when water reaches a certain level and turn off when the water level drops.
- **Run Dry Protection:** While the pump is designed to withstand brief periods of dry running, prolonged dry operation can lead to premature wear and damage. Avoid running the pump without water for extended durations.

7. MAINTENANCE

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

- **Strainer Base Cleaning:** Periodically inspect and clean the strainer base to remove debris such as leaves, hair, or other foreign objects that can clog the impeller and reduce pump efficiency. To clean, simply snap off the strainer base from the motor cartridge, clear any debris, and reattach.
- **Impeller Inspection:** While the strainer base is removed, inspect the impeller for any damage or excessive wear.
- **Hose and Connections:** Check the discharge hose for kinks, blockages, or leaks. Ensure all electrical connections remain tight and corrosion-free.
- **Winterization:** In freezing climates, ensure the pump and associated plumbing are drained or protected from freezing to prevent damage.

8. TROUBLESHOOTING

If your pump is not operating as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Pump does not run	No power; Blown fuse; Loose wiring; Faulty switch	Check battery voltage; Replace fuse; Inspect and tighten all electrical connections; Test or replace switch.
Pump runs but no water flow or low flow	Clogged strainer base/impeller; Kinked or blocked discharge hose; Air trapped in pump (airlock); Pump not fully submerged	Clean strainer base and impeller; Clear hose obstruction; Briefly lift and lower pump to release air; Ensure pump is fully submerged.
Pump runs continuously	Faulty float switch (if installed); Backflow from discharge hose; Leak in bilge	Test or replace float switch; Install or check anti-siphon loop/check valve; Inspect bilge for water ingress.
Excessive noise or vibration	Debris in impeller; Loose mounting; Worn motor bearings	Clean impeller; Securely fasten pump; If noise persists, pump may need replacement.

9. WARRANTY AND SUPPORT

The SEAFLO 01 Series 500 GPH Bilge Pump is backed by a **4-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use and service from the date of purchase.

For warranty claims, technical support, or any questions regarding your SEAFLO product, please contact SEAFLO customer service. Keep your proof of purchase for warranty validation.

For more information, visit the official SEAFLO website or contact your local distributor.