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SEAFLO SFBP2-G1100-01

SEAFLO 24V 1100 GPH Bilge Pump (Model: SFBP2-G1100-01) Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your SEAFLO 24V 1100 GPH Bilge Pump, model SFBP2-G1100-01. Please read these instructions thoroughly before use to ensure proper function and longevity of the product.

The SEAFLO 1100 GPH Bilge Pump is designed for marine water evacuation, offering reliable performance in various boating applications. It features a compact design, durable construction, and efficient water removal capabilities.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in property damage, serious injury, or death.

- Always disconnect power before installing, servicing, or performing any maintenance on the pump.
- Ensure the power source matches the pump's voltage (24V DC). Incorrect voltage can damage the pump and pose a fire hazard.
- Install an appropriate fuse in the positive (+) lead as specified in the electrical requirements section.
- All wiring connections must be watertight and corrosion-resistant. Use marine-grade connectors and sealants.
- 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.
- Keep hands and loose clothing clear of the pump's intake and outlet during operation.

3. PRODUCT FEATURES

The SEAFLO 24V 1100 GPH Bilge Pump incorporates several design elements for enhanced performance and durability:

- **High Capacity:** Moves up to 1100 gallons per hour (GPH) for effective water removal.

- **24-Volt Operation:** Designed for 24V DC electrical systems.
- **Heavy-Duty, Long-Life Motor:** Ensures reliable and continuous operation.
- **ABS Moisture-Tight Seal:** Provides complete submergibility and protection against water ingress.
- **Stainless Steel Shaft:** Offers corrosion resistance and extended pump life.
- **High-Flow Heavy Duty Impeller:** Optimized for maximum water flow.
- **Removable Strainer Base:** Allows for easy cleaning and maintenance without tools.
- **Anti-Airlock Protection:** Prevents air from becoming trapped, ensuring consistent pumping.
- **Backflow Prevention Check Valve:** Helps keep bilges dry and odor-free.



Figure 1: Key features of the SEAFLO 1100 GPH Bilge Pump.



Figure 2: Internal and external components of the bilge pump.

4. SPECIFICATIONS

Specification	Value
Model Number	SFBP2-G1100-01
Voltage	24V DC
Flow Rate	1100 Gallons Per Hour (GPH)
Current Draw	1.8 Amps
Fuse Size	3 Amps
Outlet Diameter	1-1/8 inches (29 mm)
Material	Stainless Steel (Shaft)
Submersibility	Fully Submersible



Figure 3: Pump label indicating model and electrical specifications.

5. INSTALLATION AND SETUP

Proper installation is crucial for the pump's performance and safety.

5.1 Mounting

1. Select a suitable location in the lowest part of the bilge where water collects. The pump must be mounted

vertically on a flat surface.

2. The pump features a removable strainer base for easy mounting. Detach the motor cartridge from the base by pressing the release tabs.
3. Secure the strainer base to the bilge floor using appropriate marine-grade fasteners (not included). Ensure the base is firmly attached to prevent movement during operation.
4. Once the base is secured, reattach the motor cartridge by aligning it with the base and pressing down until it locks into place.



Figure 4: Removable strainer base for easy installation and maintenance.



Figure 5: Pump with strainer base removed.

5.2 Plumbing

1. Connect a 1-1/8 inch (29 mm) bilge hose to the pump's outlet port. Use a marine-grade hose clamp to secure the connection tightly.

2. Route the bilge hose to a suitable thru-hull fitting above the waterline. Ensure the hose has a continuous upward slope to prevent airlocks and backflow.
3. Avoid sharp bends or kinks in the hose, which can restrict flow and reduce pump efficiency.



Figure 6: Pump outlet diameter for hose connection.

5.3 Electrical Wiring

1. The pump is designed for 24V DC systems. Connect the brown wire to the positive (+) 24V DC power source and the black wire to the negative (-) ground.
2. Install an in-line 3 Amp fuse in the positive (+) wire, as close to the power source as possible. This protects the pump and electrical system from overcurrent.
3. All electrical connections must be made using marine-grade, heat-shrink butt connectors or similar waterproof terminals to prevent corrosion and ensure a secure connection.
4. Ensure all wiring is properly routed and secured to prevent chafing or damage.



Figure 7: SEAFLO 1100 GPH Bilge Pump with wiring.

6. OPERATING INSTRUCTIONS

The SEAFLO 1100 GPH Bilge Pump is a submersible pump designed for continuous or intermittent duty. It operates when power is supplied to it.

1. **Manual Operation:** If connected to a manual switch, activate the switch to turn the pump on. Turn the switch off when the bilge is clear of water.
2. **Automatic Operation (with optional float switch):** If an external float switch (not included) is installed and wired correctly, the pump will automatically activate when water levels rise and deactivate when water is removed. Refer to the float switch's instruction manual for wiring details.

The pump's moisture-tight seals and marine-grade blocked wiring ensure silent, vibrationless operation and complete submergibility. The anti-airlock protection and backflow prevention check valve work to keep bilges dry and odor-free.



Figure 8: Reliable and submersible design.

7. MAINTENANCE

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

1. **Inspect Regularly:** Periodically check the pump, wiring, and hose connections for any signs of wear, corrosion, or damage.
2. **Clean Strainer Base:** The removable strainer base should be cleaned regularly to prevent debris from clogging the intake. To clean, disconnect power, detach the motor cartridge from the base, remove any accumulated debris, and rinse thoroughly. Reassemble once clean.
3. **Check for Leaks:** Ensure all hose clamps are tight and there are no leaks in the plumbing system.
4. **Test Operation:** Periodically test the pump's operation by allowing water to accumulate in the bilge or by manually adding water to ensure it activates and pumps effectively.

8. TROUBLESHOOTING

If your SEAFLO bilge pump is not operating as expected, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Pump does not run	No power to pump	Check fuse, battery connections, and wiring. Ensure switch is in 'ON' position.
	Motor seized or damaged	Disconnect power and inspect impeller for obstructions. If motor is seized, replacement may be necessary.
Pump runs but no water is discharged or flow is low	Clogged intake strainer	Disconnect power, remove strainer base, and clean thoroughly.
	Hose kinked or obstructed	Inspect discharge hose for kinks or blockages. Clear any obstructions.
	Airlock in pump or hose	Ensure pump is fully submerged. Check hose routing for continuous upward slope. Briefly lift and lower the pump to dislodge air.
Pump runs continuously	Water still present in bilge	This is normal if water is present.
	Faulty float switch (if installed)	Inspect float switch for debris or malfunction. Replace if necessary.
	Backflow through discharge hose	Ensure discharge hose exits above the waterline and has a proper loop or check valve to prevent backflow.

9. WARRANTY AND SUPPORT

The SEAFLO 24V 1100 GPH Bilge Pump (Model: SFBP2-G1100-01) comes with a **4-year warranty**. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical support, or further assistance, please contact SEAFLO customer service through their official website or the retailer from whom the product was purchased. Please have your model number (SFBP2-G1100-01) and proof of purchase available.