SEAFLO SFMP1-120-01

SEAFLO Macerator Pump System User Manual

Model: SFMP1-120-01 (01 Series Macerator Pump)

Brand: SEAFLO

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your SEAFLO 12V Macerator Pump System. Designed for reliable waste management in RV and marine environments, this pump features a robust motor and efficient chopping capabilities. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the product.

2. Safety Information

WARNING:

- Always disconnect power before installing, servicing, or performing any maintenance on the pump.
- Ensure all electrical connections are properly sealed and protected from moisture to prevent short circuits and corrosion.
- Do not pump gasoline, petroleum, or any fluids with a flash point below 100°F (37.8°C). Pumping flammable liquids may cause explosion or death.
- Ensure adequate ventilation around the pump during operation.
- This pump is designed for waste water and sewage. Do not use for potable water.

3. Product Overview

The SEAFLO 01 Series Macerator Pump is engineered for high performance and durability. Key features include:

- **12V Heavy Duty Design:** Optimized for RV and marine 12-volt electrical systems.
- **4-Blade Spiral Chopper:** Equipped with a stainless-steel 4-blade spiral chopper to effectively reduce solids and minimize clogging.
- **Triple Sealed Motor:** The motor is triple-sealed to provide superior resistance against water intrusion, corrosion, and internal damage, enhancing the pump's lifespan.
- **Anti-Clog Knob:** A conveniently located knob allows for quick manual dislodging of jams without requiring

pump disassembly.

- **Built-in Thermal Protection:** Prevents overheating, further extending the motor's operational life.



The SEAFLO 12V Macerator Pump System, designed for efficient waste management in RVs and marine applications.



Close-up view of the durable stainless-steel 4-blade spiral chopper, designed to effectively reduce solids and prevent clogging.



Illustration highlighting the triple-sealed motor, engineered for superior resistance against water intrusion, corrosion, and internal damage, ensuring longevity.



A user-friendly anti-clog knob allows for quick and easy dislodging of jams without requiring pump disassembly.

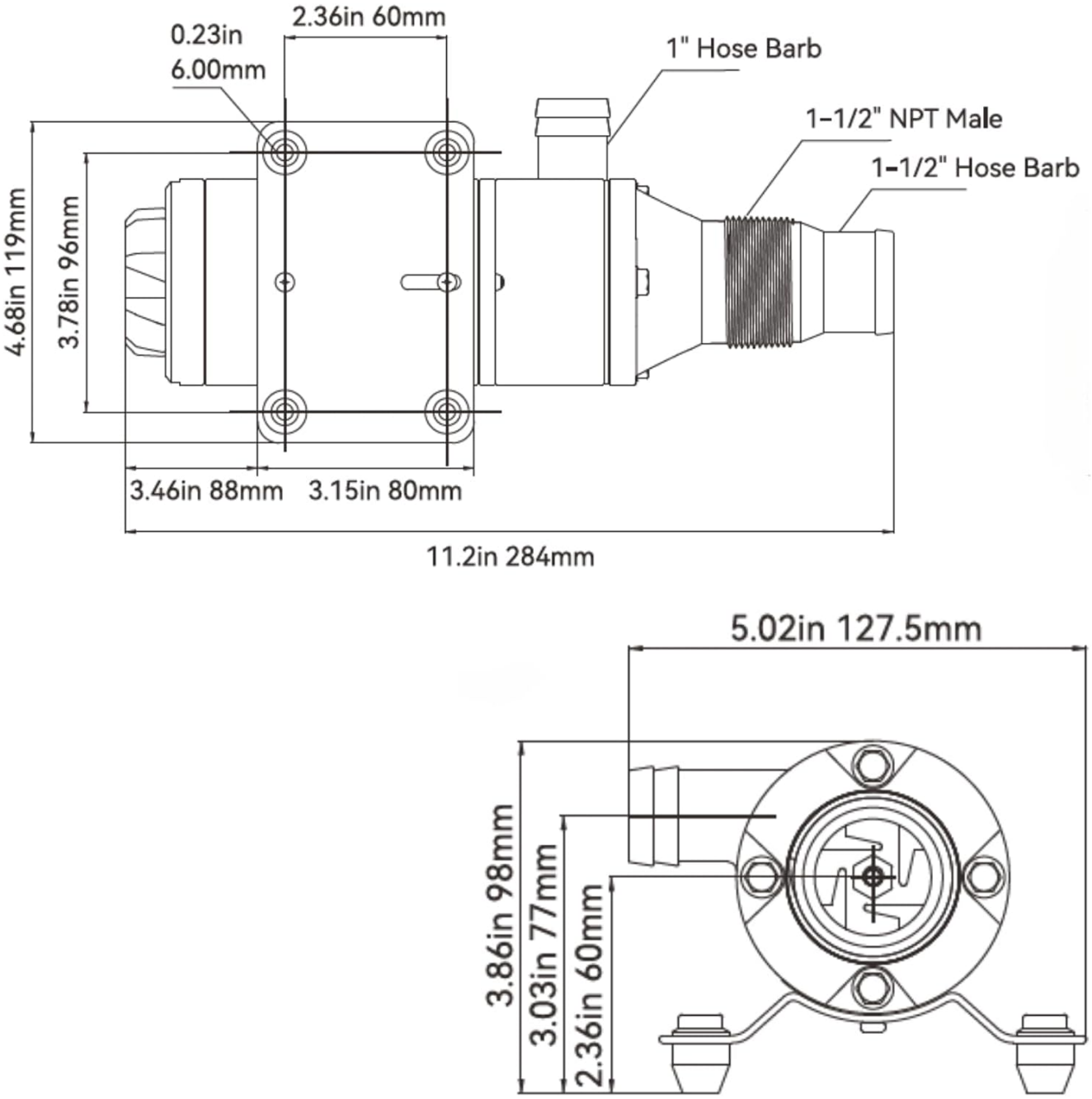
4. Specifications



Detailed specifications for the SEAFLO 01-Series Macerator Pump.

Specification	Value
Brand	SEAFLO
Model Number	SFMP1-120-01
Voltage	12 Volts (DC)
Maximum Flow Rate	12 Gallons Per Minute (45 LPM)
Maximum Lifting Height	5 Feet
Inlet	1 1/2" MNPT / 1 1/2" Hose Barb
Discharge	1" Hose Barb
Material	Acrylonitrile Butadiene Styrene (ABS)
Product Dimensions (L x W x H)	11.2" x 5.02" x 3.86"

Item Weight	4.55 Pounds



A detailed diagram illustrating the product dimensions and connection points for installation planning.

5. Setup

Proper installation is crucial for the performance and longevity of your macerator pump. Follow these general guidelines:

1. **Mounting:** Securely mount the pump in a dry, well-ventilated area, as close as possible to the holding tank. Ensure the mounting surface is stable and can support the pump's weight and vibration during operation.
2. **Plumbing Connections:**
    - Connect the 1-1/2" inlet to your holding tank or toilet discharge.
    - Connect the 1" hose barb outlet to your discharge line. Ensure all connections are tight and leak-free using appropriate clamps and sealants.
3. **Electrical Wiring:**

- Connect the pump to a 12V DC power source. Refer to the pump's label for specific amperage requirements (Max. Amps: 12A).
- Install an appropriately sized fuse (e.g., 20A) in the positive power line, as close to the power source as possible.
- Ensure correct polarity: Red wire to positive (+), Black wire to negative (-).
- Use marine-grade wiring and connectors suitable for the environment.



View of the 1-1/2 inch MNPT inlet and 1 inch hose barb outlet, designed for standard plumbing connections.

6. Operating Instructions

The SEAFLO Macerator Pump is designed for efficient and quick waste disposal. To operate:

1. Ensure all plumbing connections are secure and the power supply is connected.
2. Activate the pump via its dedicated switch. The pump will begin to draw waste from the holding tank and discharge it.
3. Monitor the discharge process. The pump has a flow rate of 12 GPM, capable of emptying a 30-gallon holding tank in approximately 3 minutes.

4. Once the tank is empty, or the desired level is reached, deactivate the pump. Avoid running the pump dry for extended periods.



The high-performance maceration system is capable of emptying a 30-gallon holding tank in less than 3 minutes.

7. Maintenance

Regular maintenance ensures optimal performance and extends the life of your macerator pump:

- **Routine Checks:** Periodically inspect all hoses, connections, and wiring for signs of wear, leaks, or corrosion. Tighten any loose connections.
- **Flushing:** After emptying the holding tank, it is recommended to flush the pump with fresh water to clean out any remaining debris and prevent buildup.
- **Anti-Clog Knob:** If the pump experiences a jam, use the anti-clog knob located at the end of the motor shaft. Turn the knob manually to dislodge any obstructions. This feature allows for clearing clogs without disassembling the pump or hoses.
- **Winterization:** In colder climates, ensure the pump and plumbing lines are properly drained or winterized to prevent freezing and damage.

8. Troubleshooting

If you encounter issues with your SEAFLO Macerator Pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not run	No power; Blown fuse; Loose wiring; Motor failure	Check power supply; Replace fuse; Secure connections; Contact support if motor is faulty.
Low flow or no discharge	Clogged inlet/outlet; Air leak in suction line; Holding tank empty	Clear clogs using anti-clog knob or by inspecting lines; Check for air leaks; Ensure tank has fluid.
Pump runs but does not prime	Air leak in suction line; Insufficient fluid in tank; Excessive vertical lift	Check all suction connections for leaks; Ensure adequate fluid; Verify pump is within 5 ft vertical lift.
Unusual noise or vibration	Debris in pump; Loose mounting; Worn bearings	Clear debris (use anti-clog knob); Tighten mounting bolts; Contact support for internal issues.

9. Warranty and Support

SEAFLO products are manufactured to high-quality standards and are backed by a 4-year warranty against defects in materials and workmanship. For warranty claims, technical support, or replacement parts, please contact SEAFLO customer service directly. Ensure you have your model number (SFMP1-120-01) and purchase information available when contacting support.
For more information, visit the official SEAFLO website or contact your local distributor.

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

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