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> [LIGHTEU Seaflo 51-Series Washdown Pump Kit User Manual](#)

## LIGHTEU 51S Washdown Pump Kit (LT-055-070-51)

# LIGHTEU Seaflo 51-Series Washdown Pump Kit

## USER MANUAL

Brand: LIGHTEU | Model: 51S Washdown Pump Kit (LT-055-070-51)

### Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your LIGHTEU Seaflo 51-Series Washdown Pump Kit. Please read this manual thoroughly before use and retain it for future reference.

**Important Safety Notice:** Always disconnect power before performing any maintenance or installation. Ensure all electrical connections are secure and protected from water ingress. This pump is not waterproof and should not be submerged or exposed to direct water splashing on the motor housing.

### Product Overview and Components

The Seaflo 51-Series Washdown Kit is designed for heavy-duty cleaning applications in marine, RV, and caravan environments. It features a robust pump capable of delivering high flow and pressure for effective washdown tasks.



Figure 1: Complete LIGHTEU Seaflo 51-Series Washdown Pump Kit, including the pump, coiled hose, spray nozzle, and various fittings.

The kit typically includes the following main components:

- **Seafo 51-Series Pump:** A 12V DC diaphragm pump with a 5-chamber design.
- **Washdown Hose:** A 6.5-meter (approximately 21.3 feet) coiled spiral hose.
- **Sprayer Nozzle:** An adjustable spray nozzle for various cleaning tasks.
- **Strainer:** A 50 mesh strainer to protect the pump from debris.
- **Fittings and Adapters:** Includes 2x 14MNPT-13mm straight hose barb fittings and an adapter from hose to nozzle.

## Specifications

Feature	Detail
Pump Type	5-Chamber Positive Displacement Diaphragm Pump
Voltage	12V DC
Max Flow Rate	19.7 L/min (5.2 GPM)
Max Pressure	4.8 bar (70 PSI)
Current Draw	17 Amps
Recommended Fuse	25 Amps
Wire Gauge	14 AWG
Priming Distance	2 meters (6 feet)
Hose Length	6.5 meters (approx. 21.3 feet)
Weight	4 Kilograms
Pump Head Material	Nylon
Valves/Seals Material	EPDM
Diaphragm Material	Santoprene

## Setup and Installation

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

1. **Mounting:** Secure the pump using its industry-standard mounting pattern in a dry, well-ventilated area. Ensure the motor housing is protected from direct water exposure.
2. **Water Inlet:** Connect the water source to the pump's inlet. Always install the provided 50 mesh strainer on the inlet side to prevent debris from entering the pump.
3. **Water Outlet:** Connect the washdown hose to the pump's outlet using the provided fittings. Attach the sprayer nozzle to the other end of the hose.
4. **Electrical Connections:** Connect the pump to a 12V DC power source. Ensure the wire gauge (14 AWG recommended) and fuse (25 Amps recommended) are appropriate for the pump's current draw. Observe correct polarity. The pump has a lead length of 1.5m.
5. **Priming:** The pump is self-priming up to 2 meters (6 feet). Ensure the inlet hose is filled with water before initial operation to aid in faster priming.



Figure 2: The Seaflo 51-Series pump unit, showing the inlet and outlet connections.

## Operating Instructions

The Seaflo 51-Series pump is designed for automatic operation controlled by a pressure switch. It is suitable for both freshwater and saltwater applications.

1. **Power On:** Once installed and connected, apply 12V DC power to the pump. The pump will briefly run to build pressure.
2. **Automatic Operation:** The pump will automatically start when the pressure drops (e.g., when you open the sprayer nozzle) and stop when the pressure reaches 70 PSI (e.g., when you close the nozzle).
3. **Run Dry Capability:** The pump is capable of running dry for normal workloads without damage. However, prolonged dry running should be avoided.
4. **Applications:** This pump is ideal for cleaning boats, fish boxes, anchor wells, inflatable boats, and other similar washdown tasks. The spray gun has a range of up to 10 meters (32.81 feet).

**Caution:** This pump is not designed for use with thick liquids such as oil or fructose. Use only with water.

## Maintenance

Regular maintenance will ensure the longevity and optimal performance of your pump kit.

- **Strainer Cleaning:** Periodically inspect and clean the 50 mesh strainer to ensure unrestricted water flow and prevent debris from entering the pump.
- **Connections:** Check all hose and electrical connections regularly for tightness and signs of wear or corrosion.
- **Winterization:** In freezing conditions, ensure the pump and hoses are drained to prevent damage from ice expansion.
- **Motor Protection:** The motor is covered with an anti-corrosion varnish. Keep the motor housing clean and dry.

## Troubleshooting

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

<b>Problem</b>	<b>Possible Cause / Solution</b>
Pump does not turn on.	Check power supply, fuse, and electrical connections. Ensure correct polarity.
Low flow or pressure.	Check for clogged strainer, kinks in the hose, or air in the system. Ensure adequate water supply.
Pump runs continuously or cycles rapidly.	Check for leaks in the system (hoses, fittings, nozzle). Ensure the nozzle is fully closed when not in use.
Water present in a new pump.	This is normal. Each pump undergoes quality control testing at the factory, which may leave residual water.
Pump motor overheats.	Ensure proper ventilation around the pump. Avoid prolonged continuous operation; this pump is designed for intermittent duty.

## Warranty and Support

For any issues not covered in this manual or for technical support, please contact LIGHTEU customer service. While specific spare parts availability information is not provided, the manufacturer can assist with product-related inquiries.

Please refer to your purchase documentation for specific warranty terms and conditions.