

## Aramox SFDHP-G720-01

# Aramox SFDHP-G720-01 Manual Diaphragm Hand Bilge Pump Instruction Manual

Model: SFDHP-G720-01

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Aramox SFDHP-G720-01 Manual Diaphragm Hand Bilge Pump. This pump is designed for marine applications, serving as a reliable backup bilge pump or for use in situations where electronic pumps are not feasible. Please read these instructions thoroughly before use to ensure safe and efficient operation.

## 2. SAFETY INFORMATION

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- Always ensure the pump is securely mounted before operation to prevent injury or damage.
- Do not attempt to pump flammable liquids or corrosive chemicals. This pump is designed for water only.
- Keep hands and loose clothing clear of moving parts during operation.
- Regularly inspect hoses and connections for leaks or damage.
- Wear appropriate personal protective equipment (PPE) if necessary during installation or maintenance.

## 3. PRODUCT OVERVIEW

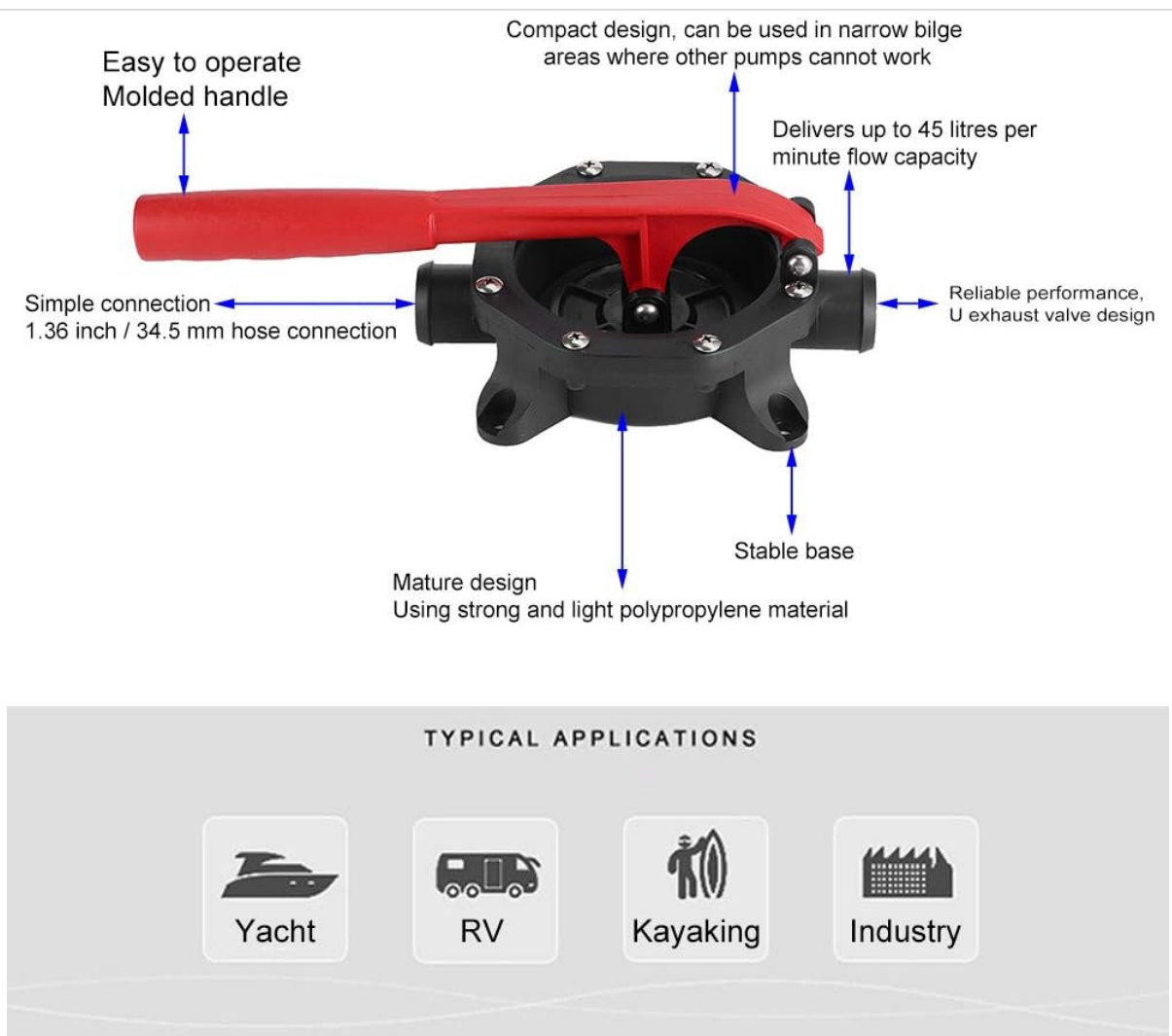
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The Aramox SFDHP-G720-01 is a compact, manual self-priming diaphragm pump constructed from durable ABS and stainless steel. It features a fixed handle with a comfortable rubber grip for ease of use. Its design allows for operation in narrow bilge areas where other pumps may not fit.



- Compact, manual self-priming pump
- Fixed handle with rubber hand grip

**Figure 3.1:** Overview of the manual diaphragm pump with key features highlighted, including the molded handle, simple hose connection, and stable base.



**Figure 3.2:** Detailed view of the pump showing dimensions and typical applications such as yachts, RVs, kayaking, and industrial use.

## 4. SETUP AND INSTALLATION

The pump is designed for straightforward installation. Mounting screws are not included and must be sourced separately based on your specific mounting surface.

### 4.1 Mounting the Pump

1. **Select Location:** Choose a stable, accessible location in your vessel, preferably in a narrow bilge area, ensuring sufficient space for handle operation and hose routing.
2. **Mark Mounting Points:** Use the pump's base as a template to mark the positions for drilling mounting holes.
3. **Drill Holes:** Drill pilot holes appropriate for your chosen mounting screws.
4. **Secure Pump:** Fasten the pump securely to the surface using corrosion-resistant screws.

### 4.2 Hose Connection

The pump features hose inlet and outlet connections with an outer diameter of approximately 1.36 inches (34.5 mm).

1. **Connect Inlet Hose:** Attach a suitable inlet hose to the designated inlet port. Ensure the hose extends to the lowest point where water collects.
2. **Connect Outlet Hose:** Attach an outlet hose to the designated outlet port. Route this hose to discharge

water overboard or into a suitable container, ensuring it is above the waterline.

3. **Secure Connections:** Use marine-grade hose clamps on all connections to prevent leaks and ensure a tight seal.



Figure 4.1: Technical diagram illustrating the pump's dimensions, including inlet and outlet hose diameters, and overall body size.

## 5. OPERATING INSTRUCTIONS

The Aramox SFDHP-G720-01 is a manual pump, requiring physical effort to operate.

1. **Prime the Pump (if necessary):** Due to its self-priming nature, manual priming is often not required. However, if the pump struggles to draw water, ensure the inlet hose is fully submerged and free of air pockets.
2. **Operate the Handle:** Grasp the fixed handle firmly. Move the handle back and forth in a steady, rhythmic motion. This action creates suction and discharge, moving water through the pump.
3. **Monitor Flow:** Continue pumping until the desired amount of water has been removed. The pump delivers up to 12 gallons per minute (45 liters per minute) capacity.
4. **Post-Operation:** After use, ensure the pump and hoses are clear of debris.



Figure 5.1: Example of the manual bilge pump installed and ready for operation on a boat.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your pump.

- **Routine Inspection:** Periodically check the pump body, handle, hoses, and connections for any signs of wear, cracks, or leaks.
- **Clear Debris:** Ensure the inlet and outlet ports are free from debris that could obstruct flow.
- **Diaphragm Access:** The pump features an easy-to-remove clamp ring for maintenance and head rotation. If flow reduces or the pump fails to prime, inspect the diaphragm for damage or blockages.
- **Cleaning:** Clean the exterior of the pump with fresh water and a mild detergent as needed. Avoid harsh chemicals.



**Figure 6.1:** Close-up view of the pump's internal diaphragm mechanism, accessible for inspection and maintenance.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pump does not prime or has low flow.	Air leak in inlet hose or connections; clogged inlet/outlet; damaged diaphragm.	Check all hose connections for tightness. Inspect inlet for blockages. Remove clamp ring and inspect diaphragm for tears or debris.
Water leaks from pump body.	Loose clamp ring; damaged O-ring or gasket; cracked pump housing.	Tighten clamp ring. Inspect and replace O-rings/gaskets if worn. If housing is cracked, pump may need replacement.
Handle is stiff or difficult to operate.	Internal friction; debris in mechanism.	Disassemble (if comfortable) and clean internal components. Lubricate moving parts with marine-grade lubricant.

## 8. SPECIFICATIONS

Feature	Specification
Model	SFDHP-G720-01
Material	ABS + Stainless Steel (Handle: ABS + Rubber)
Flow Rate	720 GPH (Gallons Per Hour) / 12 GPM (Gallons Per Minute) / 2724 LPH (Liters Per Hour)
Hose Inlet/Outlet OD	Approx. 1.36 inches (34.5 mm)
Maximum Suction Lift	Approx. 10 feet (3 meters)
Maximum Discharge Head	Approx. 13 feet (4 meters)
Body Size	Approx. 5.5 x 7 inches (140mm x 180mm)
Overall Length	Approx. 10.6 inches (270mm)
Hand Grip Size	Approx. 4.5 x 1 inch (115mm x 25mm)
Item Weight	Approx. 0.1 Kilograms (3.52 ounces)
Power Source	Manual

## 9. WARRANTY AND SUPPORT

Aramox offers a 12-month warranty for this product, ensuring a worry-free experience. If you encounter any issues or require technical assistance, please refer to the retailer or manufacturer's official support channels for professional help. Keep your purchase receipt as proof of purchase for warranty claims.