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Zuomeng HY-084

Zuomeng 12V Automatic Shower Sump Pump Box Model HY-084 User Manual

Model: HY-084

1. Product Overview

The Zuomeng 12V Automatic Shower Sump Pump Box (Model HY-084) is designed for efficient wastewater discharge in marine and RV environments. It features a high-flow capacity and automatic operation to manage shower and other wastewater.

Key Features:

- **Strong Drainage Performance:** Delivers up to 750 GPH high flow capacity with a maximum 10 ft lift height.
- **Automatic Operation:** Built-in float switch detects water level and automatically activates/deactivates the pump.
- **Easy Maintenance:** Transparent snap-on lid for inspection, threaded inline strainer for debris capture, and a built-in check valve to prevent backflow and odors.
- **Flexible Connection:** Includes three removable adapters (3/4", 1", and 1-1/8") and a dual inlet design for connecting multiple drain sources.
- **Durable Construction:** Made from heavy-duty ABS material, corrosion-resistant, and anti-aging for harsh environments.



Image 1.1: The Zuomeng shower sump pump box efficiently discharges shower water overboard from a vessel. This image illustrates the pump's primary function in a marine setting.

2. Safety Information

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- Always disconnect power before installing, servicing, or performing any maintenance on the pump.
- Ensure all electrical connections are properly sealed and protected from water ingress, especially in marine environments.
- Use appropriate wire gauges for 12V DC power connections as specified in electrical standards.
- Do not operate the pump dry. Ensure there is water in the sump box before activation to prevent damage.

- Keep hands and foreign objects clear of the pump inlet and outlet during operation.
- Install the pump in a location that allows for proper ventilation and access for maintenance.

3. Setup and Installation

3.1 Included Components

- Shower Sump Pump Box
- Threaded Strainer
- 3 Hose Adapters (3/4", 1", 1-1/8")

3.2 Installation Steps

1. **Mounting:** Securely mount the sump pump box in a suitable location, ensuring it is level and accessible for maintenance. Consider the routing of inlet and outlet hoses.
2. **Inlet Connections:** The pump features a dual inlet design. Connect your drain sources (e.g., shower, sink) to the inlet ports. Use the appropriate hose adapters (3/4", 1", or 1-1/8") for your hose size. Seal any unused inlet ports with the provided plugs to prevent leaks.
3. **Outlet Connection:** Connect the pump's outlet to your discharge hose, ensuring a secure, watertight connection. The outlet hose should lead to an overboard discharge point.
4. **Electrical Wiring:** Connect the pump to a 12V DC power source. Ensure proper polarity (red wire to positive, black wire to negative) and use an inline fuse for circuit protection. Consult a qualified electrician if unsure.
5. **Testing:** After installation, introduce a small amount of water into the sump box to verify the automatic float switch operation and check for any leaks at connections.



Image 3.1: This image illustrates the flexible connection options of the sump pump box, including its dual inlet design and the three different hose adapter sizes (3/4", 1", 1-1/8") provided for versatile installation.

4. Operating Instructions

The Zuomeng HY-084 shower sump pump operates automatically based on water levels detected by its built-in float switch.

Automatic Operation:

- When water in the sump box reaches a predetermined level, the float switch will activate the pump.
- The pump will run, discharging wastewater until the water level drops below the float switch's activation point.
- Once the water is discharged, the float switch will deactivate the pump, turning it off.

- No manual intervention is required for normal operation.



Image 4.1: The sump pump box is shown with its transparent lid, highlighting the internal float switch that enables automatic start and stop functionality for convenient shower drainage.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your shower sump pump box.

5.1 Cleaning the Sump Box and Strainer

1. **Disconnect Power:** Always ensure the power supply to the pump is disconnected before performing any cleaning or maintenance.

2. **Remove Lid:** Unlatch and remove the transparent snap-on lid for access to the interior.
3. **Clean Strainer:** The threaded inline strainer captures hair, soap scum, and debris. Unscrew or remove the strainer and clean it thoroughly under running water. Remove any accumulated debris.
4. **Inspect Interior:** Check the inside of the sump box for any residue or blockages. Clean as necessary.
5. **Check Valve:** Inspect the built-in check valve for proper function and ensure it is free from debris that could impede its operation.
6. **Reassemble:** Once clean, reassemble the strainer and securely fasten the transparent lid.



Image 5.1: This image highlights the design features that contribute to easy maintenance, including the transparent snap-on lid, threaded inline strainer, and equipped check valve for odor reduction.



Image 5.2: A visual comparison demonstrating the advantage of the inline filter design, which allows for easy removal of debris like hair, preventing clogs within the main sump box.

6. Troubleshooting

If you encounter issues with your Zuomeng shower sump pump, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Pump does not turn on automatically.	No power supply. Float switch stuck or obstructed. Pump motor failure.	Check 12V DC power connection and fuse. Inspect float switch for free movement; clear any obstructions. Gently tap the box to dislodge if stuck. Clean the sump box. Contact customer support if motor failure is suspected.
Pump runs but no water is discharged or flow is low.	Clogged inlet strainer or outlet hose. Air lock in the pump. Damaged impeller.	Disconnect power, remove lid, and clean the threaded inline strainer. Check outlet hose for kinks or blockages. Ensure the pump is fully submerged when operating. Briefly disconnect and reconnect power to reset. Contact customer support.
Water leaks from the sump box.	Lid not properly sealed. Unused inlet ports not plugged. Hose connections are loose.	Ensure the transparent snap-on lid is securely latched. Verify all unused inlet ports are sealed with the provided plugs. Tighten all hose connections and ensure they are properly clamped.
Unpleasant odors from the sump box.	Debris accumulation. Check valve malfunction.	Clean the sump box and strainer thoroughly. Ensure regular maintenance. Inspect the check valve for debris or damage that prevents it from closing properly.

7. Specifications

Specification	Detail
Brand	Zuomeng
Model Number	HY-084
Voltage	12 volts DC
Maximum Flow Rate	750 GPH (12.5 gpm)
Maximum Lifting Height	10 feet
Product Dimensions (L x W x H)	11.81" x 10.04" x 5.12"
Material	Heavy-duty ABS Plastic
Included Components	Sump Pump Box, Threaded Strainer, 3 Hose Adapters (3/4", 1", 1-1/8")
Specific Uses	Boat Shower Wastewater Discharge, RV Use



Image 7.1: A detailed diagram illustrating the length, width, and height dimensions of the Zuomeng shower sump pump box, along with the included hose adapters.

8. Warranty Information

The Zuomeng 12V Automatic Shower Sump Pump Box Model HY-084 comes with a**2-year manufacturer warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9. Customer Support

For further assistance, technical support, or warranty inquiries, please contact Zuomeng customer service. You may also visit the official Zuomeng store for more product information and resources:

Visit the Zuomeng Store on Amazon

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