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› SHYLIYU DC 12V Submersible Water Pump ZQB-12DC-130W Instruction Manual

SHYLIYU ZQB-12DC-130W

SHYLIYU DC 12V Submersible Water Pump (Model ZQB-12DC-130W)

Instruction Manual

1. PRODUCT OVERVIEW

The SHYLIYU DC 12V Submersible Water Pump, Model ZQB-12DC-130W, is designed for efficient water transfer in various applications such as gardening, ponds, pools, aquaculture, and low-lying flooded areas. Constructed with a stainless steel pump body and a 100% copper motor wire, this pump offers stable performance and corrosion resistance. Its simple structure facilitates easy maintenance.



Image 1.1: The SHYLIYU DC 12V Submersible Water Pump, including the pump unit, various hose adapters, and battery clamps.

Video 1.1: Demonstration of the DC Submersible Pump in operation, showing water discharge.

2. SAFETY INSTRUCTIONS

Read all safety warnings and instructions carefully before operating the pump. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power source is a stable 12V DC supply. Do not connect to AC power. Always disconnect power before handling or performing maintenance on the pump.
- **Water Safety:** This pump is designed for clean water. Avoid pumping flammable liquids, corrosive chemicals, or water containing large debris that could damage the impeller or clog the strainer.
- **Installation:** Ensure the pump is fully submerged during operation to prevent overheating. Do not run the pump dry.
- **Handling:** Do not lift the pump by its power cord. Use the integrated handle for safe transport and placement.
- **Children and Pets:** Keep children and pets away from the pump and its operating area.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- 1 x SHYLIYU DC 12V Submersible Water Pump
- 1 x Brass Outlet Connector (1 inch)
- Various Universal Connector Adapters
- 2 x Hose Clamps
- 2 x Battery Clamps (Red and Black)



Image 3.1: All items included in the pump package.

4. SPECIFICATIONS

Feature	Specification
Brand	SHYLIYU
Model Number	ZQB-12DC-130W
Voltage	12 Volts DC
Wattage	130 Watts

Maximum Flow Rate	13 Gallons Per Minute (approx. 50 Liters Per Minute)
Maximum Lift Height	26 feet (8 meters)
Outlet Diameter	1 inch
Material	Stainless Steel pump body, Copper motor wire
Product Dimensions (L x W x H)	7.09" x 5.51" x 10.24" (18cm x 14cm x 26cm)
Item Weight	5.06 pounds (2.3 Kilograms)

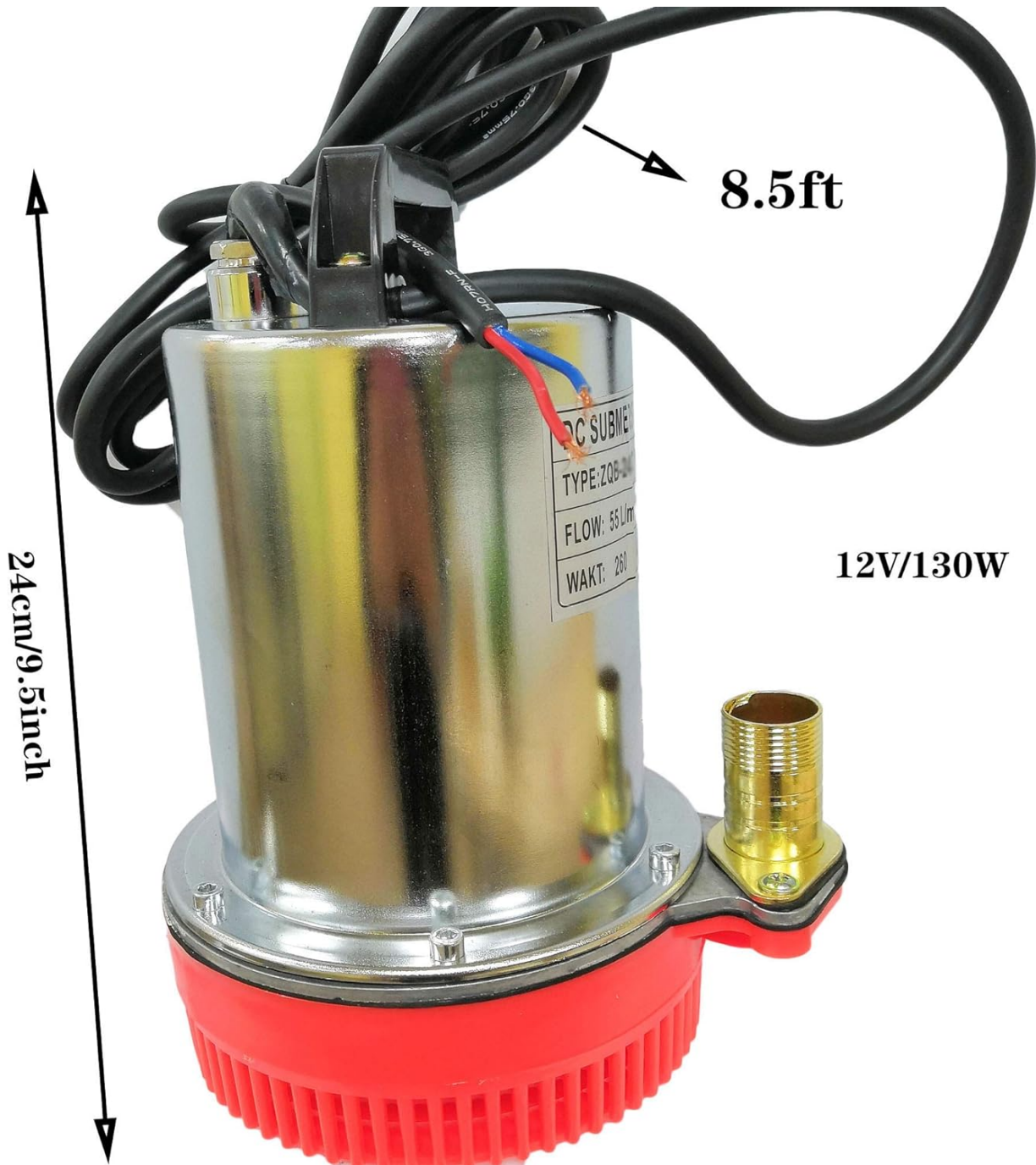


Image 4.1: Pump dimensions, approximately 9.5 inches (24 cm) in height.

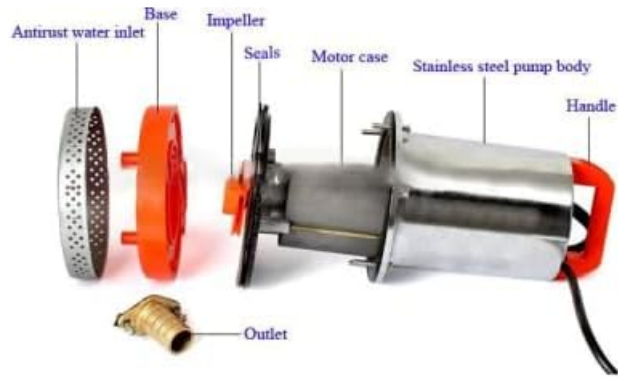


Image 4.2: Exploded view showing internal components like the motor case, impeller, seals, and base.

5. SETUP

Follow these steps for proper installation of your submersible pump:

1. **Connect Hose:** Attach a suitable hose to the 1-inch brass outlet connector. Secure it firmly with one of the provided hose clamps. If using a different hose size, utilize the universal connector adapters as needed.
2. **Position Pump:** Place the pump in the water source, ensuring it is fully submerged. The pump is designed to operate underwater.
3. **Connect Power:** Connect the red battery clamp to the positive (+) terminal of a 12V DC power source (e.g., a car battery or solar power system). Connect the black battery clamp to the negative (-) terminal. Ensure connections are secure and free from corrosion.
4. **Verify Connections:** Double-check all hose and electrical connections before activating the pump.



Image 5.1: Example setup showing the submersible pump connected to a solar panel and controller for agricultural irrigation.

6. OPERATION

Once the pump is set up and connected, operation is straightforward:

1. **Start Pump:** Apply power to the 12V DC input. The pump will begin to draw water and discharge it through the connected hose.
2. **Monitor Flow:** Observe the water flow to ensure it is consistent and free of air bubbles, which may indicate an issue with submergence or hose connection.
3. **Continuous Operation:** The pump can operate continuously as long as it remains fully submerged and the power supply is stable.
4. **Stop Pump:** Disconnect the power supply to stop the pump.

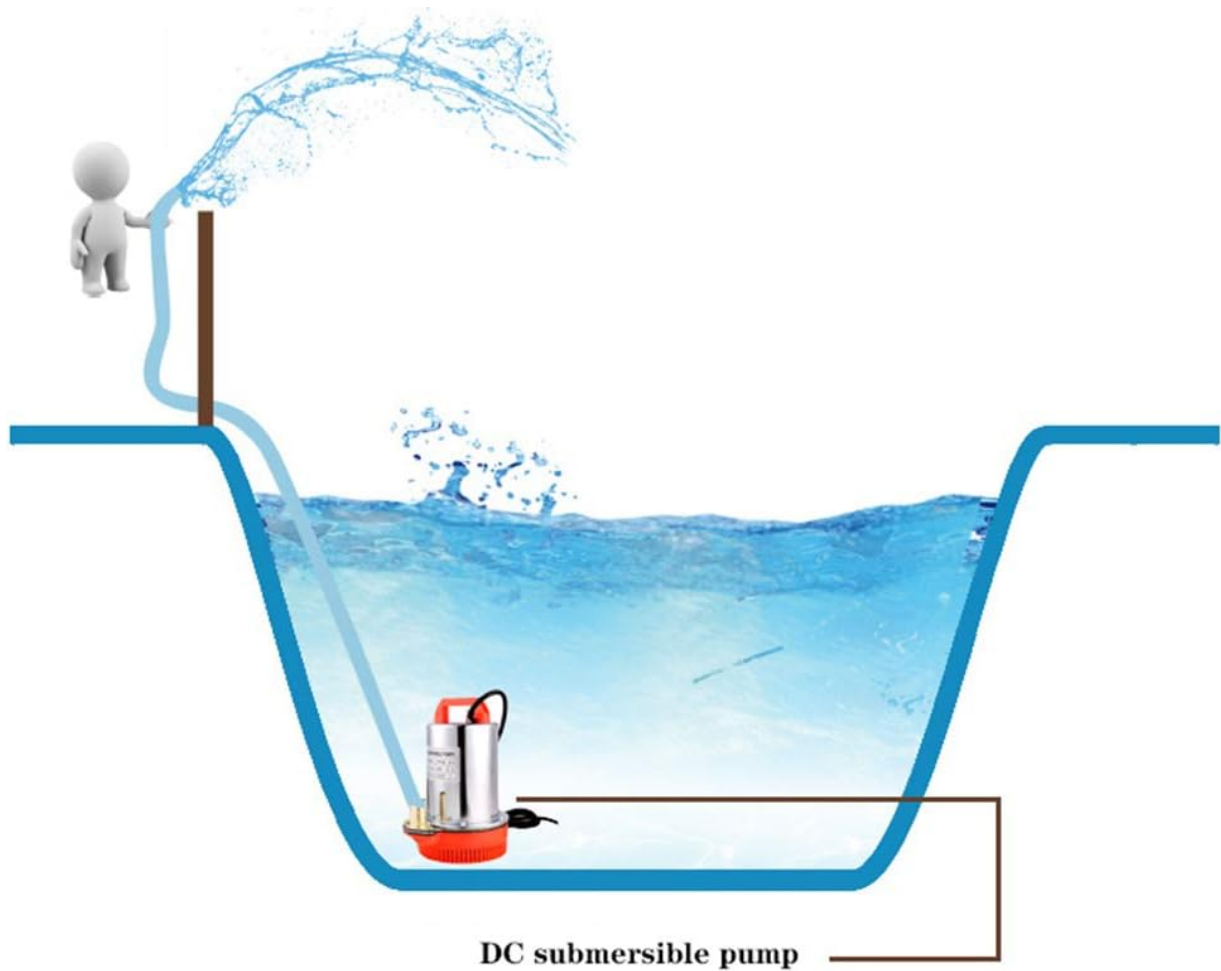


Image 6.1: The DC submersible pump actively pumping water from a pond.

7. MAINTENANCE

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

- **Clean Strainer:** Periodically inspect and clean the plastic strainer at the bottom of the pump to prevent debris from blocking water intake. Disconnect power before cleaning.
- **Check Connections:** Regularly inspect electrical connections for corrosion and hose connections for leaks.
- **Storage:** If the pump will not be used for an extended period, especially in freezing conditions, remove it from the water, clean it thoroughly, and store it in a dry, frost-free location.



Image 7.1: Detail of the brass outlet and the plastic strainer designed to prevent debris entry.

8. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Pump does not start	No power, incorrect polarity, loose electrical connection, faulty power source.	Check 12V DC power supply. Ensure battery clamps are connected correctly (red to +, black to -). Tighten connections. Test power source.
Low or no water flow	Strainer clogged, hose kinked or blocked, pump not fully submerged, air in system.	Disconnect power and clean strainer. Check hose for obstructions. Ensure pump is fully submerged. Briefly lift and re-submerge pump to release trapped air.
Pump runs but no water is discharged	Pump not primed (if applicable), water level too low, outlet blocked.	Ensure pump is fully submerged. Check for blockages in the outlet hose.
Pump makes unusual noise	Debris in impeller, pump running dry, worn components.	Disconnect power and inspect impeller for debris. Ensure pump is fully submerged. If noise persists, contact support.

9. WARRANTY AND SUPPORT

This product is manufactured to high-quality standards. For any inquiries or support needs, please contact the manufacturer directly. While specific warranty details are not provided in this manual, the manufacturer can be reached through their storefront or support email for assistance. They aim to respond within 24 hours.

