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> SHYLIYU Submersible Pumps 4" OD Pipe 220-240V/50HZ 1.5KW 2HP Stainless Steel Deep Well Pump 2" Outlet Submersible Bore Pump Deep Well Pump with Control Box for Farm Irrigation User Manual

SHYLIYU 1.5KW 2HP

SHYLIYU Submersible Deep Well Pump User Manual

Model: 1.5KW 2HP

1. IMPORTANT SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installing or operating this pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Electrical Safety:** Ensure the voltage and frequency of your power supply are compatible with the pump's requirements (220-240V 50HZ). All electrical connections must be performed by a qualified electrician and comply with local codes.
- **Dry Operation:** It is strictly prohibited to operate the pump without water. Dry running will cause severe damage to the pump.
- **Water Quality:** This pump is designed for clean water. Do not use it for pumping flammable, corrosive, or abrasive liquids.
- **Installation:** Ensure the pump is securely installed and suspended in the well. Do not allow the pump to rest on the bottom of the well, as this can lead to sediment intake and damage.
- **Maintenance:** Disconnect power before performing any maintenance or inspection.

2. PRODUCT OVERVIEW

The SHYLIYU Submersible Deep Well Pump is a robust and efficient solution for various water supply needs, including farm irrigation, domestic water supply from deep wells, and other water lifting applications.

Key Features:

- **Durable Construction:** Made from stainless steel for corrosion resistance and long-lasting performance.
- **High Performance:** Features a 1.5KW (2HP) motor with a maximum flow rate of 11.8m³/h (52 GPM) and a maximum head of 108m (354ft).
- **Integrated Design:** Combines motor and pump into a single unit for deep submersion.
- **Easy Installation:** Small footprint, designed for straightforward installation without the need for a dedicated pump room.
- **Versatile Application:** Suitable for steel pipe wells, ash pipe wells, or soil wells, and compatible with steel, hose, or

plastic water pipes.

Components:

The product package typically includes the submersible pump unit, a control box, and a power cable.



Figure 2.1: Main components of the SHYLIYU Submersible Deep Well Pump system, including the pump, control box, power cable, and pipe connector.

3. SPECIFICATIONS

Parameter	Value
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Parameter	Value
Model	1.5KW 2HP
Voltage	220-240V
Frequency	50HZ
Rated Power	1.5KW (2HP)
Max. Flow Rate	11.8 m ³ /h (52 GPM)
Max. Head	108 m (354 ft)
Outlet Diameter	2 inch
OD Pipe (Pump Diameter)	4 inch
Cable Length	20 m (66 ft)
Impeller Quantity	12 PCS
Material	Stainless Steel
Item Weight	22.2 kg



Figure 3.1: Pump label displaying detailed electrical and performance specifications.

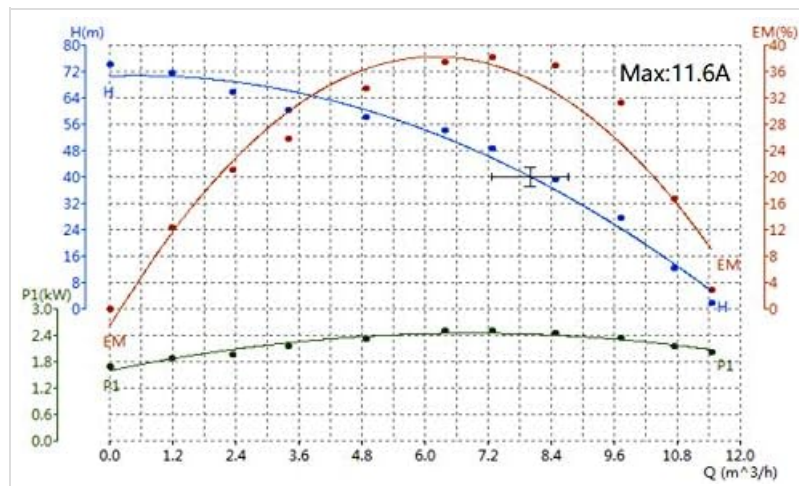


Figure 3.2: Performance curve illustrating the relationship between head, flow rate, power, and efficiency.

4. SETUP AND INSTALLATION

Proper installation is crucial for the pump's optimal performance and longevity.

1. **Well Preparation:** Ensure the well diameter is at least 4.5 inches to accommodate the pump's 4-inch OD pipe. The well should be free of excessive debris or sediment.
2. **Pipe Connection:** Connect the appropriate water pipe (steel, hose, or plastic) to the pump's 2-inch outlet. Ensure a secure, watertight connection.



Figure 4.1: Close-up view of the pump's brass outlet connection point.

3. **Suspension:** Attach a strong rope or cable to the designated eyelets on the pump. Slowly lower the pump into the well, ensuring it hangs freely and does not touch the bottom. The pump should be submerged completely in water.



Figure 4.2: The full submersible pump unit, ready for installation.

4. **Cable Management:** The pump comes with a 66ft (20m) cable. Ensure the cable is not kinked or damaged during installation. Secure it along the pipe if necessary.
5. **Control Box Placement:** Mount the control box in a dry, accessible location, protected from direct weather exposure.
6. **Electrical Connection:** Connect the pump's power cable to the control box, and then connect the control box to your main power supply. Verify all connections are tight and insulated.

5. OPERATING INSTRUCTIONS

Follow these steps to operate your SHYLIYU Submersible Deep Well Pump:

1. **Initial Check:** Before turning on the pump, ensure it is fully submerged in water and all connections are secure.
2. **Power On:** Activate the power switch on the control box. The pump should start operating and water should begin to flow.



Figure 5.1: The pump's control box, featuring the power switch and connection points.

3. **Monitor Operation:** Observe the pump's performance. Listen for unusual noises and check for consistent water flow.
4. **Power Off:** To stop the pump, switch off the power at the control box.

Important Note: Never run the pump dry. Continuous dry running will lead to overheating and permanent damage to the motor and seals.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your pump.

- **Periodic Inspection:** Periodically check the pump's performance. If you notice a significant drop in flow or unusual noises, investigate the cause.
- **Clean Intake Screen:** Over time, the pump's intake screen may accumulate debris. If accessible, periodically clean the screen to ensure unrestricted water flow.



Figure 6.1: The pump's intake screen, designed to filter out larger particles.

- **Cable and Connections:** Inspect the power cable and all electrical connections for any signs of wear, damage, or corrosion. Repair or replace as necessary.
- **Winterization (if applicable):** In regions with freezing temperatures, ensure the pump and pipes are drained or protected from freezing if not in continuous use, to prevent damage.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Pump does not start	No power; Faulty control box; Motor issue; Incorrect frequency.	Check power supply and circuit breaker. Verify control box is functioning. Ensure power frequency matches pump requirements (50HZ). Consult a qualified technician if motor issue is suspected.
Low water flow or pressure	Clogged intake screen; Pipe blockage; Low water level in well; Pump wear.	Clean intake screen. Check pipes for obstructions. Ensure adequate water level in the well. If pump is old, wear may be a factor.
Pump runs but no water	Pump not submerged; Air lock; Suction leak; Check valve issue.	Ensure pump is fully submerged. Check for air leaks in the piping. Inspect the built-in check valve.
Pump cycles on/off frequently	Pressure tank issue (if applicable); Low water level; Faulty pressure switch.	Check pressure tank air charge. Verify sufficient water in the well. Inspect or replace pressure switch.
Unusual noise from pump	Bearing wear; Impeller damage; Debris in pump.	Disconnect power immediately. Inspect for debris. If noise persists, professional inspection is recommended.

If you are unable to resolve the issue using the troubleshooting guide, please contact customer support.

8. WARRANTY AND SUPPORT

Specific warranty details for this product are not provided in this manual. Please refer to your purchase documentation or contact the seller/manufacturer directly for warranty information.

For technical support, spare parts, or further assistance, please contact SHYLIYU customer service through the retailer where you purchased the product or visit the official SHYLIYU website.