SHYLIYU 2.5SDm1.5/12-0.37KWV1

SHYLIYU Submersible Deep Well Pump Instruction Manual

Model: 2.5SDm1.5/12-0.37KWV1

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1. Introduction

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your SHYLIYU Submersible Deep Well Pump. Please read this manual thoroughly before installation and use to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

2. Safety Information

Always observe the following safety precautions to reduce the risk of electric shock, injury, or damage to the pump.

- **Electrical Safety:** Ensure the power supply voltage and frequency match the pump's specifications (110V/60Hz). Always disconnect power before performing any maintenance or installation.
- **Water Usage:** This pump is designed for clean water. Do not use it for flammable, corrosive, or explosive liquids.
- **Dry Operation:** Never operate the pump without water. Dry running will cause severe damage to the pump.
- **Cable Protection:** Protect the power cable from sharp objects, heat, and oil. Do not use the cable to lift the pump.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified electrician or pump technician.
- **Control Box:** The pump includes a control box. Ensure it is installed in a dry, protected location.

3. Product Overview

The SHYLIYU Submersible Deep Well Pump is a robust, stainless steel pump designed for efficient water extraction from deep wells, suitable for farm irrigation, domestic water supply, and other water lifting applications.

3.1 Components

- Deep Well Pump (Stainless Steel body)
- Control Box
- 10m (33ft) Flat Blue Cable
- 1-inch Outlet Connector



Figure 1: SHYLIYU Submersible Deep Well Pump, showing the pump unit, control box, and connecting cable. The pump is constructed from stainless steel, designed for deep well applications.

3.2 Pump Label Details

The pump features a label with key operational parameters. Refer to this label for specific model information.



Figure 2: Close-up of the pump's identification label. It displays critical specifications such as model type (2.5SDM1.5/12), voltage (110V), frequency (60Hz), power (0.37KW, 0.5HP), and maximum head (43m).

4. Technical Specifications

Parameter	Value
Model	2.5SDm1.5/12-0.37KWV1
Voltage	110V/60Hz
Power	0.37KW (0.5HP)
Max. Head	43m (141ft)
Max. Flow Rate	3m³/h (13 GPM)
Speed	3420 r/min
Outlet Diameter	1 inch
OD Pipe Compatibility	2.5 inch (suitable for well diameters of 3 inches and above)

Parameter	Value
Cable Length	10m (33ft)
Number of Impellers	12
Material	Stainless Steel
Product Dimensions	47.24"L x 2.56"W x 2.56"H
Item Weight	9.15 kg (20.1 lbs)

Note: Specifications are subject to change without prior notice. Always refer to the product label for the most accurate information.

5. Setup and Installation

Proper installation is crucial for the pump's performance and longevity. Follow these steps carefully.

5.1 Pre-Installation Checks

- **Well Diameter:** Ensure your well has a minimum diameter of 3 inches to accommodate the pump's 2.5-inch OD.
- **Power Supply:** Verify that the power supply (110V/60Hz) matches the pump's requirements.
- **Water Quality:** The pump is designed for clean water. Avoid installing in wells with excessive sand or debris.
- **Check Valve:** While the pump has a built-in check valve, installing an additional check valve in the discharge line (e.g., at 50ft intervals) can improve system efficiency and prevent water hammer.

5.2 Installation Steps

1. **Attach Discharge Pipe:** Connect a suitable discharge pipe (e.g., 1-inch steel pipe, hose, or plastic pipe) to the pump's 1-inch outlet. Ensure a watertight seal.
2. **Secure Safety Rope/Cable:** Attach a strong, non-corrosive safety rope or cable to the pump's lifting eye. This rope will be used to lower and retrieve the pump, not the electrical cable.
3. **Lower the Pump:** Carefully lower the pump into the well using the safety rope. Ensure the pump is suspended freely and does not touch the bottom or sides of the well. Maintain adequate clearance from the bottom to avoid drawing sediment.
4. **Route Electrical Cable:** Route the 10m (33ft) flat blue electrical cable from the pump to the control box. Ensure the cable is protected from damage.
5. **Control Box Placement:** Install the control box in a dry, easily accessible location, protected from weather and direct sunlight.
6. **Electrical Connection:** Connect the pump's electrical cable to the control box according to the wiring diagram provided with the control box. Connect the control box to your main power supply (110V/60Hz). Ensure all connections are secure and insulated.
7. **Grounding:** Ensure the pump and control box are properly grounded to prevent electrical hazards.



Figure 3: Side view of the SHYLIYU submersible pump, highlighting its stainless steel construction and compact design suitable for narrow wells.

6. Operating Instructions

Once installed, operating the pump is straightforward. Always ensure the pump is fully submerged before starting.

1. **Initial Start-up:** After installation, ensure all connections are secure and the pump is submerged. Turn on the power supply to the control box.
2. **Monitor Performance:** Observe the pump's operation. Water should begin flowing from the discharge pipe. Check for any unusual noises or vibrations.
3. **Continuous Operation:** The pump is designed for continuous operation within its specified limits. Avoid dry running.
4. **Shutting Down:** To turn off the pump, switch off the power at the control box, then at the main power supply.

Important: It is prohibited to use the pump with no water. Operating the pump dry will void the warranty and cause irreparable damage.

7. Maintenance

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

- **Regular Inspection:** Periodically check the pump's performance. Listen for unusual noises and monitor water output.
- **Cable Inspection:** Inspect the electrical cable for any signs of wear, cuts, or damage. Replace damaged cables immediately.
- **Cleanliness:** If the pump is removed from the well, clean any accumulated debris from the intake screen and pump body.
- **Winterization:** In freezing climates, ensure the pump and pipes are protected from freezing. If the pump is not in use during winter, it may need to be removed and stored in a frost-free environment.
- **Control Box:** Keep the control box clean and dry. Ensure ventilation is not obstructed.

8. Troubleshooting

This section addresses common issues you might encounter with your submersible pump.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; faulty control box; motor fault.	Check power supply and circuit breaker. Inspect control box for tripped reset button. Consult a technician if motor fault is suspected.
Pump runs but no water or low flow	Pump not submerged; clogged intake screen; air in system; pipe leakage; worn impellers.	Ensure pump is fully submerged. Clean intake screen. Check for leaks in pipes. Consult a technician for impeller inspection.
Pump cycles on and off frequently	Low water level in well; faulty pressure switch (if applicable); check valve issue.	Check well water level. Inspect pressure switch. Verify check valve function.
Excessive noise or vibration	Pump touching well casing; debris in pump; worn bearings.	Adjust pump position. Remove pump to clear debris. Consult a technician for bearing issues.

For problems not listed or if solutions do not resolve the issue, contact customer support.

9. Application

This submersible deep well pump is versatile and suitable for various applications:

- Extraction of groundwater from deep wells.
- Water lifting from rivers, reservoirs, and canals.
- Farmland irrigation.
- Water supply for human and animal use in mountainous areas.
- Draining applications in cities, factories, railways, and mines.

10. Warranty and Support

SHYLIYU products are manufactured to high-quality standards. For warranty information, please refer to the documentation included with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.
For technical support, troubleshooting assistance, or spare parts, please contact SHYLIYU customer service or your authorized dealer. When contacting support, please have your pump model number (2.5SDm1.5/12-0.37KWV1) and purchase date available.
Manufacturer: Kailaidi

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