SHYLIYU 3SDM1.8/14

SHYLIYU 0.5HP Submersible Deep Well Pump (Model 3SDM1.8/14) Instruction Manual

Your guide to safe and efficient operation

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your SHYLIYU 0.5HP Submersible Deep Well Pump, Model 3SDM1.8/14. This pump is designed for extracting groundwater from deep wells, and can also be utilized in rivers, reservoirs, and canals for water lifting. It is suitable for both industrial and home use, including farmland irrigation and water supply for human and animal consumption in mountainous areas.

The pump features a durable stainless steel body, a built-in check valve, and is designed for vertical mounting. It operates on 220-240V/50Hz power and has a 1-inch outlet, suitable for well diameters of 3.5 inches and above.

2. Safety Information

WARNING: Read all safety warnings and instructions before operating this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Ensure the power supply voltage and frequency match the pump's specifications (220-240V/50Hz).
- Never operate the pump without water. Dry running will cause severe damage to the pump.
- All electrical connections must be performed by a qualified electrician and comply with local electrical codes.
- Always disconnect power before performing any installation, maintenance, or repair work.
- Do not use the pump for flammable, corrosive, or explosive liquids.
- Keep children and unauthorized persons away from the pump's operating area.
- Ensure the pump is securely suspended in the well and cannot fall.
- Protect the power cable from sharp objects, heat, and oil.

3. Package Contents

Verify that all items listed below are present and undamaged upon unpacking:

- Submersible Deep Well Pump (Model 3SDM1.8/14)

- Control Box
- Power Cable (approximately 10m / 33ft)
- User Manual (this document)



Image 3.1: Contents of the SHYLIYU Submersible Deep Well Pump package, including the pump, control box, power cable, and a pipe connector.

4. Specifications

The following table details the technical specifications of the SHYLIYU 0.5HP Submersible Deep Well Pump:



Image 4.1: Detailed view of the pump's identification label, displaying model number, voltage, power, flow rate, and head.

Parameter	Value
Model	3SDM1.8/14
Voltage	220-240V AC
Frequency	50Hz
Rated Power	0.37KW / 0.5HP
Max. Flow Rate	3.3 m^3/h (15 GPM)
Max. Head	56m (184ft)
Outlet Diameter	1 inch

Parameter	Value
Pump OD Pipe	3 inch
Suitable Well Diameter	3.5 inches and above
Cable Length	10m (33ft)
Impeller Quantity	14 PCS
Material	Stainless Steel
Item Weight	10 kg (22 lbs)
Product Dimensions	3"L x 3"W x 29"H

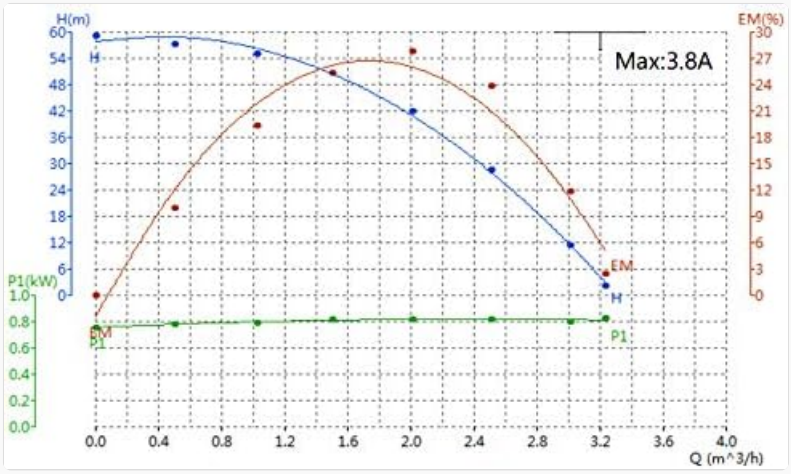


Image 4.2: Performance curve illustrating the pump's head (H), flow rate (Q), power consumption (P1), and efficiency (EM) under various operating conditions.

5. Setup and Installation

CAUTION: Ensure power is disconnected before beginning installation.

5.1 Pre-Installation Checks

1. Verify the well diameter is at least 3.5 inches to accommodate the 3-inch OD pump.
2. Inspect the pump and control box for any visible damage.
3. Confirm the power supply matches the pump's requirements (220-240V/50Hz).

5.2 Connecting the Discharge Pipe

Attach a suitable discharge pipe (steel pipe, hose, or plastic pipe) to the pump's 1-inch outlet. Ensure a tight, leak-free connection. The pump includes a built-in check valve, but an additional check valve can be installed in the discharge line if desired.



Image 5.1: The top section of the submersible pump, highlighting the brass outlet where the discharge pipe connects.



Image 5.2: A detailed view of the pump's brass outlet, showing the threaded connection for the discharge pipe.

5.3 Electrical Connection and Control Box

The pump comes with a pre-wired 10m (33ft) cable. Connect this cable to the provided control box. The control box manages the pump's power and provides overload protection. Ensure the control box is mounted in a dry, accessible location, protected from weather elements.



Image 5.3: The pump's control box, featuring power input and output connections, and a power switch.



Image 5.4: The control box with its power cord and plug, ready for connection to a suitable power outlet.

5.4 Lowering the Pump

Carefully lower the pump into the well using a strong rope or cable attached to the designated lifting points on the pump. Do not use the power cable to lower or lift the pump. Ensure the pump is suspended vertically and does not touch the bottom of the well, allowing sufficient clearance for sediment.



Image 5.5: A complete view of the SHYLIYU submersible deep well pump, showing its elongated stainless steel body and integrated power cable.

6. Operating Instructions

6.1 Initial Startup

1. Ensure all connections are secure and the pump is properly submerged.
2. Connect the control box to the appropriate power outlet.
3. Switch on the power at the control box. The pump should start operating and water should begin to flow from the discharge pipe.
4. Monitor the pump for the first few minutes to ensure proper operation and check for any unusual noises or

vibrations.

6.2 Continuous Operation

The pump is designed for continuous operation within its specified parameters. Avoid operating the pump in conditions that exceed its maximum head or flow rate. Ensure a continuous water supply to prevent dry running.

6.3 Shutting Down

To turn off the pump, simply switch off the power at the control box. For extended periods of non-use, disconnect the control box from the power outlet.

7. Maintenance

WARNING: Always disconnect power to the pump before performing any maintenance.

7.1 Regular Checks

- Periodically check the water output for any decrease in flow or pressure, which may indicate a blockage or wear.
- Inspect the power cable for any signs of damage or wear.
- Ensure the control box is clean and free from moisture.

7.2 Cleaning the Intake Screen

If the pump's performance decreases, the intake screen may be clogged with sediment or debris. Carefully lift the pump from the well and clean the intake screen. Use a brush and water to remove any obstructions.



Image 7.1: A close-up view of the pump's lower section, showing the perforated intake screen designed to filter out larger debris.

7.3 Winterization (for cold climates)

In areas prone to freezing temperatures, the pump and associated piping must be drained or removed from the well to prevent damage from freezing water. Store the pump in a dry, frost-free location.

8. Troubleshooting

This section provides solutions to common issues you might encounter with your submersible pump.

Problem	Possible Cause	Solution
Pump does not start	No power supply Control box tripped Motor fault	Check power connection and circuit breaker Reset the control box switch Contact qualified service personnel
Low water flow or pressure	Clogged intake screen Discharge pipe blockage Low water level in well Worn pump components	Clean intake screen Inspect and clear discharge pipe Wait for well to recharge or lower pump Contact qualified service personnel
Pump runs but no water	Dry running (no water in well) Air lock Damaged impeller	Ensure pump is submerged in water Cycle power to clear air lock Contact qualified service personnel
Pump cycles on and off frequently	Pressure switch issue (if applicable) Leak in discharge line Low water level	Inspect and adjust pressure switch Check for and repair leaks Monitor well water level

9. Warranty and Support

This SHYLIYU product is typically covered by a manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and duration. Extended protection plans may also be available for purchase.

For technical assistance, warranty claims, or to inquire about replacement parts, please contact SHYLIYU customer support through the retailer where the product was purchased or visit the official SHYLIYU brand store online.

Keep your purchase receipt and product model number (3SDM1.8/14) readily available when contacting support.

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