**SHYLIYU 3.5QGD1.8-50-0.5V2**

# SHYLIYU 0.5kw 0.7hp 25mm Submersible Deep Well Pump Instruction Manual

Model: 3.5QGD1.8-50-0.5V2

## 1. Introduction

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your SHYLIYU 0.5kw 0.7hp 25mm Submersible Deep Well Pump. Please read this manual thoroughly before using the pump to ensure proper function and to prevent damage or injury.

This pump is designed for water supply in various applications, including villages, households, farms, industrial settings, agriculture, and gardens. It features a durable stainless steel construction.

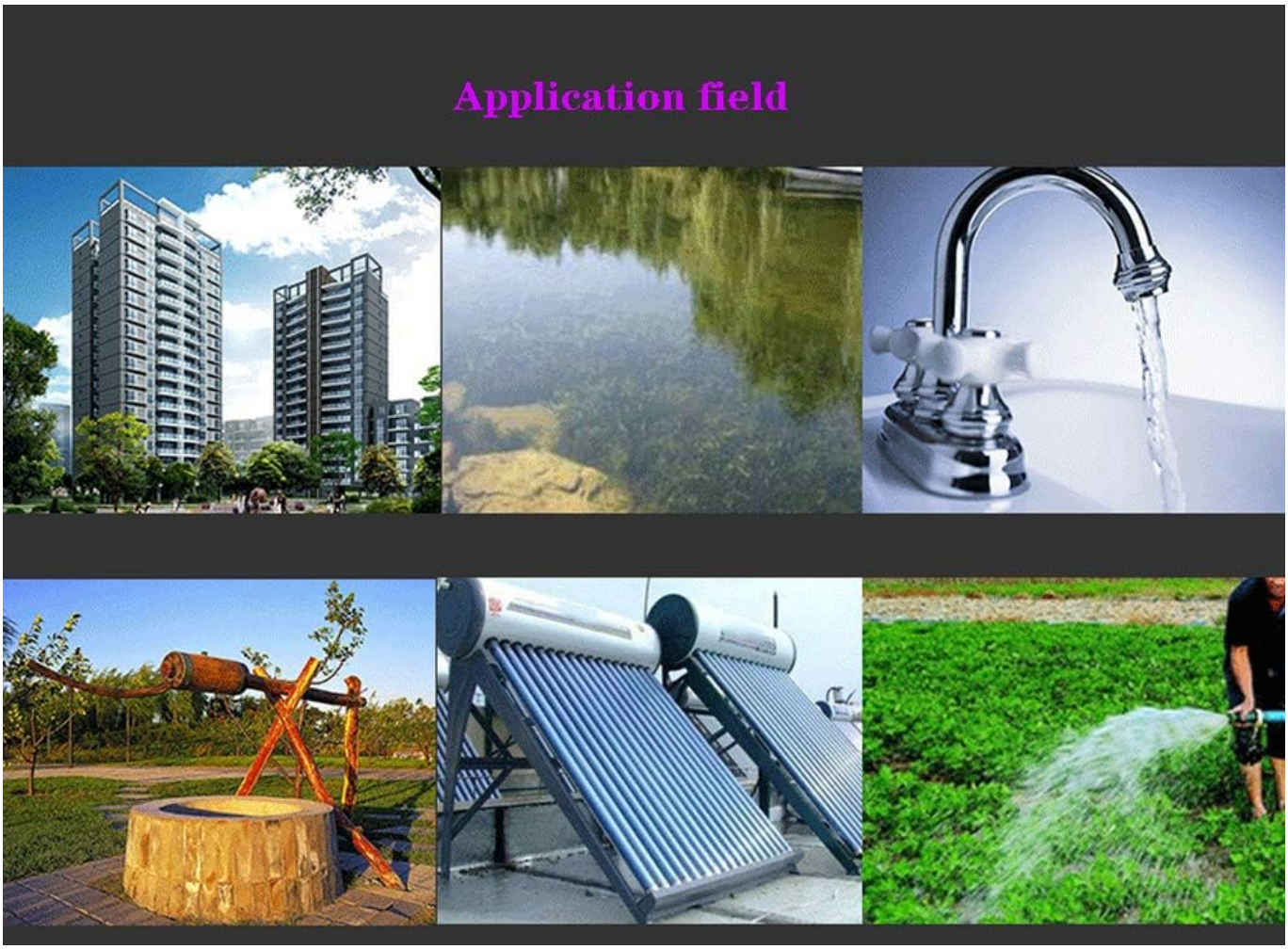



Figure 1: Typical application fields for the submersible pump.

## 2. Safety Instructions

Always observe the following safety precautions to reduce the risk of injury or damage:

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (220-240V). Always connect the pump to a properly grounded outlet. Do not operate the pump with damaged cables or plugs.
- **Water Immersion:** This pump is designed for submersible use only. Do not operate it out of water. Running the pump dry will cause severe damage and void the warranty.
- **Installation:** Ensure the pump is securely suspended and does not rest on the bottom of the well, especially in sandy conditions. Use a strong rope or cable for suspension, not the electrical cable.
- **Maintenance:** Disconnect the pump from the power supply before performing any maintenance or cleaning.
- **Children and Pets:** Keep children and pets away from the pump and its operating area.
- **Water Quality:** The pump is designed for clean water. Avoid pumping highly corrosive liquids, flammable materials, or water with excessive debris.




Figure 2: Important warning: Do not run the pump without water.

## 3. Product Overview

### 3.1. Features

- **Durable Construction:** Built with high-quality stainless steel for longevity and corrosion resistance.
- **High Performance:** 0.5kw (0.7hp) motor, capable of a maximum delivery height of 100 meters and a maximum flow rate of 1600 liters per hour.
- **Compact Design:** Pump diameter of 3.5 inches (8.89 cm) suitable for narrow wells.
- **Integrated Filtration:** Features a multiple filtration system to handle water with minor impurities like sand.




Figure 3: Multiple filtration system for improved water quality.

## 3.2. Components

The SHYLIYU submersible pump consists of the following main components:

- Pump Body (Stainless Steel)
- Motor (0.5kw / 0.7hp)
- Water Inlet
- Water Outlet (25mm / 1 inch)
- Electrical Cable
- Integrated Control Box (if applicable, check specific model)




Figure 4: SHYLIYU Submersible Deep Well Pump.

## 4. Setup and Installation

Proper installation is crucial for the pump's performance and longevity. Consult a qualified electrician or plumber if you are unsure about any steps.

### 4.1. Deep Well Installation

1. **Prepare the Well:** Ensure the well casing is clear of obstructions and the diameter is sufficient for the pump (3.5 inches / 8.89 cm).
2. **Attach Discharge Pipe:** Connect a suitable discharge pipe (25mm / 1 inch) to the pump's water outlet. Ensure a watertight seal.
3. **Secure Suspension:** Attach a strong, non-corrosive rope or stainless steel cable to the pump's lifting eyes. **Do NOT use the electrical cable for suspension.**
4. **Lower the Pump:** Carefully lower the pump into the well. Ensure it is suspended at least 1 meter (3 feet) above the bottom to avoid drawing in sediment. The pump should be fully submerged.

5. **Electrical Connection:** Route the electrical cable to a weatherproof junction box and connect it to a dedicated, grounded power supply with appropriate circuit protection.
6. **Manhole Cover:** Secure the manhole cover, ensuring the electrical cable and discharge pipe pass through without pinching.

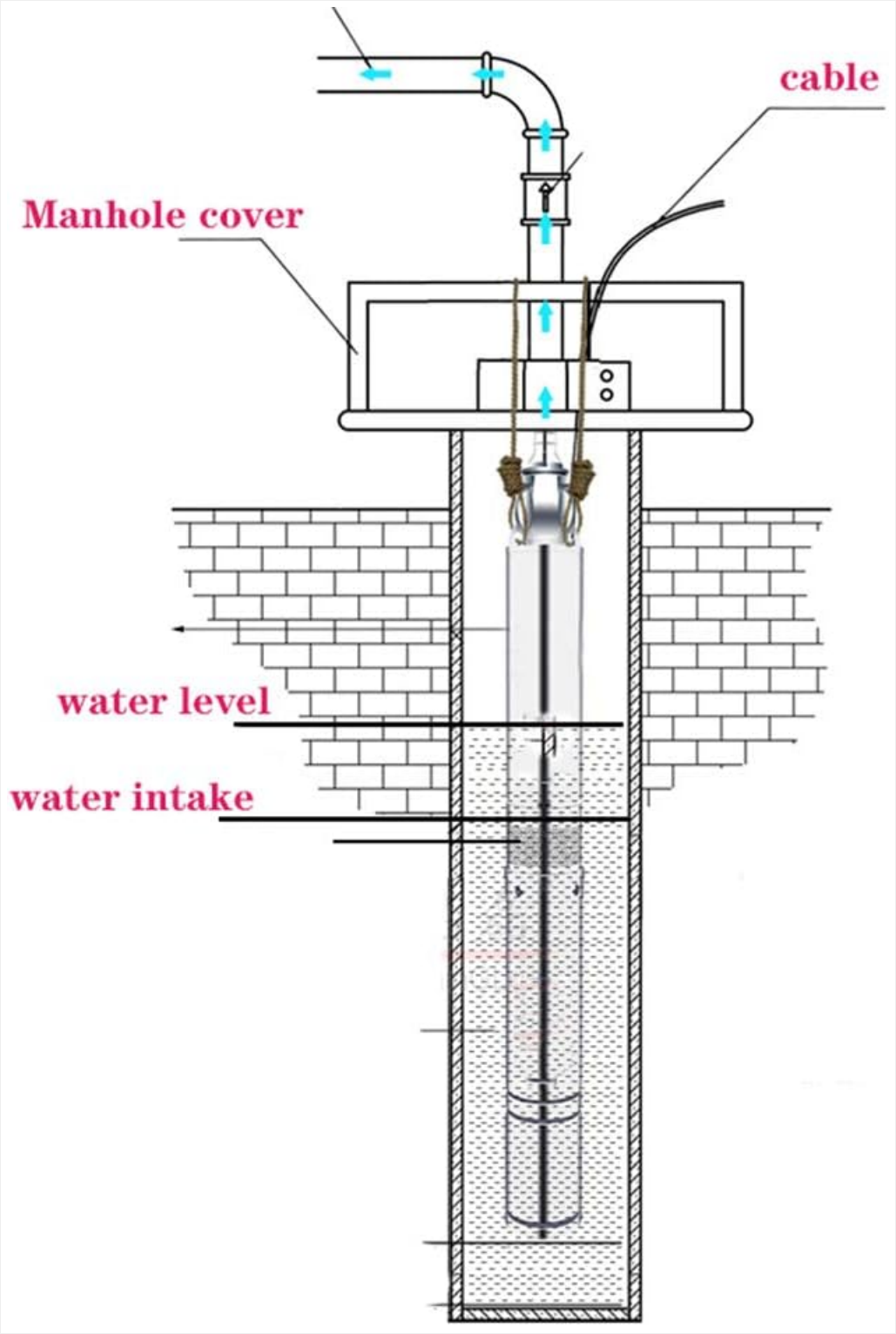



Figure 5: Deep well installation diagram.

## 4.2. Shallow Water Installation

For shallow water applications (e.g., ponds, reservoirs), ensure the pump is fully submerged and positioned horizontally or vertically, depending on the specific setup, to prevent air intake.

1. **Positioning:** Place the pump in the water, ensuring it is fully submerged and stable. Avoid placing it directly on the bottom if there is sediment.

2. **Discharge Pipe:** Connect the discharge pipe securely.
3. **Cable Management:** Route the electrical cable safely, avoiding kinks or damage.
4. **Power Connection:** Connect to a grounded power source.

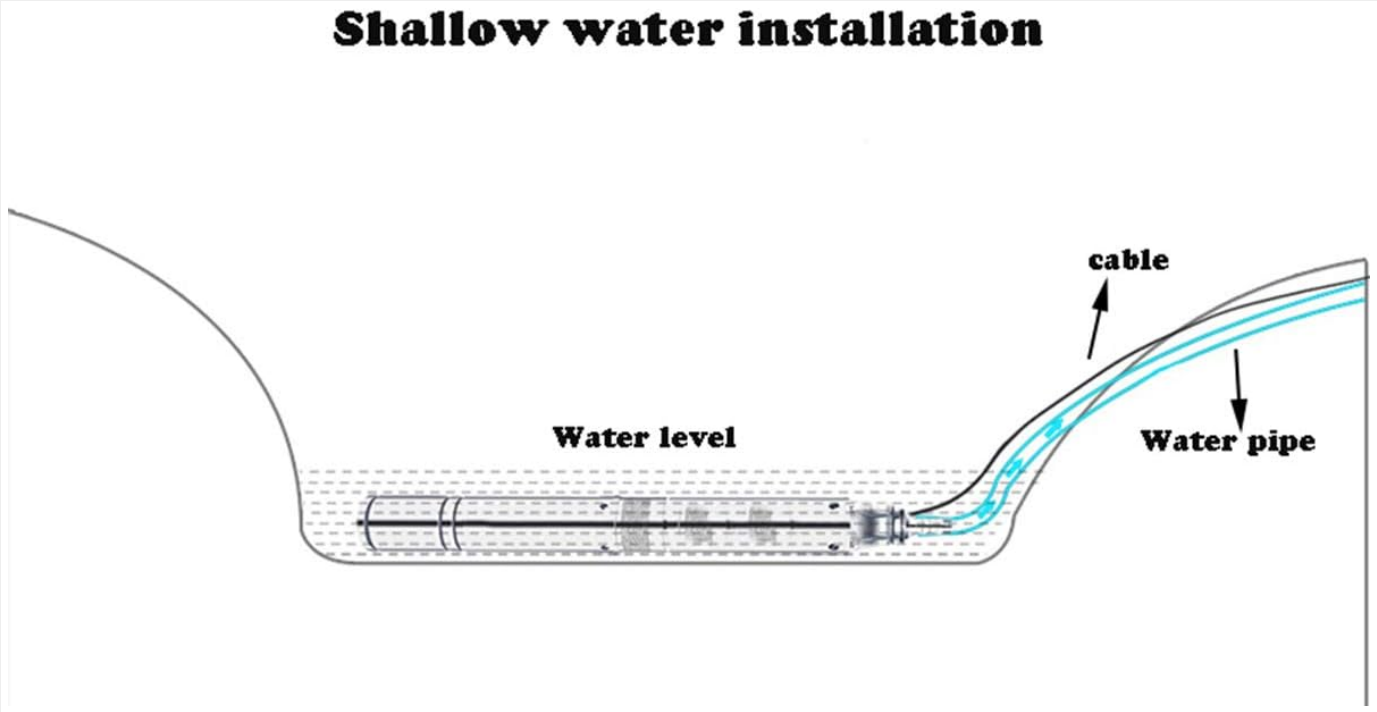



Figure 6: Shallow water installation diagram.

## 5. Operating Instructions

1. **Pre-Operation Check:** Before starting, ensure all connections are secure, the pump is fully submerged, and there are no visible damages to the cable or pump body.
2. **Starting the Pump:** Connect the pump to the power supply. The pump should start automatically. Monitor the water flow from the discharge pipe.
3. **Stopping the Pump:** Disconnect the pump from the power supply.
4. **Important Warning:** Never run the pump dry (without water). This will cause the motor to overheat and fail, leading to permanent damage and voiding the warranty.

## 6. Maintenance

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

- **Power Disconnection:** Always disconnect the pump from the power supply before any maintenance.
- **Inspect Cable and Connections:** Periodically check the electrical cable for any signs of wear, cuts, or damage. Ensure all pipe connections are tight and free of leaks.
- **Clean Inlet Screen:** If the pump's flow rate decreases, the inlet screen may be clogged with debris. Carefully remove the pump and clean the inlet screen.
- **Winterization:** In freezing climates, remove the pump from the water before the first frost. Clean it thoroughly and store it in a dry, frost-free location.

## 7. Troubleshooting

Before contacting support, review the following common issues and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Pump does not start. | No power, faulty connection, tripped circuit breaker. | Check power supply, connections, and circuit breaker. Ensure the pump is properly plugged in. |
| Pump runs but no water or low flow. | Pump not fully submerged, air lock, clogged inlet screen, discharge pipe blockage. | Ensure pump is submerged. Check for air lock and clear it. Clean inlet screen. Inspect discharge pipe for blockages. |
| Pump stops unexpectedly. | Overheating (due to dry running or excessive load), power interruption. | Disconnect power, allow pump to cool. Check water level. Verify stable power supply. **Never run dry.** |
| Unusual noise or vibration. | Debris in pump, worn bearings, improper installation. | Disconnect power and inspect for debris. If noise persists, professional service may be required. |

## 8. Specifications

| Parameter | Value |
|---|---|
| Brand | SHYLIYU |
| Model Number | 3.5QGD1.8-50-0.5V2 |
| Power | 0.5 kW / 0.7 HP |
| Voltage | 220-240 Volts |
| Max. Flow Rate | 1600 Liters per hour |
| Max. Delivery Height | 100 Meters |
| Pump Diameter | 3.5 inches / 8.89 cm |
| Water Outlet Diameter | 25 mm / 1 inch |
| Material | Stainless Steel |
| Item Weight | 8 Kilograms |
| Dimensions (L x W x H) | 11.5 x 9.3 x 59.5 cm |
| UPC | 754909760212 |




Figure 7: Pump specification label.

## 9. Warranty and Support

This SHYLIYU pump comes with a one-year warranty from the date of purchase. Please retain your proof of purchase for warranty claims.

**Warranty Exclusions:** The warranty does not cover defects or damages resulting from:

- Incorrect installation or operation.
- Running the pump dry (without water).
- Improper maintenance or neglect.
- Unauthorized repairs or modifications.
- Use with corrosive liquids or excessive debris.

- Normal wear and tear.

For technical support or warranty inquiries, please contact your retailer or the manufacturer directly. Provide your model number and purchase date when contacting support.

## Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

**Name**

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

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