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ZYIY ZYIY3.5QGD1.5HPV0

ZYIY 3.5-inch 1.5HP Deep Well Submersible Water Pump User Manual

Model: ZYIY3.5QGD1.5HPV0 | Brand: ZYIY

Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your ZYIY 3.5-inch 1.5HP Deep Well Submersible Water Pump. Please read these instructions thoroughly before installation and use to ensure proper function and longevity of the product. Keep this manual for future reference.

Important Safety Instructions

Failure to follow these safety instructions may result in electric shock, fire, serious injury, or property damage. Always observe local codes and ordinances.

- **Electrical Safety:** Ensure the power supply voltage and frequency match the pump's specifications (220-240V/60Hz). Use a properly grounded outlet. Do not operate the pump with damaged cords or plugs.
- **Dry Running: NEVER operate the pump without water.** Dry running will cause severe damage to the pump and void the warranty.
- **Installation:** The pump is designed for vertical installation. Ensure the well outlet minimum size is greater than 90mm to allow for proper clearance and water flow around the pump.
- **Water Quality:** The pump is designed for clean water. While it has a stainless steel filter, excessive impurities like sand can reduce its lifespan. For new drilling, consider adding a layer of gauze at the water inlet.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.
- **Children and Pets:** Keep children and pets away from the pump and its operating area.

Product Overview and Components

The ZYIY Deep Well Submersible Pump is constructed with a durable stainless steel body and features a 100% copper, oil-immersed motor for strong power and extended service life. It includes a stainless steel filter inlet to prevent impurities from entering the pump body and a built-in check valve.



Figure 1: Main components of the ZYIY Deep Well Submersible Pump, highlighting the water outlet, water inlet, and a critical warning against dry running.



Figure 2: Dimensional view of the ZYIY Deep Well Submersible Pump, showing its compact design and integrated 49-foot power cable.



Figure 3: Detailed view of the pump's water inlet, designed to filter out larger particles.



Figure 4: Illustration of the pump's internal filtration system, designed to protect the pump from sand and other small impurities.

Key Features:

- **Durable Construction:** High-quality 304 stainless steel body for extended service life.
- **Powerful Motor:** 1.5HP (1.1KW) 100% copper, oil-immersed motor for strong and reliable performance.
- **Efficient Filtration:** Stainless steel filter inlet effectively prevents impurities from entering.
- **Integrated Cable:** Equipped with a 49.2-foot (15m) cable for deep well applications.
- **Built-in Check Valve:** Pump body includes an unsealed check valve.
- **Compact Design:** Small footprint, easy to install and maintain without a dedicated pump house.

Technical Specifications

Specification	Value
Model	ZYIY3.5QGD1.5HPV0
Rated Power	1.1 KW (1.5 HP)
Voltage	220-240V
Frequency	60Hz
Max. Flow Rate	2.5 m^3/h (11 GPM)
Max. Head	120 m (394 ft)
Outlet Diameter	1 inch
Cable Length	15 m (49.2 ft)
Pump Head Material	304 Stainless Steel
Body Material	Stainless Steel
Item Weight	8.85 kg (19.47 lbs)

Specification	Value
Product Dimensions	23 x 3.5 x 6 inches

Note: Specifications are subject to change without notice.

Setup and Installation

Proper installation is crucial for the pump's performance and longevity. If you are unsure about any steps, consult a qualified professional.

1. **Inspect the Pump:** Before installation, carefully inspect the pump for any signs of damage during shipping. Ensure all components are present.
2. **Well Preparation:** Ensure the well casing diameter is at least 3.5 inches (90mm) to allow for proper clearance and water flow around the pump. Clean the well of any debris that could interfere with pump operation.
3. **Connect Piping:** Attach the appropriate discharge pipe (1-inch diameter recommended) to the pump's water outlet. Ensure all connections are watertight using thread sealant or tape.
4. **Secure the Pump:** Use a strong, non-corrosive rope or cable attached to the pump's lifting eyes to lower it into the well. Do not use the electrical cable to support the pump's weight.
5. **Lowering the Pump:** Carefully lower the pump into the well, ensuring it remains vertical. Position the pump at a depth where it will always be submerged, even during periods of low water level, but not resting on the bottom to avoid drawing sediment.
6. **Electrical Connection:** Connect the pump's power cable to a dedicated 220-240V/60Hz power supply with a US plug. Ensure the circuit is protected by a Ground Fault Circuit Interrupter (GFCI) for safety. Verify that the voltage and frequency match the pump's requirements.
7. **Initial Priming:** This submersible pump is self-priming once submerged. However, ensure the pump is fully immersed in water before connecting power.



Figure 5: Illustrative diagram of a submersible pump correctly installed in a well, showing its position relative to ground and water levels.

Operating Instructions

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

1. **Power On:** Connect the pump to the power supply. The pump will begin to operate, drawing water from the well.
2. **Monitor Performance:** Observe the water flow and pressure. Ensure there are no unusual noises or vibrations.

3. **Avoid Dry Running:** The pump must always be submerged in water during operation. Running the pump dry will cause irreversible damage to the motor and pump components.
4. **Continuous Operation:** The pump is designed for continuous duty, but prolonged dry running or operation in highly abrasive water will shorten its lifespan.
5. **Power Off:** Disconnect the pump from the power supply when water is no longer needed or for maintenance.

Applications:

This deep well submersible pump is suitable for a variety of applications, including:

- Pumping groundwater from deep wells.
- Water supply for domestic use in urban and rural areas.
- Agricultural irrigation.
- Industrial drainage.
- Water lifting projects from rivers, reservoirs, and canals.
- Water management in mines and factories.

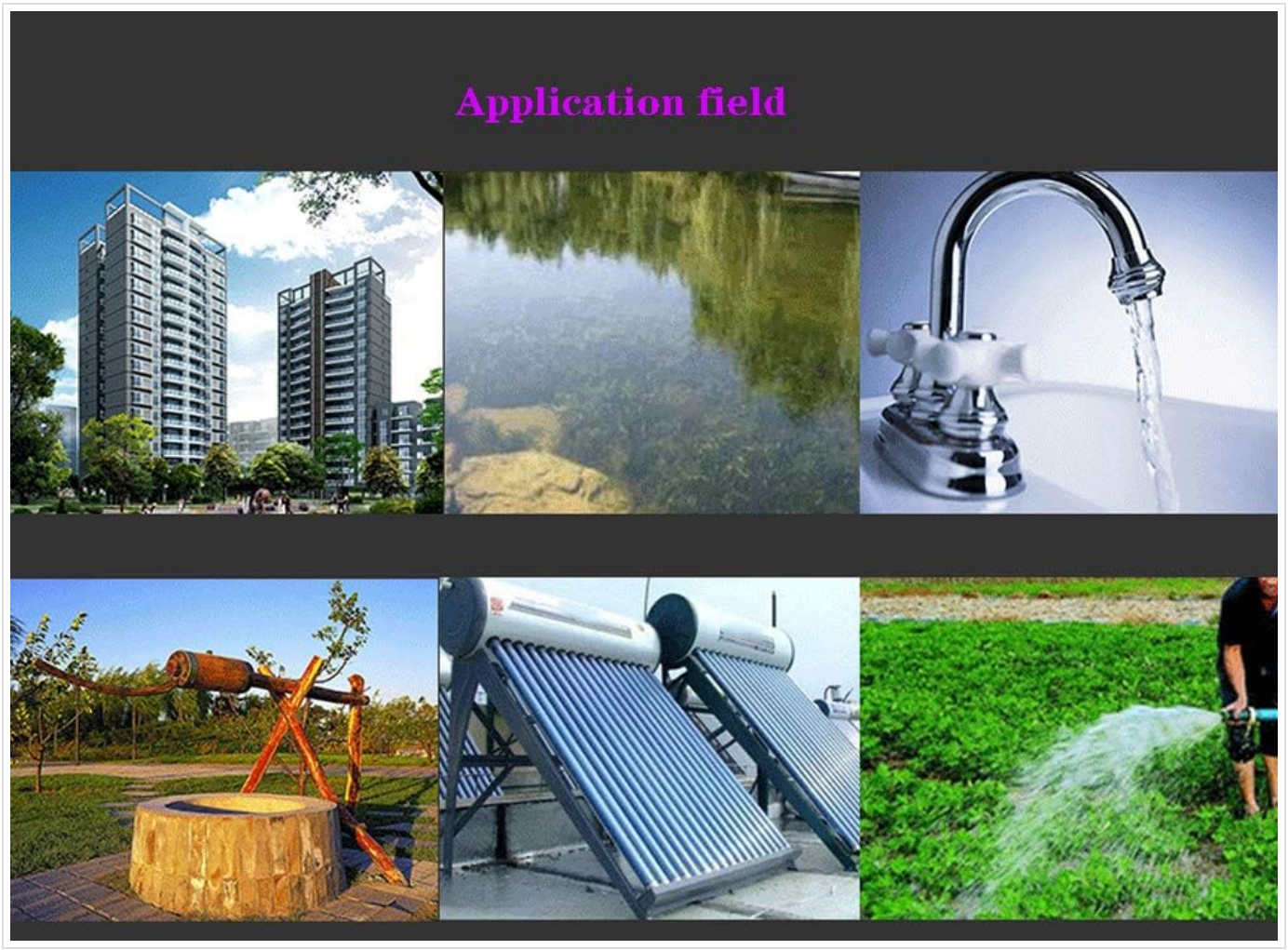


Figure 6: Examples of common applications for the ZYIY Deep Well Submersible Pump.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your pump. Always disconnect power before any maintenance.

- **Regular Inspection:** Periodically check the pump's performance. Listen for unusual noises and observe water flow.

- **Cable Inspection:** Inspect the power cable for any signs of wear, cuts, or damage. Replace if necessary.
- **Filter Cleaning:** If operating in water with higher sediment content, the stainless steel filter inlet may require occasional cleaning to maintain optimal flow. Carefully retrieve the pump and clean the inlet screen.
- **Winterization:** In regions prone to freezing temperatures, remove the pump from the well and store it in a frost-free location if it will not be used during winter. Drain all water from the pump and piping to prevent freeze damage.
- **Storage:** When storing the pump for extended periods, ensure it is clean and dry. Store in a cool, dry place.

Troubleshooting

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

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker/GFCI; faulty wiring; motor issue.	Check power supply and connections. Reset breaker/GFCI. Inspect wiring for damage. If motor issue suspected, contact support.
Pump runs but no water or low flow	Pump not fully submerged (dry running); clogged inlet filter; air in system; low water level in well; faulty check valve; pipe blockage.	Ensure pump is submerged. Clean inlet filter. Check well water level. Inspect piping for blockages.
Pump cycles on and off frequently	Low well water level; pressure tank issue (if applicable); leaky plumbing.	Check well water level. Inspect plumbing for leaks. Consult a plumber for pressure tank issues.
Unusual noise or vibration	Debris in pump; worn bearings; pump not securely suspended.	Disconnect power and carefully inspect for debris. Ensure pump is suspended correctly. If noise persists, contact support.

Warranty and Customer Support

For warranty information or technical assistance, please refer to the product packaging or contact ZYIY customer service directly. Ensure you have your model number (ZYIY3.5QGD1.5HPV0) and purchase date available when contacting support.
You can visit the official ZYIY store for more information:ZYIY Store on Amazon

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