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KOKEBREN 1HP / 950GPH (QJNGXpu26iMTTe29Yr1tDAc3)

KOKEBREN 1HP Shallow Well Pump with Pressure Tank (950 GPH) Instruction Manual

Model: 1HP / 950GPH (QJNGXpu26iMTTe29Yr1tDAc3)

1. Introduction and Safety Information

This manual provides essential instructions for the safe installation, operation, and maintenance of your KOKEBREN 1HP Shallow Well Pump with an integrated pressure tank. Please read this manual thoroughly before installation and use to ensure proper function and to prevent injury or damage.

Important Safety Warnings:

- Always disconnect power before performing any service or maintenance.
- Ensure the pump is installed on a stable, level surface.
- Do not operate the pump dry; this can cause severe damage.
- Protect the pump from freezing temperatures. The unit is designed for operational temperatures down to -20°F (-29°C), but proper winterization is crucial for non-operational periods.
- All electrical connections must comply with local codes and be performed by a qualified electrician.
- Use only approved plumbing materials and ensure all connections are watertight.

2. Product Overview and Features

The KOKEBREN 1HP Shallow Well Pump is designed for various water transfer applications, including lawn irrigation, pond aeration, and agricultural spraying. It features a robust design with a 1HP motor, a flow rate of 950 GPH, and an integrated stainless steel pressure tank.

Key Features:

- **1HP Motor with 950 GPH Flow Rate:** Certified by UL 778 for electrical safety, providing a flow rate of 950 GPH (3.6 m^3/h) at a 20 ft lift. Max head is 35 ft vertical (7.6 m).
- **Automatic Pressure Switch:** Operates at 115V/60Hz with auto-regulation pressure from 0.5-50 PSI, suitable for farm irrigation compliance.
- **316L Stainless Steel Construction:** Features a corrosion-resistant 316L SS pump body and EPDM seals (pH 4.0-9.5). The 30-gallon ANSI 316L pressure tank is rated for 150 PSI.

- **Energy Efficiency & Thermal Safety:** Equipped with an IE3 Motor (82.5% efficiency) and 746W max power. Includes auto-shutoff for dry run protection (<30s) and overheat cutoff at 158°F (70°C). Safe for up to 10% sand concentration (ISO 2531).
- **All-Season Durability:** Operational range from -20°F to 120°F (-29°C to 49°C). Features a drain plug for frost protection and a cast iron housing tested for 10,000+ cycles.
- **Easy Installation:** 1.5" NPT intake/outlet (ANSI B16.34) and a pre-assembled 15ft UL-listed power cord (18 AWG).

Product Components:

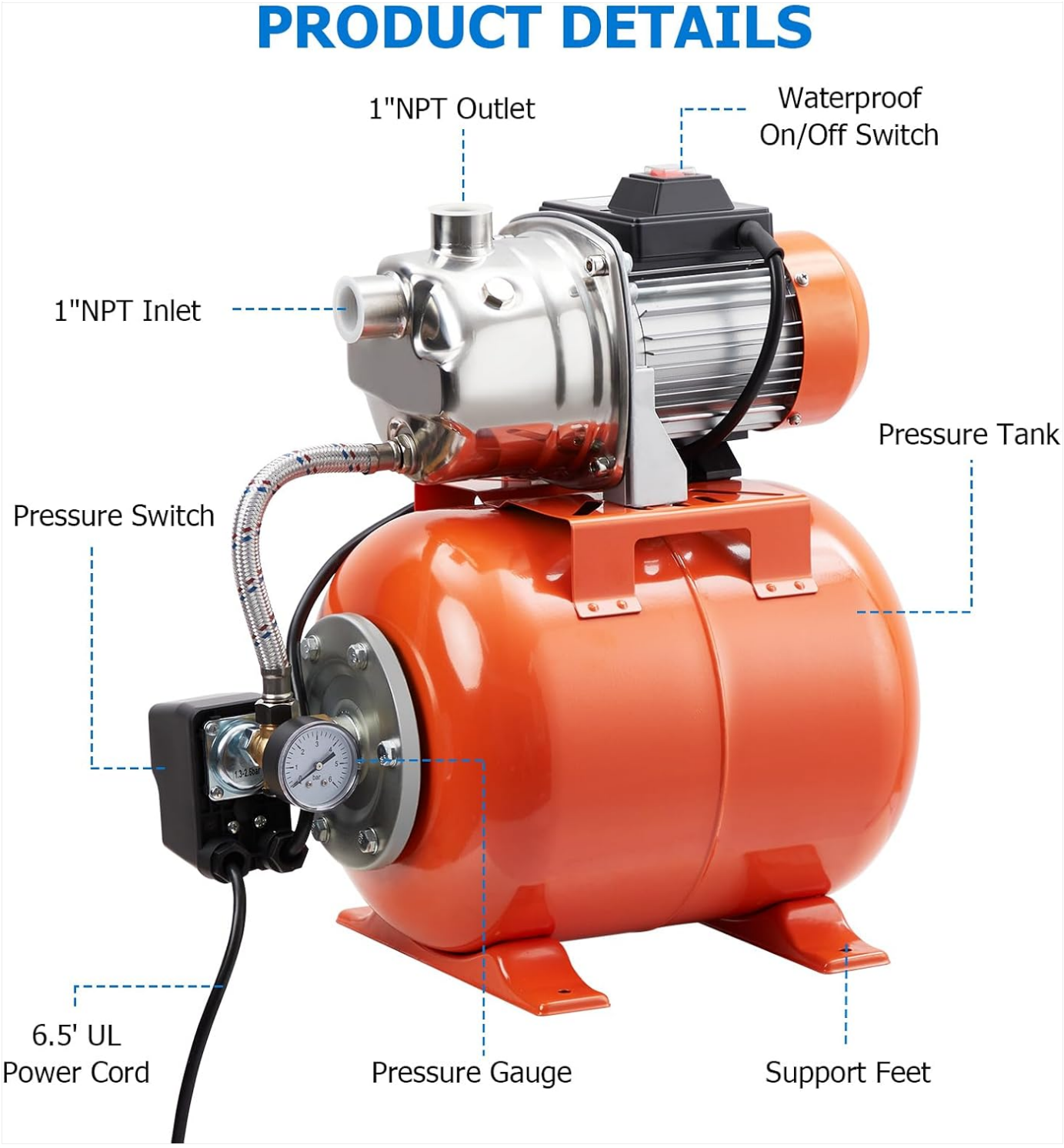


Figure 2.1: Labeled components of the KOKEBREN Shallow Well Pump. Key components include the 1" NPT Inlet, 1" NPT Outlet, Waterproof On/Off Switch, Pressure Tank, Pressure Switch, Pressure Gauge, and Support Feet.



Figure 2.2: Detailed view of the automatic pressure switch (auto on <22 psi, auto off >44 psi), the pressure gauge for real-time tank pressure monitoring, and the thermal overload protection switch.

3. Setup and Installation

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

3.1 Site Selection

- Choose a location that is dry, well-ventilated, and protected from direct sunlight and extreme weather.
- Ensure the pump is placed on a firm, level surface to minimize vibration.
- The location should allow easy access for maintenance and inspection.
- Maintain adequate clearance around the pump for air circulation.

3.2 Plumbing Connections

1. Connect the suction line (inlet) to the 1.5" NPT inlet port of the pump. Ensure the suction line is airtight to prevent air leaks,

which can cause the pump to lose prime.

2. **CAUTION:** A check valve **MUST** be installed at the inlet pipe to prevent water from flowing back into the well and to maintain prime.
3. Connect the discharge line (outlet) to the 1.5" NPT outlet port.
4. Use thread sealant tape or pipe dope on all threaded connections to ensure a watertight seal.
5. Avoid using flexible hoses on the suction side if possible, as they can collapse under vacuum.

3.3 Electrical Connections

- The pump operates on 115V/60Hz power. Ensure your power supply matches these requirements.
- The pump comes with a pre-assembled 15ft UL-listed power cord (18 AWG).
- Connect the pump to a dedicated, properly grounded electrical circuit protected by a Ground Fault Circuit Interrupter (GFCI).
- Do not use extension cords unless absolutely necessary, and if used, ensure they are rated for outdoor use and the appropriate gauge for the pump's power requirements.

3.4 Priming the Pump

Before initial operation, the pump must be primed to ensure it is filled with water.

1. Locate the priming plug on the top of the pump housing.
2. Remove the priming plug.
3. Slowly fill the pump casing with water until it overflows.
4. Replace the priming plug securely.
5. Ensure all valves on the discharge side are open to allow air to escape during priming.

4. Operating Instructions

Once installed and primed, the pump is ready for operation.

4.1 Starting the Pump

1. Ensure the pump is properly primed and all connections are secure.
2. Turn on the power supply to the pump.
3. Flip the waterproof On/Off switch to the "ON" position.
4. The pump will start and begin to build pressure. The automatic pressure switch will turn the pump off once the desired pressure is reached (typically >44 psi) and turn it back on when pressure drops (<22 psi).
5. Monitor the pressure gauge to confirm proper operation.

4.2 Applications

This pump is suitable for various applications:

- Lawn and garden irrigation
- Filling ponds or water features
- Agricultural spraying
- General water transfer from shallow wells or cisterns



Figure 4.1: The KOKEBREN Shallow Well Pump in use for sprinkler irrigation.

5. Maintenance

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

5.1 Routine Checks

- **Inspect for Leaks:** Periodically check all plumbing connections for leaks. Tighten any loose fittings.
- **Check Pressure Gauge:** Monitor the pressure gauge for consistent readings during operation.
- **Clean Intake Screen:** If applicable, regularly clean any intake screens to prevent clogging.
- **Listen for Unusual Noises:** Any unusual sounds may indicate a problem. Disconnect power and investigate.

5.2 Winterization

Although the pump has freeze protection down to -20°F (-29°C) during operation, proper winterization is essential for periods of non-use in freezing temperatures.

1. Disconnect power to the pump.
2. Drain all water from the pump casing by removing the drain plug.
3. Disconnect the suction and discharge lines.
4. Store the pump in a warm, dry location if possible. If not, ensure all water is completely drained to prevent ice formation and damage.
5. Re-install the drain plug and any other removed components after draining.

6. Troubleshooting

Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; faulty switch; motor overload.	Check power supply and connections; reset breaker; check switch; allow motor to cool if overheated (thermal overload protection).
Pump runs but no water flows	Pump not primed; air leak in suction line; clogged intake; low water level in well.	Re-prime the pump; check all suction line connections for leaks; clean intake screen; verify water source.
Low pressure or flow	Partially clogged lines; worn impeller; air in system; pressure switch setting incorrect.	Inspect and clear lines; contact service for impeller replacement; check for air leaks; verify pressure switch settings.
Pump cycles too frequently	Water leak in system; pressure tank air charge too low; faulty pressure switch.	Check for leaks in plumbing; check and adjust pressure tank air charge; inspect or replace pressure switch.
Pump is noisy	Air in pump; cavitation; loose mounting; foreign object in impeller.	Re-prime; ensure adequate water supply; tighten mounting bolts; inspect impeller for obstructions (disconnect power first).

7. Specifications

Detailed technical specifications for the KOKEBREN 1HP Shallow Well Pump.

Specification	Value
Brand	KOKEBREN
Model Number	QJNGXpu26iMTTe29Yr1tDAc3
Style	1HP / 950GPH
Motor Power	1 HP (746W max)
Voltage	115 Volts / 60 Hz
Maximum Flow Rate	950 GPH (15.83 Gallons Per Minute)
Maximum Lifting Height (Head)	35 Feet (vertical)
Maximum Suction Lift	20 Feet
Pressure Regulation	0.5-50 PSI (Auto On <22 psi, Auto Off >44 psi)
Pressure Tank Capacity	30-gallon ANSI 316L (150 PSI design)
Construction Material	316L Stainless Steel pump body, Cast Iron housing
Operating Temperature Range	-20°F to 120°F (-29°C to 49°C)
Inlet/Outlet Size	1.5" NPT
Power Cord Length	15 ft (UL-listed 18 AWG)
Product Dimensions (L x W x H)	8.43" x 5.12" x 9.37"

Specification	Value
Item Weight	0.06 Pounds (Note: This weight seems incorrect based on typical pump weights, please verify with product packaging if needed.)
Certifications	UL 778 (Electrical Safety), 3-A Sanitary Standard (for potable water applications)



Figure 7.1: Product dimensions of the KOKEBREN Shallow Well Pump.

8. Warranty and Support

KOKEBREN products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official KOKEBREN website.
Please retain your proof of purchase for any warranty claims.

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