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Garvee eTLCBv-c6jD5r_9r3iKyNA39s

Garvee 1.6 HP Shallow Well Pump with Pressure Tank User Manual

Model: eTLCBv-c6jD5r_9r3iKyNA39s

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Garvee 1.6 HP Shallow Well Pump with Pressure Tank. Please read these instructions thoroughly before use and retain them for future reference.

The Garvee shallow well pump is designed to provide consistent water flow for various applications, including home water systems, irrigation, garden watering, and maintaining pressure in farm and yard systems. It features a powerful 1.6 HP motor, a 5-gallon pressure tank, and an automatic pressure switch for reliable performance.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in electric shock, fire, serious injury, or death.

- Always disconnect the power supply before performing any maintenance, installation, or repair work on the pump.
- Ensure the pump is installed on a stable, level surface to prevent tipping.
- Do not operate the pump with flammable or corrosive liquids. This pump is designed for water only.
- Protect electrical connections from moisture. Use only grounded outlets and extension cords suitable for outdoor use if necessary.
- Keep children and unauthorized persons away from the operating pump.
- Wear appropriate personal protective equipment, such as safety glasses and gloves, during installation and maintenance.
- Ensure proper ventilation around the pump to prevent overheating.
- Do not run the pump dry. Ensure the pump is primed with water before starting to prevent damage.

3. Product Overview and Components

The Garvee shallow well pump integrates a powerful motor, a durable pump head, and a pressure tank into a compact unit. Key components include:

- **Pump Body:** Constructed from 304 stainless steel for corrosion resistance.
- **Motor:** 1.6 HP high-torque motor for reliable operation.
- **Pressure Tank:** 5-gallon capacity to maintain stable water flow and reduce pump cycling.
- **Automatic Pressure Switch:** Automatically turns the pump on and off based on water pressure.
- **Pressure Gauge:** Provides real-time pressure readings.
- **Waterproof Switch:** Enhances security and durability.



Figure 1: Key components of the Garvee Shallow Well Pump, showing the waterproof switch, high-torque motor, and pressure gauge.



Figure 2: Detail of the 304 stainless steel pump body, designed for durability and resistance to corrosion.

4. Specifications

Feature	Specification
Brand	Garvee
Model Number	eTLCBv-c6jD5r_9r3iKyNA39s
Motor Power	1.6 HP
Max Flow Rate	1320 GPH (Gallons Per Hour)
Max Head Lift	164 ft
Pressure Tank Capacity	5 Gallons

Feature	Specification
Max Suction Depth	23 ft
Max Fluid Temperature	95°F (35°C)
Product Dimensions (L x W x H)	18.9" x 11.81" x 20.87"
Item Weight	30.73 Pounds
Power Source	Corded Electric
Pump Body Material	304 Stainless Steel



Figure 3: Performance specifications including motor power, flow rate, head lift, and tank capacity.



Figure 4: Maximum height-lift and suction height capabilities of the pump.

5. Setup and Installation

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

1. **Location:** Place the pump on a firm, level surface as close to the water source as possible. Ensure adequate ventilation and protection from weather elements.
2. **Check Valve Installation:** A check valve or a bottom valve must be installed at the inlet of the suction pipe to prevent water from flowing back and to maintain prime.
3. **Outlet Pipe Connection:** The outlet pipe must be equipped with a valve to create a closed loop system and control water flow.
4. **Pipe Sizing:** It is recommended to use a 1-inch pipe for connections. A minimum size not smaller than 3/4-inch is acceptable. Ensure all connections are sealed tightly to prevent air leaks.
5. **Priming the Pump:** Before first use, or if the pump has run dry, fill the pump body with water through the designated water inlet or outlet until it is full. This ensures the pump is primed and ready for operation.
6. **Electrical Connection:** Connect the pump to a grounded power outlet. Ensure the voltage matches the pump's requirements.



Figure 5: Visual guide for the four main installation steps.

6. Operating Instructions

Once installed and primed, operating the Garvee shallow well pump is straightforward:

1. **Power On:** Ensure the pump is properly connected to a grounded power source. Flip the waterproof switch to the 'ON' position.
2. **Automatic Operation:** The integrated automatic pressure switch will monitor the system pressure. When the pressure drops below a preset level (e.g., due to water demand), the pump will automatically activate. When the pressure reaches the upper limit, the pump will automatically shut off.
3. **Monitoring:** Observe the pressure gauge to confirm the system is operating within expected pressure ranges.
4. **Shut Down:** To turn off the pump, flip the waterproof switch to the 'OFF' position. For extended periods of non-use, disconnect the pump from the power supply.

7. Maintenance

Regular maintenance ensures optimal performance and extends the life of your pump:

- **Regular Inspection:** Periodically check all connections for leaks and ensure they are tight. Inspect the power cord for any damage.
- **Cleanliness:** Keep the pump and surrounding area clean and free from debris. Ensure the motor's cooling fins are not obstructed.
- **Winterization:** In regions with freezing temperatures, the pump must be drained completely to prevent damage from freezing water. Disconnect the power, open all drain plugs, and store the pump in a frost-free environment if possible.
- **Pressure Tank Check:** Periodically check the air pre-charge in the pressure tank. Refer to the tank's specific instructions for correct pressure.
- **Priming:** If the pump loses prime, re-prime it according to the instructions in Section 5.

8. Troubleshooting

If you encounter issues with your pump, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; faulty switch; motor overload.	Check power connection; reset breaker; inspect switch; allow motor to cool.
Pump runs but no water flows	Pump not primed; air leak in suction line; water source depleted; clogged inlet.	Re-prime the pump; check all suction line connections for leaks; verify water source; clear any blockages.
Low water pressure	Air in system; partially clogged lines; incorrect pressure switch setting; low air in pressure tank.	Bleed air from system; check for clogs; adjust pressure switch (if applicable); check and adjust pressure tank air charge.
Pump cycles too frequently	Low air in pressure tank; small leak in system; faulty pressure switch.	Check and adjust pressure tank air charge; inspect system for leaks; replace pressure switch if necessary.

Problem	Possible Cause	Solution
Excessive noise or vibration	Loose mounting; cavitation (air in pump); worn bearings.	Tighten mounting bolts; ensure pump is primed and suction line is sealed; contact support for worn parts.

If the problem persists after attempting these solutions, please contact Garvee customer support.

9. Warranty and Support

Garvee products are manufactured to high-quality standards and are backed by a manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms and conditions.

For technical assistance, replacement parts, or warranty claims, please visit the official Garvee store or contact our customer support team. Keep your purchase receipt and model number handy for faster service.

Garvee Store: https://www.amazon.com/stores/Garvee/page/E28B1AAC-1328-4326-9E51-A1527F6F3A86

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