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› [LANCHEZ](#) /

› LANCHEZ 1.6 HP Shallow Well Pump with Pressure Tank User Manual

LANCHEZ 1.6HP Shallow Well Pump

LANCHEZ 1.6 HP Shallow Well Pump with Pressure Tank

Model: 1.6HP Shallow Well Pump

1. PRODUCT OVERVIEW

The LANCHEZ 1.6 HP Shallow Well Pump with Pressure Tank is a robust and efficient water transfer solution designed for various applications including garden irrigation, domestic water supply, and general water transfer. This pump features a powerful 1.6 HP motor, a maximum flow rate of 1340 GPH, and a maximum head of 150 feet. Its stainless steel construction ensures durability and corrosion resistance, while the integrated 5-gallon pressure tank prolongs its service life.



Max.Flow
1340 GPH

Max.Head
150 Ft

Max.Suction
26 Ft

1.6HP Shallow Well Pump

Image 1.1: Overview of the LANCHEZ 1.6 HP Shallow Well Pump highlighting its performance capabilities.

Key Features:

- **Efficient Performance:** 1.6 HP motor and durable impeller provide strong suction up to 26ft, max flow of 1340 GPH, and max head of 150ft.
- **Automatic Operation:** Starts at 20psi and shuts off at 40psi, with a pressure switch and external pressure gauge for real-time monitoring.
- **Safety Features:** Incorporates temperature sensing technology with automatic overload stop function to protect the motor from overheating due to water shortage.
- **Durable Construction:** High-quality stainless steel casing for outstanding durability and corrosion resistance. Features a carbon ceramic mechanical seal for effective water leakage prevention.
- **Integrated Pressure Tank:** Compact 5-gallon pressure tank prolongs pump service life.

PRODUCT DETAILS

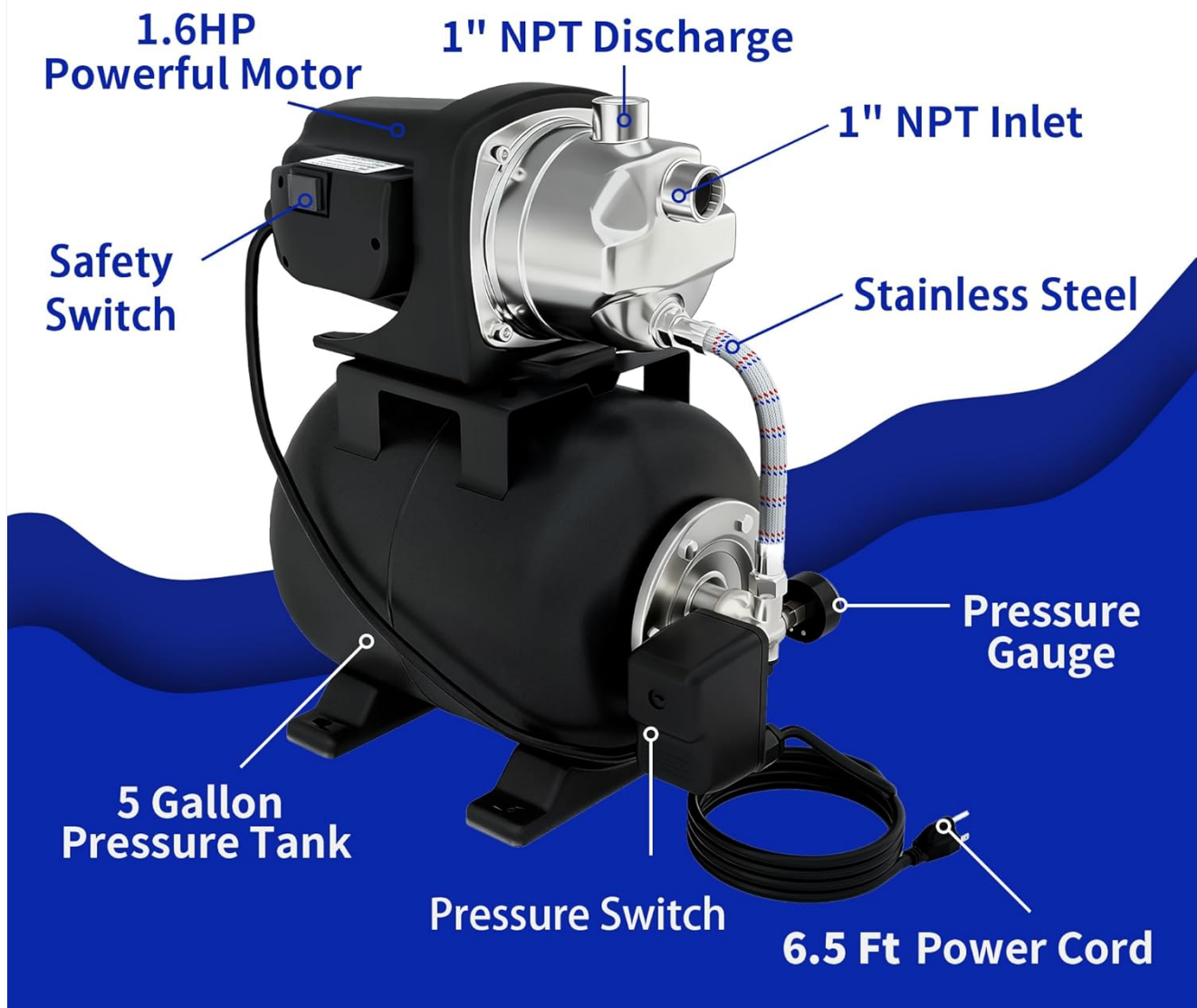


Image 1.2: Detailed view of the pump's components and features.

2. SAFETY INFORMATION

Read and understand all safety warnings and instructions before operating this pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage. Keep this manual for future reference.

General Safety Warnings:

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (115V/60Hz). Use a grounded outlet. Do not operate with damaged cords or plugs.
- **Water and Electrical:** Never immerse the pump motor in water. Avoid operating the pump in standing water unless specifically designed for submersible use (this model is not).
- **Overload Protection:** The pump is equipped with thermal overload protection. If the pump stops due to overheating, disconnect power and allow it to cool before restarting. Investigate the cause of overheating (e.g., water shortage).
- **Proper Installation:** Ensure all connections are secure and leak-free. Do not run the pump dry; always prime it with water before initial use.

- **Children and Pets:** Keep children and pets away from the operating pump.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your LANCHEZ shallow well pump. Follow these steps carefully.

3.1 Unpacking and Inspection

- Carefully remove the pump from its packaging.
- Inspect the pump for any signs of damage during shipping. If damaged, do not operate and contact customer service.
- Ensure all components listed in the packing list are present.

3.2 Connecting Pipes

The pump features 1-inch NPT inlet and discharge ports. Ensure you use appropriate plumbing fittings and sealants (e.g., PTFE tape) for a watertight connection.

1. Install an inlet pipe with a check valve to prevent backflow.
2. Connect the water pipe to the water inlet of the pump.
3. Connect the pipe to the outlet of the pump, leading to your desired application (e.g., garden hose, irrigation system).



Image 3.1: Steps for connecting pipes and priming the pump.

3.3 Priming the Pump

Before the first use, it is essential to prime the pump by filling it with water. Running the pump dry can cause damage.

1. Remove the priming plug (usually located on top of the pump head).
2. Pour clean water into the pump head until it is full.
3. Replace and securely tighten the priming plug.

Image 3.2: Visual guide for priming the pump before use.

3.4 Inlet Connection Methods

The pump supports two primary inlet connection methods:

- **For Water Taps:** Connect directly to a municipal water tap.

- **For Self-Priming:** Place the inlet hose into a water source (e.g., well, rain barrel) for self-priming operation.



Image 3.3: Two common methods for connecting the pump's water inlet.

Installation Video:

Video 3.1: This video provides a visual guide on how to install the LANCHEZ shallow well pump, including connecting hoses and priming the unit.

4. OPERATING INSTRUCTIONS

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

4.1 Starting the Pump

1. Ensure all connections are secure and there are no leaks.
2. Plug the pump into a grounded 115V/60Hz electrical outlet.
3. Flip the waterproof On/Off switch to the 'On' position. The pump will start automatically when pressure drops below 20psi and stop when it reaches 40psi.
4. Monitor the external pressure gauge to observe real-time pressure.

Automatic Booster System



Automatic Pressure Switch

Auto On < 20Psi
Auto Off > 40Psi

Pressure Gauge

Easy to observe
real-time pressure



5 Gallon Pressure Tank

Pre-assembled for easy use

Image 4.1: Details of the automatic booster system and pressure gauge.

4.2 Applications

The LANCHEZ shallow well pump is versatile and suitable for:

- Garden Watering
- Farm Irrigation
- Domestic Water Pressurization
- Water Transfer (e.g., from rain barrels, pools, ponds)



Image 4.2: Examples of pump applications.

Operation Video:

Video 4.1: This video demonstrates the operation of the LANCHEZ 1.6HP Shallow Well Pump with Pressure Tank, showcasing its use in various scenarios.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your pump. Always disconnect the power supply before performing any maintenance.

5.1 Cleaning

- Periodically clean the exterior of the pump to prevent dirt and debris buildup.
- Check the inlet screen (if applicable) for blockages and clean as needed to maintain optimal flow.

5.2 Winterization (for cold climates)

- Drain all water from the pump and connected pipes to prevent freezing and damage.
- Store the pump in a dry, frost-free location during winter months.

5.3 General Checks

- Inspect power cords and plugs for any damage.
- Check for any unusual noises or vibrations during operation, which may indicate a problem.
- Ensure the pressure tank is functioning correctly and maintaining pressure.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your pump. For problems not listed here, contact LANCHEZ customer service.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; motor overload; faulty switch.	Check power connection; reset breaker; allow motor to cool; inspect switch.
Pump runs but no water flows	Pump not primed; air in system; clogged inlet/outlet; low water source.	Prime the pump; check for air leaks; clear blockages; ensure adequate water supply.
Low pressure or flow	Partial blockage; worn impeller; pressure tank issue; leaks in system.	Check for blockages; inspect impeller; check pressure tank air charge; repair leaks.
Pump cycles frequently	Leaks in plumbing; pressure tank air charge too low; faulty pressure switch.	Check for leaks; recharge pressure tank; replace pressure switch.
Pump is noisy	Air in pump; cavitation; loose mounting; foreign object.	Bleed air; ensure adequate water supply; tighten mounting bolts; inspect for debris.

7. SPECIFICATIONS

Detailed technical specifications for the LANCHEZ 1.6 HP Shallow Well Pump.



CAUTION: Please fill up with water for the first use

VOLTAGE
115V/60HZ

HORSEPOWER
1.6HP

TANK CAPACITY
5 GALLON

MAX. FLOW RATE
1340GPH

MAX. LIFT
150FT

MAX. SUCTION
26FT

MAX. WATER TEMPERATURE
95°F

PROTECTION
IPX4

INLET/OUTLET
NPT 1"

Image 7.1: Dimensions and technical specifications of the pump.

Specification	Value
Brand	LANCHEZ
Model	1.6HP Shallow Well Pump
Horsepower	1.6 HP
Voltage	115 Volts
Wattage	1200 watts
Maximum Flow Rate	1340 GPH (23 Gallons Per Minute)
Maximum Lifting Height (Head)	150 Feet
Maximum Suction	26 Feet

Specification	Value
Pressure Tank Capacity	5 Gallons
Product Dimensions (L x W x H)	20"L x 13"W x 22"H
Material	Stainless Steel
Item Weight	32.4 pounds
Power Source	Corded Electric
Included Components	1.6 HP Shallow Well Pump with Pressure Tank
Warranty	3 Year Manufacturer

8. WARRANTY AND SUPPORT

LANCHEZ stands behind the quality of its products.

8.1 Manufacturer's Warranty

This product comes with a generous **3-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Service

For professional installation and maintenance support, or any questions regarding your LANCHEZ pump, please contact our customer service team. We are committed to assisting you.

Additional protection plans may be available for purchase:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly billing)