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

LANCHEZ 1.6HP

LANCHEZ 1.6HP Shallow Well Pump with Pressure Tank User Manual

Model: 1.6HP

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your LANCHEZ 1.6HP Shallow Well Pump with Pressure Tank. Please read this manual thoroughly before operating the pump and retain it for future reference.

The LANCHEZ 1.6HP Shallow Well Pump is designed for various water transfer applications, including garden irrigation, domestic water supply, and boosting water pressure. It features a powerful 1.6 HP motor, a 5-gallon pressure tank, and an automatic booster system for reliable performance.



Figure 1: LANCHEZ 1.6HP Shallow Well Pump with Pressure Tank.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the pump:

- Ensure the pump is connected to a grounded power outlet (115V).
- Do not operate the pump without water. The pump incorporates temperature sensing technology with an automatic overload stop function to protect the motor in case of water shortage, but dry running should be avoided.
- Keep the pump away from flammable materials and explosive environments.
- Do not touch the pump or power cord with wet hands.
- Ensure all connections are secure and leak-free before operation.
- Regularly inspect the power cord for damage. Do not use if damaged.
- The waterproof On/Off switch ensures safe operation, but always exercise caution.

OVERLOAD PROTECTION

The Thermal Overload Protection Auto feature automatically shuts off the pump to prevent damage in case of dry running, ensuring long-lasting performance and durability.



Figure 2: The pump features thermal overload protection to prevent damage from dry running.

3. SETUP AND INSTALLATION

Follow these steps for proper setup and installation:

1. **Placement:** Place the pump on a stable, level surface. Ensure it is in a well-ventilated area and protected from direct weather exposure.
2. **Connections:**
 - Connect the water inlet pipe (1" NPT) to your water source.
 - Connect the water outlet pipe (1" NPT) to your irrigation system or domestic water line.
 - Ensure all connections are sealed tightly to prevent leaks and air intake.
3. **Priming the Pump:** *This is a critical step for first-time use.*
 - Locate the priming port on the top of the pump head.
 - Unscrew the priming cap.
 - Slowly fill the pump head with clean water until it is completely full.
 - Replace the priming cap securely.
4. **Power Connection:** Plug the 6.5ft power cord into a standard 115V grounded electrical outlet.



Figure 3: Key components of the pump, including inlet, discharge, pressure gauge, and safety switch.

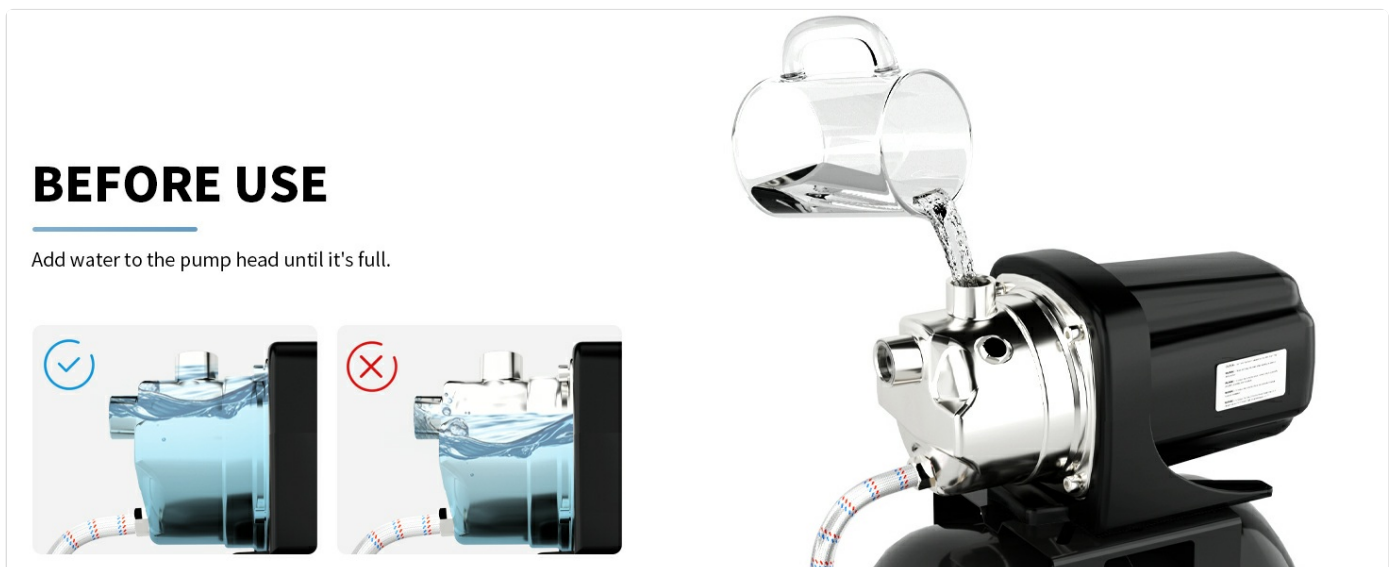


Figure 4: Illustration showing how to add water to the pump head for priming.

Figure 5: Demonstrates connecting pipes and the two common inlet connection methods: from water taps or for self-priming from a source like a well or pond.

4. OPERATING INSTRUCTIONS

Once the pump is properly set up and primed, follow these steps for operation:

1. Ensure all valves in your water system are open as required.
2. Turn on the pump using the waterproof On/Off switch.
3. The pump will automatically start when the pressure drops to 20 PSI and shut off when it reaches 40 PSI, maintaining consistent water pressure.
4. Monitor the external pressure gauge for real-time pressure readings.
5. When finished, turn off the pump using the On/Off switch.

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



Figure 6: Details of the automatic pressure switch, pressure gauge, and 5-gallon pressure tank for easy use.

Your browser does not support the video tag.

Video 1: This video demonstrates the initial setup and operation of the LANCHEZ Shallow Well Pump, including priming and connecting to a water source for effective water transfer.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your pump:

- **Cleanliness:** Keep the pump clean and free from debris. Ensure the cooling vents are not obstructed to allow for proper airflow and prevent overheating.
- **Connections:** Periodically check all pipe connections for tightness and signs of leakage. Tighten as necessary.
- **Winterization:** In freezing temperatures, drain the pump completely to prevent water from freezing and causing damage to the pump housing or internal components. Disconnect pipes and open drain plugs if available.
- **Pressure Tank:** The compact 5-gallon pressure tank is pre-assembled and designed for long service life. No specific user maintenance is typically required for the tank itself beyond ensuring it is not physically damaged.



Figure 7: The scientific cooling vent design ensures efficient heat dissipation, contributing to the pump's durability.

6. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not start.	No power; tripped circuit breaker; faulty switch.	Check power connection; reset breaker; contact customer service if switch is faulty.
Pump runs but no water.	Not primed; air leak in suction line; water source empty.	Re-prime the pump; check all suction connections for leaks; ensure water source is available.
Low pressure or flow.	Partial air leak; clogged impeller; undersized piping; low voltage.	Check for air leaks; inspect and clean impeller; ensure proper pipe sizing; verify voltage supply.
Pump cycles too frequently.	Pressure tank issue; small leak in system.	Check pressure tank pre-charge (if applicable, though this model is pre-assembled); inspect entire system for leaks.

Problem	Possible Cause	Solution
Pinhole leaks in pump housing.	Material defect or corrosion over time.	Contact customer service for warranty claim or replacement.

If the problem persists after attempting these solutions, please contact LANCHEZ customer service.

7. SPECIFICATIONS

Feature	Detail
Brand	LANCHEZ
Model	1.6HP Shallow Well Pump with Pressure Tank
Horsepower	1.6 HP
Voltage	115V / 60Hz
Max. Flow Rate	1340 GPH (23 Gallons Per Minute)
Max. Head (Lift)	150 Feet
Max. Suction	26 Feet
Pressure Tank Capacity	5 Gallons
Automatic Operation	Starts at 20 PSI, Shuts off at 40 PSI
Inlet/Outlet Size	1" NPT
Power Cord Length	6.5 ft
Material	Stainless Steel Casing
Item Weight	33.6 pounds
Product Dimensions (L x W x H)	17.32"L x 12.99"W x 19.69"H



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"

Figure 8: Visual representation of pump dimensions and key technical specifications.



TECHNICAL SPECIFICATION

Voltage/ Frequency

115V/60HZ

Max Flow Rate

1340GPH

Max .Pressure

43.5PSI

Max .Suction

26FT

Horse Power

1.6HP

Max. Height

150FT

Discharge

NPT1"

Cable Length

6.6FT

GPH of Water @ Total FT . of Head

5FT	33FT	100FT	150FT
1320GPH	1030GPH	500GPH	0GPH

8. WARRANTY AND CUSTOMER SERVICE

LANCHEZ stands behind the quality of its products.

- **Warranty:** This product comes with a generous **3-year warranty**. Please retain your proof of purchase for warranty claims.
- **Customer Service:** LANCHEZ customer service provides professional installation and maintenance support. For any inquiries, technical assistance, or warranty claims, please contact us through the seller's contact information on your purchase platform or visit the official LANCHEZ store.

We are committed to assisting you and ensuring your peace of mind.

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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

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question