XtremepowerUS 76091

XtremepowerUS 1HP Portable Shallow Well Pump User Manual

Model: 76091 | Brand: XtremepowerUS

1. Introduction

This manual provides essential information for the safe and efficient operation of your XtremepowerUS 1HP Portable Shallow Well Pump. This electric water pump is designed for various applications including irrigation, water transfer, draining water from shallow wells, lakes, ponds, rain barrels, and water tanks. Please read all instructions carefully before use and retain this manual for future reference.

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury or property damage.

- **Electrical Safety:** Ensure the pump is connected to a properly grounded 115V/60Hz power outlet. Do not operate the pump with a damaged cord or plug. Keep all electrical connections dry.
- **Water Safety:** This pump is not intended for potable (drinking) water. Do not use the pump in areas where flammable liquids or gases are present.
- **Personal Safety:** Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves. Keep children and pets away from the operating pump.
- **Overheating Protection:** The pump features a scientific cooling vent design and an automatic shut-off mechanism to protect the motor from dry running. However, avoid prolonged dry running.
- **Handling:** Use the integrated iron handle for safe and stable transport.

3. Package Contents

Verify that all items are present upon unpacking:

- XtremepowerUS 1HP Portable Shallow Well Pump (Model 76091)
- User Manual (this document)

4. Product Overview

The XtremepowerUS 1HP Portable Shallow Well Pump is constructed with a durable stainless steel pump head, a PP0-GF20

plastic impeller, and a high-material single-end mechanical seal for reliability. It features an integrated iron handle for portability and a robust motor with a scientific cooling vent design.

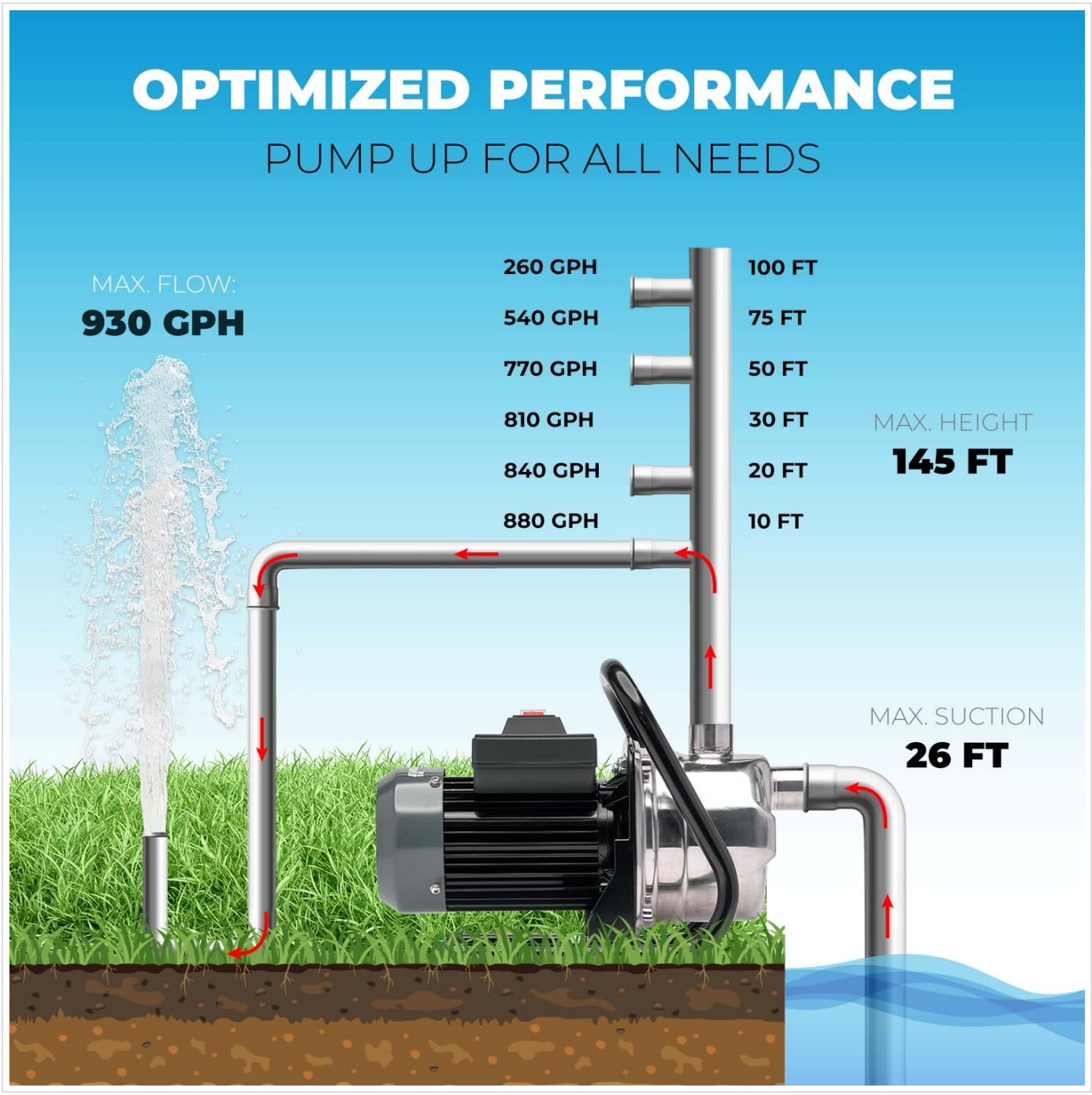

Figure 4.1: Pump Dimensions. This image illustrates the physical dimensions of the pump, showing a height of 9.8 inches, a width of 27.7 inches, and a depth of 9.4 inches.

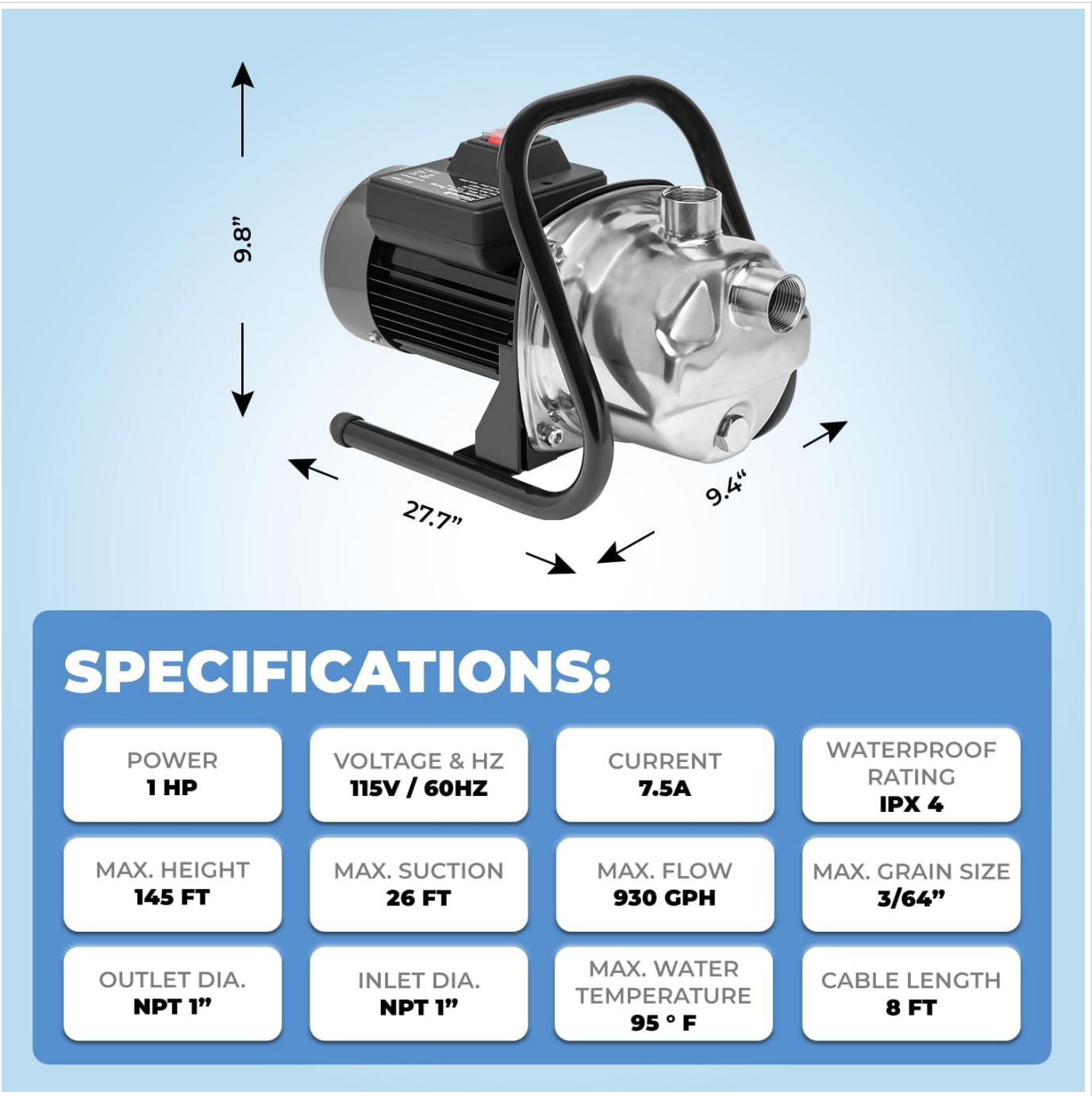

Figure 4.2: Key Specifications Overview. This image provides a visual summary of the pump's technical specifications, including 1 HP power, 115V/60Hz voltage, 7.5A current, IPX4 waterproof rating, 145 ft max height, 26 ft max suction, 930 GPH max flow, 3/64 inch max grain size, NPT 1 inch outlet/inlet diameter, 95°F max water temperature, and 8 ft cable length.

5. Setup Instructions

Proper setup is crucial for optimal performance and safety.

1. **Placement:** Position the pump on a stable, level surface. Ensure it is close enough to the water source and power outlet without requiring extension cords.
2. **Connections:** Connect the inlet (suction) hose to the pump's NPT 1" inlet and the outlet (discharge) hose to the NPT 1" outlet. Ensure all connections are tight to prevent leaks and maintain prime.
3. **Priming the Pump:** This pump is self-priming, but it is essential to fill the pump casing with water before the first use or after the pump has been drained.

Figure 5.1: Priming the Pump. This image demonstrates the critical step of filling the pump with water before operation. It also shows typical setups for connecting to water taps and for self-priming directly from a water source.

4. **Power Connection:** Plug the pump into a grounded 115V/60Hz electrical outlet.

6. Operating Instructions

Follow these steps for safe and effective operation:

1. **Initial Start-up:** After priming and connecting to power, turn on the pump using the power switch. The pump will begin to draw water.
2. **Monitoring:** Observe the pump during operation. Ensure there are no leaks and that water is flowing as expected. The pump is designed to provide a maximum flow of 930 GPH and can lift water up to 145 feet with a maximum suction of 26 feet.
3. **Automatic Shut-off:** The pump is equipped with a safety feature that automatically shuts off the motor if it detects dry running, protecting the motor from damage.
4. **Shut-down:** When finished, turn off the power switch and disconnect the pump from the power source.

Figure 6.1: Optimized Performance. This diagram visually represents the pump's performance capabilities, highlighting its maximum flow rate, maximum lifting height, and maximum suction depth.

Figure 6.2: Performance Curve. This graph illustrates the pump's flow rate (GPH) at various head lift heights (FT), providing a detailed understanding of its operational characteristics.

7. Maintenance

Regular maintenance ensures longevity and consistent performance.

- **Cleaning:** Periodically clean the exterior of the pump. Ensure cooling vents are free from debris to maintain proper motor cooling.
- **Winterization:** If operating in freezing temperatures, drain all water from the pump and hoses to prevent damage from ice expansion. Store the pump in a dry, protected area.
- **Inspection:** Regularly inspect the power cord, plug, and all hose connections for wear or damage. Replace any damaged components immediately.

8. Troubleshooting

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Pump does not start or hums but does not pump water.	No power; Clogged impeller; Air in pump/lines (loss of prime); Motor overload.	Check power connection and circuit breaker. Disconnect power and inspect impeller for obstructions. Re-prime the pump by filling the casing with water. Allow motor to cool if overloaded.
Low water flow or pressure.	Partial clog in inlet/outlet; Air leak in suction line; Insufficient water source; Incorrect pressure setting.	Check and clear any clogs. Inspect suction line for leaks and tighten connections. Ensure water source is adequate. Adjust pressure settings if applicable (refer to specific pressure switch instructions if present).
Pump runs but no water is discharged.	Pump not primed; Suction lift too high; Inlet hose blocked.	Ensure pump is properly primed. Verify suction lift is within the 26 ft maximum. Check inlet hose for blockages.
Pump shuts off unexpectedly.	Dry running detected; Motor overheating; Electrical issue.	Ensure continuous water supply to prevent dry running. Allow pump to cool. Check electrical connections.

9. Specifications

Detailed technical specifications for the XtremepowerUS 1HP Portable Shallow Well Pump.

Feature	Specification
Model Number	76091
Power	1.0 HP
Voltage	115 Volts / 60 Hz
Current	7.5 Amps
Maximum Flow Rate	930 GPH (Gallons Per Hour)
Maximum Lifting Height	145 Feet
Maximum Suction Lift	26 Feet
Waterproof Rating	IPX4
Maximum Grain Size	3/64 inches
Inlet Diameter	NPT 1 inch
Outlet Diameter	NPT 1 inch
Maximum Water Temperature	95° F
Cable Length	8 Feet
Item Weight	20.9 pounds
Material	Steel, Aluminum, Metal, Stainless Steel
UPC	840166543863

10. Warranty Information

For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official XtremepowerUS website. Warranty coverage typically includes defects in materials and workmanship for a specified period from the date of purchase.

11. Customer Support

If you have any questions, require technical assistance, or need to report an issue with your XtremepowerUS 1HP Portable Shallow Well Pump, please contact XtremepowerUS customer service. Contact information can typically be found on the product packaging or the official brand website.