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TDRRICH J-100

TDRRICH J-100 1HP Water Pressure Booster Pump User Manual

Model: J-100

1. Important Safety Instructions

Please read and understand all safety warnings and instructions before installing, operating, or maintaining this pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Electrical Safety:** Always disconnect power before servicing the pump. Ensure the pump is properly grounded. Do not operate with a damaged cord or plug. Do not immerse the pump in water.
- **Water Safety:** This pump is designed for clean water only. Do not use with flammable or corrosive liquids. Ensure proper ventilation around the pump.
- **Installation:** Install the pump on a stable, level surface. Ensure all connections are tight to prevent leaks. This is a non-submersible pump and must be installed above ground.
- **Operation:** Do not run the pump dry. Ensure the pump is primed before initial operation. Keep children and pets away from the operating pump.
- **Maintenance:** Perform regular maintenance as described in this manual. Use only genuine replacement parts.

2. Package Contents

Carefully unpack all components and check for any damage. If any parts are missing or damaged, contact customer support.

- TDRRICH J-100 1HP Water Pressure Booster Pump
- Threaded Union (x2)
- Garden Hose Adapter (x2)
- Handle Throat Hoop (x2)
- Thread Seal Tape (x1)



Figure 2.1: Included accessories for the TDRRICH J-100 pump. This image displays two threaded unions, two garden hose adapters, two handle throat hoops (hose clamps), and one roll of thread seal tape, all essential for pump installation and connection.

3. Product Overview

The TDRRICH J-100 is a 1HP self-priming jet transfer pump designed to boost water pressure for various applications, including whole-house water supply, shallow wells, lawn and garden irrigation, and car washing. It features a durable stainless steel head and an aluminum body for corrosion resistance.

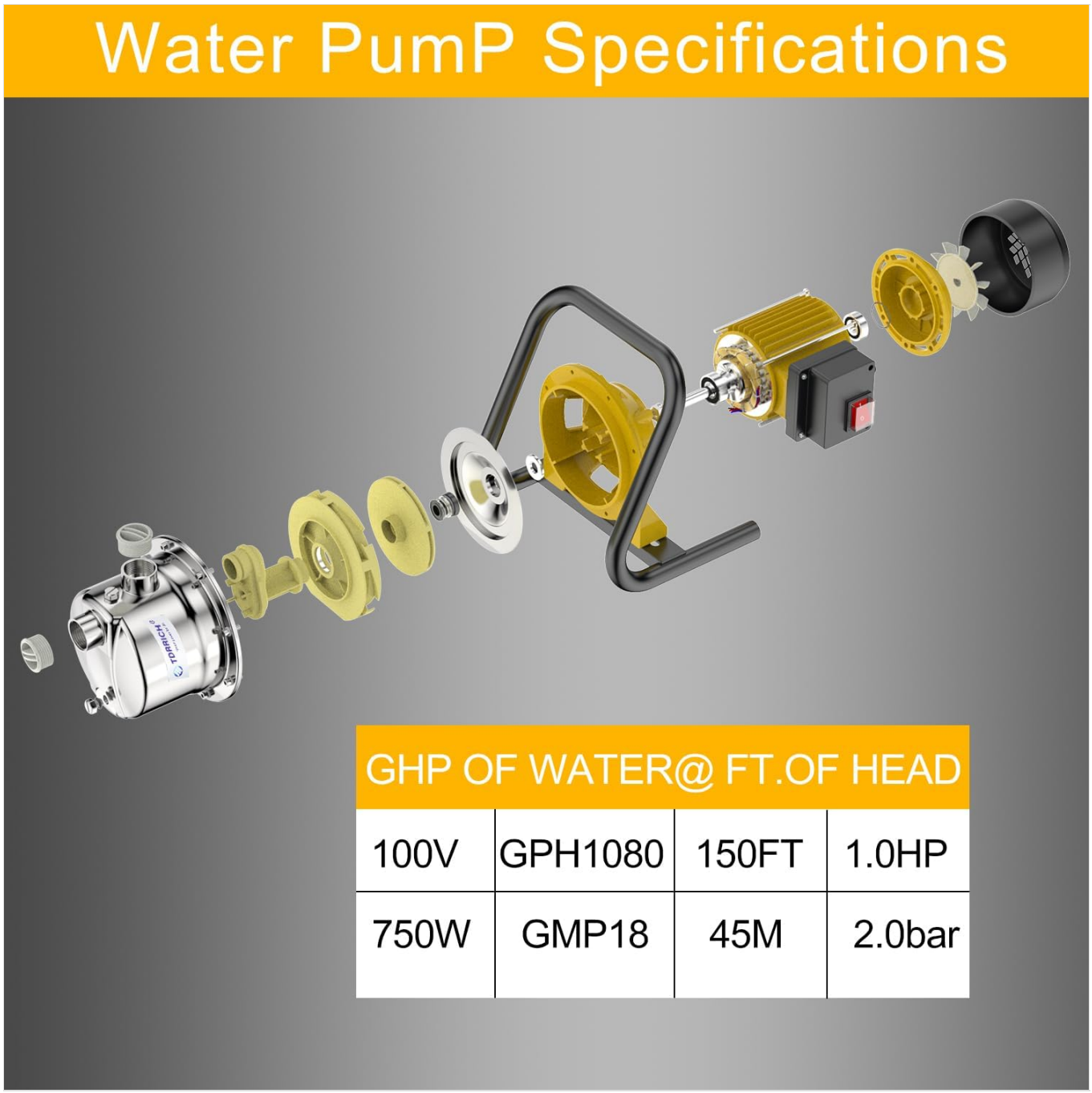


Figure 3.1: Front view of the TDRRICH J-100 1HP Water Pressure Booster Pump. The pump features a stainless steel housing, a yellow motor casing, and a sturdy black carrying handle.



Figure 3.2: Exploded view of the TDRRICH water pump components, illustrating the internal structure including the impeller, motor, and pump housing. A table below provides key specifications such as voltage, power, flow rate, and head.



Figure 3.3: The TDRRICH pump highlighted as a self-priming jet transfer pump, suitable for various water transfer needs. The image shows the pump in a natural outdoor setting.

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Video 3.1: An official product video from TDRRICH showcasing the features and design of the Water Pressure Booster Jet Pumps for home use. The video highlights the pump's portability, durable construction, and ease of use.

4. Specifications

Feature	Specification
Brand	TDRRICH
Model Number	J-100
Horsepower	1 HP
Voltage	110 Volts
Power Source	Corded Electric
Maximum Flow Rate	18 GPM (1056 GPH)
Maximum Lifting Height (Head)	131 ft (40m) / 150 ft (45m)
Maximum Pressure	4 bar (rated output 2 bar)
Material	Stainless Steel (head), Aluminum (body)
Color	Silver
Specific Uses	Outside, Whole House, Garden, Residential Water System, Shallow Well

5. Setup and Installation

Proper installation is crucial for the safe and efficient operation of your pump. Refer to local codes and regulations for specific requirements.

1. **Placement:** Position the pump on a firm, level surface above ground, as close to the water source as possible. Ensure adequate ventilation and protection from weather elements.
2. **Inlet Connection:** Connect the suction line from your water source (e.g., shallow well, tank) to the pump's inlet port. Use thread seal tape on all threaded connections to ensure a watertight seal. A foot valve with a strainer is recommended at the end of the suction line in the water source to prevent debris from entering the pump and to maintain prime.
3. **Outlet Connection:** Connect the discharge line (e.g., to your house, irrigation system) to the pump's outlet port. Again, use thread seal tape.
4. **Priming the Pump:** Before initial startup, the pump must be primed. Remove the priming plug (usually located on top of the pump housing) and fill the pump casing completely with water until it overflows. Replace the priming plug securely.
5. **Electrical Connection:** Ensure the power supply matches the pump's voltage (110V AC). Plug the pump into a properly grounded outlet. Do not use extension cords unless absolutely necessary, and ensure they are rated for outdoor use and the pump's power requirements.



Figure 5.1: The TDRRICH pump labeled as a 'Shallow Well Pump', indicating its suitability for drawing water from shallow sources. The image shows the pump connected to a hose, ready for operation in a garden setting.

6. Operating Instructions

1. **Initial Start-up:** After priming and ensuring all connections are secure, turn on the power switch. The pump should start running and begin to draw water. It is self-priming once water is present in the casing.
2. **Automatic Operation:** This pump is equipped with an automatic electric controller (pressure switch) that will turn the pump on when pressure drops (e.g., when a faucet is opened) and off when pressure is restored (e.g., when a faucet is closed).
3. **Monitoring:** Observe the pump during its first few minutes of operation to ensure there are no leaks and that water is flowing correctly.
4. **Shutting Down:** To turn off the pump, simply switch off the power. For extended periods of non-use, especially in freezing conditions, follow the winterization steps in the Maintenance section.



Figure 6.1: Various applications of the TDRRICH water pump, including agricultural irrigation, car washing, grassland spraying, and general garden watering. This illustrates the versatility of the pump for different water pressure needs.



Figure 6.2: The TDRRICH pump actively used for garden irrigation, demonstrating its effectiveness in providing water pressure for sprinklers and hoses. The image highlights the pump's role in maintaining a healthy lawn and garden.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your TDRRICH pump.

- **Regular Inspection:** Periodically check all connections for leaks. Inspect the power cord for any damage.
- **Cleaning:** Keep the pump exterior clean and free from debris. Ensure the motor's cooling fins are not obstructed to prevent overheating.
- **Strainer/Filter:** If a pre-filter or strainer is installed on the suction line, clean it regularly to prevent clogging and maintain flow.
- **Winterization:** In areas where temperatures drop below freezing, the pump must be drained to prevent damage from freezing water. Disconnect power, open a faucet on the discharge side, remove the drain plug (if present) or disconnect the suction line, and allow all water to drain from the pump and lines. Store the pump in a warm, dry place if possible.

8. Troubleshooting

Before attempting any repairs, always disconnect the pump from the power supply.

Problem	Possible Cause	Solution
Pump does not start	No power; Thermal overload tripped; Motor seized	Check power supply/breaker; Allow pump to cool and reset; Contact support if motor is seized.
Pump runs but no water flows	Pump not primed; Suction line air leak; Suction line blocked; Water source empty	Re-prime the pump; Check all suction connections for tightness; Clear any blockages; Ensure water source has water.
Low water pressure/flow	Partially blocked suction/discharge; Air in system; Worn impeller	Check for blockages; Bleed air from system; Contact support for impeller replacement.
Pump cycles on and off frequently	Leak in system; Pressure tank issue (if applicable); Pressure switch setting	Check for leaks in plumbing; Inspect pressure tank; Adjust pressure switch settings (consult a professional).
Pump is noisy	Air in pump; Cavitation; Bearings worn	Ensure pump is fully primed; Check for suction line restrictions; Contact support for bearing issues.

9. Warranty and Support

TDRRICH offers a **180-day warranty** for this product from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, abuse, improper installation, neglect, accidents, or unauthorized repairs.

For warranty claims, technical assistance, or any questions regarding your TDRRICH J-100 pump, please contact TDRRICH customer service. Please have your purchase receipt and product model number available when contacting support.

Contact Information: Refer to your purchase platform or the official TDRRICH website for the most current customer support contact details.

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Answered questions about this manual

Where can I find the pump curve chart for the TDRRICH J-100 1HP Water Pressure Booster Pump?

The official user manual for the TDRRICH J-100 does not include a visual pump curve chart. However, it provides the following key performance specifications that define the endpoints of its performance curve: Maximum Flow...

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