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TDRRICH J-80

TDRRICH J-80 3/4HP Water Pressure Booster Pump User Manual

Model: J-80 | Brand: TDRRICH

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your TDRRICH J-80 3/4HP Water Pressure Booster Pump. Please read this manual thoroughly before using the product and retain it for future reference.

1.1 Package Contents

Upon unpacking, verify that all components are present and undamaged. If any items are missing or damaged, contact customer support.



Image 1.1: Package Contents. This image displays the items included in the product package, which typically consist of the main pump unit, the automatic pump control unit, an instruction manual, and various connection accessories.

- TDRRICH J-80 Water Pressure Booster Pump
- Smart Automatic Pump Controller
- User Manual
- Connection fittings and accessories

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury.



Image 2.1: General Warning Symbol. This symbol indicates important safety instructions that must be followed to prevent injury or damage.

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (110V AC). Always connect to a grounded outlet. Do not operate with damaged cords or plugs.
- **Water Safety:** Do not immerse the pump in water. Ensure all connections are watertight to prevent leaks and electrical hazards.
- **Installation:** Installation should be performed by a qualified individual if you are unsure. Ensure the pump is placed on a stable, level surface.
- **Operation:** Do not run the pump dry. Ensure there is water flow before starting.
- **Maintenance:** Disconnect power before performing any maintenance or repairs.

3. Specifications

Feature	Specification
Model	J-80
Brand	TDRRICH
Power	3/4 HP (550W)
Voltage	110V AC
Maximum Flow Rate	18 GPM (1056 GPH)
Maximum Head Lift	131 Feet
Maximum Pressure	4 Bar (58 PSI)
Rated Output Pressure	2 Bar (29 PSI)
Material	Stainless Steel
Product Dimensions (L x W x H)	23" x 9" x 10"
Item Weight	22 lbs (10 kg)

4. Key Components

Understanding the main components of your pump will assist in installation and maintenance.



Image 4.1: Internal Components. This diagram highlights key internal parts of the pump, including the impeller, motor coils, rotor, bearing, and pressure sensor.

- **Oxygen-free Copper Impeller:** Designed for efficient water transfer and durability.
- **Pure Copper Coils:** Contribute to the motor's efficiency and longevity.
- **Stainless Steel Rotor:** Provides corrosion resistance and stable operation.
- **Selected Bearing:** Ensures smooth and quiet operation of the motor.
- **Pressure Sensor:** Part of the smart controller system, detecting water pressure changes to automate pump operation.

5. Setup and Installation

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



Image 5.1: Typical Installation for Garden Use. The pump is shown connected to a garden hose, illustrating a common setup for irrigation purposes.

1. **Placement:** Position the pump on a firm, level surface in a dry, well-ventilated area, protected from direct weather exposure.
2. **Inlet Connection:** Connect the domestic inlet pipe to the pump's suction port. Ensure a tight, leak-free seal.
3. **Outlet Connection:** Connect the outlet pipe to your water system (e.g., pressure tank, home sprinkler system, garden hose).
4. **Priming:** As a self-priming pump, it will automatically prime when water runs. However, for initial setup, ensure the pump casing is filled with water before starting to prevent dry running.
5. **Electrical Connection:** Plug the pump into a standard 110V/120V AC power source. Ensure the circuit is properly grounded and protected.
6. **Check for Leaks:** After all connections are made, slowly introduce water into the system and check for any leaks before powering on the pump.

6. Operation

The TDRRICH J-80 pump features an automatic control system for continuous and stable operation.



Image 6.1: Quiet Operation. This image suggests the pump operates with minimal noise, suitable for residential environments.



Image 6.2: Enhanced Water Flow. The pump is depicted increasing water pressure and flow to a household faucet, demonstrating its boosting capability.

- **Automatic Control:** The integrated smart controller automatically manages pump operation based on water demand and pressure settings. It will start when water is drawn and stop when the demand ceases.
- **Self-Priming:** The pump is designed to self-prime once water is introduced into the system, eliminating the need for manual priming after initial setup.
- **Pressure Setting:** The pump boosts water pressure to a preset figure, typically rated at 2 bar, with a maximum capability of 4 bar.
- **Continuous Operation:** The pump is designed for 24-hour continuous stable working, suitable for various applications.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your pump.

- **Inspect for Leaks:** Periodically check all connections and seals for any signs of water leakage. Tighten connections as needed.

- **Clean the Pump:** Keep the exterior of the pump clean and free from debris. Ensure ventilation openings are not obstructed.
- **Winterization (if applicable):** In regions with freezing temperatures, drain the pump completely and store it in a frost-free environment to prevent damage.
- **Electrical Check:** Inspect the power cord and plug for any damage. Do not use if damaged.

8. Troubleshooting

This section addresses common issues you might encounter with your TDRRICH J-80 pump.



Image 8.1: Overload Protection. The pump is equipped with a system to automatically break the circuit in case of motor overheating, enhancing safety and preventing damage.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Pump does not start	No power; clogged inlet/outlet; air in system; motor overload.	Check power connection and circuit breaker. Clear any blockages. Ensure pump is primed. Check for overload protection activation.
Low water pressure	Insufficient water supply; leaks in system; clogged impeller.	Verify adequate water source. Inspect all connections for leaks and tighten. Clean impeller if accessible.
Pump runs continuously	Leak in the system; faulty pressure sensor/switch.	Check for leaks in plumbing. If no leaks are found, the pressure sensor or switch may require inspection by a qualified technician.
Excessive noise	Air in system; cavitation; loose mounting; worn bearing.	Ensure proper priming and eliminate air. Check for stable mounting. If noise persists, professional inspection may be needed.
Water leaks from connections	Loose fittings; improper sealing (e.g., insufficient thread sealant).	Tighten all connections. Disassemble, reapply thread sealant (like PTFE tape), and reassemble carefully.
Pump overheats	Dry running; insufficient ventilation; motor overload.	Ensure continuous water supply. Provide adequate ventilation around the pump. The pump has overload protection which will shut it off if overheating occurs.

9. Typical Applications

The TDRRICH J-80 water pressure booster pump is versatile and suitable for a range of water boosting and transfer needs.



Image 9.1: Diverse Applications. This composite image illustrates the pump's utility in agricultural irrigation, drawing water from wells, enhancing household water pressure, and supporting solar water heating systems.

- **Household Water Boosting:** Ideal for increasing water pressure in residential water systems, ensuring consistent flow to faucets and showers.
- **Lawn and Garden Sprinkler Systems:** Provides the necessary pressure for efficient irrigation of lawns, gardens, and farmlands.
- **Shallow Well Water Supply:** Suitable for drawing water from shallow wells for various uses.
- **Solar Pressurized Water Supply:** Can be integrated into solar water heating systems to maintain optimal water pressure.
- **Cottage, Villa, and Farm Water Systems:** Enhances water supply and pressure in various property types.

10. Warranty and Support

TDRRICH offers a **180-day warranty** for this product, covering manufacturing defects from the date of purchase. This warranty does not cover damage caused by improper installation, misuse, neglect, or unauthorized modifications.
For technical assistance, warranty claims, or any questions regarding your TDRRICH J-80 pump, please contact TDRRICH customer support through the retailer where the product was purchased or refer to the contact information provided in your product packaging.

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Details

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