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› TECHTONGDA Stainless Steel Self Priming Water Pressure Booster Pump Intelligent Control User Manual

TECHTONGDA L144023

TECHTONGDA Stainless Steel Self Priming Water Pressure Booster Pump

Model: L144023

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your TECHTONGDA Stainless Steel Self Priming Water Pressure Booster Pump, Model L144023. This intelligent control pump is designed to boost water pressure for various domestic applications, including showers, water heaters, and solar systems, ensuring a consistent and strong water flow.

Please read this manual thoroughly before installation and use, and retain it for future reference.

2. SAFETY INFORMATION

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

- Ensure the power supply matches the pump's specifications (220V).
- Do not operate the pump dry (without water) as this can cause severe damage. The intelligent control system includes dry-running protection, but manual verification is recommended during initial setup.
- Install a valve at the outlet end for easier maintenance and control.
- Protect the pump from freezing temperatures to prevent cracking. The stainless steel pump head offers resistance, but extreme cold requires additional insulation.
- All electrical connections should be performed by a qualified electrician.
- Keep children and unauthorized personnel away from the operating pump.

3. PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main components of your water pressure booster pump:



Figure 3.1: Main components of the TECHTONGDA Self Priming Water Pressure Booster Pump. Key parts include the Pressure Tank, Filling Port, Water Outlet, Cooling Fan Cover, and Digital Display for intelligent control.



Figure 3.2: Side view illustrating the Water Inlet connection point on the pump.

- **Pressure Tank:** Stores pressurized water to maintain consistent pressure and reduce pump cycling.
- **Filling Port:** Used to prime the pump by filling it with water before initial operation.
- **Water Outlet:** Connection point for the pressurized water supply to your home system.
- **Cooling Fan Cover:** Protects the motor's cooling fan, ensuring efficient heat dissipation.
- **Digital Display:** Provides real-time information and allows for intelligent control settings.
- **Water Inlet:** Connection point for the incoming water supply to the pump.

4. SPECIFICATIONS

Feature	Specification
Brand	TECHTONGDA
Model Number	L144023
Power Source	Corded Electric

Voltage	220V
Power	200W
Max Suction	8 meters (26.25 feet)
Max Flow	2.0 m³/h (8.81 GPM)
Max Head	25 meters (82 feet)
Insulation Class	B
Caliber (Inlet/Outlet)	25 mm (0.98 inches)
Motor Type	Pure Copper Motor
Construction	Stainless Steel Pump Head
Compatibility	Hot and Cold Water

Power: 800W

Max Suction: 26.25 feet (8m)

Max. Flow: 8.81 gallons per minute (2.0m³/h)

Max. Head: 82 feet (25m)



Figure 4.1: Approximate dimensions of the pump for installation planning.

5. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. It is recommended that installation be performed by a qualified professional.

1. **Location Selection:** Choose a dry, well-ventilated area protected from direct sunlight, rain, and freezing temperatures. The pump should be installed as close as possible to the water source.
2. **Mounting:** Securely mount the pump on a stable, level surface to minimize vibration and noise.
3. **Water Inlet Connection:** Connect the incoming water supply to the Water Inlet (refer to Figure 3.2). Ensure all connections are watertight using appropriate sealing materials.

4. **Water Outlet Connection:** Connect the pump's Water Outlet to your household water distribution system. *It is recommended to install a valve at the outlet end for easier maintenance.*
5. **Priming the Pump:** Before initial operation, the pump must be primed. Open the Filling Port (refer to Figure 3.1) and slowly fill the pump casing with water until it overflows. Close the filling port securely.
6. **Electrical Connection:** Connect the pump to a 220V power supply. Ensure the electrical circuit is properly grounded and protected by a circuit breaker.
7. **Leak Check:** After all connections are made, slowly open the water supply to the pump and check for any leaks. Tighten connections as necessary.

6. OPERATING INSTRUCTIONS

The TECHTONGDA pump features an intelligent micro-control system for automatic operation.



Figure 6.1: Digital Display and Control Panel.

1. **Initial Power On:** Once installed and primed, plug in the pump. The digital display will illuminate.
2. **Automatic Operation:** The pump is designed to automatically start when water is drawn (e.g., opening a faucet) and stop when water flow ceases.
3. **Intelligent Protections:**
 - **Dry-Running Protection:** If the water supply runs out, the pump will automatically shut off to prevent damage. The "Water Shortage" indicator on the digital display may light up.
 - **Freezing Protection:** The pump is designed with some resistance to freezing. In extremely cold conditions, the intelligent system may activate to prevent internal damage.
4. **Digital Display Indicators:**
 - **Pressure:** Indicates the current water pressure.
 - **Water Flow:** Shows the current water flow rate.
 - **Power:** Indicates the pump's power consumption.
 - **Water Shortage:** Lights up if the pump detects insufficient water supply.
 - **Run:** Indicates the pump's operating status.
5. **Reset Button:** Used to reset the pump after a protection shutdown (e.g., dry-running).
6. **Timing Button:** Allows for setting specific operating times if desired. Refer to the detailed instructions on the pump's control panel for specific timing configurations.

Before pressurization, the water flow is slow.



After pressurization, the water flow becomes fast and forceful.



Figure 6.2: Visual representation of improved water flow after pump activation.

7. MAINTENANCE

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

- **Regular Inspection:** Periodically check for leaks, unusual noises, or vibrations. Address any issues promptly.
- **Cleanliness:** Keep the pump and its surroundings clean and free from debris. Ensure the Cooling Fan Cover is clear to allow proper ventilation.
- **Winterization:** In areas prone to freezing, drain the pump completely if it will not be used for an extended period. Disconnect power, open the drain plug (if available), and disconnect inlet/outlet pipes to allow water to escape. Store in a warm, dry place if possible, or insulate thoroughly.
- **Filter Cleaning:** If your water supply contains sediment, regularly check and clean any inline filters installed before the pump inlet to prevent clogging.

8. TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions:

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; pump not primed; "Water Shortage" activated.	Check power connection; reset circuit breaker; prime the pump; press the Reset button.
Low water pressure	Insufficient water supply; clogged inlet filter; air in the system; pump malfunction.	Ensure adequate water supply; clean inlet filter; re-prime the pump; contact support if issue persists.
Pump runs continuously	Leak in the system; faulty pressure sensor; constant low water draw.	Check for leaks in plumbing; contact support for sensor issues.
Unusual noise/vibration	Loose mounting; air in the pump; foreign object; worn bearings.	Tighten mounting bolts; re-prime the pump; inspect for obstructions; contact support.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact customer support.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact TECHTONGDA customer service. Keep your purchase receipt and model number (L144023) readily available when contacting support.

Manufacturer: TECHTONGDA

UPC: 198462402583

ASIN: B0G38RXP55

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