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## LZMZMQ LZMZMQ

# LZMZMQ Water Pressure Tank User Manual

Model: LZMZMQ

## INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of your LZMZMQ Water Pressure Tank. Designed for various applications including household, school, livestock, industrial, and agricultural use, this tank helps stabilize water pressure and ensures a consistent water supply.

The LZMZMQ Water Pressure Tank is constructed from food-grade PE material, featuring a 1.5cm thick wall for high toughness, pressure resistance, and freeze protection down to -60°C. It is designed to be directly contacted with water, meeting standards for human consumption.

Key features include:

- **Eco-friendly PE Material:** Safe, odorless, and freeze-resistant.
- **Automatic Operation:** Works with a water pump (not included) to automatically maintain water pressure.
- **Safety Valves:** Equipped with a safety valve and a negative pressure integrated valve for automatic exhaust and drainage, preventing overpressure and vacuum formation.
- **High Load Capacity:** Capable of supporting up to 300kg (660lbs).
- **Versatile Applications:** Suitable for well systems, solar water heaters, washing machines, and various water supply needs.

## PRODUCT OVERVIEW

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The LZMZMQ Water Pressure Tank is designed to integrate into your water system to provide stable water pressure and storage. Below are some visual representations of the product and its components.



*Figure 1: LZMZMQ Water Pressure Tank installed in an outdoor setting, surrounded by foliage.*



Figure 2: Key features of the pressure tank, including the pressure switch, freeze-resistant design, load capacity, threaded design, water outlet, three-legs base, water inlet, and drain outlet.

## **Eco-friendly PE**

PE material for drinking water, the same material as milk bottle, safe and odorless; normal use in winter, freeze-resistant,  $-60^{\circ}\text{C}$  will not freeze.



Figure 3: Demonstration of the food-grade PE material, similar to milk bottles, and the tank's freeze-resistant properties in cold conditions.



Figure 4: Visual proof of the tank's robust construction, showing three individuals standing on it, highlighting its 300kg (660lbs) load capacity.

## SETUP AND INSTALLATION

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Proper installation is crucial for the optimal performance and longevity of your water pressure tank. This tank is designed for easy installation and can be placed near a well, in a yard, stairwell, toilet, or kitchen.

### Installation Steps:

1. **Positioning:** Select a suitable location for the pressure tank. Ensure it is on a stable, level surface. The three bottom support legs are designed to prevent tipping.
2. **Water Pump Connection:** The pressure tank must be connected to a water pump (not included). The pump should be installed at the inlet of the pressure tank.
3. **Water Inlet Connection:** Connect the water source to the water inlet pipe of the pressure tank. Ensure all connections are secure and watertight.

4. **Water Outlet Connection:** Connect the water outlet pipe from the pressure tank to your household or irrigation system.
5. **Drain Outlet Connection:** Connect a drain pipe to the drain outlet (20mm/0.8in inner diameter) for maintenance and system flushing.
6. **Check Valve Installation:** An all-copper check valve must be installed in the system to prevent backflow.
7. **Pressure Switches and Gauges:** Ensure pressure switches and pressure gauges are correctly installed and functional for monitoring and controlling water pressure.
8. **Initial Fill and Pressure Check:** After all connections are made, slowly fill the tank with water and check for any leaks. Monitor the pressure gauge as the tank fills.

# Working Principle

## How to Install A Water Tank?

### 【 Note 】

- ① The pump must be installed at the inlet of the pressure tank.
- ② The water pump pumps water into the tank, the water increases, the air is compressed, and air pressure is generated.
- ③ When the air pressure in the tank reaches the set value (about 0.28mpa), the pressure controller controls the water pump to power off.
- ④ When the water in the tank decreases to the set value (about 0.14mpa), the controller controls the water pump to inject water into the tank.
- ⑤ Due to the pressure tank above the compressed air, the actual storage can not be marked capacity, this and the pressure setting has a direct relationship with the pressure set, the greater the pressure setting, the more water storage, 3 pressure water storage is about - 50% to 70% of the total volume of the water, the water output is about 50% or so.

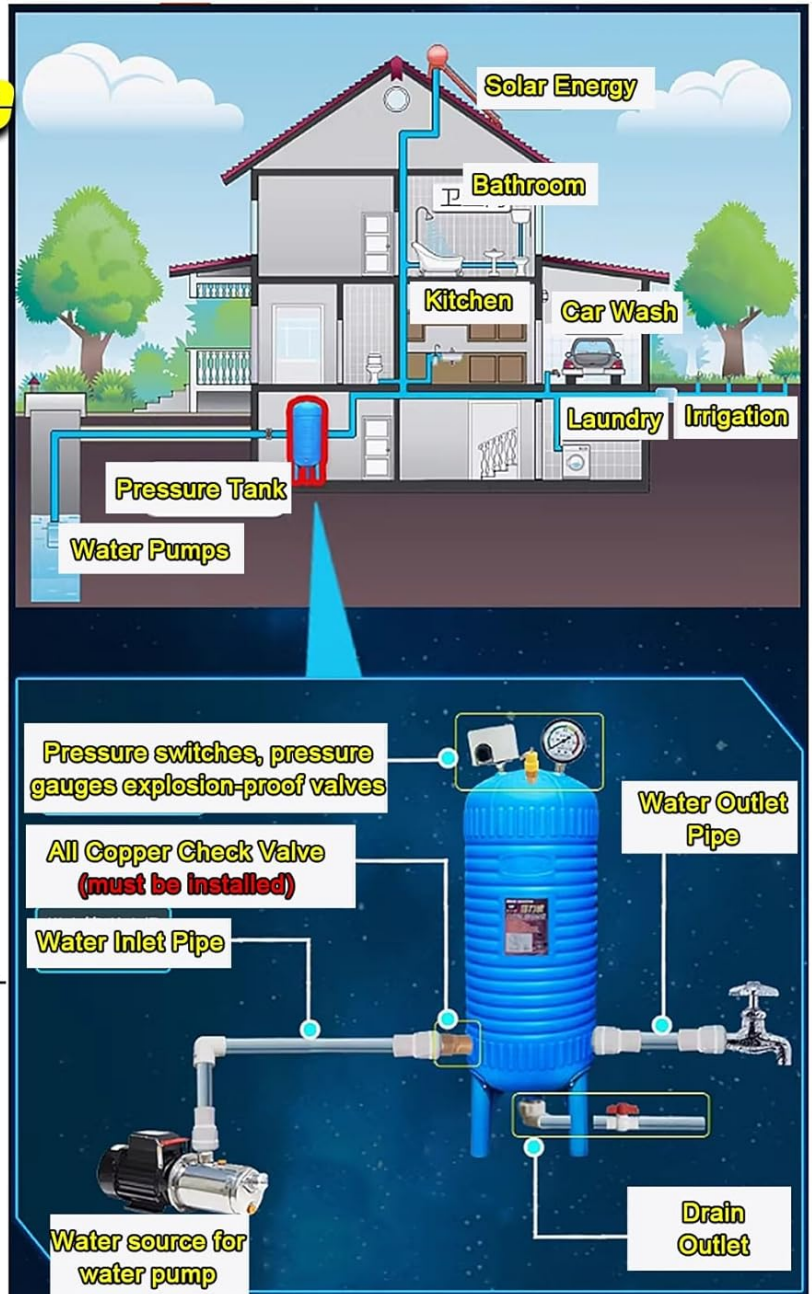


Figure 5: Detailed diagram showing the connection points for the water pump, water inlet, water outlet, and drain outlet, along with the placement of pressure switches and check valves within a typical household water system.



Figure 6: Various perspectives of the water pressure tank installed in different outdoor environments, demonstrating its adaptability.



## Includes All Accessories



Pressure Switch



Pressure Gauges



Explosion-proof Valve



Check Valve



Discharge Elbow



Sewage Ball Valve



Water Inlet Connector



Water Outlet Connector



Raw Material Tape

Figure 7: A visual representation of the accessories included with your water pressure tank, such as the pressure switch, pressure gauges, explosion-proof valve, check valve, discharge elbow, sewage ball valve, water inlet connector, water outlet connector, and raw material tape.

## OPERATING INSTRUCTIONS

The LZMZMQ Water Pressure Tank operates automatically in conjunction with a water pump to maintain consistent water pressure.

### Working Principle:

1. The water pump fills the pressure tank with water. As water enters, the air inside the tank is compressed, generating air pressure.
2. When the air pressure within the tank reaches a preset value (approximately 0.28Mpa), the pressure controller signals the water pump to turn off, stopping the water intake.
3. When water is drawn from the system, the water volume in the tank decreases, causing the air pressure to drop.

4. Once the pressure drops to a lower set value (approximately 0.14Mpa), the controller activates the water pump again to replenish the tank and restore pressure.
5. This automatic cycle ensures a continuous and stable water supply, even during power outages, for a short duration.

**Note:** Due to the compressed air above the water, the actual water storage capacity of the tank is approximately 50% to 70% of its stated volume, depending on the pressure settings. Higher pressure settings generally result in more stored water.

## MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your LZMZMQ Water Pressure Tank.

- **Regular Inspection:** Periodically check all connections for leaks. Tighten any loose fittings.
- **Pressure Monitoring:** Regularly observe the pressure gauge to ensure the system is operating within the desired pressure range.
- **Drainage:** Utilize the drain outlet to periodically flush the tank, removing any accumulated sediment. This helps maintain water quality and system efficiency.
- **Valve Check:** Ensure the safety valve and negative pressure integrated valve are free from obstructions and functioning correctly.
- **Cleanliness:** Keep the exterior of the tank clean. While the PE material is durable, regular cleaning can prevent buildup.
- **Freeze Protection:** Although the tank is freeze-resistant, in extremely cold climates, ensure the installation area is adequately protected to prevent freezing of connected pipes and components.

## TROUBLESHOOTING

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This section addresses common issues you might encounter with your water pressure tank.

Problem	Possible Cause	Solution
<b>Frequent Pump Cycling</b>	Low air charge in the tank, small leak in the system, or incorrect pressure switch settings.	Check for leaks and repair. Verify pressure switch settings. Consult a professional if the issue persists.
<b>Unstable Water Pressure</b>	Insufficient air pressure in the tank, faulty pressure switch, or sediment buildup.	Check tank air pressure. Inspect and clean the pressure switch. Drain and flush the tank.
<b>No Water Flow</b>	Water pump failure, power outage, or clogged pipes.	Check power supply to the pump. Inspect pump for operation. Check for pipe blockages.
<b>Water Leakage</b>	Loose connections, damaged pipes, or faulty valves.	Inspect all connections and tighten as necessary. Replace damaged pipes or valves.
<b>Tank Not Holding Pressure</b>	Internal bladder issue or persistent system leak.	Inspect for external leaks. If no external leaks are found, internal inspection by a professional may be required.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact customer support.

## SPECIFICATIONS

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Below are the detailed specifications for the LZMZMQ Water Pressure Tank.

<b>Feature</b>	<b>Detail</b>
<b>Brand</b>	LZMZMQ
<b>Model Number</b>	LZMZMQ
<b>Material</b>	Food Grade Polyethylene (PE)
<b>Color</b>	Blue
<b>Wall Thickness</b>	1.5 cm (0.6 in)
<b>Max Load</b>	300 kg (660 lbs)
<b>Drain Outlet Inner Diameter</b>	20 mm (0.8 in)
<b>Actual Water Storage Capacity</b>	Approximately 50%-70% of stated volume (due to compressed air)
<b>Assembly Required</b>	No
<b>Item Weight</b>	5000 Grams (11.02 pounds)

### **Available Capacities and Dimensions:**



Figure 8: A comprehensive table detailing the various capacities (50L, 100L, 120L, 150L, 200L) with their corresponding heights, diameters, and inner diameters for water inlet, water outlet, and drain outlet.

Water Capacity	Height	Diameter	Water Inlet/Outlet (Inner Diameter)	Drain Outlet (Inner Diameter)
50L (13.2 Gal)	70cm (27.5in)	34cm (13.4in)	25mm (1in)	20mm (0.8in)
100L (26.4 Gal)	90cm (35.4in)	40cm (15.7in)	32mm (1.26in)	20mm (0.8in)
120L (31.7 Gal)	120cm (47.2in)	40cm (15.7in)	32mm (1.26in)	20mm (0.8in)
150L (39.6 Gal)	110cm (43.3in)	45cm (17.7in)	32mm (1.26in)	20mm (0.8in)
200L (52.8 Gal)	130cm (51.2in)	45cm (17.7in)	32mm (1.26in)	20mm (0.8in)

## WARRANTY AND SUPPORT

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Information regarding specific warranty terms for the LZMZMQ Water Pressure Tank is not provided in this manual. For warranty details, please refer to the product packaging or contact the retailer where the product was purchased.

For technical support, troubleshooting assistance beyond what is covered in this manual, or inquiries about replacement parts, please contact LZMZMQ customer service through their official website or the contact information provided with your purchase.

