iSpring T32M

iSpring T32M Pressurized Water Storage Tank User Manual

Model: T32M | Brand: iSpring

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your iSpring T32M Pressurized Water Storage Tank. This tank is designed for use with Reverse Osmosis (RO) systems to store purified water and deliver it on demand.

The reverse osmosis process is inherently slow, making a pressurized storage tank essential for a consistent water supply. The T32M tank fills with purified water, and its internal air bladder ensures water is dispensed efficiently when the RO faucet is opened. This closed expansion tank design prevents external pollutants from entering the stored water.

2. Key Features

- Metal pressurized tank with up to 3.2 gallon holding capacity.
- Constructed with a food-grade butyl diaphragm and post-cure procedures to ensure a tasteless and odorless water chamber.
- Tested by an independent third-party to meet NSF/ANSI Standard for material safety.
- Features a stainless steel 1/4" NPT valve thread. A 1/4-inch tank valve is included.
- Designed for effective discharge in both vertical and horizontal positions.
- Pre-pressurized between 7-10 psi for common use.

3. Components Overview

The iSpring T32M tank includes the following main components:

- Pressurized Water Storage Tank (Model T32M)
- 1/4" Tank Valve

Figure 1: iSpring T32M Pressurized Water Storage Tank. This image shows the complete tank unit, highlighting its compact design and the included 1/4" tank valve at the top.

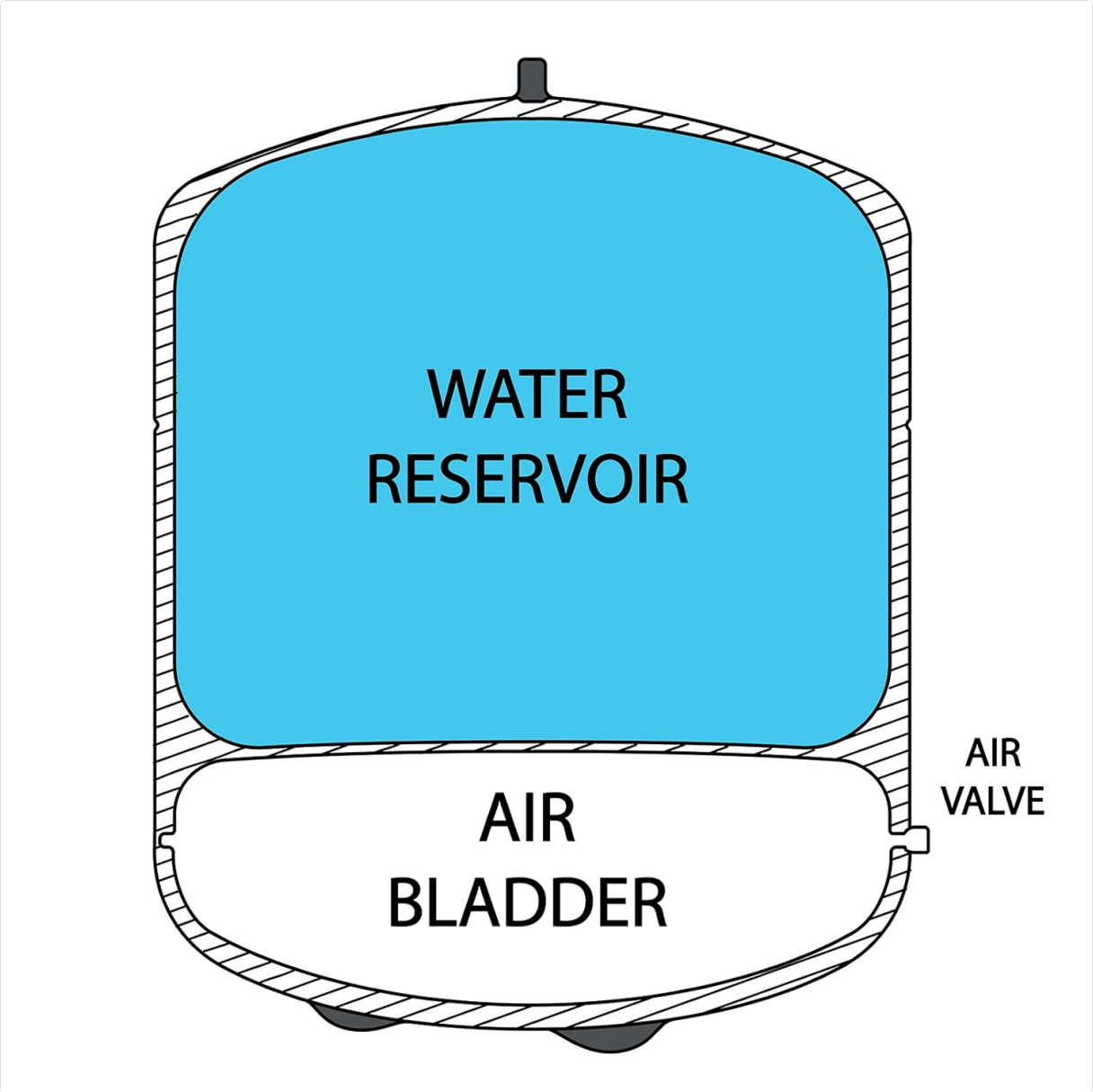


Figure 2: Internal Diagram of Pressurized Water Tank. This diagram illustrates the internal structure, showing the "WATER RESERVOIR" where purified water is stored and the "AIR BLADDER" which provides pressure for dispensing water, along with the air valve.

Figure 3: Air Nozzle for Tank Pressure Adjustment. A close-up view of the standard air nozzle located on the side of the tank, used to adjust the internal air pressure if necessary.

Figure 4: 1/4 inch NPTF Thread and Food Grade Diaphragm. This image highlights the 1/4" NPTF thread for connecting the ball valve and mentions the food-grade butyl diaphragm, ensuring water quality.

4. Specifications

Feature	Detail
Model Name	T32M
Actual Tank Size	4.0 Gallons
Tank Storage Capacity (Draw-down)	3.2 Gallons
Product Dimensions (L x W x H)	11" x 11" x 14"
Item Weight	8.82 Pounds (4 Kilograms)
Connection Type	Stainless steel 1/4" NPT valve thread
Pre-pressurization	7-10 psi

Feature	Detail
Installation Type	Under Sink
Certifications	NSF 61 and 58 listed, IAMPO approved, CE Mark approved (PED)

Figure 5: Tank Size Comparison. This image displays various iSpring pressurized water tanks, including the T32M, T55M, T11M, T20M, and T40M, illustrating their different sizes and capacities.

5. Installation Guide

5.1 Before You Begin

- Ensure all necessary components are present: the T32M tank and the 1/4" tank valve.
- Turn off the water supply to your Reverse Osmosis system.
- Ensure the area under the sink is clean and clear for installation.

5.2 Step-by-Step Installation

1. **Prepare the Tank Valve:** Apply 3-5 wraps of Teflon tape (not included) clockwise around the threaded stem of the 1/4" tank valve.
2. **Attach the Tank Valve:** Screw the prepared tank valve onto the stainless steel 1/4" NPT thread at the top of the T32M tank. Hand-tighten, then use a wrench to tighten an additional 1/4 to 1/2 turn. Do not overtighten.
3. **Connect to RO System:** Connect the outlet of the tank valve to the post-filter side of your Reverse Osmosis system using appropriate tubing (typically 1/4" RO tubing, not included). Ensure all connections are secure and leak-free.
4. **Position the Tank:** Place the tank in its desired location, either vertically or horizontally, ensuring it is stable. The tank is designed to discharge effectively in both positions.
5. **Restore Water Supply:** Slowly turn on the water supply to your RO system. Check for any leaks at all

connection points.

6. **Initial Flush:** After installation, allow the RO system to fill the tank completely. Then, open the RO faucet and drain the tank completely. Repeat this process 2-3 times to flush out any manufacturing residues and ensure optimal water quality. This is particularly important as a slight oily sheen may be present in the initial water due to cartridge sealing agents.

6. Operation

Once installed and flushed, the iSpring T32M tank operates automatically with your Reverse Osmosis system. As the RO system produces purified water, it fills the tank. When you open your RO faucet, the pre-pressurized air bladder inside the tank pushes the stored water out, providing a steady flow.

The tank is pre-pressurized between 7-10 psi. This pressure is generally suitable for most residential RO systems. If you experience consistently low flow from your RO faucet, you may need to check and adjust the tank's air pressure using a standard tire pressure gauge and a bicycle pump (or similar) on the air nozzle (Figure 3).

7. Maintenance

- **Regular Inspection:** Periodically inspect the tank and all connections for any signs of leaks or damage.
- **Pressure Check:** If water flow from your RO faucet decreases significantly, check the tank's air pressure. The recommended pressure is typically 7-10 psi when the tank is empty of water. To check, turn off the water supply to the RO system, drain the tank completely, then check the pressure at the air nozzle. Adjust if necessary.
- **Cleaning:** The exterior of the tank can be wiped clean with a damp cloth. Do not use harsh chemicals.
- **Tank Replacement:** While the tank itself is durable, its internal bladder can degrade over many years. If you notice persistent issues with pressure or water quality that cannot be resolved by other troubleshooting steps, consider replacing the tank.

8. Troubleshooting

Problem	Possible Cause	Solution
Low water flow from RO faucet	Low tank air pressure; Clogged RO filters; Faulty RO membrane.	Check and adjust tank air pressure (7-10 psi when empty). Replace RO filters or membrane as needed.
Water has an "oily sheen" or unusual taste after initial installation	Residue from manufacturing process (sealing agents).	Perform thorough initial flushing (drain and refill tank 2-3 times). This is normal and will dissipate.
Tank does not fill with water	Water supply to RO system is off; RO system is not producing water; Tank valve is closed.	Ensure water supply is on. Check RO system for proper operation. Ensure tank valve is open.
Water leaks from connections	Loose connections; Insufficient Teflon tape; Damaged O-rings/fittings.	Tighten connections. Reapply Teflon tape. Inspect and replace damaged parts.

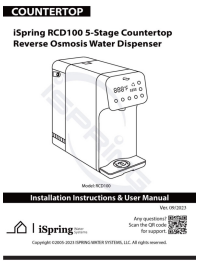
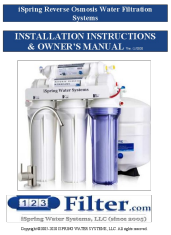
9. Warranty and Support

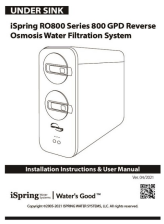
iSpring products are designed for reliability and performance. For warranty information and to activate your product warranty, please visit the official iSpring website:

www.iSpringFilter.com

For technical support, troubleshooting assistance, or questions regarding your iSpring T32M tank, please contact iSpring customer service through their website or the contact information provided with your product packaging.

Related Documents - T32M

	iSpring RO500 & RO500AK 3-Stage Under Sink Reverse Osmosis System Installation & Owner's Manual Comprehensive installation instructions and owner's manual for the iSpring RO500 and RO500AK 3-Stage Under Sink Reverse Osmosis Water Filtration Systems. Learn about setup, operation, maintenance, and troubleshooting.
	iSpring CRO1000 Reverse Osmosis System: Installation & Operating Manual Comprehensive installation and operating manual for the iSpring CRO1000 Commercial Grade 1000 GPD Reverse Osmosis System. Learn about setup, features, maintenance, and troubleshooting for pure drinking water.
	iSpring RCD100 5-Stage Countertop Reverse Osmosis Water Dispenser Installation and User Manual User manual for the iSpring RCD100 5-Stage Countertop Reverse Osmosis Water Dispenser, covering installation, operation, filter replacement, troubleshooting, and warranty. Learn how to set up and maintain your water filtration system.
	iSpring Reverse Osmosis Water Filtration Systems: Installation and Owner's Manual Comprehensive guide for installing and operating iSpring Reverse Osmosis water filtration systems, covering setup, maintenance, and troubleshooting for optimal performance.

	[iSpring RO800 Series 800 GPD Reverse Osmosis Water Filtration System Installation and User Manual] This manual provides installation instructions and user guidance for the iSpring RO800 Series 800 GPD Reverse Osmosis Water Filtration System. It covers product introduction, system installation, usage, maintenance, and warranty information.
	[iSpring RCS5T Reverse Osmosis Water Filtration System: Installation and Operating Manual] Comprehensive installation and operating manual for the iSpring RCS5T Reverse Osmosis Water Filtration System, detailing setup, maintenance, and troubleshooting for clean, healthy drinking water.