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› Amtrol WX 102 Well-X-Trol InLine Water Well System Pressure Tank User Manual

Amtrol WX 102

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Brand: Amtrol | Model: WX 102

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Amtrol WX 102 Well-X-Trol InLine Water Well System Pressure Tank. This pressure tank is designed to maintain water pressure in a well water system, reduce pump cycling, and provide a reserve of pressurized water. Adhering to the guidelines in this manual will ensure optimal performance and longevity of the product.



Figure 1: Front view of the Amtrol WX 102 pressure tank, showing its compact, cylindrical design and top connection point.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the pressure tank. Failure to follow these instructions could result in serious injury or property damage.

- **Professional Installation Recommended:** Installation of this pressure tank should be performed by a qualified professional to ensure compliance with local codes and proper system integration.
- **Pressure Hazard:** This tank operates under pressure. Always depressurize the system before attempting any installation, maintenance, or repair.
- **Temperature Limits:** Do not expose the tank to temperatures exceeding its maximum operating temperature of 200°F (93°C).
- **Water Damage:** Ensure all connections are properly sealed to prevent water leaks, which could cause property damage.
- **Lifting:** The tank has a shipping weight of 9 lbs. Use proper lifting techniques to avoid injury.

3. COMPONENTS AND PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged.

- (1) Amtrol WX 102 Well-X-Trol InLine Water Well System Pressure Tank
- *Additional fittings and plumbing components are sold separately and are required for installation.*

4. SPECIFICATIONS

Feature	Specification
Model	WX 102
Tank Volume	4.4 Gallons
Factory Pre-charge Pressure	38 PSI
Drawdown @ 30-50 PSI Setting	1.5 Gallons
Drawdown @ 40-60 PSI Setting	1.3 Gallons
System Connection	3/4" NPT
Maximum Operating Temperature	200°F (93°C)
Maximum Working Pressure	150 PSI
Height	15 inches
Diameter	11 inches
Shipping Weight	9 lbs
Shell Material	Steel
Diaphragm Material	Heavy Duty Butyl
Liner Material	Virgin Polypropylene
Coating	Blue Enamel
Color	Blue

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your pressure tank. It is highly recommended that installation be performed by a licensed plumber or qualified well system professional.

5.1 Pre-Installation Checks

- **Inspect the Tank:** Carefully inspect the tank for any signs of shipping damage. Do not install a damaged tank.
- **Verify Pre-charge Pressure:** The tank comes factory pre-charged to 38 PSI. Before installation, verify this pressure using an accurate pressure gauge. Adjust if necessary to match your pump's cut-in pressure, typically 2 PSI below the pump's cut-in pressure.
- **Location:** Choose a location that is protected from freezing temperatures, direct sunlight, and physical damage. Ensure adequate space for future maintenance.

5.2 Installation Steps

1. **Depressurize System:** If replacing an existing tank, turn off the well pump and drain the water system completely to relieve all pressure.
2. **Mounting:** The WX 102 is an inline tank and can be installed vertically or horizontally. Ensure it is securely mounted to prevent movement and strain on plumbing connections.
3. **Connect to System:** Connect the tank to the water system using the 3/4" NPT connection. Use appropriate thread sealant (e.g., PTFE tape or pipe dope) on all threaded connections to ensure a watertight seal. Avoid overtightening.
4. **Inspect for Leaks:** Once connections are made, slowly repressurize the system and carefully inspect all connections for leaks. Tighten any leaking connections as needed.
5. **Verify Operation:** Turn on the well pump and allow the system to reach its cut-out pressure. Observe the pump's cycling to ensure it operates correctly and the tank is effectively reducing cycle frequency.



Figure 2: Side view of the Amtrol WX 102 pressure tank, highlighting the brand logo and the bottom connection point for system integration.

6. OPERATION

The Amtrol WX 102 pressure tank operates automatically as part of your water well system. It works by storing pressurized water, which reduces the number of times your well pump needs to turn on and off. This extends the life of your pump and provides a more consistent water pressure throughout your home or property.

- When water is drawn from the system, the pressure in the tank decreases.
- Once the pressure drops to the pump's cut-in setting, the pump activates to refill the tank and system.
- The pump continues to run until the system reaches its cut-out pressure, at which point the pump turns off.
- The tank's internal diaphragm separates the air charge from the water, preventing waterlogging and maintaining efficiency.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your pressure tank.

- **Annual Air Charge Check:** At least once a year, check the air pre-charge pressure of the tank. Turn off the pump, drain the system, and use a tire pressure gauge on the air valve (located at the top of the tank). Adjust the pressure to 2 PSI below your pump's cut-in pressure.
- **Inspect for Corrosion:** Periodically inspect the exterior of the tank for any signs of rust or corrosion. Address any issues promptly to prevent further degradation.
- **Check Connections:** Ensure all plumbing connections remain tight and free of leaks.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pump cycles frequently (short cycling)	Low or no air pre-charge in tank; Waterlogged tank; Damaged diaphragm.	Check and adjust air pre-charge (Section 7); If water comes out of air valve, diaphragm is likely ruptured, requiring tank replacement.
No water or low water pressure	Pump issue; System leak; Tank not properly charged.	Check pump operation; Inspect plumbing for leaks; Verify tank pre-charge. Consult a professional if issues persist.
Water leaking from tank connections	Loose connections; Improperly sealed threads.	Depressurize system and re-tighten connections. Apply more thread sealant if necessary.

9. WARRANTY AND SUPPORT

The Amtrol WX 102 pressure tank comes with a **7-year warranty** provided by the seller. Please note that the buyer is responsible for return shipping costs under this warranty.

For warranty claims, technical support, or further assistance, please contact the seller or the manufacturer directly. Keep your purchase receipt and product model information readily available when contacting support.

Manufacturer: Amtrol

Model: WX 102

UPC: 755717495983

Contact information for the seller can typically be found on your purchase invoice or the platform where the product was acquired.

