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› AMTROL EX-30 102-1#30 Extrol Expansion Tank Instruction Manual

Amtrol 102-1#30

AMTROL EX-30 102-1#30 Extrol Expansion Tank

Model: 102-1#30 | Brand: Amtrol

INTRODUCTION

The Amtrol EX-30 102-1#30 Extrol Expansion Tank is engineered to manage system pressure in hydronic heating and chilled water systems. It effectively accommodates the expansion of water as it heats, preventing excessive pressure buildup and contributing to the overall longevity and efficiency of the system. This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your expansion tank.



Image showing the Amtrol EX-30 102-1#30 Extrol Expansion Tank, a gray cylindrical unit, typically installed near a water heater or boiler.

SETUP AND INSTALLATION

Installation of the Amtrol EX-30 102-1#30 Extrol Expansion Tank should be performed by a qualified professional in accordance with all local plumbing codes and manufacturer instructions. Ensure the system is depressurized before beginning installation.

Key Features:

- InLine well tank design.
- Watertight reservoir for expanded water.
- Thick, heavy-duty Butyl/EPDM diaphragm for extended service life.
- Sealed air cushion, factory pre-charged and 100% tested.
- Strong, deep-drawn steel tank construction.

Installation Steps:

1. **System Preparation:** Turn off the water supply and drain the system to relieve pressure.
2. **Mounting:** Securely mount the expansion tank in an upright or suspended position, typically near the water heater or boiler, ensuring it is supported adequately.
3. **Connection:** Connect the tank to the system piping using appropriate fittings. Ensure all connections are tight and leak-free.
4. **Pre-Charge Check:** Verify the tank's pre-charge pressure matches the system's cold fill pressure using an air pressure gauge. Adjust if necessary.
5. **System Refill:** Slowly refill the system, bleeding air as necessary, and check for leaks.

OPERATING INSTRUCTIONS

The Amtrol EX-30 102-1#30 Extrol Expansion Tank operates passively to maintain stable system pressure. As water in the heating or chilled water system heats, it expands. This expanded water enters the tank, compressing the air cushion behind the diaphragm. When the water cools, it contracts, and the stored water is returned to the system, preventing pressure drops. No user interaction is required for its normal operation.

MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your Amtrol EX-30 102-1#30 Extrol Expansion Tank. Perform the following checks annually:

- **Pressure Check:** Use an air pressure gauge to check the tank's pre-charge pressure. It should match the system's cold fill pressure. If the pressure is low, add air using a bicycle pump or air compressor.
- **Visual Inspection:** Inspect the tank for any signs of corrosion, leaks, or physical damage. Address any issues promptly.
- **Waterlogging Test:** Tap the tank. If it sounds solid or feels heavy, it may be waterlogged, indicating a failed diaphragm. If water comes out when the air valve is pressed, the diaphragm has failed. A waterlogged tank requires replacement.

Consult a qualified technician for any repairs or replacements beyond simple pressure adjustments.

TROUBLESHOOTING

If you experience issues with your heating or chilled water system that may be related to the expansion tank, consider the following:

- **Frequent Pressure Relief Valve Discharge:** This often indicates that the expansion tank is not functioning correctly, possibly due to a loss of air charge or a failed diaphragm.
- **System Pressure Fluctuations:** Significant pressure changes between hot and cold cycles can point to an issue with the expansion tank's ability to absorb expansion.
- **Waterlogged Tank:** If the tank is heavy and water comes out when the air valve is pressed, the diaphragm has failed.

In all cases, it is recommended to contact a qualified plumbing or HVAC professional for diagnosis and repair.

SPECIFICATIONS

Specification	Detail
Model Number	102-1#30
Brand	Amtrol
Item Weight	7.93 pounds
Product Dimensions	11 x 11 x 15 inches
Material	Alloy Steel
Style	Coating: Blue Enamel; Shell Material: Steel; Diaphragm Material: Heavy Duty Butyl
OEM Part Number	102-1

Specification	Detail
UPC	642031395726, 642031113061, 784497649729
Color	Gray
Item Package Quantity	1

WARRANTY INFORMATION

This product is subject to the Amazon.com Voluntary 30-Day Return Guarantee. You can return many items purchased within 30 days following delivery. This guarantee does not affect your legal right of withdrawal. For more details on exceptions and conditions, please refer to the Amazon.com return policy.

CUSTOMER SUPPORT

For technical assistance, product inquiries, or professional installation services, please contact Amtrol customer support or a certified HVAC professional. Refer to the official Amtrol website for the most up-to-date contact information and resources.

OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found for this specific model in the provided data.