



EXTROL[®] PRO

EXPANSION TANKS FOR HYDRONIC HEATING & CHILLED WATER SYSTEMS

INSTALLATION & OPERATION INSTRUCTIONS

Models EX-15PRO, EX-30PRO, EX-60PRO



NOTE: Inspect for shipping damage. Notify freight carrier or store where purchased immediately if damage is present. To avoid risk of personal injury and property damage, if the product appears to be malfunctioning or shows signs of corrosion, call a qualified professional immediately. Current copies of the product manual can be viewed at www.amtrol.com. Use proper safety equipment when installing.



THIS IS THE SAFETY ALERT SYMBOL. IT IS USED TO ALERT YOU TO POTENTIAL PERSONAL INJURY AND OTHER HAZARDS. OBEY ALL SAFETY MESSAGES THAT FOLLOW THIS SYMBOL TO REDUCE THE RISK OF PERSONAL INJURY AS WELL AS PROPERTY DAMAGE.

WARNING USE ONLY IN RESIDENTIAL CLOSED HYDRONIC AND RADIANT SYSTEMS. Do not install on domestic water systems, or in open heating systems. Corrosion and tank failure may result. Use a Therm-X-Trol[®] or Therm-X-Span[®] for domestic water systems.

WARNING READ CAREFULLY THE PRODUCT INSTALLATION, OPERATING AND MAINTENANCE MANUAL. FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS IN THE MANUAL MAY RESULT IN SERIOUS OR FATAL INJURY AND/OR PROPERTY DAMAGE, AND WILL VOID THE PRODUCT WARRANTY. THIS PRODUCT MUST BE INSTALLED BY A LICENSED PROFESSIONAL. FOLLOW ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS, IN THE ABSENCE OF SUCH CODES, FOLLOW THE CURRENT EDITIONS OF THE NATIONAL PLUMBING CODE AND NATIONAL ELECTRIC CODE, AS APPLICABLE.

WARNING This Product, like most Products under pressure, may over time corrode, weaken and burst or explode, causing serious or fatal injury, leaking or flooding and/or property damage. To minimize risk, a licensed professional must install and periodically inspect and service the Product. A drip pan connected to an adequate drain must be installed if leaking or flooding could cause property damage. Do not locate in an area where leaking could cause property damage to the area adjacent to the appliance or to lower floors of the structure.

WARNING RUPTURE OR EXPLOSION HAZARD. Do not expose product to freezing temperatures or temperatures in excess of 200°F. Do not adjust the pre-charge or

re-charge this Product except during installation or regular inspection. Replace the Product and do not adjust the pre-charge if corroded, damaged or with diminished integrity. Adjustments to pre-charge must be done at ambient temperature only. Failure to properly size the Product or follow these instructions may result in excessive strain on the system and may lead to Product failure, serious or fatal personal injury, leakage, and/or property damage.

WARNING A relief valve must be installed to prevent pressure in excess of local code requirement or maximum working pressure designated in the Product Manual, whichever is less. At least once every 3 years or if discharge is present, a licensed professional should inspect the pressure relief valve and replace if corrosion is evident or the valve does not function. **FAILURE TO INSPECT THIS VALVE AS DIRECTED COULD RESULT IN UNSAFE PRESSURE BUILD-UP WHICH CAN RESULT IN PRODUCT FAILURE, SERIOUS INJURY OR DEATH AND/OR SEVERE PROPERTY DAMAGE AND VOID THE PRODUCT WARRANTY.**

WARNING **Chlorine & Aggressive Water:** The water quality can significantly influence the life of this Product. You should test for corrosive elements, acidity, total solids and other relevant contaminants, including chlorine and treat your water appropriately to insure satisfactory performance and prevent premature failure.

WARNING This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY FOR
IMPORTANT GENERAL SAFETY INFORMATION AND ADDITIONAL SPECIFIC SAFETY ALERTS.
VISIT www.amtrol.com TO VIEW HELPFUL VIDEOS.**

EXTROL PRO® is designed for closed, low temperature systems with a maximum operating temperature of 200° F. The product can be used in glycol applications and features a plastic liner that is compatible with barrier and non-barrier tubing.

Pre-Installation

1. Visually inspect for any damage. Ensure expansion tank is sized properly for the intended application (Figure 1: Boiler Application, Figure 2: Radiant Application).
2. With tank empty of water, remove plastic cap from air stem (Figure 3).
3. Check precharge pressure and adjust if necessary, charging with air to match boiler fill valve setting.
4. Replace cap and tighten snugly, ensuring the cap is flush against the tank surface.

WARNING FAILURE TO PROPERLY SEAL CAP WILL RESULT IN LOSS OF PRECHARGE CAUSING PRODUCT TO FAIL.

Figure 1. Boiler Application

Boiler Net Output in 1000'S of BTU/Hr.	Type of Radiation			
	Finned Tube Baseboard or Radiant Panel	Convectors or Unit Heaters	Radiators Cast Iron	Baseboard Cast Iron
25	EX-15PRO	EX-15PRO	EX-15PRO	EX-15PRO
50	EX-15PRO	EX-15PRO	EX-30PRO	EX-30PRO
75	EX-30PRO	EX-30PRO	EX-60PRO	EX-60PRO
100	EX-30PRO	EX-60PRO	EX-60PRO	EX-60PRO
125	EX-60PRO	EX-60PRO	*	*
150	EX-60PRO	EX-60PRO	*	*
175	EX-60PRO	EX-60PRO	*	*
200	EX-60PRO	*	*	*
250	*	*	*	*
300	*	*	*	*

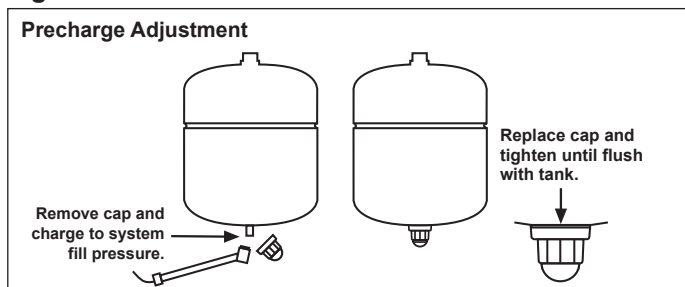
*Sizing based on: 15 psig Fill; 30 psig Relief Valve; 180°F Average Temperature.
* See Extrol EX and SX Sizing.*

Figure 2. Radiant Application

Feet of Tubing	Nominal Pex Tubing Size				
	3/8"	1/2"	5/8"	3/4"	1"
1,000	EX-15PRO	EX-15PRO	EX-15PRO	EX-15PRO	EX-15PRO
5,000	EX-15PRO	EX-15PRO	EX-15PRO	EX-30PRO	EX-60PRO
7,500	EX-15PRO	EX-15PRO	EX-30PRO	EX-60PRO	*
10,000	EX-15PRO	EX-30PRO	EX-60PRO	EX-60PRO	*
14,000	EX-15PRO	EX-30PRO	EX-60PRO	*	*
18,000	EX-30PRO	EX-60PRO	*	*	*
22,000	EX-30PRO	EX-60PRO	*	*	*
30,000	EX-60PRO	*	*	*	*

*Sizing based on: 15 PSIG fill; 30 PSIG relief valve; 120° F average temperature.
System filled with water. For glycol and solar applications, consult AMTROL Technical Support.
* Contact AMTROL Technical Support.*

Figure 3.



Installation

1. Drain the boiler system or isolate the area where the EXTROL PRO will be installed.
2. Install the EXTROL PRO on the supply side of the boiler, on the suction-side of the heating circulator(s) (Figure 4).

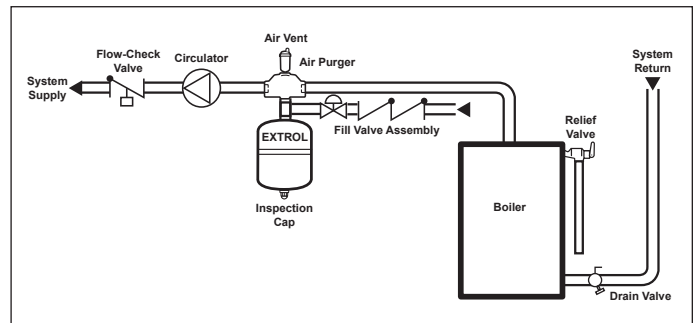
WARNING Mount tank vertically in downward position only. Ensure the piping can support the entire weight of the tank when full of water.

WARNING Do not install the EXTROL PRO on a dead-end pipe or wherever air can collect. This can cause corrosion and possible leakage.

3. Pressurize the system and check for leaks. Repair as necessary.
4. Restart the boiler system and check for relief valve discharge. If the relief valve drips, the tank may be improperly charged or undersized.

NOTE: Although the EXTROL-PRO does not have to be installed at the base of an air purger, this installation is recommended to reduce air in the system and provide a compact installation. Some method of air elimination is required to ensure an oxygen-free system.

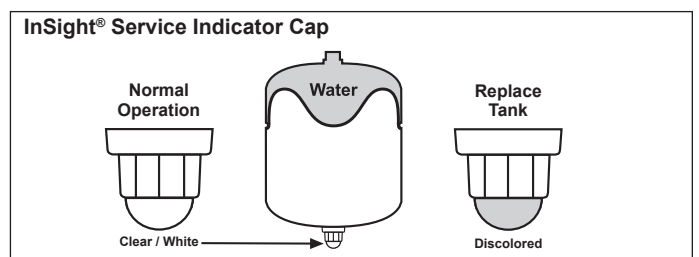
Figure 4.



Maintenance

A professional plumber should check the complete system, including the expansion tank, yearly and more frequently as the system ages. Checking the precharge allows a small quantity of air to escape and can result in an insufficient air charge. Always check the precharge while the tank is isolated and empty of water, and be sure to maintain the proper precharge whenever the tank is inspected. Monitor the tip of the inspection cap for discoloration (Figure 5) in addition to regular product inspection. Contact the installer or a plumbing professional if inspection cap is discolored; tank replacement required. Do not rely on cap as sole indication of tank condition.

Figure 5.



Warranty

EX-PRO Models: Seven (7) Year Limited Warranty
Visit www.amtrol.com for complete warranty details.



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