USE ONLY IN RESIDENTIAL CLOSED HYDRONIC 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. Use a Solar EXTROL® for closed-loop solar heating systems.

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 240°F (Intermittent); 225°F (Continuous).

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SOLAR EXTROL® is designed for use in a closed-loop solar heating systems with a maximum operating temperature of 250° F (Intermittent); 225° F (Continuous).

**Pre-Installation**
1. Visually inspect for any damage. Ensure expansion tank is sized properly for the application (Figure 1).
2. With tank empty of fluid, remove plastic cap from air stem (Figure 2).
3. Adjust air precharge to match the system fill pressure. Unit is shipped at 25 PSIG.
4. Replace cap and tighten snugly, ensuring the cap is flush against the tank surface.

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

**Installation**
1. Drain the solar system or isolate the area where the Solar Extrol will be installed.
2. Install the Solar Extrol on the suction-side of the circulator (Figure 3).

   **WARNING** Mount tank vertically only. Ensure the piping can support the entire weight of the tank when full.
   **WARNING** Do not install on a dead-end pipe or wherever air can collect. This can cause internal corrosion and possible leakage.
   **WARNING** Do not install in floor joist space.

3. Once the Solar Extrol is installed, re-pressurize the system and check for leaks. Repair as necessary.
4. Restart the system and check for relief valve discharge. If the relief valve drips, the tank may be improperly charged or undersized.
5. The Solar Extrol is now operational and will absorb expanded fluid during system operation.

**Operation**
1. The Solar Extrol is installed on the supply-side of the solar system. Its sealed-in air pre-charge prevents fluid from entering the tank until the system pressure begins to rise.
2. As the water temperature rises, fluid enters the Solar Extrol.
3. As the system cools, the diaphragm is forced downward. Fluid is expelled from the Solar Extrol, back into the system.

**NOTE:**
Although the Solar Extrol 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 reduce entrained air.

**Maintenance**
A licensed professional 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 fluid, and be sure to maintain the proper precharge whenever the tank is inspected. Monitor the tip of the service indicator cap for discoloration (Figure 4) in addition to regular product inspection. Contact the installer or a licensed professional if indicator cap is discolored; tank replacement required. Do not rely on cap as sole indication of tank condition.

**Warranty**
SE Models: Five (5) Year Limited Warranty
Visit www.amtrol.com for complete warranty details.