



# THERMAL EXPANSION TANKS

## TYPICAL SPECIFICATIONS

### THERM-X-TROL® ST Series Thermal Expansion Tank

For use with Deep Drawn models ST-SC-DD, ST-12C-DD, ST-20VC-DD, ST-30VC-DD and ST-42VC-DD

The Domestic Hot Water System shall include an AMTROL THERM-X-TROL pre-charged diaphragm expansion tank to accommodate thermally expanded water generated during normal system operation; limiting the pressure increase to the maximum allowed for the system components.

Furnish and install as shown on plans a THERM-X-TROL Model ST-\_\_\_\_-C or equal with a Total Tank Volume of \_\_\_\_ gal., a Diameter of \_\_\_\_ (in./mm), a Height of \_\_\_\_ (in./mm) and a Maximum Working Pressure of \_\_\_\_ (psig/BAR). Tank shall have a Deep-Drawn steel shell with no longitudinal welds or "T" joints. A Butyl rubber diaphragm shall be affixed to the pressure shell via a circumferentially grooved seal.

The internal water chamber shall include a molded Polypropylene liner with a silver-ion based Antimicrobial compound; tested to Standard JIS Z 2801 for efficacy in the reduction of Legionella (*L. pneumophila*), Staphylococcus (*S. aureus*) and Coliform (*E. coli*) bacteria on its surface.

The water connection shall be 304L Stainless Steel with a Turbulator™ circulation device inserted to encourage reduction of stagnant water within the tank water chamber.

The tank shall be constructed, tested and stamped in accordance with Section VIII, Division 1 of the ASME Code. All welds to conform to ASME Section IX. Tanks shall carry NSF Standard 61 and IAPMO Lead-Free listings. The manufacturer shall have at least five years experience in the fabrication of diaphragm-type, ASME expansion tanks and employ ASME-certified inspectors within the facility.



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