AMTROL

# THERMXTROL®

Water Heater Expansion Tanks

# WE CAN TAKE THE PRESSURE™




7 Years | Antimicrobial | Turbulator | InSight

# THERM-X-TROL®

AMTROL®

Amtrol invented the thermal expansion tank to control pressure build-up in closed, potable water systems. This prevents the water heater pressure relief valve from opening, saves energy and eliminates a potential safety hazard. All Therm-X-Trol expansion tanks are made in the USA in our ISO 9001:2015 certified facility.



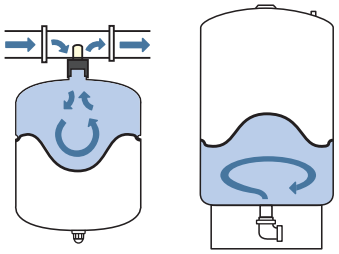

## 7-Year Warranty

- The industry's longest.

Antimicrobial. Turbulator. InSight.

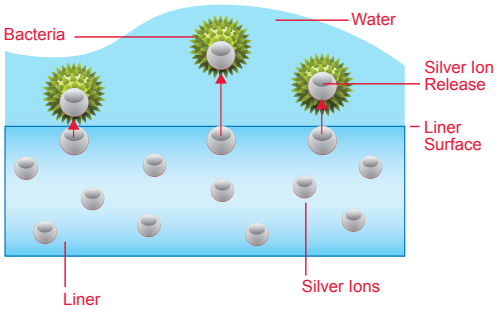
## Fresh Water Turbulator®

- Patented diffuser agitates incoming water to keep it tasting fresh and clean.
- Water-jet scrubbing action prevents sediment from collecting inside the tank.



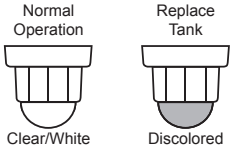
## Antimicrobial Liner Protection

- Safe, Silver-Ion technology targets active microorganisms; neutralizes bacteria on contact.
- Proprietary compound is molded into the water reservoir lining; lasts for the life of the tank.




## InSight® Indicator Cap

- Patented sight glass changes color if tank needs replacing.
- Alerts homeowner or plumber to a problem before damage can occur.




## ST-1 for Tankless and POU Water Heaters




- Absorbs thermal expansion and pressure surge to protect the heat exchanger.
- Patented air cell technology requires no precharge adjustment or maintenance.
- 304L stainless steel waterway.
- Big protection in a compact size.

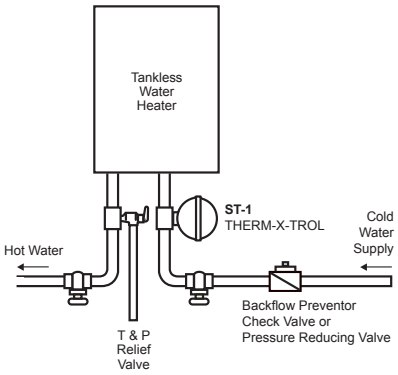


# Thermal Expansion Tanks



## Therm-X-Trol® for Tankless and POU

- Accepts expanded water as system temperature rises and returns hot water to system when demand occurs.
- Patented air cell eliminates pressure surge to protect heat exchanger.
- Required by most building codes and all water heater warranties.
- 7-Year limited warranty: The industry's longest.




**Specifications**

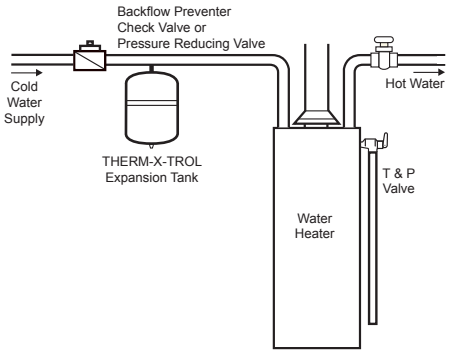
| Model Number | Diameter (Inches) | Height (Inches) | System Connection (NPTM) | Shipping Weight (lbs.) |
|---|---|---|---|---|
| ST-1 | 3.4 | 4 | 1/2 | 1 |

*Stainless Steel Waterway.*
*Maximum Intermittent Temperature: 140°F. Maximum Working Pressure: 150 psig.*




## Therm-X-Trol In-Line Models

- 7-Year limited warranty: The industry's longest.
- Maintains safe expansion pressure in hot water systems as required by most building codes and warranties.
- 50 PSI factory precharge; The industry's highest.
- InSight® Indicator Cap, Antimicrobial Liner™ and Turbulator®.




**Specifications**

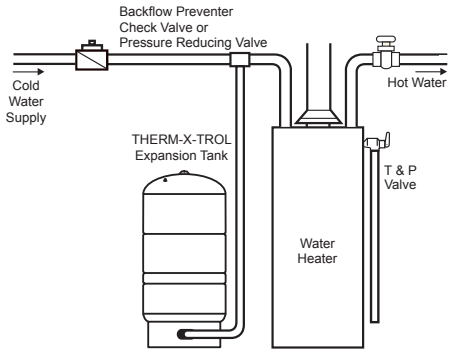
| Model Number | Tank Volume (Gallons) | Max. Accept. Volume (Gallons) | Diameter (Inches) | Height (Inches) | System Connection (NPTM) | Shipping Weight (lbs.) |
|---|---|---|---|---|---|---|
| ST-5 | 2.0 | 0.9 | 8 | 13 | 3/4 | 5 |
| ST-12 | 4.4 | 3.2 | 11 | 15 | 3/4 | 9 |

*Stainless Steel System Connection.*
*Maximum Operating Temperature: 200°F. Maximum Working Pressure: 150 psig.*
*Factory Precharge: 50 psig.*




## Therm-X-Trol Vertical Models

- Designed for large residential and light commercial (non-ASME) applications.
- Visit amtrol.com for sizing information.
- 1-Year limited warranty.




**Specifications**

| Model Number | Tank Volume (Gallons) | Max. Accept. Volume (Gallons) | Diameter (Inches) | Height (Inches) | System Connection (NPTF) | Shipping Weight (lbs.) |
|---|---|---|---|---|---|---|
| ST-25V | 10.3 | 10.3 | 15 | 19 | 3/4 | 23 |
| ST-30V | 14.0 | 11.3 | 15 | 24 | 3/4 | 25 |
| ST-42V | 20.0 | 11.3 | 15 | 32 | 3/4 | 33 |
| ST-60V | 34.0 | 34.0 | 22 | 30 | 1 1/4 | 61 |
| ST-80V | 44.0 | 34.0 | 22 | 36 | 1 1/4 | 69 |
| ST-180V | 62.0 | 34.0 | 22 | 47 | 1 1/4 | 92 |
| ST-200V | 81.0 | 34.0 | 22 | 56 | 1 1/4 | 103 |
| ST-210V | 86.0 | 46.0 | 26 | 47 | 1 1/4 | 123 |

*Stainless Steel System Connection.*
*Maximum Operating Temperature: 200°F. Maximum Working Pressure: 150 psig*
*Factory Precharge: 40 psig.*

# Selection & Selling Tools




*Homeowner Brochure (MC10230) explains how Therm-X-Trol controls thermal expansion to provide a better, safer system.*

## Therm-X-Trol® Quick Sizing Charts

| Maximum Temperature Setting 140°F | | | |
|---|---|---|---|
| Water Heater Size (gals.) | Static Supply Pressure (psig) | | |
| | 40 | 60 | 80 |
| Tankless & P.O.U up to 2 gal. | ST-1 | ST-1 | ST-1 |
| 40 | ST-5 | ST-5 | ST-5 |
| 50 | ST-5 | ST-5 | ST-5 |
| 60 | ST-12 | ST-12 | ST-12 |
| 80 | ST-12 | ST-12 | ST-12 |
| 120 | ST-12 | ST-12 | ST-25V |

| Maximum Temperature Setting 160°F | | | |
|---|---|---|---|
| Water Heater Size (gals.) | Static Supply Pressure (psig) | | |
| | 40 | 60 | 80 |
| 40 | ST-5 | ST-5 | ST-12 |
| 50 | ST-5 | ST-12 | ST-12 |
| 60 | ST-12 | ST-12 | ST-12 |
| 80 | ST-12 | ST-12 | ST-25V |
| 120 | ST-12 | ST-25V | ST-25V |

| Maximum Temperature Setting 180°F | | | |
|---|---|---|---|
| Water Heater Size (gals.) | Static Supply Pressure (psig) | | |
| | 40 | 60 | 80 |
| 40 | ST-12 | ST-12 | ST-12 |
| 50 | ST-12 | ST-12 | ST-12 |
| 60 | ST-12 | ST-12 | ST-25V |
| 80 | ST-12 | ST-25V | ST-25V |
| 120 | ST-25V | ST-25V | ST-25V |

Sizing based on: 40°F incoming water temperature; 150 psi T&P safety relief valve;
Precharge equal to static supply pressure (ST-5 and above). ST-1 for Tankless and Point-Of-Use (POU) Heaters up to 2 gallons.
For larger applications: Visit amtrol.com, download the AMTROL App or contact Technical Support at 401.535.1216.

*Quick Sizing Card (MC8520) makes selecting the right tank fast and easy.*




*The Amtrol App is your mobile toolkit. Also, visit amtrol.com for selection, installation and service tips.*


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Antimicrobial. Turbulator. InSight.

ST-1 through ST-25V only


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