

Application

Designed for installation on potable water lines between the backflow preventer or pressure reducing valve and the water heater to protect against water thermal expansion. When system pressure increases, water enters the tank's polypropylene lined water chamber which expands a diaphragm into a pre-charged air chamber, keeping system pressure below the relief valve setting.



Standards Compliance

- cUPC® Listed
- Water Quality Association - Certified to NSF/ANSI/CAN 61 & NSF/ANSI 372*
*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Features

Sizes (liters)	8, 18, 35
Maximum Supply Pressure	80 PSI
End connections	Threaded NPT ANSI B1.20.1
Factory Pre-charge (adjustable)	40 PSI
Note	Model XT tanks are certified to NSF 61 domestic hot but are suitable for temperatures up to 200° F.
Note	Not suitable for use on fire sprinkler systems as required by NFPA 13 or 13D.

Materials

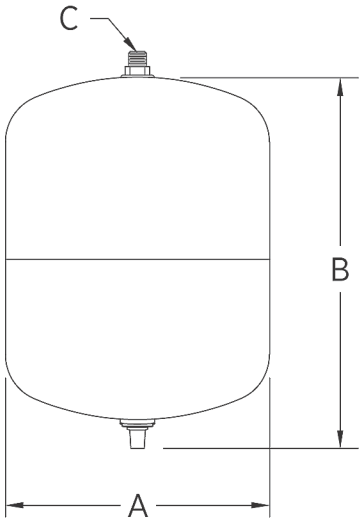
Coating	Epoxy finish (outer shell)
Connection	Stainless Steel
Diaphragm	Butyl Rubber
Liner	Polypropylene
Outer Shell	Carbon Steel

Suggested Pairing

- Reduced Pressure Backflow Preventer [975XL2 \(1/4" - 1/2"\)](#)
- Reduced Pressure Backflow Preventer [975XL2 \(3/4" - 2"\)](#)
- Pressure Reducing Valve [NR3XL](#)
- Pressure Relief Valve [P1000AXL](#)
- Temperature Pressure Relief Valve [TP1100A](#)
- Vacuum Relief Valve [VR10XL](#)



XT-8



Dimensions & Weights (do not include pkg.)

TANK DIMENSIONS AND CAPACITIES								
MODEL NUMBER	MAXIMUM SUPPLY PRESSURE psi	TANK VOLUME (gallons)	MAXIMUM ACCEPTANCE VOLUME (gallons)	FACTORY PRE-CHARGE psi	DIMENSIONS			WEIGHT lbs.
					DIAMETER A	HEIGHT B	SYSTEM CONNECTION C	
XT-8	80	2.1	1.0	40	8	10 1/2	3/4NPT	5.5
XT-18	80	4.8	2.4	40	11	13 1/2	3/4 NPT	10
XT-35	80	9.0	4.25	40	12 1/2	17 1/4	3/4 NPT	15.5

Sizing Chart

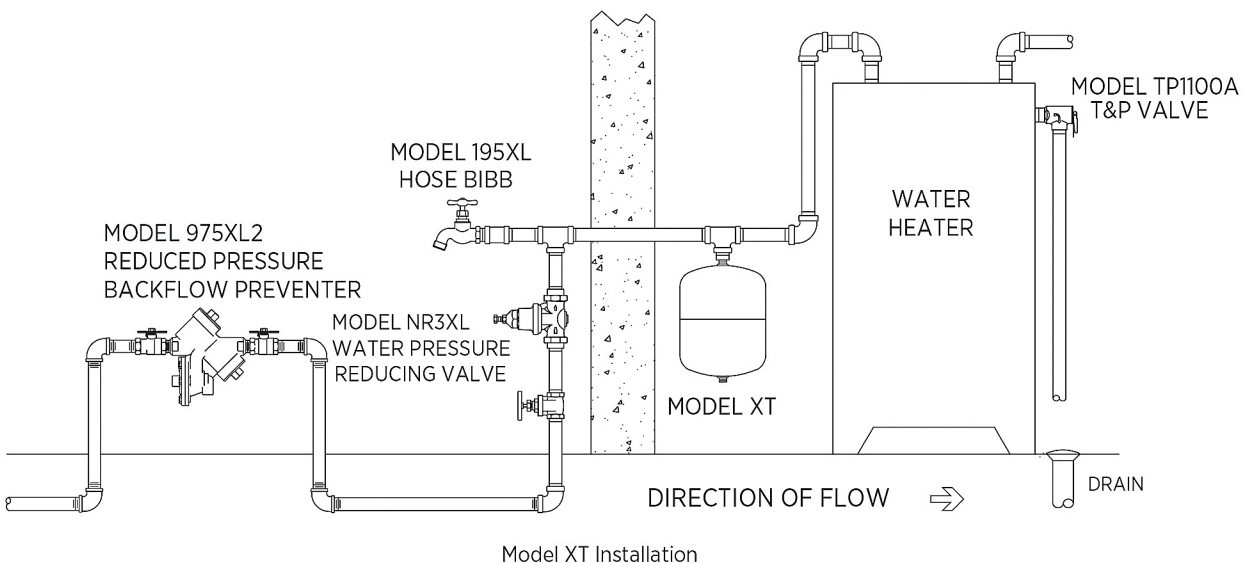
Supply Pressure (PSIG)	Tank Pre-Charged (PSIG)	WATER HEATER CAPACITY (U.S. gal)										
		20	30	40	50	60	80	100	120	150	175	200
40	40	8	8	8	8	8	18	18	18	35	35	35
50	50	8	8	8	8	8	18	18	18	35	35	35
55	55	8	8	8	8	8	18	18	18	35	35	35
60	60	8	8	8	8	18	18	18	18	35	35	35
70	70	8	8	8	18	18	18	18	35	35	35	35
80	80	8	8	18	18	18	18	35	35	35	35	35

Based upon 100° temperature rise (40°F to 140°F) and 150 PSI maximum allowable tank pressure

Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted on the cold water supply and at least 18" from the cold water inlet to the heater. Note: Pre-charge should be adjusted to match incoming water pressure (adjust pre-charge with no water pressure in tank).

Maximum allowable pre-charge in this expansion tank is 80 PSI. A properly sized pressure relief valve set at a maximum of 150 PSI must also be installed in the system. For installations that have a supply pressure above 80 PSI, a properly sized pressure reducing valve should be installed on the system.



Installation and Maintenance Instructions - Model XT

Specifications

The Water Thermal Expansion Tank outer shell shall be carbon steel. The diaphragm shall be FDA approved butyl rubber and, the water chamber shall be polypropylene lined to preclude water contact with the shell interior. The assembly shall have a NPT Stainless steel system connection and a 0.301"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements. The tank shall be cUPC® Listed and certified to NSF/ANSI/CAN 61 and 372. The Water Thermal Expansion Tank shall be a WILKINS Model XT.