

THERMAL EXPANSION TANK (FLOOR MOUNTED)

7.6.1.11. Thermal Expansion.

(1) Where thermal expansion can occur, protection shall be provided for

- (a) check valves required by Article 7.6.1.5.,
- (b) backflow preventers required by Sentence 7.6.2.1.(3), and
- (c) pressure-reducing valves required by Article 7.6.3.3.

A-7.6.1.11.(1) Thermal Expansion. Closed water systems with no expansion to public water systems need to accommodate thermal expansion using one of the following:

- (i) an expansion tank designed for use on the cold or hot potable water system, or
- (ii) an thermal relief valve piped to a drain forming an air break conforming to CSA B125, "Plumbing Fittings".

The installation of a Backflow Preventer on the Water Distribution Piping entering the building creates a closed system in turn creating a situation where the hot water tank can increase pressure within the system through thermal expansion.

The Thermal Expansion Tank absorbs any increase in water pressure caused by thermal expansion prolonging T&P Relief Valves. Tank is pre-charged below incoming supply pressure.

THERMAL EXPANSION TANK SIZING INFORMATION;

MAKE: _____ MODEL: _____

SUPPLY PRESSURE: _____ (kPa / psi)

RELIEF VALVE: _____ (kPa / psi) _____ (°C / °F)

WATER HEATER CAPACITY: _____ (L / GAL)

INITIAL TEMP. SETTING:

_____ (°C / °F)

FINAL TEMP. SETTING:

_____ (°C / °F)

SIZE OF WATER
DISTRIBUTION SYSTEM

_____ (mm/in.)

