



A CSW Industrials Company

## INSTALLATION INSTRUCTIONS

# FALCON THERMAL EXPANSION TANKS

Potable Water Thermal Expansion Tanks  
For 2.1, 4.8 and 10.1 gallon tanks

**⚠ WARNING** This product must be installed by a Qualified Professional following all local and national plumbing and electrical codes. Please read and fully understand the included instructions. This product must be inspected annually by a qualified professional for any signs of corrosion or leakage and replaced immediately if these signs are present. Failure to follow these instructions may result in serious injury or death and or property damage and will void the product warranty.

**⚠ WARNING EXPLOSION HAZARD** This expansion tank is designed for water storage at a maximum pressure of 150 psi and a maximum temperature of 200°F. A properly sized pressure relief valve set at a maximum of 150 psi must be installed in the system. This tank is shipped with a pre-charge of 40 psi and any adjustment to the pre-charge must be done prior to installation and at ambient temperature. Do not adjust the pre-charge of this tank if the product is corroded or damaged or shows any signs of diminished integrity. The maximum allowable pre-charge in this expansion tank is 80 psi. Do not adjust the pre-charge of the expansion tank with the system under pressure. Failure to follow these instructions is UNSAFE and may result in serious injury or death and or property damage.

**⚠ WARNING** This expansion tank and the associated piping may in time leak. This tank must be installed in a location that allows for easy access, visual inspection and where water leakage will not cause property damage. Installation must include a means for adequate drainage. This tank must not be installed in a location that is subject to freezing. This tank must be installed in the vertical position. The manufacturer of this product is not liable or responsible for any water damage associated with the installation and or failure of this product. Failure to follow these instructions will void the warranty and may result in personal injury or property damage.

**⚠ WARNING** This tank is intended for use on potable water systems only and any other use may be dangerous and will void the warranty. This product's performance and lifespan can be significantly and adversely impacted by aggressive water conditions. A water test should be conducted at regular, periodic intervals specifically looking for corrosive water, acids and other relevant water contaminants which if present must be treated immediately and appropriately. The system piping must be properly grounded to earth and a dielectric union is recommended in the installation. Failure to follow these instructions may result in serious injury or death and or property damage.

**⚠ WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

These instructions and warnings are subject to periodic updates from the manufacturer which should be regularly reviewed by the consumer for important safety and instruction updates.

## Before Installation

### Product inspection

Visually inspect the product for any signs of damage that may have occurred during transportation. If the tank is dented, bent or scratched, return the product to the original purchase point for replacement.

### Pre-charge adjustment

This expansion tank is shipped from the factory with a pre-charge of 40 psi. Any adjustments to the factory pre-charge must be done prior to initial tank installation and with 0 psi pressure on the system. **DO NOT ADJUST THE PRE-CHARGE OF THE EXPANSION TANK WITH THE SYSTEM UNDER PRESSURE!**

The expansion tank should be pre-charged to the incoming system water pressure but must not exceed 80 psi. Failure to properly adjust the pre-charge will shorten the life expectancy of the product.

# FALCON THERMAL EXPANSION TANKS

## Potable Water Thermal Expansion Tanks

### To adjust tank pre-charge

1. Remove the protective cap from the air valve.
2. Check the tank pre-charge pressure using a standard tire pressure gauge.
3. If required add air to the tank using a manual bicycle tire pump until the proper pre-charge pressure is reached.
4. Replace the protective cap on the air valve.

### Installation

Select a location where a water leak will not cause property damage and provides adequate means for water drainage. This expansion tank and the associated piping may in time leak. The manufacturer is not responsible for any water damage that may occur in association with the expansion tank installation.

Disconnect or shut off the electrical power source to the water heater. Shut off the water supply to the system and remove all water pressure from the system. Failure to follow these instructions may result in serious injury or death and or property damage.

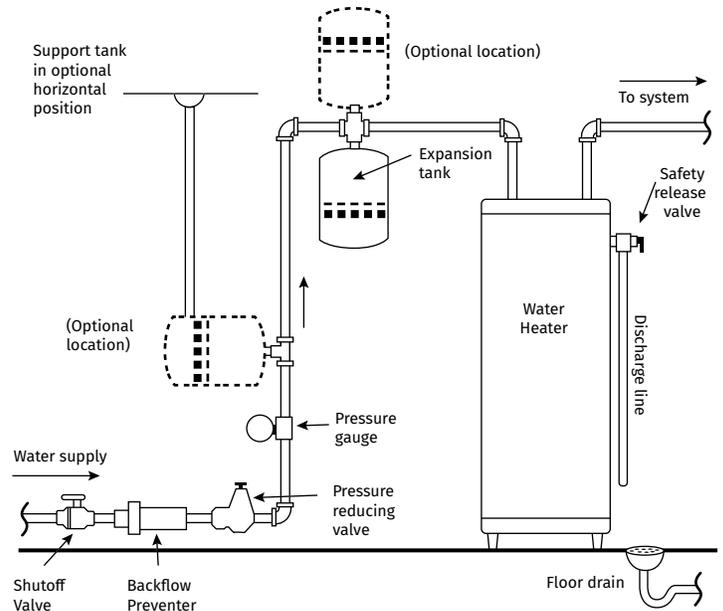
The tank is designed to be supported by the system piping. Make sure that there is adequate means of supporting the system piping and if necessary add strapping, brackets or pipe hangers. **DO NOT INSTALL THIS EXPANSION TANK IN THE HORIZONTAL POSITION** unless it is supported!

Install the expansion tank in the incoming water line to the water heater between the water heater and the backflow preventer or check valve (see Fig. 1). Adequate thread sealant (RectorSeal No. 5) must be added to ensure a leak free installation.

Before turning on the water supply to the system, open a hot water faucet to prevent any damage to the water heater and remove air from the system piping. Turn on the water supply and inspect the installation for water leaks paying close attention to the connection between the expansion tank and the piping.

Follow the water heater manufacturer's instructions for proper start-up of the heater and the system.

Figure 1: Typical Installation



**NOTE:** If vertical installation is impractical, it may be installed in a horizontal position as long as the tank weight is fully supported independent of the piping. The support can be in the form of strapping or a support platform. ABSENCE OF AN INDEPENDENT TANK SUPPORT WILL VOID THE WARRANTY.

### Limited Warranty



For more information on our product warranty, visit [RectorSeal.com](http://RectorSeal.com)

Manufactured by

**RectorSeal, LLC**

2601 Spenwick Drive, Houston, TX 77055, USA • 800-231-3345 • Fax 800-441-0051 • [rectorseal.com](http://rectorseal.com)

3255 Wyandotte St. East, Windsor, ON N8Y 1E9, Canada • 519-966-4901



### Approvals

- NSF/ANSI/CAN 61
- NSF/ANSI/CAN 372
- UPC/IAPMO listed