

# Instruction Sheet

## HEX-30 Expansion Tank

SUPERSEDES: NEW

EFFECTIVE: October 22, 2018

PLANT I.D. #001-5010



**WARNING:** This product must be installed by a Qualified Professional following all local and national plumbing and electrical codes. Read and understand fully the instructions included here. 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, 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 100 PSI and a maximum temperature of 240°F. A properly sized pressure relief valve set to local code must be installed on the system. This tank is shipped with a pre-charge of 12 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. 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, death, and/or property damage.



**WARNING:** This expansion tank and the associated piping will 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 serious injury, death, and/or property damage.



**WARNING:** This tank is intended for use on closed water systems only and any other use may be dangerous and void the warranty. This products 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 di-electric union is recommended in the installation. Failure to follow these instructions may result in serious injury, death, and/or property damage.

### 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 12 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 match the boiler fill valve setting.

**Failure to properly adjust the pre-charge will shorten the life expectancy of the product.**

#### TO ADJUST TANK PRECHARGE

Remove the protective cap from the air valve.

Check the tank pre-charge pressure using a standard tire pressure gauge.

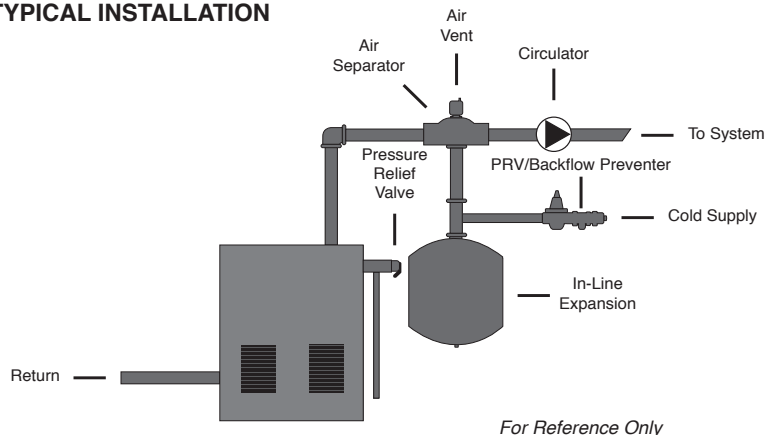
If required add air to the tank using a manual bicycle tire pump until the proper pre-charge pressure is reached.

Replace the protective cap on the air valve.

### INSTALLATION

1. Drain boiler system or isolate the area where expansion tank will be installed.
2. Install expansion tank on supply side of the boiler, on the suction side of the circulator. Adequate thread sealant (pipe dope) must be added to ensure a leak free installation.
3. Connect system piping to discharge opening of the tank using a tee, air scoop, or other suitable tapping in the system.
4. Pressurize the system and check for leaks.
5. Restart the boiler system.

### TYPICAL INSTALLATION



**WARNING:** The tank (HEX) is designed to be supported by 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.**

## MAINTENANCE

This expansion tank and the entire system must be checked annually by a qualified professional.

Visually examine the tank and its connection to the system piping looking for any signs of water leakage or corrosion on the exterior of the tank or the connection.



**WARNING:** If this expansion tank shows any visible signs of leaking, corrosion or rusting, the tank must be replaced immediately to avoid personal injury or property damage. Do not adjust the tank air pressure if there are any signs of corrosion on the tank. Failure to follow these instructions may result in serious injury or death and/or property damage.

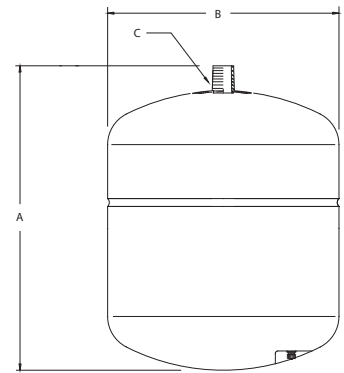
This expansion tank is suitable for use in closed loop heating systems only, it is not suitable for potable water. Use with water or up to 50% water/glycol solution.

## MATERIALS OF CONSTRUCTION

- Tank: 16-gauge, cold rolled steel
- Finish: Appliance quality paint for corrosion resistance
- Diaphragm Material: 100% butyl rubber
- Connection: Welded steel
- Testing: High pressure, seam weld, helium, final pre-charge check
- Air Valve: Brass valve with o-ring seal

## DIMENSIONS & CAPACITIES

Model		HEX 30
Capacity (gallons)		4.5
Acceptance Volume (@ 12/30 PSIG)		1.9
Max. Acceptance Volume		2.4
Dimensions (inches)	Height (A)	14.5
	Diameter (B)	11
	Connection Size (C)	½" NPT
Weight (lbs)		10



Maximum working pressure 100 psig. Maximum working temperature, 240°F. Tank pre-charge 12 psig.  
Note: HEX series expansion tanks ARE NOT suitable for potable water and are only to be used on closed systems.

## QUICK SIZING CHART

Boiler Output 1000's BTUH	Type of Radiation			
	Copper Baseboard & Radiant	Convectors & Unit Heaters	Cast Iron Radiators	Cast Iron Baseboard
50		HEX 30	HEX 30	HEX 30
75	HEX 30	HEX 30		
100	HEX 30	HEX 30		
125	HEX 30			
150	HEX 30			

# LIMITED WARRANTY STATEMENT

Taco, Inc. will repair or replace without charge (at the company's option) any Taco HEX expansion tank which is proven defective under normal use within five (5) years from the date of manufacture.

In order to obtain service under this warranty, it is the responsibility of the purchaser to promptly notify the local Taco stocking distributor or Taco in writing and promptly deliver the subject product or part, delivery prepaid, to the stocking distributor. For assistance on warranty returns, the purchaser may either contact the local Taco stocking distributor or Taco. If the subject product or part contains no defect as covered in this warranty, the purchaser will be billed for parts and labor charges in effect at time of factory examination and repair.

Any Taco product or part not installed or operated in conformity with Taco instructions or which has been subject to misuse, misapplication, the addition

of petroleum-based fluids or certain chemical additives to the systems, or other abuse, will not be covered by this warranty.

If in doubt as to whether a particular substance is suitable for use with a Taco product or part, or for any application restrictions, consult the applicable Taco instruction sheets or contact Taco at (401-942-8000).

Taco reserves the right to provide replacement products and parts which are substantially similar in design and functionally equivalent to the defective product or part. Taco reserves the right to make changes in details of design, construction, or arrangement of materials of its products without notification.

**TACO OFFERS THIS WARRANTY IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY WARRANTY IMPLIED BY LAW INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS IS IN EFFECT ONLY FOR THE**

**DURATION OF THE EXPRESS WARRANTY SET FORTH IN THE FIRST PARAGRAPH ABOVE.**

**THE ABOVE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR STATUTORY, OR ANY OTHER WARRANTY OBLIGATION ON THE PART OF TACO.**

**TACO WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF ITS PRODUCTS OR ANY INCIDENTAL COSTS OF REMOVING OR REPLACING DEFECTIVE PRODUCTS.**

This warranty gives the purchaser specific rights, and the purchaser may have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or on the exclusion of incidental or consequential damages, so these limitations or exclusions may not apply to you.

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