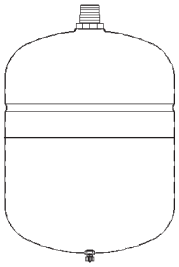
Installation Instructions
Hydronic Expansion Tanks

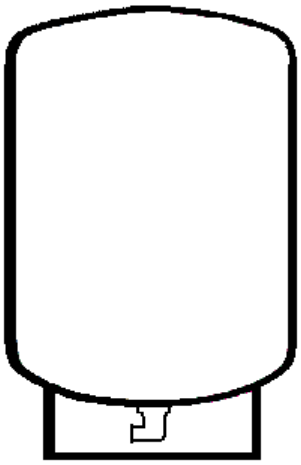
Effective June 1, 2010

Description

FLEX 2 PRO Hydronic Expansion tanks are designed to accommodate the natural expansion of water in a hydronic (forced hot water) heating system. **These tanks are not to be used in open or potable (domestic) water systems.** The air and water is permanently separated in a Flexcon expansion tank by a butyl rubber diaphragm.



HTX Series



SXHT Series

Installation

1. The location selected should be indoors and not subject to freezing.

2. The expansion tank, pipes and your connections may in time leak. Install the expansion tank in a location where a water leak will not cause damage. The manufacturer is not responsible for any water damage in connection with this expansion tank.

3. This expansion tank is precharged at the factory to 12 PSI. It may be necessary to change this precharge pressure based upon the conditions of your system. Adjust the precharge via the standard air charge valve located on the tank. Raise the pressure slowly, using a hand tire pump, periodically checking the pressure with an accurate tire pressure gauge. See note below.

4. The expansion tank is designed to be either supported by the system piping (HTX Series) or freeststanding (SXHT Series). See reverse side for recommended piping procedures.

5. Connect system piping to discharge opening of the tank using a tee, air scoop, or other suitable tapping in the system. See chart on the reverse for connection sizes.

Troubleshooting

Problem:	Relief valve leaks
Solution:	1. Check relief valve for dirt or soot. Clean or replace. 2. Check spring adjustment of valve. 3. Check tank to see if air cushion is intact. (see note below on checking tank precharge)
Problem:	Pressure in system slowly decreases.
Solution:	System is not entirely sealed. Check for leaks and repair.
Problem:	Pressure is too low at low temperature, and rises quickly at increase in temperature.
Solution:	Not enough air in tank or tank was not sized correctly. Check tank precharge and adjust if necessary.

Tank Precharge Pressure

The precharge pressure should equal the system fill pressure for best operation. This precharged expansion tank is factory precharged to 12 PSI, which is correct for a fill pressure of 12 PSI. If some other fill pressure is needed, the precharge pressure can be easily changed by the use of the standard air changing valve.

NOTE: To check tank pressure via the air charging valve, piping system must be at 0 PSI, or tank must be off the system.

WARNING

TESTING SYSTEM PIPING WITH COMPRESSED AIR IS DANGEROUS AND CAN CAUSE BODILY INJURY. WHEN CHECKING SYSTEM PIPING WITH COMPRESSED AIR MAKE SURE THE AIR PRESSURE DOES NOT EXCEED THE MAXIMUM WORKING PRESSURE OF ANY INDIVIDUAL SYSTEM COMPONENT.

Dimensions and Capacities

Model	Capacity (gallons)	Acceptance Volume @12/30 PSIG	Maximum Acceptance Volume	Dimensions			Weight (lbs)
				Connection Size	Diameter (in)	Height (in)	
HTX 15	2.1	0.85	1.0	1/2” MPT	8	11.6	6
HTX 30	4.8	1.9	2.4	1/2” MPT	11	14.5	10
HTX 60	7.2	2.9	3.6	1/2” MPT	11.4	17.6	11
HTX 90	15	6.0	6.0	3/4” MPT	16.0	20.8	28
SXHT 30	15	6.0	6.0	1” FPT	16.0	21.7	32
SXHT 40	20	8.0	8.0	1” FPT	16.0	28.8	39
SXHT 60	33	13.3	13.3	1” FPT	16.0	42.8	57
SXHT 90	44	17.7	17.7	1-1/4” FPT	21.0	36.2	72
SXHT 110	62	24.9	24.9	1-1/4” FPT	21.0	47.9	112
SXHT 160	81	32.6	32.6	1-1/4” FPT	21.0	62.0	123

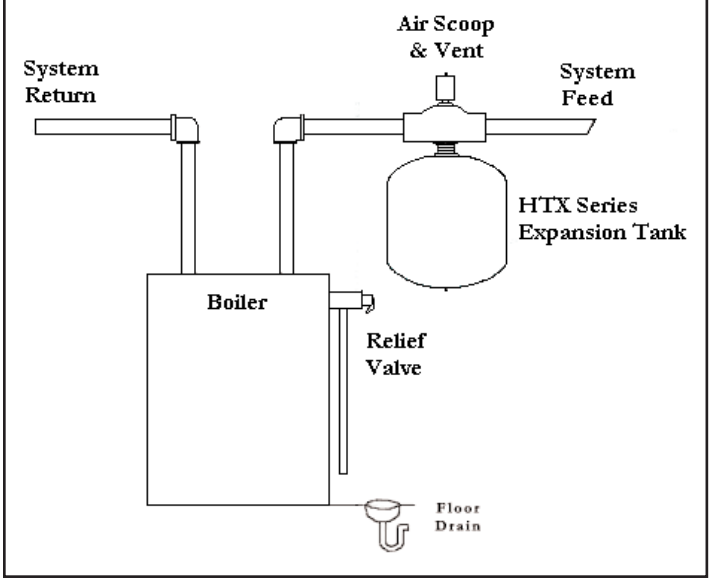
Maximum Working Temperature 240 F

Maximum Working Pressure 100 PSI

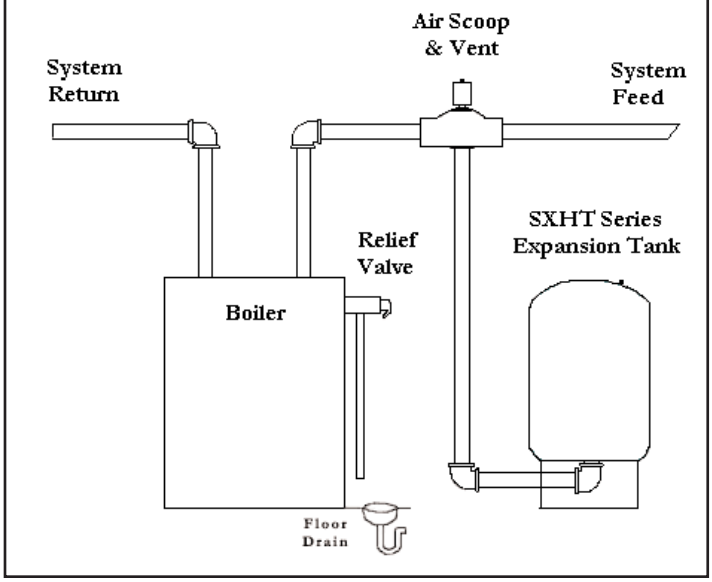
All tanks are precharged to 12 PSIG

Typical Installations

HTX Series



SXHT Series



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