



**"DXT" SERIES  
THERMAL EXPANSION ABSORBERS**

**LIMITED WARRANTY**

Elbi of America, Inc., warrants its DXT Series Thermal Expansion Absorber against manufacturing defects in materials and workmanship for a period of 90 days from the date the DXT Series Thermal Expansion Absorber is installed. This warranty only applies to Elbi of America's products when used for their intended purpose and will be voided by misuse or improper installation. This product should only be installed by a qualified plumber who is acquainted with the proper procedures for installing Thermal Expansion Absorbers as well as applicable local regulations and/or building codes. **This Warranty is the sole warranty of the manufacturer. Any other Warranties express or implied, including warranties of merchantability or fitness for use, are specifically disclaimed and excluded.** Manufacturer's sole obligation under this warranty is to repair or replace those products found to be defective. Products repaired or replaced under the terms of this warranty shall be warranted for period of 90 days. In no event shall Elbi of America, Inc., be responsible for: a) consequential, collateral or incidental damages; b) Labor costs associated with product replacement; or c) lost profits associated with product replacement.

No employee, agent, dealer or distributor of Elbi of America, Inc., has any authority to change or enlarge the terms of this warranty or to bind Elbi of America, Inc., to any obligation beyond the limited warranty set forth above.

**Warranty Handling Procedures**

1. The warranty claim form must be filled out in its entirety.
2. Tanks claimed defective may be required returned to the factory, freight collect, for inspection.
3. All tanks returned for inspection must be intact.
4. PRIOR to returning any tanks to the factory a Returned Good Authorization number (RGA) must be secured from Elbi Of America, Inc. Tanks returned without prior authorization will not be accepted.
5. Manufacturer will not consider nor is responsible for any tanks lost in transit.

**OWNER'S MANUAL  
INSTALLATION INSTRUCTIONS AND GENERAL SPECIFICATIONS**

This product has been designed for use with hot water supply system equipped with a back-flow preventer and for water heaters (both direct and indirect fired). Its function is to absorb the increased volume of the water when the system heats up.

**PRODUCT DIMENSIONS**

Model No.	Capacity (US Gallons)	Connection NPTM	Diameter	Height	Weight (lbs)
DXT-8	2.1	3/4"	8	11 3/4	5
DXT-18	5.0	3/4"	10 1/2	16	8 1/2
DXT-24	6.5	3/4"	12 3/4	14	10
DXT-35	9.0	1"	15 3/4	15 1/2	16
DXT-50	13.5	1"	15 3/4	20	19

Maximum pressure: 150 PSI – Maximum temp. 200°F  
Factory pre-charge: 40 PSI

**WARNINGS-**

- This product is designed for water storage at 200 degrees Fahrenheit and 150 PSI
- Do not exceed 80 PSI pre-charge pressure in this tank.
- The pressure relief valve must be sized and installed according to Local Plumbing Codes and must be set at 150 PSI maximum.
- Since the tank may eventually leak, make sure not to install without adequate drainage provisions.
- Always observe local plumbing codes. This equipment must be installed and/or serviced by qualified professionals only.
- Manufacturer does not accept any liability or other responsibility for personal injury or property damage resulting from improper use, wrong installation and/or operation of this product or the system where it is installed.
- Initial under-sizing or increasing temperatures from original settings may cause tank structure damage and/or internal coating damage. Exceeding the recommended temperature and pressure limits for this product voids any and all warranties.
- **We strongly recommend the use of a dielectric union when connecting to dissimilar metals.**

**INSTALLATION-**

1. Read this manual carefully before attempting to install this tank. Tank must be sized correctly by a licensed plumber before installing. Under-sizing tank can lead to instances of over-pressurization of tank and potential damage to tanks structure and internal coatings.
2. Inspect the tank for any damage. If the tank appears damaged or dented, return the tank where you originally purchased it and ask for its substitution with another tank.
3. Determine the system pressure, then remove the plastic cap on the air valve and use a pressure gauge to verify the pre-charge pressure of the tanks. Adjust if required.
4. Replace and tighten the plastic cup.

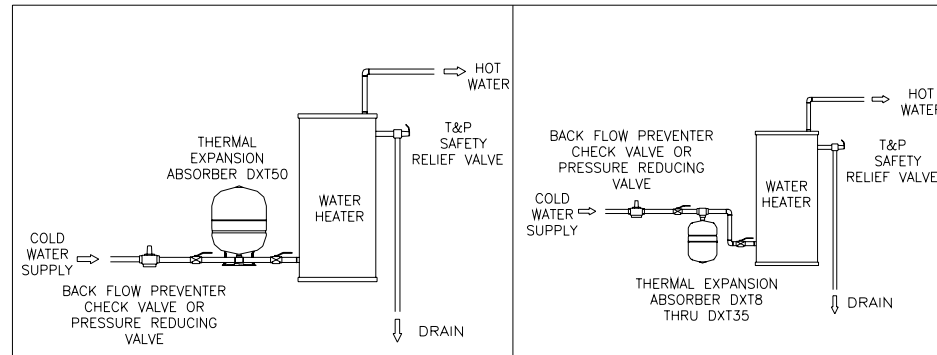
- Connect the tank to the cold water inlet line to the water heater between the heater itself and the back-flow preventer and/or any valve. Tank must be installed in vertical position with water fitting facing up for optimum performance (see figure). If installed with water fitting facing down, air can be trapped in tank and reduce performance of tank.
- Draw water from the system until all air is removed, then turn the system on until it reaches the desired temperature (see water heater manufacturer's instructions).
- Slightly open a hot water fixture and allow system to reach its operating temperature. Then close the fixture. The DXT tank is now operational.

**WARNING: Dielectric fitting must be installed between the water heater cold water line and the expansion tank to assist in preventing electrolysis within the Thermal Expansion Tank. This is not a requirement if PVC pipe is used to plumb the hot water tank's cold water line.**

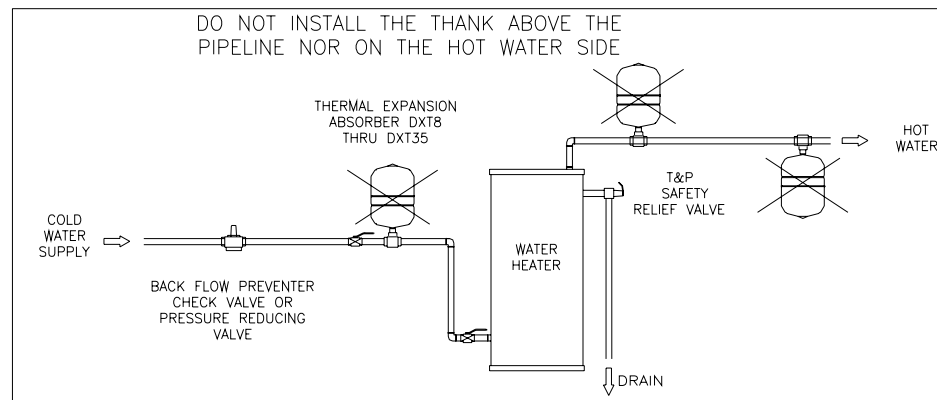
**MAINTENANCE-**

Periodic maintenance inspections of the complete heating system, by a professional licensed installer, is required at least once a year. During such inspection, correct pre-charge of this tank should be verified and adjusted if required. Failure to perform maintenance will void warranty.

**CORRECT INSTALLATION**



**WRONG INSTALLATION**



**We strongly recommend the use of a dielectric union when connecting to dissimilar metals.**

**THERMAL EXPANSION TANKS – QUICK SELECTION TABLE**

System Content	Max. Desired press. (PSIG)	ENDING TEMPERATURE							
		110°F	120°F	130°F	140°F	150°F	160°F	170°F	
30	90	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8
	100	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8
	120	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8
40	90	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-18	DXT-18	DXT-18
	100	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-18
	120	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8
50	90	DXT-8	DXT-8	DXT-8	DXT-8	DXT-18	DXT-18	DXT-18	DXT-18
	100	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-18	DXT-18
	120	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-18
75	90	DXT-8	DXT-8	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18
	100	DXT-8	DXT-8	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18
	120	DXT-8	DXT-8	DXT-8	DXT-8	DXT-8	DXT-18	DXT-18	DXT-18
100	90	DXT-8	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-24	DXT-24
	100	DXT-8	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-24
	120	DXT-8	DXT-8	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18
120	90	DXT-18	DXT-18	DXT-18	DXT-18	DXT-24	DXT-24	DXT-24	DXT-35
	100	DXT-8	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-24
	120	DXT-8	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-18	DXT-24
250	90	DXT-18	DXT-24	DXT-35	DXT-50	DXT-50	DXT-50	2 x DXT-35	2 x DXT-35
	100	DXT-18	DXT-24	DXT-35	DXT-35	DXT-50	DXT-50	DXT-50	2 x DXT-35
	120	DXT-18	DXT-18	DXT-24	DXT-35	DXT-35	DXT-35	DXT-50	DXT-50

**For supplying minimum pressure 45 – 50 psig - Thermal Expansion Absorber must be pre-charged to 40 psig. For relief valve setting: 125 psig – use 100 psig minimum pressure, 150 psig – use 120 psig minimum pressure; Initial temperature 60°F.**

**We strongly recommend the use of a dielectric union when connecting to dissimilar metals.**