

Watts Series ETX, ETSX Hot Water Heating System Expansion Tanks

For Closed Hot Water Heating Systems

Installation Instructions

- **Inlet Connection:**
 $\frac{1}{2}$ " (15mm) MNPT-ETX-15, $\frac{1}{2}$ " (15mm) MNPT-ETX-30,
 $\frac{1}{2}$ " (15mm) MNPT-ETX-60, $\frac{3}{4}$ " (20mm) MNPT-ETX-90,
1" (25mm) FNPT-ETSX-30, 1" (25mm) FNPT-ETSX-40,
1" (25mm) FNPT-ETSX-40, 1" (25mm) FNPT-ETSX-60,
 $1\frac{1}{4}$ " (32mm) FNPT-ETSX-90, $1\frac{1}{4}$ " (32mm) FNPT-ETSX-110,
 $1\frac{1}{4}$ " (32mm) FNPT-ETSX-160

"Attention Installer: After installation, please leave this instruction sheet for occupant's information."

Series ETX may be installed in a tee or any other suitable tapping in the heating system and can be installed in a vertical or horizontal position. Series ETSX are floor models.

Caution: Tank must be supported in horizontal position to prevent damage to the tank.

Maximum temperature: 220°F (104°C)

Maximum working pressure:

75psi (517 kPa) (ETX-15, ETX-30, ETX-60).

100psi (6.9 bar) (ETX-90, ETSX-30, ETSX-40,

ETSX-60, ETSX-90, ETSX-110, ETSX-160).

Installing the Expansion Tank

- Follow all instructions and local codes during the installing of this product.
- Tanks are precharged to 12psi (83 kPa) and should be charged to the system pressure prior to installation in the system.

Caution: Do not exceed the maximum pressure rating of the tank.

After installing the ETX/ETSX Expansion Tank

- Fill system. Vent air from system.
- Fire the burner to bring system to design temperature.
- After initial venting of air, additional air will vent as water is heated. Installation of the Watts AS Air scoop and FV4 Automatic Vent Valve will provide automatic air venting.*

*Refer to Air Scoop and Automatic Vent Valve instruction sheets for proper installation.

Limited Warranty: Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

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- Check system pressure after water is heated. If pressure is too high, drain water from boiler and adjust feed water pressure regulator (typically 12psi) (83 kPa).

Service Hints

1. If the system pressure is too high:

- a. Check gauge calibration.
- b. Check to see if the ETX/ETSX tank has lost its air charge.

Note: To get an accurate reading when checking ETX/ETSX tank air pressure with any tire gauge, disconnect the tank from the system.

- c. Check for faulty fill valve operation. First close manual shutoff located before the fill-valve, then draw system pressure down to 12psi (83 kPa) (or other preset pressure) and observe system for pressure buildup several hours later.
- d. Check for service water entering system from any other source such as a defective tankless heater. Use same procedure as above after shutting off possible water source.

2. If pressure relief valve drips water:

- a. First, check system pressure. If too high, follow steps 1.a, b, c, and d above.
- b. If pressure relief valve continues to drip water, even at reduced pressure, flush relief valve by quickly raising lever several times. If drip continues, replace relief valve. (see caution below)
- c. If multiple ETX/ETSX tanks are installed in the system, check pressure of each for possible air leaks. Be sure air valve caps are on tight.

Caution: Relief valve will discharge hot water, therefore precautions must be taken to avoid scalding injury or water damage. A proper drain line connected to the valve outlet and run to a safe place of disposal must be installed.

CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.watts.com/prop65

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