Watts Series ETX, ETSX
Hot Water Heating System Expansion Tanks
For Closed Hot Water Heating Systems

Installation Instructions

- **Inlet Connection:**
  - ½" (15mm) MNPT-ETX-15, ¼" (15mm) MNPT-ETX-30, ½" (15mm) MNPT-ETX-60, ⅜" (20mm) MNPT-ETX-90,
  - 1" (25mm) FNPT-ETSX-30, 1" (25mm) FNPT-ETSX-40,
  - 1" (25mm) FNPT-ETSX-40, 1½" (32mm) FNPT-ETSX-60,
  - 1½" (32mm) FNPT-ETSX-90, 1¼" (32mm) FNPT-ETSX-110,
  - 1¼" (32mm) FNPT-ETSX-160

- **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 1a, 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.

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:** Tank must be supported in horizontal position to prevent damage to 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.

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