

INSTALLATION MANUAL FOR RADIANT HEATING EXPANSION TANK

Please read the following instructions carefully.

Keep this manual with the tank for future reference.

WARNING READ CAREFULLY THE PRODUCT INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS. FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS IN THE MANUAL MAY RESULT IN SERIOUS OR FATAL INJURY AND/OR PROPERTY DAMAGE, AND WILL VOID THE PRODUCT WARRANTY. FOLLOW ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS, IN THE ABSENCE OF SUCH CODES, FOLLOW THE CURRENT EDITIONS OF THE NATIONAL PLUMBING CODE AND NATIONAL ELECTRIC CODE, AS APPLICABLE.



THIS IS THE SAFETY ALERT SYMBOL. IT IS USED TO ALERT YOU TO POTENTIAL PERSONAL INJURY AND OTHER HAZARDS. OBEY ALL SAFETY MESSAGES THAT FOLLOW THIS SYMBOL TO REDUCE THE RISK OF POSSIBLE INJURY AS WELL AS PROPERTY DAMAGE.

NOTE: Inspect for shipping damage and notify freight carrier or store where purchased immediately if damage is present. To avoid risk of personal injury and property damage, if the product appears to be malfunctioning or shows signs of corrosion, call a qualified professional immediately. Current copies of the product manual can be viewed at www.waterworkerdiy.com. Use proper safety equipment when installing.

WARNING FAILURE TO PROPERLY SEAL VALVE CAP WILL RESULT IN LOSS OF PRECHARGE CAUSING PRODUCT TO FAIL.

WARNING This product, like most products under pressure, may over time corrode, weaken and burst or explode, causing serious or fatal personal injury, leaking or flooding and/or property damage. To minimize risk, a licensed professional must install and periodically inspect and service the product. A drip pan connected to an adequate drain must be installed if leaking or flooding could cause property damage. Do not locate in an area where leaking could cause property damage to the area adjacent to the appliance or to lower floors of the structure.

WARNING EXPLOSION OR RUPTURE HAZARD. A relief valve must be installed to prevent pressure in excess of local code requirement or maximum working pressure designated in the Product Manual, whichever is less. Do not expose product to freezing temperatures or temperatures in excess of 200° F. Do not adjust the pre-charge or re-charge this product except for any adjustments at the time of the initial installation, especially if product is corroded, damaged or with diminished integrity. Adjustments to pre-charge must be done at ambient temperature only. Failure to properly size the product or follow these instructions may result in excessive strain on the system and may lead to product failure, serious or fatal personal injury, leakage, and/or property damage.

WARNING WARNING: FOR USE IN CLOSED HYDRONIC SYSTEMS ONLY. Do not install on domestic water systems, or in open heating systems. Corrosion and tank failure may result. Use a water heater expansion tank for domestic water systems. Mount vertically only.

WARNING EXPLOSION OR RUPTURE HAZARD. A relief valve must be installed to prevent pressure in excess of local code requirement or maximum working pressure designated in the Product Manual, whichever is less. At least once every 3 years or if discharge is present, a licensed contractor should inspect the temperature and pressure relief valve and replace if corrosion is evident or the valve does not function. **FAILURE TO INSPECT THIS VALVE AS DIRECTED COULD RESULT IN UNSAFE TEMPERATURE OR PRESSURE BUILD-UP WHICH CAN RESULT IN PRODUCT FAILURE, SERIOUS INJURY OR DEATH AND/OR SEVERE PROPERTY DAMAGE AND VOID THE WARRANTY.**

WARNING This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

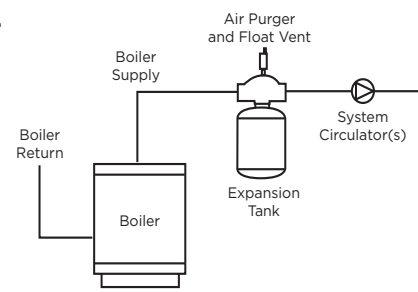
Pre-Installation

1. Visually inspect expansion tank for any damage.
2. Adjust pre-charge to equal system fill pressure.
3. Replace and tighten plastic cap on air fitting.

Installation

1. Drain the boiler system or isolate the area where the expansion tank will be installed.
2. Install the expansion tank on the supply side of the boiler, on the suction-side of the heating circulator(s) (see Figure 1).
3. Once the expansion tank is installed, re-pressurize the system and check for leaks. Repair as necessary.
4. Restart the boiler system and check for relief valve discharge. If the relief valve drips, the tank may be improperly charged or undersized.
5. The expansion tank is now operational and will absorb expanded water during boiler operation.

Figure 1.



Maintenance

1. A professional plumber should check the complete heating system, including the expansion tank, yearly and more frequently as the system ages.

Operation

1. The expansion tank is installed on the supply-side of the boiler system. Its sealed-in air pre-charge prevents water from entering the tank until the system pressure begins to rise.
2. As the water temperature rises, water enters the expansion tank.
3. As the system cools, the diaphragm is forced downward. Water is expelled from the expansion tank, back into the heating system.

Notes

1. Although the expansion tank does not have to be installed at the base of an air purger, this installation is recommended to reduce air in the system and provide a compact installation. Some method of air elimination is required to ensure an oxygen-free system.
2. The expansion tank must not be placed overhead in the floor joist space. When replacing a plain-steel tank, the expansion tank should be relocated per Figure 1.

Warranty

All models come with a 5 Year Limited Warranty. Visit www.waterworkerdiy.com for complete warranty details.



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