

# PFEXT - Power-Flo Expansion Tanks



Part Number	Capacity	Connection	Max Temp	Pre-Charge	Max Working Pressure	Wt. lbs
PFEXT2H	2 gal	1/2" NPT	240° F	12 PSI	100 PSI	5
PFEXT4H	4 gal	1/2" NPT	240° F	12 PSI	100 PSI	9
PFEXT8H	8 gal	1/2" NPT	240° F	12 PSI	100 PSI	14

**PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY**

**INSTALLER: LEAVE THIS MANUAL WITH THE END USER**

**⚠ 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. THIS PRODUCT MUST BE INSTALLED BY A QUALIFIED PROFESSIONAL. 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 possible injury as well as property damage.*

**NOTE:** Inspect for shipping damage and notify 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. 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, 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 services the product. A drop pan connected to an adequate drain must be installed if leaking or flowing 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.

**EXPLOSION OF 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 240°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 excess strain on the system and may lead to product failure, serious or fatal personal injury, leakage, and/or property damage.

**⚠ WARNING** Mount vertically only. Do not mount on dead-end pipe.

**FOR USE IN CLOSED HYDRONIC SYSTEMS ONLY:** Do not install for domestic water systems, or in open heating systems. Corrosion and tank failure may result.

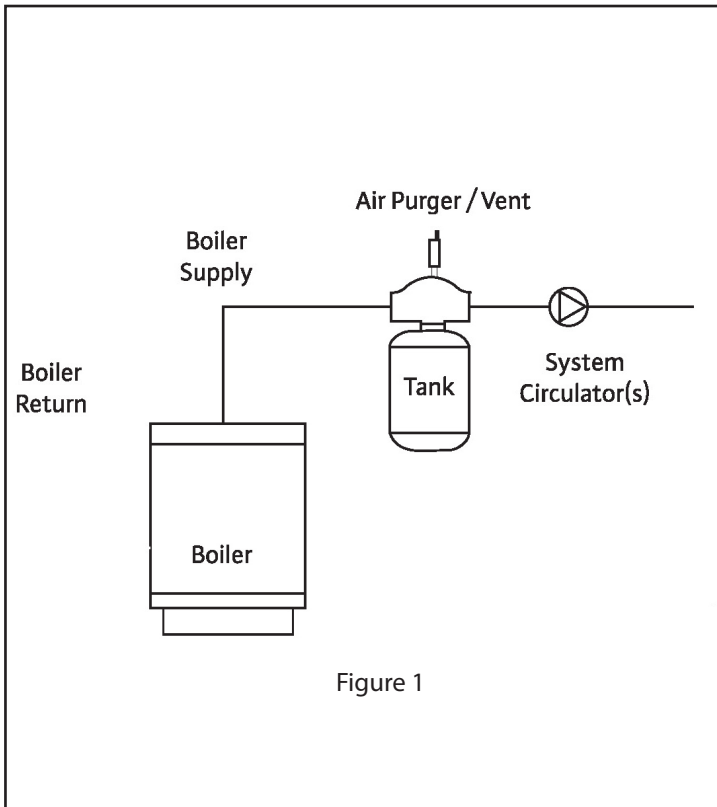
## Pre-Installation

1. Visually inspect the 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 tank will be installed.
2. Install the tank on the supply side of the boiler, on the suction –side of the heating circulator(s) (see Figure 1).
3. Once the 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 tank is now operational and will absorb expanded water during boiler operation.

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## Maintenance

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

## Operation

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

## NOTES

1. Although the 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 tank must not be placed overhead in the floor joist space. When replacing a plain-steel tank, this tank should be relocated per Figure 1.
3. DO not place the tank on a dead-end pipe. Air can collect in the tank, causing internal corrosion and possible leakage

## 3 YEAR WARRANTY

Manufacturer warrants, to the purchaser and subsequent owner during the warranty period, new pump product to be free from defects in material and workmanship under normal use and service, when properly used and maintained, for a period of 3 years from date of sale. The date of sale shall be determined by a dated sales receipt noting the model and serial number of the pump. The dated sales receipt must accompany the returned pump if the date of the return is more than 3 years from the date of manufacturer. Product will be repaired, replaced or remanufactured at Manufacturer's option. No allowance will be made for shipping charges, damages, labor or other charges that may occur due to product failure, repair or replacement. This warranty does not apply to and there shall be no warranty for any material or product that has been disassembled without prior approval of Manufacturer, subjected to misuse, misapplication, neglect, alteration, accident or act of God; that has not been installed, operated or maintained in accordance with Manufacturer's installation instructions; that has been exposed to outside substances including but not limited to the following: sand, gravel, cement, mud, tar, hydrocarbons, hydrocarbon derivatives (oil, gasoline, solvents, etc.), or other abrasive or corrosive substances, wash towels or feminine sanitary products, etc. in all pumping applications. The warranty set out in the paragraph above is in lieu of all other warranties expressed or implied; and we do not authorize any representative or other person to assume for us any other liability in connection with our products.

**Contact Manufacturer at: 1-877-24PUMPS or [www.powerflopumps.com](http://www.powerflopumps.com), Attention: Customer Service Department, to obtain any needed repair or replacement of part(s) or additional information pertaining to our warranty. MANUFACTURER EXPRESSLY DISCLAIMS LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR BREACH OF EXPRESSED OR IMPLIED WARRANTY; AND ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY.**

Some states do not allow limitations on the duration of an implied warranty, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



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