

HYDRONIC EXPANSION TANKS

DESCRIPTION

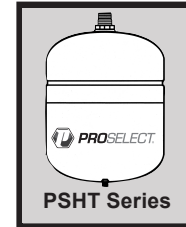
PROSELECT hydronic expansion tanks are designed to accommodate the natural expansion of water in a hydronic (forced hot water) heating system. When water heats up, it expands and in a closed system can cause unsafe operating pressures and nuisance operation of the boiler relief valve. These tanks are not to be used in open or potable (domestic) water systems. The air and water is permanently separated in a PROSELECT tank by a 100% butyl rubber diaphragm.



THIS IS THE SAFETY ALERT SYMBOL. IT IS USED TO ALERT YOU TO POTENTIAL PERSONAL INJURY HAZARDS. OBEY ALL SAFETY MESSAGES THAT FOLLOW THIS SYMBOL TO AVOID POSSIBLE INJURY, DEATH, OR PROPERTY DAMAGE.

WARNING

INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN SERIOUS INJURY OR DEATH AND/OR SIGNIFICANT PROPERTY DAMAGE.



WARNING

This product must be installed by a **Qualified Professional** following all local and national plumbing and electrical codes. Read and understand fully the instructions included here and those on the PROSELECT website which are updated on a regular basis. This product must be inspected annually by a qualified professional for any signs of corrosion or leakage and replaced immediately if these signs are present. Failure to follow these instructions may result in serious injury, death and/or property damage and will void the product warranty.

WARNING

EXPLOSION HAZARD This expansion tank is designed for water storage at a maximum pressure of 100 psi and a maximum temperature of 240 F. A properly sized pressure relief valve set to local code must be installed on the system. This tank is shipped with a pre-charge of 12 psi and any adjustment to the pre-charge must be done prior to installation and at ambient temperature. Do not adjust the pre-charge of this tank if the product is corroded or damaged or shows any signs of diminished integrity. Do not adjust the pre-charge of the expansion tank with the system under pressure. Failure to follow these instructions is UNSAFE and may result in serious injury or death and or property damage.

WARNING

This expansion tank and the associated piping will in time leak. This tank must be installed in a location that allows for easy access, visual inspection and where water leakage will not cause property damage. Installation must include a means for adequate drainage. This tank must not be installed in a location that is subject to freezing. This tank must be installed in the vertical position. The manufacturer of this product is not liable or responsible for any water damage associated with the installation and/or failure of this product. Failure to follow these instructions will void the warranty and may result in personal injury, death and/or property damage.

WARNING

This tank is **not** intended for use on potable water systems and any other use may be dangerous and void the warranty. This product's performance and lifespan can be significantly and adversely impacted by aggressive water conditions. A water test should be conducted at regular, periodic intervals specifically looking for corrosive water, acids and other relevant water contaminants which, if present, must be treated immediately and appropriately. The system piping must be properly grounded to earth and a dielectric union is recommended in the installation. Failure to follow these instructions may result in serious injury or death and/or property damage.

BEFORE INSTALLATION

PRODUCT INSPECTION

Visually inspect the product for any signs of damage that may have occurred during transportation. If the tank is dented, bent or scratched, return the product to the original purchase point for replacement.

PRE-CHARGE ADJUSTMENT

This expansion tank is shipped from the factory with a pre-charge of 12 psi. Any adjustments to the factory pre-charge must be done prior to initial tank installation and with 0 psi pressure on the system. **DO NOT ADJUST THE PRE-CHARGE OF THE EXPANSION TANK WITH THE SYSTEM UNDER PRESSURE!**

The expansion tank should be pre-charged to match the boiler fill valve setting. **Failure to properly adjust the pre-charge will shorten the life expectancy of the product.**

TO ADJUST TANK PRECHARGE

- Remove the protective cap from the air valve.
- Check the tank pre-charge pressure using a standard tire pressure gauge.
- If required add air to the tank using a manual bicycle tire pump until the proper pre-charge pressure is reached.
- Replace the protective cap on the air valve.

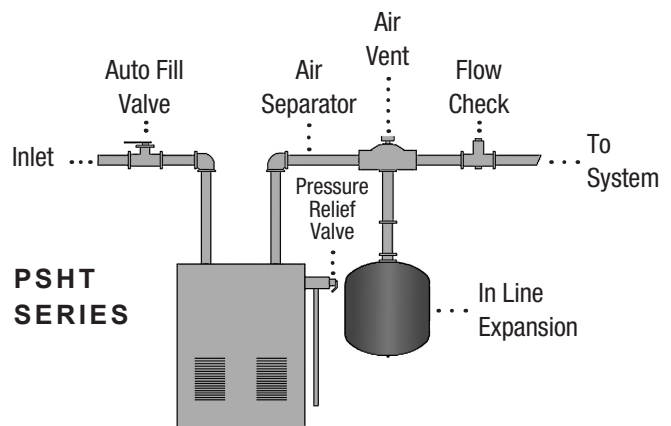
INSTALLATION

1. Drain boiler system or isolate the area where expansion tank will be installed.
2. Install expansion tank on supply side of the boiler, on the suction side of the circulator. Adequate thread sealant (pipe dope) must be added to ensure a leak free installation.
3. Connect system piping to discharge opening of the tank using a tee, air scoop, or other suitable tapping in the system.
4. Pressurize the system and check for leaks.
5. Restart the boiler system.

⚠ WARNING

The tank is designed to be supported by the system piping. Make sure that there is adequate means of supporting the system piping and if necessary add strapping, brackets or pipe hangers. **DO NOT INSTALL THIS EXPANSION TANK IN THE HORIZONTAL POSITION.**

TYPICAL INSTALLATIONS



MAINTENANCE

This expansion tank and the entire system must be checked annually by a qualified professional.

Visually examine the tank and its connection to the system piping looking for any signs of water leakage or corrosion on the exterior of the tank or the connection.

⚠️ WARNING If this expansion tank shows any visible signs of leaking, corrosion or rusting, the tank must be replaced immediately to avoid personal injury or property damage. Do not adjust the tank air pressure if there are any signs of corrosion on the tank. Failure to follow these instructions may result in serious injury or death and or property damage.

SPECS / DIMENSIONS

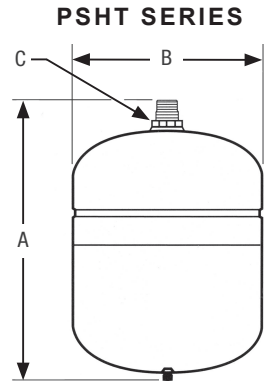
MATERIALS OF CONSTRUCTION

- **Tank:** 16-gauge cold rolled steel
- **Finish:** Appliance quality paint for corrosion resistance
- **Diaphragm Material:** 100% butyl rubber
- **Connection:** Welded steel
- **Testing:** High pressure, seam weld, helium, final pre-charge check
- **Air Valve:** Brass valve with o-ring seal
- **Warranty:** 5 years

DIMENSIONS & CAPACITIES

Model	Capacity (gallons)	Acceptance Volume (@12/30 PSIG)	Maximum Acceptance Volume	Dimensions (inches)			Weight (lbs)
				A	B	C	
				Height	Diameter	Connection	
PSHT15	2.1	.85	1.0	11.6	8.0	1/2" MPT	5.5
PSHT30	4.8	1.9	2.4	14.5	11.0	1/2" MPT	10
PSHT60	6.0	2.9	3.6	17.6	11.4	1/2" MPT	11.5
PSHT90	15.0	6.0	6.0	20.8	16.0	3/4" MPT	28

Maximum working pressure 100 psig. Maximum working temperature 240 F. Tank pre-charge 12 psig.
 Note: PSHT series expansion tanks ARE NOT suitable for potable water and are only to be used on closed systems.



QUICK SIZING CHART

Boiler Output 1000's BTUH	Copper Baseboard & Radiant	Type of Radiation		
		Convectors & Unit Heaters	Cast Iron Radiators	Cast Iron Baseboard
25	PSHT15	PSHT15	PSHT15	PSHT15
50	PSHT15	PSHT30	PSHT30	PSHT30
75	PSHT30	PSHT30	PSHT60	PSHT60
100	PSHT30	PSHT30	PSHT60	PSHT60
125	PSHT30	PSHT60	PSHT60	PSHT60
150	PSHT30	PSHT60	PSHT90	PSHT90
175	PSHT60	PSHT60	PSHT90	PSHT90
200	PSHT60	PSHT60	PSHT90	PSHT90

STANDARD WARRANTY / GARANTIE STANDARD / GARANTÍA ESTÁNDAR

WHAT IS COVERED?

Ferguson Enterprises, LLC. "Ferguson" or the "Company" warrants its products to be free from defects in material and workmanship under normal use and service FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF INSTALLATION.

WHAT IS NOT COVERED?

The warranty set forth in paragraph 1 does not cover installation or any other labor charges and does not apply to products which have been damaged as a result of any accident, abuse, improper installation or maintenance, or modification of original plumbing product. The warranty of such products is limited to the warranty extended to Ferguson by the product manufacturer. Finally, FERGUSON SHALL NOT BE RESPONSIBLE OR LIABLE FOR ANY FAILURE OR DAMAGE TO THIS PRODUCT OR ANY COMPONENT THEREOF CAUSED BY THE USE OF ABRASIVE CLEANERS.

HOW TO OBTAIN WARRANTY SERVICE

US Customers:

The purchaser should contact their local Ferguson location, installing contractor or builder from whom the product was purchased. To find your nearest Ferguson location please visit www.ferguson.com and enter in your address into the Find a Location field.

Canadian Customers:

The purchaser should contact their local Wolseley Canada location, installing contractor or builder from whom the product was purchased. To find your nearest Wolseley Canada location please visit www.wolseleyinc.ca, then click on Find a Location and enter in your address into the location field.

LIMITATIONS OF IMPLIED WARRANTY AND DISCLAIMER OF CONSEQUENTIAL OR INCIDENTAL DAMAGES

FERGUSON DISCLAIMS ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES AND DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AS SET FORTH ABOVE. IMPLIED WARRANTIES OF THE PRODUCTS AND PRODUCT COMPONENTS SET FORTH IN PARAGRAPH 1 ABOVE ARE LIMITED TO THE DURATIONS OF THE RESPECTIVE WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations 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.

PROSELECT is a registered trademark of Ferguson Enterprises, LLC.

ÉLÉMENTS COUVERTS PAR LA GARANTIE

Ferguson Enterprises, Inc. (« Ferguson », ou « l'entreprise ») garantit ses produits contre les défauts de matériaux et les vices de fabrication dans des conditions d'utilisation et d'entretien normales POUR UNE DURÉE D'UN (5) ANS À PARTIR DE LA DATE D'INSTALLATION.

ÉLÉMENTS NON COUVERTS PAR LA GARANTIE

La garantie exposée au paragraphe 1 ne couvre pas les frais d'installation ou de main d'oeuvre et ne s'applique pas aux produits endommagés à la suite d'un accident, d'une utilisation abusive, d'une installation ou d'un entretien inapproprié ou d'une modification du produit de plomberie original. La garantie de ce produit se limite à la garantie offerte à Ferguson par le fabricant du produit. Enfin, FERGUSON NE PEUT ÊTRE TENU RESPONSABLE DES BRIS OU DES DOMMAGES DE CE PRODUIT OU DE TOUTES PIÈCES DE CE PRODUIT CAUSÉS PAR L'UTILISATION DE NETTOYANTS ABRASIFS.

COMMENT OBTENIR LE SERVICE AU TITRE DE LA GARANTIE

Clients des É.-U. :

L'acheteur/acheteuse devrait contacter le distributeur Ferguson, l'entrepreneur ou l'installateur le plus proche chez qui le produit a été acheté. Pour trouver le distributeur Ferguson le plus proche, veuillez visiter le www.ferguson.com et entrer votre adresse dans le champ Trouver Une Adresse.

Clients du Canada :

L'acheteur/acheteuse devrait contacter le distributeur Wolseley Canada, l'entrepreneur ou l'installateur le plus proche chez qui le produit a été acheté. Pour trouver votre distributeur Wolseley Canada le plus proche, veuillez visiter www.wolseleyinc.ca, puis cliquer sur Trouver Une Adresse et introduire votre adresse dans le champ d'adresse.

RESTRICTIONS DE LA GARANTIE IMPLICITE ET EXONÉRATION DE RESPONSABILITÉ QUANT AUX DOMMAGES INDIRECTS OU ACCESSOIRES

FERGUSON DÉCLINE TOUTE RESPONSABILITÉ POUR LES DOMMAGES INDIRECTS OU ACCESSOIRES ET ANNULE TOUTE GARANTIE EXPRESSE OU IMPLICITE, Y COMPRIS TOUTE

GARANTIE DE QUALITÉ MARCHANDE OU D'ADAPTATION À UN USAGE PARTICULIER, TEL QU'ÉNONCÉ PRÉCÉDEMMENT. LES GARANTIES IMPLICITES POUR LE PRODUIT ET LES PIÈCES DU PRODUIT ÉNONCÉES PRÉCÉDEMMENT DANS LE PARAGRAPHE 1 SE LIMITENT À LA DURÉE DE VIE DE LA PRÉSENTE GARANTIE.

Certains États ne permettent pas les clauses sur l'exclusion ou la restriction des dommages indirects ou accessoires ou des restrictions concernant la durée d'une garantie implicite. Par conséquent, les restrictions susmentionnées peuvent ne pas s'appliquer. Cette garantie vous confère certains droits reconnus par la loi et il est possible que vous ayez d'autres droits qui varient d'un État à l'autre.

PROSELECT est une marque déposée de Ferguson Enterprises, LLC.

¿QUÉ CUBRE LA GARANTÍA?

Ferguson Enterprises, Inc. ("Ferguson" o "la compañía") garantiza que sus productos están libres de defectos de materiales y mano de obra, en condiciones normales de uso y mantenimiento, DURANTE UN PERÍODO DE CINCO (5) AÑOS A PARTIR DE LA FECHA DE LA INSTALACIÓN DEL PRODUCTO.

¿QUÉ EXCLUYE LA GARANTÍA?

La garantía estipulada en el párrafo 1 no cubre la instalación ni cualquier otro gasto de mano de obra y no es válida para productos que hayan resultado dañados debido a accidente, abuso, instalación o mantenimiento inadecuados o la modificación de los productos originales de plomería. La garantía de tales productos está limitada a la garantía que haya otorgado el fabricante del producto a Ferguson. Por último, FERGUSON NO SE HACE RESPONSABLE DE NINGUNA FALLA O DAÑO AL PRODUCTO O A CUALQUIERA DE LOS COMPONENTES DEBIDO AL USO DE LIMPIADORES ABRASIVOS.

CÓMO OBTENER SERVICIO DE GARANTÍA

Cientes de los Estados Unidos:

El comprador debe comunicarse con la tienda Ferguson de su localidad, el contratista de la instalación o la empresa constructora a la que se le compró el producto. Para buscar la tienda Ferguson más cercana visite www.ferguson.com e ingrese su dirección en el campo Find a Location.

Cientes de Canadá:

El comprador debe comunicarse con la tienda Wolseley Canada de su localidad, el contratista de la instalación o la empresa constructora a la que se le compró el producto. Para buscar la tienda Wolseley Canada más cercana visite www.wolseleyinc.ca y haga clic en Find a Location e ingrese su dirección en el campo location.

LÍMITACIONES DE LA GARANTÍA IMPLÍCITA Y EXENCIÓN DE RESPONSABILIDAD DE DAÑOS CONSECUCIONALES O INCIDENTALES

FERGUSON ESTÁ EXENTA DE CUALQUIER RESPONSABILIDAD POR DAÑOS CONSECUCIONALES O INCIDENTALES, ASÍ COMO DE CUALQUIER GARANTÍA EXPRESA O IMPLÍCITA, INCLUIDAS AQUELLAS RELACIONADAS CON LA COMERCIALIZACIÓN E IDONEIDAD DEL PRODUCTO PARA UN FIN DETERMINADO, COMO SE ESTIPULA EN LOS PÁRRAFOS PREVIOS. LAS GARANTÍAS IMPLÍCITAS DE LOS PRODUCTOS Y COMPONENTES DEL PRODUCTO ESTIPULADAS EN EL PÁRRAFO 1 ANTERIOR SE LIMITAN A LA DURACIÓN DE LA GARANTÍA CORRESPONDIENTE. Algunos estados no permiten la exclusión o limitación de daños incidentales o derivados, o bien de limitaciones sobre la duración de una garantía implícita. Por tanto, puede que las limitaciones previamente descritas no sean válidas en tal caso. Esta garantía otorga al comprador del producto derechos legales específicos y es posible que dicho comprador tenga otros derechos que varían de un estado a otro.

PROSELECT es una marca comercial registrada de Ferguson Enterprises, LLC.