GENERAL

All Taco Buffer Tanks are designed and fabricated in accordance with the ASME Code for Unfired Pressure Vessels, Sect. VIII Div. 1.

Prior to shipment, all buffer tanks are hydrostatically tested to 1.3 times their rated working pressure and accepted by an independent insurance inspector.

Upon receipt of each tank, the shipping container should be examined for external damage. If the shipping container has been damaged in transit, the contents of the packaging should also be examined prior to acceptance of the shipment. If the tank appears to be damaged the shipment should be refused and or signed for as damaged. If the tank is damaged, the local Taco representative should be contacted for further instructions.

WARNING: The tank design working pressure and maximum rated working temperature limits are stamped on to the ASME nameplate welded to the tank. Confirmation of the suitability of this tank for the application within your system should be obtained from the system design engineer prior installing this product.

WARNING: The installation of an automatic air vent (by others) into the vent connection provided on the tank should be completed prior to the initial filling of the system. After initial filling of the system this vent should be checked for proper operation.

INSTALLATION

Taco Buffer tanks are designed for installation in hydronic systems. The purpose of the buffer tank is to reduce/eliminate short cycling in either a hot water or chiller water system. These units are not designed to withstand external piping loads which may be transmitted to the nozzles from the piping system. Should external piping loading requirements be present, confirmation from Taco’s Design Engineering department regarding the suitability of the tanks design should be obtained prior to installing this product.

When tanks are installed, care should be taken to allow access to the ASME name plates, air vent (by others) and drain plug (by others).

All piping to each tank should be installed full size, to match the vessel’s connections, isolation valves on each side of the unit should be installed for future maintenance. The isolation valves are used during maintenance to reduce the loss of system fluid.

MAINTENANCE

A regular inspection schedule should be adopted and carried out by competent personnel to examine the pressure vessel for corrosion and its cause, extent and possible arrest, to determine minimum metal thicknesses, maximum metal temperatures, calculation of reduction in allowable working pressure and to conduct hydrostatic tests. Also, defects such as cracks, laminations and distortion of shell, heads or connections should be noted and repaired if possible, after consultation with and acceptance by a commissioned authorized inspector who shall be involved at all stages of any repairs or alterations of the ASME vessel.

CAUTION: NEVER OPEN A VESSEL UNTIL THE SYSTEM PRESSURE IS OFF AND THE VESSEL HAS BEEN ISOLATED AND DRAINED. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH.

Installation and maintenance should only be performed by trained personnel. Standard Taco buffer tanks are designed for indoor use. Outdoor applications should be submitted to the Taco technical services department for review.

Tanks should have ample space around the unit to access the ASME nameplate and to inspection the tank as required. Tanks are to be installed on a flat level surface capable to support the flooded weight during operation.
LIMITED WARRANTY STATEMENT

Taco, Inc. will repair or replace without charge (at the company’s option) any product or part which has been subject to misuse, misapplication, the addition of petroleum-based fluids or certain chemical additives to the systems, or other abuse, will not be covered by this warranty. If in doubt as to whether a particular substance is suitable for use with a Taco product or part, or for any application restrictions, consult the applicable Taco instruction sheets or contact Taco at (401-942-8000).

Taco reserves the right to provide replacement products and parts which are substantially similar in design and functionally equivalent to the defective product or part. Taco reserves the right to make changes in details of design, construction, or arrangement of materials of its products without notification.

TACO OFFERS THIS WARRANTY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS. TACO WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF ITS PRODUCTS OR ANY INCIDENTAL COSTS OF REMOVING OR REPLACING DEFECTIVE PRODUCTS.

This warranty gives the purchaser specific rights, and the purchaser may have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or on the exclusion of incidental or consequential damages, so these limitations or exclusions may not apply to you.