

SUPERSEDES: July 30, 2013

EFFECTIVE: December 1, 2014

Plant ID No. 001-953



**WARNING: FAILURE TO COMPLY WITH THESE INSTRUCTIONS REGARDING THIS PRODUCT CAN RESULT IN SERIOUS PERSONAL INJURY OR DEATH AND/OR SEVERE PROPERTY DAMAGE.**

Before proceeding with replacement, read instructions carefully and check that you have required tools and supplies available:

- Plumber's tool box
- Source for compressed air
- 20 foot power cord with light
- Extension cord
- Pressure gauge
- Air valve tool to remove valve core
- Replacement bag
- Rope

**WARNING: DO NOT REMOVE THE PIPE PLUGS LOCATED ON THE SIDE AND BOTTOM OF THE TANK (TANK DRAINS). THESE PLUGS SHOULD NEVER BE REMOVED UNLESS NECESSARY AND THEN ONLY AFTER THE AIR PRESSURE IN THE TANK HAS BEEN BLEDED OFF TO ZERO GAUGE PRESSURE. BEFORE BLEEDING OFF ANY OF THE AIR CHARGE, ALWAYS REMOVE AND DISCONNECT THE TANK FROM THE SYSTEM.**

**TO REMOVE EXISTING BAG**

- A. Isolate and disconnect tank from system.
- B. Remove air from tank by removing valve core.
- C. When tank is at zero gauge pressure, remove head by removing nuts and bolts. Detach head from internal bag assembly.
- D. Lubricate inner surface of nozzle with soap or soapy water as required to aid in removal of bag.

**NOTE: DO NOT USE HYDROCARBON GREASE OR OIL, AS THEY ATTACK THE BAG MATERIAL.**

- E. Twist the bag so that it wraps itself cylindrically about the internal hose. Then lift and twist bag, gradually working it up through the nozzle until it is out of tank.
- F. If a drain plug is removed, install using a seal compound or equivalent. Connection must be absolutely air tight otherwise air charge will be lost.

**NOTE: TO INSTALL REPLACEMENT, FOLLOW STEPS A THRU H.**

**TO INSTALL NEW BAG**

- A. Roll up new bag lengthwise and tie with rope if needed.
- B. It is best to reassemble bag assembly to the cover fitting and air test for tightness before replacing bag into tank. Then insert bag into tank through tank flange.
- C. If rope is used to tie bag, remove rope ties as they near tank opening.
- D. Assemble upper flange, tightening bolts evenly.
- E. Apply 1psi air pressure to flange connection to ensure proper positioning of the bag, then relieve pressure.
- F. Reinstall air valve core and charge to fill pressure or minimum operation pressure.
- G. Check the drain fitting, air valve, and flange joint for leakage using soapy water.
- H. Connect tank to system, open fill-valve and check operation.

**NOTE: ALWAYS PRECHARGE TANK BEFORE COMPLETING THIS LAST STEP. (Step H)**


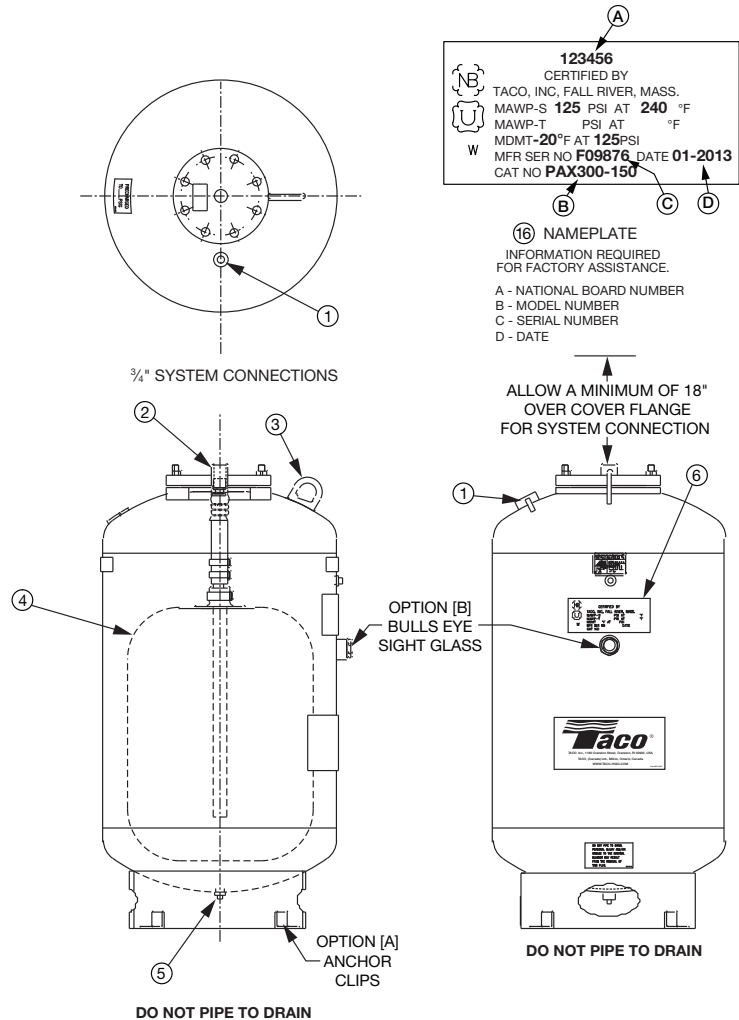
- Non NSF/ANSI 61-G units "Suitable for Vertical or Horizontal Installation"
- NSF/ANSI 61-G units labeled with 



DIAGRAM 1 – LOCATION OF TANK FITTINGS



- 1 - CHARGING VALVE CLOSURE (Schrader) 1/2" NPT
- 2 - System Connection Label
- 3 - Lug(s)
- 4 - Hose & Bag Assembly

- 5 - Sealed 1/2" NPT at factory - **Do Not Pipe to Drain.** Do Not Remove Plug - Removing plug voids tank Warranty. **Severe injury or death may result if a factory installed plug is removed without first isolating the tank from the system and reducing the internal pre-charge pressure to zero psi at the air valve.**
- 6 - ASME Name Plate

Diagram 2 – Air Charge Check Chart

Specified Pre Charge Pressure P.S.I. (at 68°F)	Ambient Temperature (°F)								
	36	44	52	60	68	76	84	92	100
12	10.4	10.8	11.2	11.6	12.0	12.4	12.8	13.2	13.6
20	17.9	18.4	18.9	19.5	20.0	20.5	21.1	21.6	22.1
30	27.3	28.0	28.6	29.3	30.0	30.7	31.4	32.0	32.7
40	36.7	37.5	38.2	39.2	40.0	40.8	41.6	42.5	43.3
50	46.1	47.1	48.0	49.0	50.0	51.0	52.0	52.9	53.9
60	55.5	56.6	57.7	58.9	60.0	61.1	62.3	63.4	64.5
70	64.9	66.1	67.4	68.7	70.0	71.3	72.6	73.9	75.1

**How to Use the Chart**

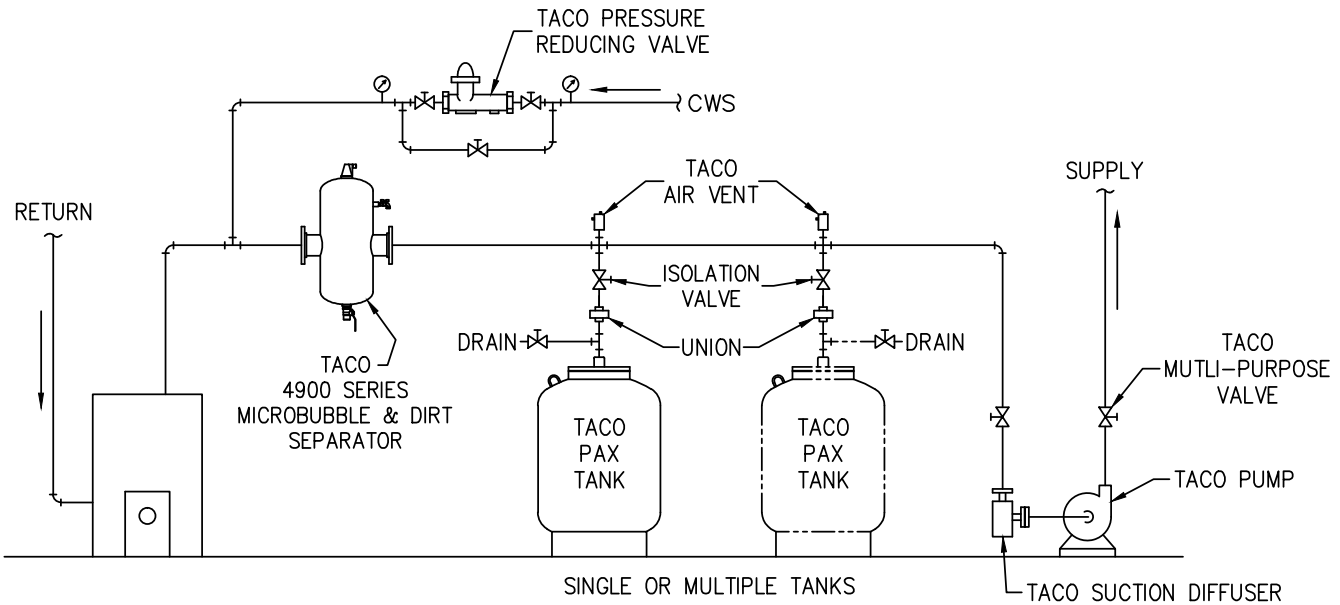
1. Determine ambient air temperature where the tank is being checked.
2. Locate the specified pre-charge pressure in the left-hand column.
3. Follow across horizontally to the number under the ambient air temperature.
4. The number found under Step No. 3 is the temperature corrected air charge pressure in p.s.i. and should agree with the gauge reading observed at the tank.
5. If the temperature corrected air charge pressure differs by more than 1 p.s.i. from the pre-charge pressure specified for the system, then correct it by bleeding pressure through the air charge valve or by adding pressure with an air compressor.

**NSF/ANSI 61-G [ P ] Option, (Ex. P/N PAX30-150P)**

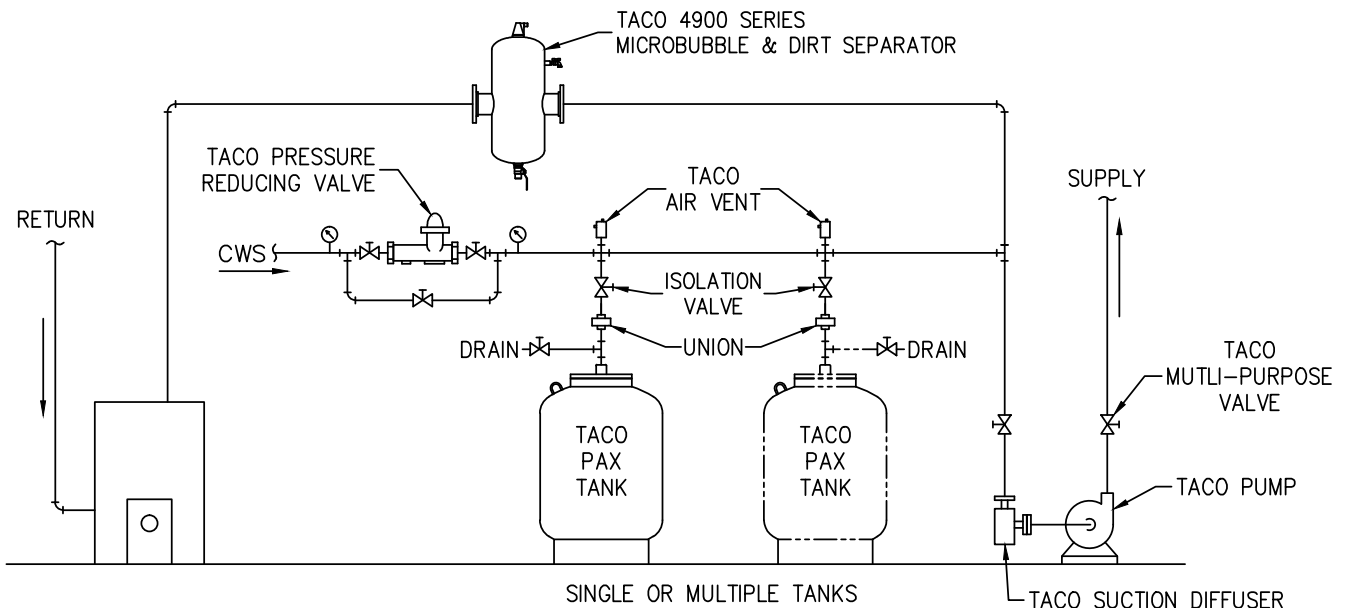


- **For VERTICAL Installation ONLY**
- Models certified to NSF 61-G are required to be installed on the cold water side of the hot water heater.

# PAX Expansion Tank Piping Diagrams



## RECOMMENDED INSTALLATION FOR NSF/ANSI 61-G APPLICATIONS



### See Related Documents:

- 400-2.5 Catalog
- 402-100 PAX Expansion Tank Instruction Sheet
- 402-101 Bag Replacement Instruction Sheet, This Document
- 401-084 PAX Expansion Tank Submittal
- 401-084P PAX Expansion Tank Submittal

For factory contact on Taco Fall River heat transfer products, please call 508-674-5353.

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