



**SUBMITTAL**

**TYPE:** PH-C ASME THERMAL EXPANSION TANKS FOR WATER HEATER SYSTEMS

**MODELS:** PH 5-C TO PH 210-C

Date: 4-18

JOB _____	Flexcon Representative _____
Unit Tag No. _____	Order No. _____ Date _____
Engineer _____	Submitted By _____ Date _____
Contractor _____	Approved By _____ Date _____

**DESCRIPTION**

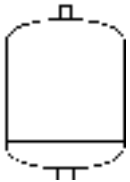
Flexcon Type PH-C Tanks are ASME fixed diaphragm type pre-charged thermal expansion tanks. They are designed to absorb the expansion forces and control the pressure in domestic water heating systems. The system's expanded water is contained in a heavy-duty bladder preventing tank corrosion and water-logging problems. PH expansion tanks reduce tank sizes up to 80%.

**CONSTRUCTION**

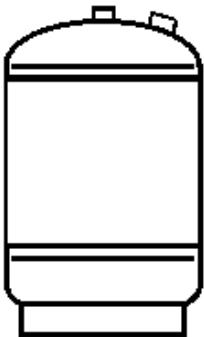
Shell: Carbon Steel  
 Diaphragm: Heavy duty butyl – Made from FDA approved & NSF Listed Materials

**PERFORMANCE LIMITATIONS**

Maximum Design Temperature: 240°F  
 Maximum Design Pressure: 150 PSIG



Model Number	Wessels Model	Tank Volume (Gal/L)	Accept. (Gal/L)	Diameter (inches/mm)	Height (inches/mm)	Syst. Conn. (inches/mm)	Wt. (lbs/kgs)
PH 5-C	TTA-5	3.5/13.3	2.1/8	10/254	14/356	3/4 /19	22/10
PH 12-C	TTA-12	5.0/19	3/1/11.7	12/305	14/356	3/4 /19	28/12.7

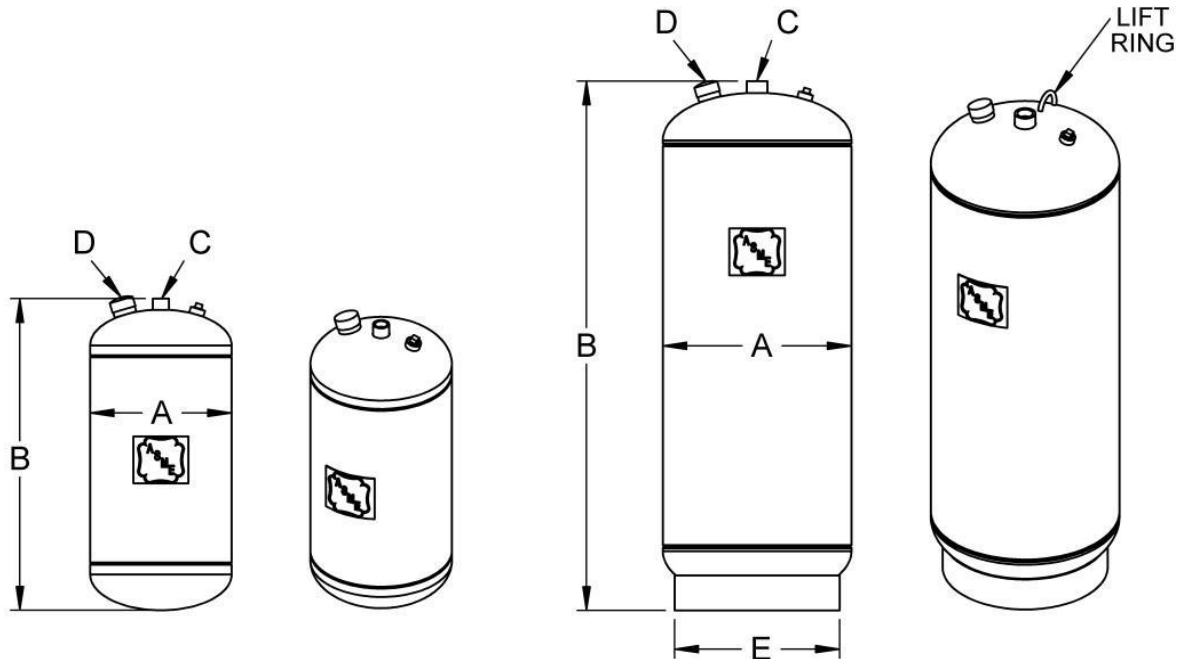


PH 25-C	TTA-25	8.0/30.3	3.1/11.7	12/305	20/508	3/4 /19	34/15.4
PH 30-C	TTA-30	15.0/57	10.0/38	16/406	23/584	1/25	64/29
PH 42-C	TTA-42	22.0/83	14.7/55	16/406	32/812	1/25	88/40
PH 60-C	TTA-60	26.0/98	15.5/59	16/406	34/864	1/25	93/42.2
PH 80-C	TTA-80	35.0/132	15.5/59	16/406	45/1143	1/25	109/49.5
PH 100-C	TTA-100	45.0/171	21.0/80	20/508	38/965	1/25	148/67.3
PH 125-C	TTA-125	60.0/227	21.0/80	20/508	49/1245	1 1/2 /38	175/79.4
PH 160-C	TTA-160	70.0/265	46.7/177	24/610	46/1168	1 1/2 /38	259/118
PH 180-C	TTA-180	80.0/303	52.5/199	24/610	49/1245	1 1/2 /38	268/122
PH 210-C	TTA-210	90.0/341	52.5/199	24/610	52/1321	1 1/2 /38	283/128

**TYPICAL SPECIFICATION**

Furnish and install as shown on plans a \_\_\_\_\_ gallon \_\_\_\_\_" diameter X \_\_\_\_\_" (high) pre-charged steel expansion tank with heavy-duty butyl rubber diaphragm. The tank shall have NPT system connections and a .302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements. The tank must be constructed in accordance with most recent addition of Section VIII of the ASME Boiler and Pressure Vessel Code.

Each tank shall be Flexcon model number PH \_\_\_\_\_-C or approved equal.



PH 5-C &amp; PH 12-C

PH 25-C thru PH 210-C

### Dimensions & Weights

Model Number	Dimensions in Inches					Approx. Ship Weight (lbs)
	A	B	System Connection	Charging Valve	E	
			C	D		
TTA-5	10	14	3/4	0.302" -32NC	-	22
TTA-12	12	14			-	28
TTA-20		20			10	34
TTA-30	16	24	1	0.302" -32NC	14	64
TTA-42		31				88
TTA-60		34				93
TTA-80		45				109
TTA-100	20	39	1 1/2	0.302" -32NC	18	148
TTA-125		50				175
TTA-160		47				259
TTA-180	24	50	1 1/2	0.302" -32NC	22	268
TTA-210		53				283

### Notes

- Tanks are factory pre-charged at 40 psi / 276 kpa and field adjustable.
- California code-sight glass is available upon request.
- Lift ring on models PH 5-C thru PH 210-C
- Available with mounting clips.