FLEXCON INDUSTRIES®
A Swan Group Company

SUBMITTAL

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

MODELS: PH 5-C TO PH 210-C

Date: 4-20

Job: _____

Flexcon Representative _____

_____ _____

Unit Tag No. _____ Order No. _____ Date _____

Engineer _____ Submitted By _____ Date _____

Contractor _____ Approved By _____ Date _____

DESCRIPTION

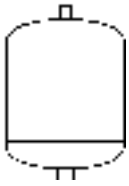
Flexcon Type PH-C Tanks are ASME fixed diaphragm type pre-charged thermal expansion tanks. They are designed to absorb the expansion forces and control the pressure in domestic water heating systems. The system's expanded water is contained in a heavy-duty bladder preventing tank corrosion and water-logging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

CONSTRUCTION

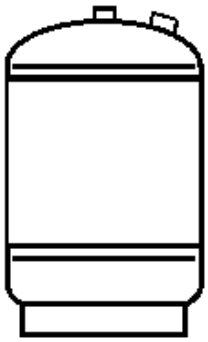
Shell: Carbon Steel
Heads: Carbon Steel
Exterior: Red Oxide Primer
Interior: Heavy duty butyl (FDA/CSA/NSF61 approved)

DESIGN PARAMETERS

Maximum Design Pressure : 150 PSIG/1034 kpa
Temperature Range: -20ºF/-29ºC to 240ºF/115.6 C
Pressures Available: 150PSI ☐ 200PSI ☐ 250PSI ☐



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	2.3/8.7	10/254	14/356	¾ /19	22/10
PH 12-C	TTA-12	5.0/19	3.3/12.5	12/305	14/356	¾ /19	28/12.7



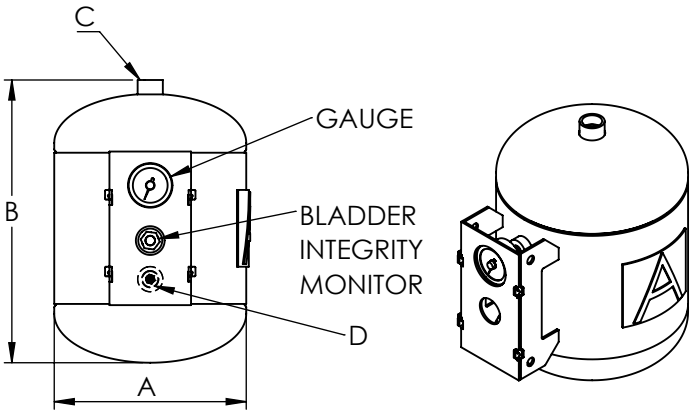
PH 25-C	TTA-25	8.0/30.3	5.3/20.1	12/305	20/508	¾/19	34/15.4
PH 30-C	TTA-30	15.0/57	10/37.9	16/406	23/584	1/25	64/29
PH 42-C	TTA-42	22.0/83	14.5/55.0	16/406	32/812	1/25	88/40
PH 60-C	TTA-60	26.0/98	17.5/66.2	16/406	34/864	1/25	93/42.2
PH 80-C	TTA-80	35.0/132	23.5/89.0	16/406	45/1143	1/25	109/49.5
PH 100-C	TTA-100	45.0/171	30/113.6	20/508	38/965	1/25	148/67.3
PH 125-C	TTA-125	60.0/227	40/151.4	20/508	49/1245	1 ½/38	175/79.4
PH 160-C	TTA-160	70.0/265	47/178.0	24/610	46/1168	1 ½/38	259/118
PH 180-C	TTA-180	80.0/303	53/200.6	24/610	49/1245	1 ½/38	268/122
PH 210-C	TTA-210	90.0/341	60/227.1	24/610	52/1321	1 ½/38	283/128

TYPICAL SPECIFICATION

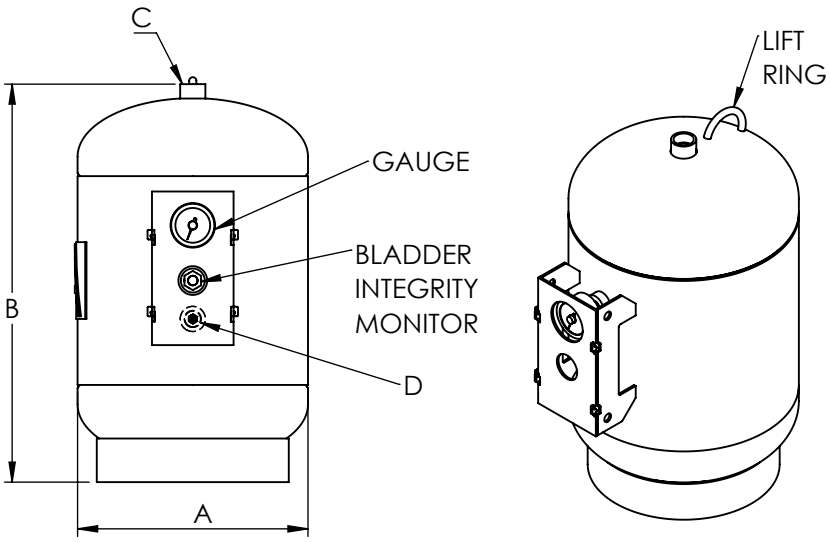
Furnish and install as shown on plans a _____ gallon _____" diameter X _____" (high) pre-charged steel expansion tank with heavy-duty butyl rubber diaphragm. The tank shall have NPT system connections and a .302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of 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. Products comply with NSF/ANSI Standard 61.

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

300 POND ST ● RANDOLPH, MA 02368 ● (800) 527-0030 ● (781) 986-2029 FAX ● www.flexconind.com



PH 5-C & PH 12-C



PH 25-C thru PH 210-C

Dimensions & Weights

Model Number	Wessels Model	A (inches/mm)	B (inches/mm)	System Connection C (inches/mm)	Charging Valve D	E (inches/mm)	Approx. Ship Weight (lbs/kgs)
PH 5-C	TTA-5	10/254	14/356	¾ / 19	.302”-32NC	-	22/10
PH 12-C	TTA-12	12/305	14/356	¾ / 19	.302”-32NC	-	28/12.7
PH 25-C	TTA-25	12/305	20/508	¾ / 19	.302”-32NC	10/254	34/15.4
PH 30-C	TTA-30	16/406	24/610	1 / 25	.302”-32NC	14/356	50/23
PH 42-C	TTA-42	16/406	31/787	1 / 25	.302”-32NC	14/356	57/26
PH 60-C	TTA-60	16/406	34/864	1 / 25	.302”-32NC	14/356	62/28
PH 80-C	TTA-80	16/406	45/1143	1 / 25	.302”-32NC	14/356	80/36
PH 100-C	TTA-100	20/508	39/991	1 / 25	.302”-32NC	18/457	110/50
PH 125-C	TTA-125	20/508	50/1270	1 / 25	.302”-32NC	18/457	134/61
PH 160-C	TTA 160	24/610	47/1194	1 ½ / 38	.302”-32NC	22/559	177/80
PH 180-C	TTA180	24/610	50/1270	1 ½ / 38	.302”-32NC	22/559	184/83
PH 210-C	TTA-210	24/610	53/1346	1 ½ / 38	.302”-32NC	22/559	193/88

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 25-C thru PH 210-C
- Available with mounting clips.