

ASME Thermal Expansion Tanks

Heated water expands and more and more systems are now “closed systems” where the expanded water has no place to go and hot water pressures can get dangerously high setting off the pressure relief valve. Thermal expansion tanks allow the expanded water to be safely stored in a tank keeping the pressure of the system at a safe level.

Flexcon has two lines of thermal expansion tanks, the PH and the WHV to suite your needs. The PH has a non-replaceable diaphragm in it and is more cost competitive than the WHV, which features a replaceable butyl bladder. We offer sizes from 3.5 gallons to 528 gallons to handle even the largest commercial or industrial hot water applications.

| Tank Specifications | | | | | | | | | | | | | |
|---------------------|---------------|--------|--------|---------------------|----------|-------|--------|--------|-------------------|------|--------|-------|---------------|
| Model | Flexcon Model | Volume | | Replaceable Bladder | Diameter | | Height | | System Connection | | Weight | | Max. Pressure |
| | | Gals | Liters | | In | Cm | In | Cm | In | Cm | lbs | kgs | |
| FTTA-5 | PH5-C | 3.5 | 13 | NO | 10" | 25 | 14" | 35.54 | 3/4" | 1.9 | 22 | 10 | 150 |
| FTTA-12 | PH12-C | 5 | 18 | NO | 12" | 30.48 | 14" | 35.56 | 3/4" | 1.9 | 28 | 12.7 | 150 |
| FTTA-20 | PH25-C | 8 | 30 | NO | 12" | 30.48 | 20" | 50.8 | 3/4" | 1.9 | 34 | 15.5 | 150 |
| FTTA-30 | PH30-C | 15 | 56 | NO | 14" | 35.56 | 27" | 68.58 | 3/4" | 1.9 | 64 | 29 | 150 |
| FTTA-42 | PH42-C | 22 | 82 | NO | 16" | 40.64 | 32" | 81.28 | 1" | 2.54 | 88 | 40 | 150 |
| FTTA-60 | PH60-C | 26 | 97 | NO | 16" | 40.64 | 34" | 86.36 | 1" | 2.54 | 93 | 42.3 | 150 |
| FTTA-80 | PH80-C | 35 | 130 | NO | 16" | 40.64 | 45" | 114.3 | 1" | 2.54 | 109 | 49.5 | 150 |
| FTTA-100 | PH100-C | 45 | 169 | NO | 20" | 50.8 | 38" | 96.52 | 1" | 2.54 | 148 | 67.3 | 150 |
| FTTA-125 | PH125-C | 60 | 225 | NO | 20" | 50.8 | 49" | 124.46 | 1" | 2.54 | 175 | 79.5 | 150 |
| FTTA-160 | PH160-C | 70 | 262 | NO | 24" | 60.96 | 46" | 116.84 | 1" | 2.54 | 259 | 117.7 | 150 |
| FTTA-180 | PH180-C | 80 | 300 | NO | 24" | 60.96 | 49" | 124.46 | 1" | 2.54 | 268 | 122 | 150 |
| FTTA-80 | PH80-C | 35 | 130 | NO | 16" | 40.64 | 45" | 114.3 | 1" | 2.54 | 109 | 49.5 | 150 |
| FTTA-100 | PH100-C | 45 | 169 | NO | 20" | 50.8 | 38" | 96.52 | 1" | 2.54 | 148 | 67.3 | 150 |
| FTTA-125 | PH125-C | 60 | 225 | NO | 20" | 50.8 | 49" | 124.46 | 1" | 2.54 | 175 | 79.5 | 150 |
| FTTA-160 | PH160-C | 70 | 262 | NO | 24" | 60.96 | 46" | 116.84 | 1" | 2.54 | 259 | 117.7 | 150 |
| FTTA-180 | PH180-C | 80 | 300 | NO | 24" | 60.96 | 49" | 124.46 | 1" | 2.54 | 268 | 122 | 150 |
| FTTA-210 | PH210-C | 90 | 337 | NO | 24" | 60.96 | 52" | 132.08 | 1" | 2.54 | 283 | 128.6 | 150 |



PH5-C
PH12-C

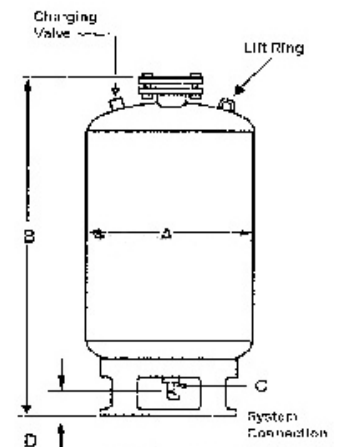


PH25-C thru
PH210-C

Carbon steel tank with prime painted exterior finish
Stainless Steel system connection
Heavy duty FDA approved butyl bladder
Maximum design pressure 150 PSI
Maximum design temperature: 240 F

| Tank Specifications | | | | | | | | | | | | | | | |
|---------------------|---------------|--------|-------|------------|-------|-------|------|-------|------|-------|------|-------|------|--------|-------|
| Model | Flexcon Model | Volume | | Acceptance | | A | | B | | C | | D | | Weight | |
| | | Gal | Liter | Gal. | Liter | (in.) | (mm) | (in.) | (mm) | (in.) | (mm) | (in.) | (mm) | (Lbs.) | (kg.) |
| FTXA 85 | WHV 85-C | 23 | 85 | 23 | 85 | 16 | 406 | 37 | 940 | 1 | 25 | 5 1/4 | 133 | 90 | 41 |
| FTXA 130 | WHV-130-C | 35 | 130 | 35 | 130 | 20 | 508 | 37 | 940 | 1 | 25 | 5 1/4 | 133 | 132 | 60 |
| FTXA 200 | WHV-200-C | 53 | 200 | 53 | 200 | 24 | 610 | 45 | 1143 | 1 1/2 | 38 | 5 1/4 | 133 | 220 | 100 |
| FTXA 300 | WHV-300-C | 80 | 300 | 80 | 300 | 24 | 610 | 58 | 1473 | 1 1/2 | 38 | 5 1/4 | 133 | 236 | 107 |
| FTXA 400 | WHV-400-C | 106 | 400 | 106 | 400 | 30 | 762 | 50 | 1270 | 1 1/2 | 38 | 5 1/4 | 133 | 315 | 143 |
| FTXA 500 | WHV-500-C | 132 | 500 | 132 | 500 | 30 | 762 | 56 | 1422 | 2 | 61 | 4 3/4 | 121 | 347 | 158 |
| FTXA 600 | WNV-600-C | 158 | 600 | 158 | 600 | 30 | 762 | 68 | 1727 | 2 | 61 | 4 3/4 | 121 | 378 | 172 |
| FTXA 800L | WHV-800-C | 211 | 800 | 211 | 800 | 32 | 813 | 76 | 1930 | 2 | 61 | 4 3/4 | 121 | 503 | 228 |
| FTXA 1000 | WHV-1000-C | 264 | 1000 | 264 | 1000 | 36 | 914 | 85 | 2159 | 3 | 76 | 8 | 203 | 796 | 361 |

Carbon steel tank with prime painted exterior finish
Stainless Steel system connection
Heavy duty FDA approved butyl bladder
Maximum design pressure 150 PSI
Maximum design temperature: 240 F



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